



Ministry
of Defence

JSP 520
Safety and Environmental Management of
Ordnance, Munitions and Explosives over the
Equipment Acquisition Cycle

Part 2: Guidance
Vol 1: Introduction, Definitions, Acronyms and
References

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Foreword

The Secretary of State for Defence (SofS) through his Health Safety & Environmental Protection (HS&EP) Policy Statement requires Top Level Budget Holders and Trading Fund Chief Executives to conduct defence activities with high standards of HS&EP. They are expected to achieve this by implementing robust, comprehensive Health Safety & Environmental Management Systems.

As Director of the Defence Safety Authority (DSA), I am responsible for providing MOD regulatory regimes for HS&EP in the Land, Maritime, Nuclear and OME domains. The OME regulations set out in JSP 520 are mandatory and take precedence where Ordnance, Munitions or Explosives are involved. Full compliance is required, except as set out in JSP815 Defence Health and Safety and Environmental Protection. It is the responsibility of commanders and line managers at all levels to ensure that personnel, including contractors, involved in the management, supervision and conduct of defence activities are fully aware of their responsibilities.

DSA regulators are empowered to enforce these regulations.

JCS Baker

Depty Director Defence Safety Authority

Defence Authority for Health Safety and Environmental Protection

Preface

How To Use This JSP

1. This JSP explains the requirements needed to demonstrate that the inherent risks from Ordnance, Munitions and Explosives (OME) are either Broadly Acceptable or Tolerable and As Low as Reasonably Practicable (ALARP) for the MOD, third parties and the environment.
2. It applies to all OME:
 - a. Ordnance e.g., weapons including directed energy, small arms, delivery platforms including barrels, launchers, fire systems.
 - b. Munitions e.g., missile, shell, mine, demolition store, pyrotechnics, mines, bullets, explosive charges, mortars, air launched weapons, free fall weapons.
 - c. Explosives e.g., propellants, energetic material, igniter, primer, initiatory and pyrotechnics irrespective of whether they evolve gases (e.g. illuminants, smoke, delay, decoy, flare and incendiary compositions)
3. It is designed to be used by personnel who are responsible for OME employed by or contracted to the MOD.
4. It contains the policy and direction about the processes involved and the techniques to be applied throughout the acquisition cycle or Manufacture to Target or Disposal Sequence (MTDS).
5. The JSP is structured in two parts:
 - a. Part 1 Directive. Provides the regulations that shall be followed in accordance with Statute, or Policy mandated by Defence or on Defence by Central Government.
 - b. Part 2 Guidance. Provides the guidance that should be followed to assist the user in complying with regulations detailed in Part 1.

Related Documents	Title
JSP375	MOD Health and Safety Handbook.
JSP390	Military Laser Safety
JSP418	MOD Corporate Environmental Protection Manual.
JSP430	Management of Ship Safety and Environmental Protection.
JSP454	Land Systems Safety and Environmental Protection.
JSP482	MOD Explosives Regulations.
JSP762	Weapons and Munitions Through Life Capability
JSP815	Defence Health and Safety and Environmental Protection.
MAA/RA	Military Aviation Authority Regulatory Publications (MRP)

Coherence With Other Defence Authority Policy And Guidance.

6. Where applicable, this document contains links to other relevant JSPs, some of which may be published by different Defence Authorities. Where particular dependencies exist, these other Defence Authorities have been consulted in the formulation of the policy and guidance detailed in this publication.

Training

7. This JSP has been developed for use by Suitably Qualified and Experienced Personnel (SQEP) involved with OME. Simply following this JSP will not fulfil obligations arising from other legislation.

Further Advice And Feedback- Contacts

8. The owner of this JSP is [DSA-DOSR-PRG-ATL](#). For further information about any aspect of this guide, or questions not answered within the subsequent sections, or to provide feedback on the content, contact:

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Authority

9. This issue of JSP 520 volume 1 supersedes all previous volume 1.

10. This document is crown copyright and the intellectual property rights of this publication belong exclusively to the Ministry of Defence. However, material or information contained in this publication can be reproduced, stored in a retrieval system or transmitted in any form provided it is used for the purposes of furthering safety management.

Status

11. All hard copies of JSP520 Part 1 or 2 are uncontrolled. The JSP will be updated whenever additional or improved guidance becomes available and will be reviewed at least annually.

12. Readers are encouraged to assist in the continued update of this document by informing the [DSA-DOSR-PRG-4](#) of any required changes particularly those resulting from their experiences in the development of OME safety regimes.

13. To check the latest amendment status reference should be made to JSPs within the Library section of the Defence Intranet.

Cautionary Note About References

14. The responsibility for the use of correct and relevant standards, procedures and working practices remains with the Project Team Leader (PTL). No assurance is given that the documents referenced within JSP520 Part 1 and 2 are up to date or that the list is comprehensive. It will be necessary to check applicability for the intended use and where relevant confirm documents accuracy and suitability to the intended use.

Amendment Record

Issue 4.2 changes highlighted in YELLOW					
No.	Section	Par	Amendment Summary	Agreed	Date
4.2	Preface	1	Remove practical handbook	PRG-4	16/06/15
4.2	Preface	2	Added direct energy and examples	PRG-4	16/06/15
4.2	Preface	3	Removed Land, Sea, Air	PRG-4	16/06/15
4.2	Preface	5	Added MTDS	PRG-4	16/06/15
4.2	Preface	6	JSP added	PRG-4	16/06/15
4.2	Preface	8	Sentence Removed	PRG-4	16/06/15
4.2	Preface	9	Organisational DSA changes	PRG-4	16/06/15
4.2	Preface	10	Rewording	PRG-4	16/06/15
4.2	Preface	12	Reworded	PRG-4	16/06/15
4.2	Preface	13	Organisational DSA changes	PRG-4	16/06/15
4.2	1	4	Organisational DSA changes	PRG-4	16/06/15
4.2	1	5	Organisational DSA changes	PRG-4	16/06/15
4.2	1	6	Acquisition System Guidance	PRG-4	16/06/15
4.2	1	8	Organisational DSA changes	PRG-4	16/06/15
4.2	1	10	Organisational DSA changes	PRG-4	16/06/15
4.2	1	11	Organisational DSA changes	PRG-4	16/06/15
4.2	1	13a/b	Organisational DSA changes	PRG-4	16/06/15
4.2	1	14	Organisational DSA changes	PRG-4	16/06/15
4.2	1	16	Organisational DSA changes	PRG-4	16/06/15
4.2	1	17	Organisational DSA changes	PRG-4	16/06/15
4.2	1	18	Organisational DSA changes	PRG-4	16/06/15
4.2	1	Annex A	Organisational DSA changes	PRG-4	16/06/15
4.2	1	Annex B	Organisational DSA changes	PRG-4	16/06/15
4.2	1	Annex C	Definitions base on AOP38	PRG-4	16/06/15
4.2	1	Annex D	Organisational DSA changes	PRG-4	16/06/15
4.2	1	Annex E	Organisational DSA changes	PRG-4	16/06/15

Issue 4.1					
No.	Section	Par	Amendment Summary	Agreed	Date
4.1	Forward	-	New forward from C Baker	Du-Policy	27/11/14
4.1	Preface	2	Small arms	Du-Policy	27/11/14
4.1	Preface	3	Who are	Du-Policy	27/11/14
4.1	Preface	5	About, to be applied	Du-Policy	27/11/14
4.1	Preface	6	Regulations, shall, should	Du-Policy	27/11/14
4.1	Preface	9	New address	Du-Policy	27/11/14
4.1	Preface	11	Update to 4.1	Du-Policy	27/11/14
4.1	Preface	13	Update to 4.1	Du-Policy	27/11/14
4.1	1	1	Changed to reflect JSP convention Part 1 Directive, Part 2 Guidance.	Du-Policy	27/11/14
4.1	1	3	Figure 1 - Guidance Structure now Volumes	Du-Policy	27/11/14
4.1	Annex A		Address update	Du-Policy	27/11/14
4.1	Annex B		Address update	Du-Policy	27/11/14
4.1	Annex E		JSP520 Guidance Structure now Volumes	Du-Policy	27/11/14

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1 Overview

1. The Joint Service Publication (JSP) 520 Part 2 Guidance, expands on the regulations contained in JSP520 Part 1 Directive describing in more detail the roles, responsibilities, procedures and techniques to be employed to implement the regulations. Sections of Part 2 have been marked as MOD Codes Of Practice (MOD COP). If these MOD COP are not used by the PT then justification shall be documented in the OME's Safety and Environmental Case Report and / or the Safety and Environmental Management Plan. Compliance with Part 2 and associated safety regulations and policy will meet the requirements of Part 1 and provide robust evidence that the levels of risk presented to personnel, third parties and materiel are either Broadly Acceptable or Tolerable and As Low as Reasonably Practicable (ALARP).
2. The term 'safety' is used throughout this document and refers to system safety and its impact on people and the environment. A distinction will be made where a variation to this approach is required.

