

Armament Systems Compatibility Certification Plan

Statement of Work & Data Item Description

Introduction.

The following clauses are to be inserted in the Project Statement of Work for implementing the attached Aircraft Systems Compatibility Certification Plan Data Item Description. *Note: The Paragraph Numbering should be changed to suit the relevant portion of the Project*

The Armament Systems Compatibility Certification Plan is proposed by the Contractor / Supplier and then developed and agreed at contract signature. The ASCP is then managed throughout the life cycle by the procuring activity as the Memorandum of Agreement between all agencies involved in certifying the armament systems capability identified.

1 ARMAMENT SYSTEMS COMPATIBILITY CERTIFICATION PLAN

1.1.1 The Contractor shall conduct an Armament Systems Compatibility Certification Plan for the *Vehicle/Aircraft* and Instrumented Vehicle/Aircraft to certify the Stores required by the Contract for use on the *Vehicle/Aircraft* and Instrumented Vehicle/Aircraft.

1.1.2 The Armament Systems Compatibility Certification Plan specified at paragraph 1.1.1 shall be conducted in accordance with the JAIME CODEx, STANAG 7068, and MIL-HDBK-1763.

1.2 Armament Systems Compatibility Certification Plan

1.2.1 The Contractor shall plan the Armament Systems Compatibility Certification Plan specified at paragraph 1.1.1.

1.2.2 The Contractor shall document the plan for the Armament Systems Compatibility Certification Plan specified at paragraph 1.1.1 in an Armament Systems Compatibility Certification Plan complying with the requirements specified in DID-###-XXX.

1.2.3 The Contractor shall deliver the Armament Systems Compatibility Certification Plan in accordance with the delivery requirements specified in TDRYCDRL-###-XXX.

1.2.4 The Contractor shall review the Armament Systems Compatibility Certification Plan at intervals not exceeding three months, commencing from the date of approval of the Armament Systems Compatibility Certification Plan by the Commonwealth, for the purpose of identifying Deficiencies in the Armament Systems Compatibility Certification Plan.

1.2.5 The Contractor shall rectify Deficiencies in the Armament Systems Compatibility Certification Plan within thirty (30) days of:

1.2.5.1 identifying the Deficiencies, or

1.2.5.2 being notified by the Project Authority of the Deficiencies.

1.2.6 The Contractor shall rectify Deficiencies in the Armament Systems Compatibility Certification Plan by issuing Updates or Amendments to the Armament Systems Compatibility Certification Plan complying with the requirements specified in DID-###-XXX.

1.2.7 The Contractor shall deliver Updates or Amendments to the Armament Systems Compatibility Certification Plan in accordance with the delivery requirements specified in CDRL-###-XXX.

1.2.8 The Armament Systems Compatibility Certification Plan shall be consistent with the contents of *the Master Test Plan* specified at paragraph XX.

1.2.9 The Contractor shall conduct the Armament Systems Compatibility Certification Program specified at paragraph 1.1.1 in accordance with the approved Armament Systems Compatibility Certification Plan and approved Updates and Amendments to the Armament Systems Compatibility Certification Plan.

DATA ITEM DESCRIPTION

1 TITLE

- 1.1.1 ARMAMENT SYSTEMS COMPATIBILITY CERTIFICATION PLAN – JOINT PROJECT 5XYZ

2 IDENTIFICATION NUMBER

- 1.1.2 DID - ### - XXX

3 DESCRIPTION/PURPOSE OF THE ARMAMENT SYSTEMS COMPATIBILITY CERTIFICATION PLAN

- 3.1.1 The Armament Systems Compatibility Certification Plan documents the strategy to be applied by the Contractor to certify the Stores required by this Contract for use on the specified Vehicle/Aircraft and Instrumented Vehicle/Aircraft.
- 3.1.2 The Armament Systems Compatibility Certification Plan also identifies the organisations, personnel and resources required to support the Armament Systems Compatibility Certification Program and the schedule for the conduct of this program. The Armament Systems Compatibility Certification Plan establishes a Memorandum of Agreement (MOA) between all organisations involved in providing and maintaining the designated armament systems capability.