Part 2 Structure

JSP520 Part 2 has been structured in the following volumes:

- Vol 1: Introduction, Definitions, Acronyms and References
- Vol 2: Process Interface
- Vol 3: Safety and Environmental Management System
- Vol 4: Roles and Responsibilities
- Vol 5: Competence
- Vol 6: OME Review Category
- Vol 7: Legislation Compliance
- Vol 8: Risk Management
- Vol 9: Safety and Environmental Case Development
- Vol 10: Clearances and Certificates
- Vol 11: Insensitive Munitions
- Vol 12: Safety Performance Reporting and Feedback
- Vol 13: OSRP Process
- Vol 14: Audit

Table 1: Guidance Structure

Generation, Publication and Maintenance Of JSP 520

Introduction

3. The purpose of this guidance is to detail the general requirements for maintaining and reviewing JSP520.
4. Whilst it is the role of the Defence Safety Authority (DSA) Defence OME Safety Regulator (DOSR) Policy Section to manage JSP520 Part 1 and ensure its alignment with JSP815¹ and the domain specific regulations Land (JSP454²), Maritime (JSP430³), Air (MRP⁴) and Nuclear (JSP 538⁵) all users have a responsibility to bring the need for changes to the attention of the document sponsors.
5. Proposed changes to JSP520 may be submitted by anyone and will be reviewed by the Editorial Committee in accordance with its Terms of Reference⁶. Approved changes will generally be incorporated into JSP520 annually, changes judged essential will be incorporated as required. When incorporating changes, care is to be taken to ensure JSP520 precedence where Ordnance, Munitions or Explosives are involved and maintain coherence across JSP520. This may require staffing through other DSA Editorial committees.
6. JSP520 is referred to by the Acquisition System Guidance (ASG) and the master is held electronically, although uncontrolled hard copies are available.

Methodology To Be Used In Maintaining And Reviewing JSP520

7. Changes to JSP520 Part 1 and Part 2 will be made using systems engineering methodology to ensure traceability between the various elements of the system. When making changes to the system, the “knock-on effect” will be addressed to ensure the traceability element is maintained.
8. The Editorial Committee is a forum established by the DSA, chaired by DSA DOSR Policy Regulation and Guidance Assistant Team Leader (DSA-DOSR-PRG-ATL) with appropriate membership from users and Duty Holders represented on the Defence Ordnance Safety Regulator Stakeholder Committee (DOSR SC) and is the method for updating and maintaining JSP520. The Editorial Committee Terms of Reference are detailed in JSP520⁷.
9. Requests for changes to the documentation can be made by sending a Change Proposal Form to Policy (see Annex A), which is available on the MOD Intranet. The Editorial Committee will consider all Change Proposals and agree appropriate changes to JSP520 Part 1 and Part 2. Where the Editorial Committee considers an amendment to represent a major change to regulation, it will ensure that appropriate

¹ JSP815 Defence Health and Safety and Environmental Protection.

² JSP454 Land Systems Safety and Environmental Protection.

³ JSP430 Management of Ship Safety and Environmental Protection.

⁴ MAA 01 Military Aviation Authority Regulatory Policy.

⁵ JSP 538 Regulation of the Nuclear Weapon Programme

⁶ JSP520 Part 2 Vol 4: Roles and Responsibilities.

⁷ JSP520 Part 2 Vol 4: Roles and Responsibilities.

staffing of the regulation change is undertaken, and consultation through DOSR SC is sought, prior to seeking Director DSA (D DSA) endorsement.

Review Process

10. JSP520 Part 1 and Part 2 will be formally reviewed by **DSA-DOSR-PRG-4** annually and proposals for amendment submitted to the Editorial Committee.
11. **Approved amendments, as a result of the review, are to be incorporated into JSP520.**
12. Amendments which result in major changes to the basic principles of JSP520 will be approved by the D DSA.

Responsibilities

13. Users of JSP520 are responsible for:
 - a. Communicating JSP520 suggested improvements etc. to **DSA-DOSR-PRG-4**.
 - b. Supporting **DSA-DOSR-PRG-4**, as required, in reviewing proposed changes to the JSP520.
14. **DSA-DOSR-PRG-4** is responsible for:
 - a. Identifying changing requirements in legislation, technology, public perception etc, which may have an impact on JSP520.
 - b. Reviewing, using competent people within the OME safety community, suggested changes to JSP520.
 - c. Ensuring that changes meet the regulatory requirements detailed in JSP815⁸.
 - d. Making changes to JSP520 using systems engineering methodology.
 - e. Ensuring configuration management controls are applied.
 - f. Ensuring that JSP520 Part 1 and Part 2 are formally reviewed annually.
15. Further guidance about the Roles and Responsibilities of the JSP520 Editorial Committee are presented within JSP520 Part 2⁹.

DSA DOSR Safety Notice

16. The aim of the **DSA DOSR Safety Notice** is to provide a swift method of circulating an update to the requirements of JSP520, prior to the issue of formal updates to JSP520.
17. Annex B presents the template of an **DSA DOSR Safety Notice**. The headings within the template are for guidance only and can be tailored to meet the requirements of the notice.

⁸ JSP815 Defence Health and Safety and Environmental Protection.

⁹ JSP520 Part Vol 4: Roles and Responsibilities.

18. The draft of the DSA DOSR Safety Notice is to be circulated to DSA-DOSR staff for comment. DOSG sections and external agencies may also be asked to comment upon the draft. Following comment and agreement by DSA-DOSR-PRG-4, the DSA-DOSR Safety Notice will be signed, distributed to the PTs and other relevant stakeholders as appropriate. The DSA-DOSR Safety Notices will be posted on the MOD Intranet.

Annex A: JSP520 Change Proposal Form

DSA-DOSR Change Ref No: _____ (To be completed by DSA-DOSR-PRG-4 on receipt)	
Part 1: for completion by the person raising the comment	
JSP520 Reference: Paragraph: Issue:	
RECOMMENDATION:	
Advantages:	Disadvantages:
Proposed text:	
Originator:	
Date:	
Please save this form then e-mail it to: dsa-dosr-prg-4@mod.uk Or by post: DSA-DOSR-PRG-4, Hazel, #H019, Abbey Wood (North), New Road, Stoke Gifford, Bristol, BS34 8QW	
Part 2: for completion by the JSP520 Editorial Committee	
Approved by Editorial Committee:	Yes / No
Reason for Approval/Non-Approval:	
Chairman:	
Date:	
Part 3: for completion by the JSP520 Editorial Committee	
Feedback to Originator of action taken:	
DSA-DOSR-PRG-4	
Date:	

Annex B: DSA DOSR Safety Notice Template



Ministry
of Defence

Defence Safety Authority

Hazel, #H019, Abbey Wood (North), New Road, Stoke Gifford, Bristol, BS34 8QW

Telephone: <Technical Author Contact Details>

e-mail:

DSA/DOSR Ref: <XXXXXX>

DSA DOSR SAFETY NOTICE ¹⁰ JSP???

<insert number>/(<insert year>)

<insert subject title>	
Who should read this:	
Category:	<For example, Regulations, COP or Guidance>
Cancellation date:	<Enter cancellation date or when it may be superseded e.g. Amdt to JSP>
Point of contact:	<Technical Author or Chapter Custodian as appropriate>

Reference(s):

A. <Insert relevant references>

Attachments:

Annex A. <Insert relevant attachment>

1 Purpose

1.1 The purpose of the DSA DOSR Safety Notices are to provide a swift method of circulating an update to the regulations, requirements and/or guidance of Joint Service Publication (JSP) <???, prior to the issue of formal updates.

1.2 This DSA DOSR Safety Notice JSPXXX/XX)/XX has been issued

2 Aim

3 Background

4 Policy

5 Action required

Prepared: <Technical Author Name and Post Details>

Date:

Authorised: <DOSR TL or MACR Competent Authority>

Date:

¹⁰ DSA DOSR Safety Notices replace previous methods of advance notification of change to JSPs e.g. TEBs, RSN, SMO Notice, MACR Newsletter and LSPL.

Annex C: Definitions

The definitions used in JSP520 Parts 1 and 2 are presented below		
Term	Definition	Source
Accident	An unintended event, or sequence of events, that causes death, injury, environmental or material damage.	AOP-38 ¹¹ Edit 5 Oct 09
Acquisition	Acquisition is working together with industry to provide the necessary military capability to meet the needs of our Armed Forces now and in the future. It covers the setting of requirements; the selection, development and manufacture of a solution to meet those requirements; the introduction into service and support of equipment or other elements of capability through life, and its appropriate disposal.	Acquisition System Guidance
Acquisition System Guidance	The Acquisition System Guidance (ASG) is the authoritative source of policy and good practice on Acquisition for the Ministry of Defence (MOD) and industry partners. The ASG provides a structured source of information, guidance and instruction for everyone who works in acquisition, whether they are MOD or Industry.	Acquisition System Guidance
Agree	To agree that a document fairly represents the current situation, within the scope of knowledge of the signatory.	JSP520
Air launched munition (ALM)	Any device containing explosive material, which is launched from an aircraft with the exception of aircraft gun ammunition.	AOP-38 Edit 5 Oct 09
ALARP	As Low As Reasonably Practicable. A risk is ALARP when it has been demonstrated that the cost of any further Risk Reduction, where the cost includes the loss of defence capability as well as financial or other resource costs, is grossly disproportionate to the benefit obtained from that Risk Reduction. A risk should be either Broadly Acceptable or Tolerable and ALARP.	JSP520
Ammunition	In NATO documents synonymously used for munition.	AOP-38 Edit 5 Oct 09
Assumption	An assertion about the system, its operating environment or modes of use that is employed without proof, although justification may be required.	JSP520
Assurance	Adequate confidence and evidence, through due process, that safety requirements have been met.	JSP520

¹¹ AOP38: Glossary of Terms and Definitions on Ammunition Safety

The definitions used in JSP520 Parts 1 and 2 are presented below		
Term	Definition	Source
Authorise	To assert that a document may be issued and that it reflects the individual's acceptance of responsibility.	JSP520
Broadly Acceptable	A level of risk that is sufficiently low that it may be tolerated without detailed ALARP demonstration, although risk should be reduced wherever reasonably practicable.	JSP520
Bomb	Explosive article which is dropped from aircraft. It may contain flammable liquid with bursting charge, a photo-flash composition or a bursting charge. The term excludes aerial torpedoes.	AOP-38 ¹² Edit 5 Oct 09
Can	A statement of possibility or capability, whether material, physical or causal.	ISO / IEC Directives Pt 2. Eddition 6.0 2011
Caveat	A cautionary remark'. Additional information that does not restrict use or demand any specific action to satisfy the requirements of JSP520.	JSP520
Cook-off	The premature ignition of an energetic material due to external heat. Note: For example the ignition of a propellant charge in a hot weapon chamber.	AOP-38 Edit 5 Oct 09
Codes of Practice (COPs)	Guidance which supplements the policy and provides guidance on compliance with the policy. Non-compliance with a COP could be used as evidence of failure to do all that was reasonably practicable to comply with the policy. The term Approved Code of Practice (ACOP) was originally introduced by Section 16 of the Health and Safety at Work etc Act 1974 by which the Health and Safety Commission may approve industrial standards and working practices which meet the requirements of a particular set of Regulations.	Adapted HSWA 1974
Consequence	The result of an accident. Note : Examples are the release and dispersion of a given quantity of hazardous material, a given level of damage to a vehicle, a given number of people injured.	AOP-38 Edit 5 Oct 09
Competent Person	A person who has sufficient training and experience or knowledge as to enable them to assist in securing compliance, on the part of the employee, with the necessary safety legislation and maintenance procedures.	Management of Health & Safety (HSG65).
Credible accident	A reasonable sequence of unintended events to which a weapon or weapon system may be exposed.	AOP-38 ¹³ Edit 5 Oct 09

¹² AOP38: Glossary of Terms and Definitions on Ammunition Safety

¹³ AOP38: Glossary of Terms and Definitions on Ammunition Safety

The definitions used in JSP520 Parts 1 and 2 are presented below		
Term	Definition	Source
Disposal	<p>The end of life tasks and actions for residual materials resulting from demilitarisation operations.</p> <p>Note 1: Disposal encompasses the process of redistributing, transferring, donating, selling, abandoning or destroying military munitions.</p> <p>Note 2: Explosive Ordnance Disposal (EOD) activities are not included in this definition.</p>	AOP-38 Edit 5 Oct 09
Duty Holder	<p>Employers, managers and employees all have duties under Health, Safety and Environmental Protection (HS&EP) legislation; additionally it is appropriate in Defence to identify individual post-holders as Duty Holders (DHs) to provide specific focus on HS&EP management. Where appointed, a DH has a personal duty of care for people who, by virtue of their involvement in activities, come within his area of responsibility (AoR) and for the public who may be affected by activities in his AoR. A DH is accountable¹⁴ for ensuring that risks to life from activities in his AoR are reduced ALARP and are tolerable to him. DHs are nominated at discrete levels in each TLB etc., in parallel with the command or management hierarchy, in order to provide necessary separation and a degree of beneficial tension between safety and delivery.</p>	JSP815 ¹⁵ Edit 3 Dec 14
Duty Holder - Senior	<p>The Policy Statement identifies the TLBH / CE as the SDH for activities in his AoR. An SDH is personally responsible for ensuring that resources are adequate to conduct activities safely, that effective management arrangements are implemented and that personnel (in particular DHs) under his command / management are suitably qualified, experienced, trained and equipped. An SDH is accountable, and has right of access, to Secretary of State (SofS).</p>	JSP815 ¹⁶ Edit 3 Dec 14

¹⁴ Legal responsibility rests with SofS.

¹⁵ JSP815 Defence Health and Safety and Environmental Protection.

¹⁶ JSP815 Defence Health and Safety and Environmental Protection.

The definitions used in JSP520 Parts 1 and 2 are presented below		
Term	Definition	Source
Duty Holder - Operational	An SDH is formally to appoint Operating Duty Holders (ODHs) (at typically 2* level) for activities, or groups of activities, in his AoR. An ODH is personally responsible for ensuring that resources are adequate to conduct activities safely, that effective management arrangements are implemented and that personnel (in particular DHs) under his command / management are suitably qualified, experienced, trained and equipped. An ODH typically oversees all defence lines of development (e.g. approved equipment / materiel, trained and competent staff) that contribute to activities, and he may own the safety case for a significant defence activity in his AoR, being personally satisfied that risk to life has been reduced ALARP. An ODH is accountable, and has right of access, to his appointing SDH.	JSP815 Edit 3 Dec 14
Duty Holder - Delivery	A superior DH is formally to appoint Delivery ¹⁷ Duty Holders (DDHs) for specific activities in his AoR. A DDH is personally responsible for ensuring that resources are adequate to conduct activities safely, that effective management arrangements are implemented and that personnel under his command / management are suitably qualified, experienced, trained and equipped. A DDH owns the safety case for his defence activity, if this is not owned by the ODH or others, being personally satisfied that risk to life has been reduced ALARP. By virtue of his position in the command / management hierarchy and his proximity, the DDH provides for the supervision of the defence activity being conducted. A DDH is accountable and has right of access to his appointing superior DH.	JSP815 Edit 3 Dec 14
Dud	Warhead, projectile or explosive main charge, which after firing, has not been armed as forseen, or which did not explode after arming.	AOP-38 ¹⁸ Edit 5 Oct 09
Dynamic safety (OME)	A collective term applied to ordnance systems which discharge projectiles, including those events which occur in the period between launch initiation (intentional or otherwise) up to the end of flight, termination on target.	JSP520
Endorse	To assert that a document meets the requirements of relevant policy, procedures and good practice.	JSP520

¹⁷ In some TLBs this is termed the Commanding Officer DH.