4 APPLICATION/INTERRELATIONSHIP OF THIS DID

- 4.1.1 This Data Item Description (DID) is intended to be invoked by a Tender Contract Data Requirements List (TDRL) of the Request for Tender and Contract DRL (CDRL) of the Contract.

5 PREPARATION GUIDELINES

5.1.1 General Instructions

- a. **Title Page.** The Armament Systems Compatibility Certification Plan shall include a title page containing, as applicable: document number; volume number; version number; security markings or other restrictions on the handling of the document; date of issue; document title; Contract number; CDRL item number; organisation for which the document has been prepared; and the name and address of the preparing organisation.
- b. **Table of Contents.** The Armament Systems Compatibility Certification Plan shall contain a Table of Contents providing the number, title and page number of each Section and titled paragraph. The Table of Contents shall also provide the number/letter, title and page number of each attached annex and enclosure.
- c. **Table of Figures.** The Armament Systems Compatibility Certification Plan shall contain a Table of Figures providing the number, title and page number of each figure in the document.
- d. **Section Details.** Each Section of the Armament Systems Compatibility Certification Plan shall start on a new page.

- e. **Page Numbering/Labelling.** Each page of the Armament Systems Compatibility Certification Plan shall contain in either the header or footer: a unique page number (as a minimum this page number needs only to be unique within each Section), the document number, the version number, the volume number (if applicable), and the Section number.
- f. **Response to Tailoring Instructions.** Paragraphs that have been tailored out of this DID should still be inserted into the Armament Systems Compatibility Certification Plan but should be followed by the annotation “Not Applicable” and a rationale provided for the annotation.
- g. **Multiple Paragraphs and Subparagraphs.** Any paragraph or subparagraph in this DID may be written as multiple paragraphs or subparagraphs to enhance readability.

5.2 Guidelines in the Preparation of an Armament Systems Compatibility Certification Plan

- 5.2.1 The Armament Systems Compatibility Certification Plan shall be addressed to the Contractor’s team and shall be written as a plan that is intended to be used.
- 5.2.2 The layout of the Armament Systems Compatibility Certification Plan shall comply with Section 5.3 of this DID.

5.3 Content Requirements

- 5.3.1 Content requirements begin on the following page. The numbers shown designate the paragraph numbers suggested for use in the document. Each such number is understood to have a prefix “5.3” within this DID. For example, the paragraph numbered 1.1 is understood to be paragraph 5.3.1.1 within this DID.

6 SCOPE

- 6.1.1 This Section shall be divided into the following paragraphs.

6.2 Deliverable Identification

- 6.2.1 This paragraph shall contain a full identification of the deliverable(s) to which the Armament Systems Compatibility Certification Plan applies.

6.3 Document Overview and Use

- 6.3.1 This paragraph shall summarise the purpose and contents of the Armament Systems Compatibility Certification Plan and shall describe any security or privacy considerations associated with its use.

7 REFERENCED DOCUMENTS

- 7.1.1 This Section shall list the number, title, revision and date of each document referenced in the Armament Systems Compatibility Certification Plan.
- 7.1.2 This Section shall also identify the source of each document not available through normal government channels.

8 DEFINITIONS, ACRONYMS AND ABBREVIATIONS

- 8.1.1 This section shall be divided into the following paragraphs.
- 8.1.1.1 **Definitions.** This paragraph shall list alphabetically and define each word or term used in the Armament Systems Compatibility Certification Plan for which reliance on dictionary definitions is not appropriate. As a guide, terms which are not included in the JAIME CODEx, STANAG 7068, and MIL-HDBK-1763 or are not likely to be in the vocabulary of the intended users of the Armament Systems Certification Plan, terms which have multiple dictionary meanings but only a single meaning in the Armament Systems Compatibility Certification Plan, technical terms and terms which are used with special meanings should be defined in this paragraph. The meanings of technical terms should, where applicable, be referenced to an authoritative standard or to an appropriate technical dictionary.
- 8.1.1.2 **Acronyms.** This paragraph shall list alphabetically each acronym used in the Armament Systems Compatibility Certification Plan, together with the acronym's expanded meaning.
- 8.1.1.3 **Abbreviations.** This paragraph shall list alphabetically each abbreviation used in the Armament Systems Compatibility Certification Plan, together with the abbreviation's expanded meaning, except that abbreviations within the International System (SI) system of units should not be listed.