¹⁸ AOP38: Glossary of Terms and Definitions on Ammunition Safety

The definitions used in JSP520 Parts 1 and 2 are presented below		
Term	Definition	Source
Environment	<p><i>Source of influences on material (donor aspect):</i> The total set of all external natural and induced conditions to which a material is exposed at a given moment, during a specific period of time.</p> <p><i>The surroundings of a source (acceptor aspect):</i> anything and anybody present in the neighbourhood of a source likely to undergo its influence.</p>	AOP-38 Edit 5 Oct 09
Equipment	An item that is designed to provide one or more services or functions to the user, or the system of which it forms a part.	JSP520
Explosive material	<p>A substance (or a mixture of substances) which is capable by chemical reaction of producing gas at such a temperature and pressure as to cause damage to the surroundings.</p> <p>A substance manufactured with a view to producing a practical effect by explosion or pyrotechnic effect.</p> <p>Note 1: The term explosive material includes solid and liquid high explosives, propellants and pyrotechnics.</p> <p>Note 2: It also includes pyrotechnic substances even when they do not evolve gases.</p> <p>Note 3: The term “explosive” is often used in short for “explosive material”.</p> <p>Note 4: An explosive atmosphere of gas, vapour or dust is not considered to be an explosive.</p> <p><i>Examples:</i> propellants, energetic material, igniter, primer, initiatory and pyrotechnics irrespective of whether they evolve gases (e.g. illuminants, smoke, delay, decoy, flare and incendiary compositions).</p>	AOP-38 Edit 5 Oct 09
Explosive Remnants of War (ERW)	Munitions which have been abandoned or have failed to explode during an armed conflict.	JSP520
Fast cook-off	The reaction mechanism which occurs in a munition as a result of a fast heating stimulus.	AOP-38 Edit 5 Oct 09

The definitions used in JSP520 Parts 1 and 2 are presented below		
Term	Definition	Source
Firing system	<i>Launching systems:</i> The aggregate of devices in a munition and its associated weapon system (including cannon, launcher and munition launch platform) which generate and control the operating signal to cause propelling charge or the propulsion system to function. Note: For rockets and missiles: ignition system	AOP-38 Edit 5 Oct 09
Hang-fire	<i>Tube launched munitions, rockets and missiles:</i> an unintended delay in the functioning of the firing system.	AOP-38 ¹⁹ Edit 5 Oct 09
Hang-up	<i>Air dropped weapons:</i> A failure from the parent carrier resulting in the unintentional retention of the munition or weapon.	AOP-38 Edit 5 Oct 09
Harm	Physical injury or damage to health, property or the environment.	AOP-38 Edit 5 Oct 09
Hazard	A condition that is a prerequisite to a mishap. Any phenomenon – environmental force or intrinsic effect induce an adverse effect in the munition compromising its safety or suitability for service. Note: a hazard is characterised by its nature, severity or probability of occurrence.	AOP-38 Edit 5 Oct 09
Hazardous consequences of initiation	Hazards including partial initiation (whether intentional or unintentional) of the explosive component, such as blast, fragment, noise, toxic efflux, heat etc.	JSP520
Hazard External and Internal	Those hazards which could initiate the explosive component or have an adverse effect on the firing chain, such as spurious fire commands, EMC / E ³ (Electro Magnetic Compatibility / Environmental Electromagnetic Effects) emissions, temperature / drop / shock / vibration, firing chain failure, aerodynamic heating, fragment and bullet attack.	JSP520

¹⁹ AOP38: Glossary of Terms and Definitions on Ammunition Safety

The definitions used in JSP520 Parts 1 and 2 are presented below		
Term	Definition	Source
Hazard Footprint	<p>A statement summarising hazards identified within a safety case, the full mitigation of which is outside the control of a Duty Holder and likely to affect third parties. This concept helps to communicate the effects of hazards or accident sequences and their implications for third parties. The format of this communication will cover both consequences (under the precautionary principle) and the estimated risks (under the proportionality principle).</p> <p>The concept of hazard footprints has been developed to facilitate the consideration of risks for a mobile system or platform and between equipment / systems and platforms, which may interact with their surroundings, under different contexts and operational scenarios.</p>	Adapted JSP430 ²⁰ .
Hazard analysis	The systematic examination of a system or an item and its life cycle to identify hazardous situations and events including those associated with human, product and environmental interfaces, and to assess their consequences to the functional and safety characteristics of the system or the item.	AOP-38 ²¹ Edit 5 Oct 09
Hazard Intrinsic	Those hazards presented by the explosive material in its quiescent state, such as toxicity, composition breakdown, gas / heat generation, material incompatibility.	JSP520
Hazard Log	The continually updated record of the hazards, accident sequences and accidents associated with a system. It includes information documenting risk management for each hazard and accident.	DefStan 00-56 ²² Issue 5.0
Hazard - Post launch and dynamic safety	Such as loss of guidance control, unintended launch, ricochet, early burst.	JSP520
Head of Establishment	Duty Holder with authority over and responsibility for the activities within a MOD establishment (site, building, facility or range) (including those in command of ships and submarines).	JSP520
Human Factors	The systematic application of relevant information about human capabilities, limitations, characteristics, behaviours and motivation to the design of systems.	DefStan 00-56 ²³ Issue 5.0

²⁰ JSP430 Management of Ship Safety and Environmental Protection.

²¹ AOP38: Glossary of Terms and Definitions on Ammunition Safety

²² DefStan 00-56 Safety Management Requirements for Defence Systems.

²³ DefStan 00-56 Safety Management Requirements for Defence Systems.

The definitions used in JSP520 Parts 1 and 2 are presented below		
Term	Definition	Source
Implementation	The enactment of those SEMS activities which directly affect the safety of the OME equipment or system, through the specification, procurement, use ownership and management of a subject OME system.	JSP520
Incident	Unexpected event which degrades safety and increases the probability of an accident.	AOP-38 ²⁴ Edit 5 Oct 09
Independent Safety and Environmental Auditor	An individual or team, from an independent organisation, that undertakes audits and other assessment activities on behalf of MOD to provide assurance that safety and environmental activities comply with planned arrangements, are implemented effectively and are suitable to achieve objectives; and whether related outputs are correct, valid and fit for purpose.	DefStan 00-56 Issue 5.0
Inherent safety	The ability of an Ordnance System, Munition or Explosive device to retain its safety under specified stimuli (both intended and accidental), due to the nature of its design, its safety features and materiel employed as an inseparable part of that system.	JSP520
Insensitive munition	Munitions which reliably fulfil their performance, readiness and operational requirements on demand and which minimise the probability of inadvertent initiation and severity of subsequent collateral damage to weapon platforms, logistic systems and personnel when subjected to selected accidental and combat threats.	AOP-38 Edit 5 Oct 09
Life cycle	A timebased description of the events and environments an item experiences from manufacture to final expenditure or removal from the operational inventory. Note 1: The life cycle includes one or more mission profiles and disposal or demilitarization. Note 2: Service life is a sub set of life cycle. Note 3: The expected environments and the environmental profile are based on the life cycle.	AOP-38 Edit 5 Oct 09
Limitation	A constraint endorsed by an OSRP on the scope of the operational envelope of a munition, which may preclude it, being used in the intended manner. Normally associated with the lack of evidence that the munition is safe in a specified environment, or conversely that insufficient evidence has been presented to demonstrate that risks are ALARP.	JSP520