9 ARMAMENT SYSTEMS COMPATIBILITY CERTIFICATION PROGRAM

- 9.1.1 This Section shall be divided into the following paragraphs.
- 9.1.1.1 **Description of Armament Systems.** This paragraph shall provide the following details for each Store required by the Contract for use on the Vehicle/Aircraft and Instrumented Vehicle/Aircraft:
- (1) the name of the Armament System / Store and its model designation;
 - (2) the following configuration data for the Store:
 - (a) fuze types,
 - (b) accessories,
 - (c) Mechanical Arming Control Systems,
 - (d) Aircraft data WIP Codes (or equivalent), and
 - (d) other pertinent configuration data.

- (3) the Stores Suspension Equipment (SSE) to be used to carry the Store on the Aircraft and the Instrumented Aircraft; and
- (4) the variants(s) of the Contractor's Aircraft Type the Store is currently certified for use on and the SSE used to carry the Store including details of the Armament Systems Management System and Operational Flight Programs.

9.1.1.2 **Description of Ground Support Equipment and Test Equipment.** This paragraph shall provide the following details for each Store required by the Contract for use on the Vehicle/Aircraft and Instrumented Vehicle/Aircraft:

- (1) All Ground Support Equipment required to perform all necessary operations shall be identified including details of Armament Systems the GSE is current certified for use with.
- (2) All Test Equipment required to verify safety and functionality for all ground and flight operations shall be identified including details of aircraft and stores systems the Test Equipment is current certified for use with.

9.2 Proposed Armament Systems Compatibility Configurations

- 9.2.1 This paragraph shall provide details of the proposed Armament Systems and Instrumented Armament Systems configurations, mixed loads, authorised downloads and shall specify the carriage, employment and jettison limitations, and accuracy for each of these configurations.
- 9.2.2 This paragraph shall also identify which (if any) of the aforementioned Stores configurations are currently cleared for use on other variants of the Contractor's Vehicle / Aircraft Type and the carriage, employment and jettison limitations, and accuracy for each of these configurations.

9.3 Strategy for Certifying Required Armament Systems / Stores

- 9.3.1 This paragraph shall document the strategy to be applied by the Contractor to certify each of the Stores for use on the Vehicle / Aircraft and/or Instrumented Vehicle / Aircraft as specified in *the Sponsors Capability Statement / Operational Requirement Document* to meet the requirements of JAIME CODEx / STANAG 7068. The strategy for each Store shall include the following:
- a. the Standard the Store will be certified to;
 - b. the following details if the required certification will be based on an existing Armament Systems Compatibility (Flight) Clearance/Certification:
 - (1) details of the existing Armament Systems Compatibility (Flight) Clearance or Certification being used,
 - (2) the rationale for using the existing certification, and
 - (3) details of the tests carried out for the existing clearance and/or certification that are applicable to the current certification requirement;
 - c. a list of the tests and analysis, or the additional test and analysis if subparagraph b. is applicable, to be carried out to certify the Store for use on the Aircraft and Instrumented Aircraft; and

- d. the Reference No of the test plan covering certification of the Store.

Note JAIME CODEx and MIL-HDBK-1763 should be used as the basis for identifying the activities completed for all required, or analogous, tests.

- 9.3.2 The Contractor shall provide, as an Annex to the Armament Systems Certification Plan, the following details for each of the existing Armament Systems Compatibility (Flight) Clearance being used to support the current certification requirements:
- a. the variant designation of both the Vehicle/Aircraft Type and the Store the Armament Systems Compatibility Clearance is applicable to,
 - b. the SSE used to carry the Store,
 - c. the standards against which the clearance was carried out,
 - d. details of the tests and analysis carried out for the clearance,
 - e. copies of the test reports and other reports available to support the clearance if they are not included in the Compatibility Engineering Data Package of *DID-###-YYYY*, and
 - f. details of the Armament Systems configurations for which the Store is certified for use and the carriage, employment and jettison limitations including accuracy for each of these configurations.

9.4 Test Organisation

- 9.4.1 This paragraph shall identify and detail the responsibilities of the organisations and key individuals necessary to carry out the testing for Armament Systems Compatibility Certification Program. This paragraph shall include an organisational chart showing how these organisations and individuals relate to each other, the organisational chart detailed in the *Master Test Plan* and the Contractor's project and functional organisation.

9.5 Program Resources

- 9.5.1 This paragraph shall identify and describe the key resources necessary to support the conduct of the Armament Systems Compatibility Certification Program, including as applicable, but not limited to: test equipment, instrumentation, facilities, support aircraft, targets, threat simulators, data processing requirements and logistics support (personnel, GSE, etc). This paragraph shall also identify the organisations responsible for providing these resources.
- 9.5.2 The schedule as to when each of the aforementioned resources are required is to be included in the Armament Systems Compatibility Certification Master Schedule detailed in Section 5.3.4.6 of this DID.

9.6 Armament Systems Certification Master Schedule

- 9.6.1 This paragraph shall contain an Armament Systems Certification Master Schedule showing:
- a. the key activities to be completed during the Armament Systems Certification Program,
 - b. the scheduling, sequencing and interrelationship of these activities; and

- c. key milestones.

*Note The Armament Systems Compatibility Certification Master Schedule shall be fully integrated with the Test and Evaluation Master Schedule detailed in the **Master Test Plan and System Safety Program** so that the impacts on the Armament Systems Compatibility Certification Master Schedule are identified.*

JAIME CODEX, STANAG 7068 and MIL-HDBK-1763 shall be used as the basis for identifying the key activities for all required, or analogous, tests.

- 9.6.2 The schedule shall also include details of *all* the resources necessary to support the conduct of the Armament Systems Certification Program and when these resources are required.

9.7 Test Documentation

- 9.7.1 This paragraph shall provide a description of the documents to be created as part of the Armament Systems Compatibility Certification Program and the procedures to be followed in drafting and controlling each of these documents. This paragraph shall also provide a table listing the Test Plans, Test Procedures and Test Reports covering the certification of the required Stores ET&E including R&E, DT&E, QT&E, AT&E and OT&E as defined in JAIME CODEx and NATO AAP 6.

9.8 System Safety Assessments

- 9.8.1 This paragraph shall identify and detail the responsibilities of the organisations and key individuals necessary to carry out the System Safety Assessments and studies for the Armament Systems Compatibility Certification Program. This paragraph shall include an organisational chart showing how these organisations and individuals relate to each other, the organisational chart detailed in the **Systems Safety Program Plan** and the Contractor's project and functional organisation.
- 9.8.2 This paragraph shall provide a description of the documents to be created as part of the Armament Systems Compatibility Certification Program and the procedures to be followed in drafting and controlling each of these documents. This paragraph shall also provide a table listing the Hazard and System Safety Reports covering the certification of the required Stores.

Note JAIME CODEx, STANAG 7068 and MIL-STD-882C shall be used as the basis for identifying the key activities for all required, or analogous, Hazard Assessments and System Safety Studies.

9.9 Publications

- 9.9.1 This paragraph shall identify and detail the responsibilities of the organisations and key individuals necessary to carry out the development, validation & verification of the technical content, and promulgation of all ground and air Publications, as identified in JAIME CODEx, for the **Publications Program** required for Armament Systems Certification. This paragraph shall include an organisational chart showing how these organisations and individuals relate to each other, the organisational chart detailed in the **Publications Plan** and the Contractor's project and functional organisation for achieving this.
- 9.9.2 This paragraph shall provide a description of the documents to be created as part of the Armament Systems Compatibility Certification Program and the procedures to be followed in drafting and controlling each of these documents.

Note JAIME CODEx, STANAG 7068 and AAP 5030.002 shall be used as the basis for identifying the key activities for all required Publications. The publications that the Five Eyes shall ensure are operational suitable and effective are:

- 1 Operators/Flight Manual*
- 2 System Preparation / Maintenance Manual*
- 3 Systems Loading Manual*
- 4 Tactics Manual*
- 5 Mission Planning Tools*

Blank Page