²⁴ AOP38: Glossary of Terms and Definitions on Ammunition Safety

The definitions used in JSP520 Parts 1 and 2 are presented below		
Term	Definition	Source
Lines of development	Training, Equipment, Personnel, Information, Concepts and Doctrine, Organisation, Infrastructure, Logistics and Interoperability.	Acquisition System Guidance
Material	All equipment, stores, packaging and supplies used by the military forces.	AOP-38 ²⁵ Edit 5 Oct 09
May	A course of action permissible within the limits of the policy.	ISO / IEC Directives Pt 2. Edition 6.0 2011
Misfire	Failure to fire or launch as intended resulting in the unintentional retention of the munition in the weapon.	AOP-38 Edit 5 Oct 09
Missile	A weapon or object to which self-contained propulsive energy is applied during flight.	AOP-38 Edit 5 Oct 09
Mitigation	The reduction of a risk by means of an applied action.	AOP-38 Edit 5 Oct 09
Munition	<p>An item which, in order to perform its function, requires to contain energetic materials. A complete device, charged with explosives, propellants, pyrotechnics, initiating compositions or nuclear, biological or chemical material, for use in military operations.</p> <p>Note1: In logistic configuration, the logistic packaging of the munition is included.</p> <p>Note2: In NATO documents, the term ammunition is synonymous with munition.</p> <p>Note 3: Munitions (plural) is used as overarching term for military weapons, munition and equipment.</p> <p><i>Examples:</i> missile, shell, mine, demolition store, pyrotechnics, mines, bullets, explosive charges, mortars, air launched weapons, free fall weapons</p>	AOP-38 Edit 5 Oct 09
Must	An external regulatory requirement.	ISO / IEC Directives Pt 2. Edition 6.0 2011

²⁵ AOP38: Glossary of Terms and Definitions on Ammunition Safety

The definitions used in JSP520 Parts 1 and 2 are presented below		
Term	Definition	Source
Near Miss	An occurrence, or potential occurrence, involving an explosive, or an occurrence potentially involving an explosive, which could have caused: <ul style="list-style-type: none"> • Damage to the explosives. • Damage to, or contamination of, military or civilian equipment. Property or the environment. • Injury to, or illness of, military personnel, MOD civilian personnel or members of the public. • Threat to the structural integrity of, or to cause damage to, military or civilian equipment, property or the environment 	JSP482 ²⁶ .
Net explosive quantity (NEQ)	The total explosive contents of an ammunition, unless it has been determined that the effective quantity is significantly different from the actual quantity. It does not include such substances as white phosphorous, war gases or smoke and incendiary compositions unless these substances contribute significantly to the dominant hazard of the hazard division concerned.	AOP-38 ²⁷ Edit 5 Oct 09
OME PTL	The MOD Duty Holder with specific responsibilities for the safety and environmental management of an OME system. This party will normally be the OME Project Team Leader, or equivalent posting; and has been delegated responsibility via a Letter of Delegation.	JSP520
Operational Environment	The total set of all external natural and induced conditions to which a material is exposed during its operational life.	AOP-38 Edit 5 Oct 09
Operational Life	The time during which material may be expected to remain safe and serviceable when used under service or training conditions, when these are different from its storage conditions, but which is within the envelope of its life cycle.	AOP-38 Edit 5 Oct 09
Operational requirements	An established need justifying the timely allocation of resources to achieve a capability to accomplish approved military or civil objectives, operations, missions or actions.	AOP-38 Edit 5 Oct 09

²⁶ JSP482 MOD Explosive Regulations.

²⁷ AOP38: Glossary of Terms and Definitions on Ammunition Safety

The definitions used in JSP520 Parts 1 and 2 are presented below		
Term	Definition	Source
Ordnance	A weapon system with any associated munitions and auxillary material needed to use it. <i>Examples:</i> weapons including directed energy, small arms, delivery platforms including barrels, launchers, fire systems.	Adapted from AOP-38 ²⁸ Edit 5 Oct 09 in order to incorporate new technology.
OSRP ²⁹ Assurance Statement	Is a supporting declaration (based on a proportionate review) by the OME Safety and Review Panel (OSRP) for the arguments and underpinning evidence presented within the Ordnance Munitions and Explosive (OME) Safety Submission, as part of the DE&S and Project Team's assurance process.	JSP520
Persons	Persons Directly involved: Personnel having a fair and reasonable understanding of the risks associated with the OME or activity i.e., users, maintainers, cadets, emergency services. Persons Indirectly involved: Personnel not associated with the OME or activity being undertake i.e., general public, other personnel not in vicinity.	JSP520
Platform	<i>Weapon system:</i> The sub-structure of the weapon needed for its firing.	AOP-38 Edit 5 Oct 09
Maritime Platform Duty Holder	The duly appointed person charged with development and maintenance of the safety and environmental regime for a naval platform.	JSP430 ³⁰
Precautionary Principle	The precautionary Principle is applied in the circumstances where there are reasonable grounds for concern that an activity is, or could, cause harm but where there is uncertainty about the probability of the risk and the degree of harm. In practice this means that if there is an absence of information, or if the information available is inadequate, then the PT (or its advisors) must base assessments on worst case assumptions and scenarios.	Acquisition System Guidance
Projectile	An object, projected by an applied exterior force and continuing in motion by virtue of its own inertian, as a bullet, shell or grenade.	AOP-38 Edit 5 Oct 09

²⁸ AOP38: Glossary of Terms and Definitions on Ammunition Safety

²⁹ Formally known as CSOME.

³⁰ JSP430 Management of Ship Safety and Environmental Protection.

The definitions used in JSP520 Parts 1 and 2 are presented below		
Term	Definition	Source
Propellant	Substance or mixture of substances used for propelling projectiles and missiles, for reducing the drag of projectiles, or to generate gases for powering auxillary devices. Note: When ignited propellants burn or deflagrate to produce quantities of gas capable of performing the intended task. However propellants are required not to undergo a deflagration-to-detonation transition in their application.	AOP-38 Edit 5 Oct 09
Proviso	An action required of the OME SMS that must be completed to fully demonstrate that a particular risk is ALARP. It will usually arise from the Hazard Log such as an action requiring completion of some outstanding trial, provision of safety data or plans to monitor throughout the life of the munition. An OSRP Assurance Statement becomes valid when the conditions of a Proviso are acheived.	JSP520
Qualified explosive material	An explosive material which has successfully completed the qualification process of an accredited authority.	AOP-38 ³¹ Edit 5 Oct 09
Rigorous	Extremely thorough and accurate as well as strictly applied and followed.	JSP520
Risk	The combination of the frequency, or probability and the consequence of a mishap.	AOP-38 Edit 5 Oct 09
Risk Analysis	The systematic use of available information to identify hazards and to estimate the risk to individuals or populations, property or the environment.	AOP-38 Edit 5 Oct 09
Risk Assessment	The overall process of risk analysis and risk evaluation.	AOP-38 Edit 5 Oct 09
Risk Management	The systematic application of management policies, procedures and practices to the tasks of analysing, evaluating and controlling risks	AOP-38 Edit 5 Oct 09
Risk Reduction	The systematic process of reducing risk.	JSP520
Rocket	An article consisting of a rocket motor and a payload which may be an explosive warhead or other device. The item includes guided missiles and self-propelled, unguided projectiles.	AOP-38 Edit 5 Oct 09
Round	All the parts that make up the ammunition necessary in firing one shot.	AOP-38 Edit 5 Oct 09
Safe	Having an acceptable degree of freedom from risks to personnel and material at all times.	AOP-38 Edit 5 Oct 09

³¹ AOP38: Glossary of Terms and Definitions on Ammunition Safety

The definitions used in JSP520 Parts 1 and 2 are presented below		
Term	Definition	Source
Safety	<p><i>Situation:</i> An acceptable level of freedom from risks to personnel and material at all times recognising the considerations of operational necessity as a limiting factor.</p> <p><i>Material:</i> The inherent property of a system, subsystem or item that enables it to possess and maintain an acceptable level of risk during all situations and activities occurring during its specified life cycle.</p>	AOP-38 Edit 5 Oct 09
Safety Argument	A logically stated and convincingly demonstrated reason why safety requirements are met.	JSP520
Safety assessment	<p>The evaluation of an ammunition life cycle to determine the hazards to which the ammunition may be exposed.</p> <p>Note 1: the safety assessment includes identification and examination of the hazards posed by friendly munitions, enemy munitions, and accidents during storage, handling and transportation.</p> <p>Note 2: the safety assessment is based on analytical, experimental and historical data.</p>	AOP-38 ³² Edit 5 Oct 09
Safety Audit	Audit to ensure that safety activities comply with planned arrangements, are implemented effectively and are suitable to achieve objectives and related outputs are correct, valid and fit for purpose.	DefStan 00-56 ³³ Issue 5.0
Safety and Environmental Case	A structured argument, supported by a body of evidence that provides a compelling, comprehensible and valid case that a system is safe for given applications in a given operating environment.	DefStan 00-56 Issue 5.0
Safety and Environmental Case Report	A report that summarises the arguments and evidence of the Safety and Environmental Case, and documents progress against the safety plan.	DefStan 00-56 Issue 5.0
Safety and Environmental Committee	A group of stakeholders that exercises, oversees, reviews and endorses safety and environmental management and safety and environmental engineering activities.	DefStan 00-56 Issue 5.0
Safety Culture	The product of the individual and group values, attitudes, competencies and patterns of behaviour that determine the commitment to, and the style and proficiency of, an organisation's health and safety programme.	Management of Health & Safety (HSG65)
Safety Management	The application of organisational, management and engineering principles in order to achieve safety.	DefStan 00-56 Issue 5.0

³² AOP38: Glossary of Terms and Definitions on Ammunition Safety

³³ DefStan 00-56 Safety Management Requirements for Defence Systems.

The definitions used in JSP520 Parts 1 and 2 are presented below		
Term	Definition	Source
Safety and Environmental Management Plan	A document that defines the strategy for addressing safety and the environment, and documents the Safety and Environmental Management System for a specific project.	DefStan 00-56 Issue 5.0
Safety and Environmental Management System	The organisational structure, processes, procedures and methodologies that enable the direction and control of the activities necessary to meet safety and environmental requirements and policy objectives.	DefStan 00-56 Issue 5.0
Safety Programme	The part of a Safety Management Plan documenting safety time scales, milestones and other date-related information.	JSP520
Safety and Environmental Requirement	A requirement that, once met, contributes to the safety / environment of the system or the evidence of the safety / environment of the system.	JSP520
Safe and Suitability for Service (S3)	A general term used to summarise the requirements of munitions to be acceptably free from hazards and to have inherent characteristics that meet specified requirements during its agreed lifecycle. Note: It does not include operational effectiveness.	AOP-38 ³⁴ Edit 5 Oct 09
Senior Manager	A person within MOD with management responsibility for Duty Holders.	JSP520
Service Environment	The total set of all external natural and induced conditions to which an item or material is expected to be exposed through its service life	AOP-38 Edit 5 Oct 09
Service life	The time during which material, in specified storage conditions and when subsequently used in its specified operational and/or training conditions, may be expected to remain safe and serviceable.	AOP-38 Edit 5 Oct 09
Shall	Indicates a requirement strictly to be followed in order to conform to the policy and from which no deviation is permitted.	ISO / IEC Directives Pt 2. Edition 6.0 2011
Shell	A hollow projectile filled with high explosive or other material fired from a gun, cannon, howitzer or recoilless gun (rifle) Note 1: Motar fired projectiles are called motar shell Note 2: A solid projectile is call a shot.	AOP-38 Edit 5 Oct 09
Should	Among several possibilities one is recommended as particularly suitable, without excluding others or that a certain course of action is preferred but not necessarily required.	ISO / IEC Directives Pt 2. Edition 6.0 2011

³⁴ AOP38: Glossary of Terms and Definitions on Ammunition Safety

The definitions used in JSP520 Parts 1 and 2 are presented below		
Term	Definition	Source
Slow cook-off	The reaction mechanism which occurs in a munition as a result of a slow heating stimulation	AOP-38 Edit 5 Oct 09
Slow heating	The continuous application of thermal energy to a munition at low intensity.	AOP-38 Edit 5 Oct 09
Stakeholder	A person or organisation that has a direct involvement with the munition throughout its life cycle.	AOP-38 Edit 5 Oct 09
Storage compatibility group	The compatibility group for ammunition, explosives and other hazardous material which can be stored together without significantly increasing the probability of an accident or, for a given quantity, the magnitude of the effects of such an accident.	AOP-38 ³⁵ Edit 5 Oct 09
Storage life	The time for which an item of supply, including explosives, given specific storage conditions, may be expected to remain serviceable and safe.	AOP-38 Edit 5 Oct 09
Subject Matter Expert	Person who has specific knowledge or expertise in a defined area.	POSMS ³⁶ .
Sub-munition	A munition that, to perform its task, separates from its parent munition.	AOP-38 Edit 5 Oct 09
Sub-system	A major subdivision of a system that performs one or more specific functions in the overall functioning of that system.	AOP-38 Edit 5 Oct 09
Surface-launched munition	Any munition containing explosives which is launched from the ground or sea surface.	AOP-38 Edit 5 Oct 09
Sympathic detonation	Detonation of a charge by exploding another charge adjacent to it.	AOP-38 Edit 5 Oct 09
Sympathic reaction	Explosive reaction of a munition by exploding another munition adjacent to it.	AOP-38 Edit 5 Oct 09
System	A combination of complete operating equipment, assemblies, components, parts or accessories, including software and man/machine interface, integrated to perform a specific operational function.	AOP-38 Edit 5 Oct 09
System Safety	The capability of a system to avoid causing personal injury or damage to property or external environment.	AOP-38 Edit 5 Oct 09
Tactical transportation	Transport of items in field conditions from depot storage to bases, naval supply vessels, deployment areas etc. The concept included short transport of items within and between these sites	AOP-38 Edit 5 Oct 09

³⁵ AOP38: Glossary of Terms and Definitions on Ammunition Safety

³⁶ Project Orientated Safety Management Systems. See Acquisition System Guidance (ASG).

The definitions used in JSP520 Parts 1 and 2 are presented below		
Term	Definition	Source
Third party	A person or persons who are not classed as Ministry of Defence personnel e.g. Contractors, General Public, etc.	JSP520
Threat	Any phenomenon having the potential to induce an unplanned stimulus in an ammunition.	AOP-38 Edit 5 Oct 09
Tolerable	A risk is Tolerable when it is at a level that can be accepted.	JSP520
Tolerability Criteria	Quantitative or qualitative measures for determining whether a risk is unacceptable, tolerable or broadly acceptable.	JSP520
Unacceptable	A level of risk that is tolerated only under exceptional circumstances.	JSP520
Unarmed	A system is unarmed when all safety devices are in a safe position	AOP-38 ³⁷ Edit 5 Oct 09
Unsafe conditions	A system state that may result in a mishap	AOP-38 Edit 5 Oct 09
Validated Safety Argument	A safety argument, with supporting evidence, that has been subjected to sufficient scrutiny to provide assurance of the robustness of the argument and evidence.	JSP520
Validation	The process of evaluating a system, or element of a system, to determine whether it imposes requirements that are appropriate (and meet stakeholders' needs).	JSP520
Vehicle	A self propelled, boosted, or towed conveyance for transporting a burden on land, sea or through the air or space.	AOP-38 Edit 5 Oct 09
Verification	The process of evaluating a system, or element of a system, at the end of an activity to determine whether it satisfies conditions imposed at the start of that activity.	JSP520.
Vibration	A state of oscillatory motion induced in a body or mechanical system by an input of mechanical energy. Note: This input may in itself be oscillatory, or in the form of a shock pulse or a succession of shock pulses.	AOP-38 Edit 5 Oct 09
Visiting force	The force responsible for the transport of ammunition and explosive in a host country.	AOP-38 Edit 5 Oct 09
Waiver	Acceptance by the appropriate qualification authority, of the munition, which does not meet all requirements for safety.	AOP-38 Edit 5 Oct 09
Warhead	The portion of a projectile, rocket missile or torpedo which contains the payload to be delivered. Note: Generally the payload is explosive, but it may contain telemetric or other components.	AOP-38 Edit 5 Oct 09

³⁷ AOP38: Glossary of Terms and Definitions on Ammunition Safety

The definitions used in JSP520 Parts 1 and 2 are presented below		
Term	Definition	Source
Weapon	Any device or instrument used in conflict	AOP-38 Edit 5 Oct 09
Weapon Danger Area	<p>The space in the proximity of a weapon and along the line of fire where an individual or assets may be at risk, given normal firing conditions.</p> <p>Note: The hazards may be attributed to blast, noise, toxic gases, heat, recoil, propellant efflux, the projectile, the warhead or a combination of these and other effects.</p>	AOP-38 Edit 5 Oct 09
Weapon System	<p>A weapon and those components required for its operation.</p> <p>Note: The weapon system comprises the aggregate of the weapon, the associated launching vehicle or platform launching the munition, the available munitions and the ancillary equipment necessary to test, aim, launch and guide the munition as appropriate.</p>	AOP-38 ³⁸ Edit 5 Oct 09

³⁸ AOP38: Glossary of Terms and Definitions on Ammunition Safety

Annex D: Acronyms and Abbreviations

Acronyms and Abbreviations used in JSP520 Parts 1 and 2	
Acronyms	Definitions
AAP	Allied Administrative Publication
ACH	Air Carriage Hours
COP	Code Of Practice
ADR	Accord Dangerous Routiers (The European Agreement concerning the International Carriage of Dangerous Goods by Road) the International Carriage of Dangerous Goods by Road)
AECTP	Allied Environmental Conditions and Test Publications
AESP	Army Equipment Support Publication
ALARP	As Low As Reasonably Practicable
ALGWR	Air Launched Guided Weapons Release
ALW	Air Launched Weapon
ALWRC	Air Launched Weapon Release Certificate
AOP	Allied Ordnance Publication
AoR	Area of Responsibility
AOSP	Army Operational Shooting Policy
ASD	Aircraft Self Damage
ASDAWC	Aircraft Self Damage from Aircraft Weapons Committee
ASEMS	Acquisition Safety and Environmental Management System
ASG	Acquisition System Guidance
ASIC	Application Specific Integrated Circuits
AT	Air Transport
AUR	All-Up Round
AWAC	Aircraft Weapon Advisory Committees
AWBC	Aircraft Weapons Ballistic Committee
BSO	Broad Side On
BTCA	Breakdown, Test and Criticality Analysis
CA	Competent Authority
CBI	Confederation of British Industry
CCS	Chief of Corporate Services
CDM	Chief of Defence Materiel
CDRL	Contract Data Requirements List
CE / DIO	Chief Executive of Defence Infrastructure Organisation
CED	Complex Electronic Devices
CEE	Complex Electronic Elements
CESO	Chief Environment and Safety Office
CHS	Cartridge Headspace
CIE(MOD)	Chief Inspector of Explosives (Ministry of Defence)
CJO	Chief of Joint Operations
CM	Capability Manager
CofD	Certificate of Design
CoM	Chief of Materiel
COMAH	Control of Major Accident Hazards
COO	Chief Operating Officer
COTS	Commercial Off The Shelf
CS	Capability Sponsor

Acronyms and Abbreviations used in JSP520 Parts 1 and 2	
Acronyms	Definitions
CSA	Customer Supplier Agreement
CSE	Certificate of Safety - Explosives
D JSC	Director Joint Supply Chain
D S&E	Director Safety & Engineering
D S&EP	Director Safety & Environmental Protection
D S&T	Director Safety & Technology
D Wpns	Director Weapons
DA	Design Authority
DCDS(EC)	Deputy Chief of Defence Staff (Equipment Capabilities)
DIO	Defence Infrastructure Organisation
DE&S	Defence Equipment and Support
Def Stan	Defence Standard
DESC	Defence Environment and Safety Committee
DETR	Department of the Environment, Transport and the Regions
DExpSC	Defence Explosives Safety Committee
DFL	Departmental Functional Lead
DfT	Department for Transport
DG	Dangerous Goods
DGAC	Dangerous Goods by Air Carriage
DGM PT	Defence General Munitions Project Team
DIN	Defence Instructions and Notice
Dir(PA)	Director Precision Attack
DJtCap	Director Joint Capabilities
DLRSC	Defence Land Ranges Safety Committee
DLSC	Defence LASER Safety Committee
DM	Defence Munitions
DMACSC	Defence Major Accident Control Safety Committee
DMTMC	Defence Movements and Transport Management Committee
DNRSC	Defence Nuclear Regulator Stakeholder Committee
DOSG	Defence Ordnance Safety Group
DOMEASC	Defence OME Acquisition Safety Committee
DOSG-ST	DOSG Science and Technology
DOSG-WS	DOSG Weapons Systems
DOSR	Defence Ordnance Munitions and Explosives Safety Regulator
DP	Drill Purpose
DRSC	Defence Ranges Safety Committee
DSA	Defence Safety Authority
DSEC	Defence Safety and Environment Committee
DSTL	Defence Science and Technology Laboratory
E3	Environmental Electromagnetic Effects
EA	Environmental Agency
EBA	External Business Agreement
EHDS	Explosives Hazard Data Sheet
eHIATs	Electronic Manual of Hazard Impact Area Traces
EIG	Explosives Industry Group
EM	Energetic Materials
EMC	Electro Magnetic Compatibility

Acronyms and Abbreviations used in JSP520 Parts 1 and 2	
Acronyms	Definitions
EMP	Environmental Management Procedure
EMTAP	Energetic Materials Testing Assessment Policy Manual of Tests
ENOHD	Extended Nominal Ocular Hazard Distance
EOC	Explosive Ordnance Clearance
EOD	Explosive Ordnance Disposal
EPA	Environmental Protection Act
EPVAT	Electronic Pressure Velocity Action Time
ERD	Environmental Requirements Document
ERW	Explosive Remnants of War
ESA	Explosives Substances and Articles
ESTC	Explosives Storage and Transport Classification
ETA	Event Tree Analysis
EU	European Union
FGSRSC	Fuels and Gases Safety Regulator Stakeholder Committee
FPGA	Field Programmable Gate Arrays
FPP	Firing Pin Protrusion
FTA	Fault Tree Analysis
GARP	Generic Aircraft Release Procedure
GOCO	Government Owned Contractor Operated
HE	High Explosives
HIATs	Hazard Impact Area Traces
HOC	Head Of Capability
HOE	Head Of Establishment
HSC	Health and Safety Commission
HSE	Health and Safety Executive
HSWA	Health and Safety at Work Act 1974
IBA	Internal Business Agreement
IE	Inspectors of Explosives
IM	Insensitive Munitions
IMAP	Insensitive Munitions Assessment Panel
IMEMG	Insensitive Munitions European Manufacturers' Group
IMIP	Insensitive Munitions Implementation Plan
IMIS	Insensitive Munitions Implementation Strategy
IMO	International Maritime Organisation
IPR	Intellectual Property Rights
ISA	Independent Safety Auditor
ISD	In Service Date
ISS	In Service Surveillance
ITEAP	Integrated Trials, Evaluation and Assessment Programme
JBA	Joint Business Agreement
JDCC	Joint Doctrine and Concepts Centre
JIMSG	Joint Insensitive Munitions Strategy Group
JSIO	Joint Service Intelligence Organisation
JSMCR	Joint Services Munitions Control Register
JSP	Joint Services Publication
JTRC	Joint Technical Requirements Committee
KUR	Key User Requirements

Acronyms and Abbreviations used in JSP520 Parts 1 and 2	
Acronyms	Definitions
LBOSS	Letter Based OME Safety Submission
LCEP	Life Cycle Environmental Profile
LSSESC	Land Systems Safety and Environment Stakeholder Committee
LFTTA	Live Firing Tactical Training Areas
LHZ	Laser Hazard Zone
LSP	Laser Safety Paper
MAA	Military Aviation Authority
MACR	Major Accident Control Regulations
MAR	MOD Airworthiness Regulator
MID	Munitions Incidents Database
MIL-STD	Military Standard
MLA	Munitions Life Assessment
MLRSCC	Military Laser Range Safety Clearance Certificate
MLSSAC	Military Laser System Safety Assessment Certificate
MLTSCC	Military Laser Trial Safety Clearance Certificate
MOD	Ministry Of Defence
MOD COP	MOD Codes of Practice
MOTS	Military Off The Shelf
MRP	Military Airworthiness Authority Regulatory Procedure
MSER	Manufacture and Storage of Explosives Regulations
MSSEC	Maritime Stakeholders Safety and Environment Committee
MTDS	Manufacture to Target or Disposal Sequence
MTSRSC	Movement and Transport Safety Regulator Stakeholder Committee
NA EXP	Naval Authority Explosives
NATO	North Atlantic Treaty Organisation
NDT	Non-Destructive Testing
NEAS	Naval Environment Assessment Statement
NOHD	Nominal Ocular Hazard Distance
NOS	National Occupational Standards
NSPLW	Non Service Pattern Light Weapons
OEC	Operational Emergency Clearances
OHSB	Occupational Health & Safety Board
OME	Ordnance, Munitions and Explosives
OSD	Out of Service Date
OSRP	OME Safety Review Panel
OSRPMB	OME Safety Review Panel Management Board
OSRP Assurance Statement	OSRP Assurance Statement
OT	Operational Theatre
Pam	Pamphlet
PATO	Principal Ammunition Technical Officer
PBX	Polymer-Bonded Explosives
PHA	Preliminary Hazard Analysis
PJHQ	Permanent Joint Headquarters
PJOB	Permanent Joint Operating Base
POEMS	Project Oriented Environmental Management System

Acronyms and Abbreviations used in JSP520 Parts 1 and 2	
Acronyms	Definitions
POSMS	Project Oriented Safety Management System
PPE	Personal Protection Equipment
Proc	Procedure
PT	Project Team
PTL	Project Team Leader
PUS	Permanent Under Secretary
RAF	Royal Air Force
RAO	Research Acquisition Organisation
RCS	Risk Control System
RFA	Royal Fleet Auxiliary
RID	Reglement International Dangere uses (Regulations concerning the International Carriage of Dangerous Goods by Rail) the International Carriage of Dangerous Goods by Road)
RIDDOR	Report of Injuries Diseases and Dangerous Occurrences Regulations
RtL	Risk to Life
RMAS	Royal Maritime Auxiliary Service
RMCS	Royal Military College of Science
RN	Royal Navy
RSP	Render Safe Procedures
RTS	Release To Service
RTSA	Release To Service Authority
S3	Safe and Suitable for Service
SA	Small Arms
SAA	Small Arms Ammunition
SAFU	Safety Arming and Fuzing Unit
SCJ	Shaped Charge Jet
SD	Self Damage
SECR	Safety and Environmental Case Report
SEMC	Safety and Environment Management Committee
SEMP	Safety and Environment Management Plan
SEMS	Safety and Environmental Management System
SEP	Safety and Environment Panel
SFAIRP	So Far As Is Reasonably Practicable
SG	Support Group
SHA	System Hazards Analysis
SHE	Safety, Health and Environment
SLA	Service Level Agreement
SME	Subject Matter Expert
SMP	Safety Management Procedure
SofS	Secretary of State
SOLAS	Safety of Life at Sea
SOTR	Statement of Trained Requirements
SQEP	Suitably Qualified and Experienced Person
SRD	Systems Requirement Document
STANAG	NATO Standardization Agreement
STSP	Soldier, Training and Special Programmes
TA (Ex)	Technical Adviser (Explosives)

Acronyms and Abbreviations used in JSP520 Parts 1 and 2	
Acronyms	Definitions
TEA / Z	Total Energy Area / Zone
TEACASE	Thermal Effects on Airborne Conventional Armament Stores and Equipment
TFA	Trading Fund Agency
THA	Threat Hazard Assessment
TLB	Top Level Budget Holder
TLMP	Through Life Management Plan
TOR	Terms Of Reference
UN	United Nations
UOR	Urgent Operational Requirement
URD	User Requirements Document
USofS	Parliamentary Under Secretary of State
WDA / Z	Weapon Danger Area / Zone
WHT	Weapon Handling Tests
WOC	Weapons Operating Centre

Annex E: References

References used in JSP520 Parts 1 and 2 Publication	Part 1	Part 2													
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AECTP 200 Environmental Conditions, Category 240, Mechanical Conditions.	-	-	-	-	-	-	-	-	-	Y	-	-	-	-	-
AECTP 200 Environmental Conditions, Category 230, Climatic Conditions.	-	-	-	-	-	-	-	-	-	Y	-	-	-	-	-
AECTP 600 The Ten Step Method for Evaluating the Ability of Materiel to Meet Extended Life Requirements.	-	-	-	-	-	-	-	-	-	Y	-	-	-	-	-
AESP 1000-A-003-013 Policy and Procedures for Armourers Light weapons / Workshops.	-	-	-	-	-	-	-	-	-	Y	-	-	-	-	-
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ASG POEMS: EMP01 to EMP03.	-	-	-	Y	-	-	-	-	-	-	-	-	-	-	-
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ASG POSMS:-SMP01 and SMP02.	-	-	-	Y	-	-	-	Y	-	-	-	-	-	-	-
ASG POSMS: SMP03.	-	-	-	Y	-	-	-	-	-	-	-	-	-	-	-
ASG POSMS: SMP07.	-	-	-	-	-	-	-	-	Y	-	-	-	-	-	-
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ASG Through Life management Plan (TLMP) - Disposal Phase.	-	-	-	-	-	-	-	-	-	Y	-	-	-	-	-
AOP7 Manual of Data Requirements and Tests for the Qualification of Explosives Materials for Military Use.	-	-	-	-	-	-	-	-	-	Y	Y	-	-	-	-
AOP15 Guidance On The Assessment Of The Safety And Suitability For Service Of Non-Nuclear Munitions For NATO Armed Forces.	Y	Y	-	-	-	-	-	-	-	Y	Y	-	-	-	-
AOP34 Vibration Tests Method and Severities for Munitions Carried in Tracked Vehicles.	-	-	-	-	-	-	-	-	-	Y	-	-	-	-	-
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AOP39 Guidance on the Development, Assesment and Testing of Insensitive Munitions (IM).	-	-	-	-	-	-	-	-	-	-	-	Y	-	-	-
AOP48 Explosives, Nitrocellulose Based Propellants, Stability Test Procedures and Requirements Using Stabilizer Depletion.	-	-	-	-	-	-	-	-	-	Y	-	-	-	-	-
AOP52 Guidance on Software Safety Design and Assessment of Munition-Related Computing Systems.	-	-	-	-	-	-	-	-	Y	-	Y	-	-	-	-
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Vol 7: Legislation Compliance	Y	-	-	-	-	-	-	-	-	Y	-	-	-	-	-
Vol 8: Risk Management	Y	-	-	-	-	-	-	-	-	Y	-	-	-	-	-
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Vol 10: Clearances and Certificates	Y	-	-	-	-	-	-	-	-	Y	-	-	-	Y	-
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