SYSTEM REQUIREMENTS DOCUMENT

SYSTEM NAME and NOMENCLATURE (IF AVAILABLE)

Day Month Year (Ex: 01 January 2010) Status (Draft or Final)

Prepared for:

Office or Customer Military Base, State

Prepared by:

Company or Individual Name
Street Address
Mail Stop
City, State (2 ltr abbreviation) Zip Code

Under: (Where applicable)
Contract XXX (Where applicable)
CDRL Item XXX (Where applicable)

Authenticated by:	//SIGNED//	Approved by:	//SIGNED//
·	First Name MI. Last Name	•	First Name MI. Last Name
	Chief or Lead Engineer		Program Manager
	Day Month Year		Day Month Year
	(Ex: 01 January 2010)		(Ex: 01 January 2010)

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CHANGE HISTORY

Change	Version	Date
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Guidance: The Systems Requirements Document (SRD) translates warfighter Capability Based Requirements into performance based acquisition requirements for a system or subsystem in any program milestone or phase. This template provides guidance for preparation of the SRD using established Systems Engineering processes.

Determine whether FOUO is applicable per DoDM 5200.01, Volume 4, "DoD Information Security Program: Controlled Unclassified Information (CUI)," February 24, 2012.

Guidance Source: http://www.dtic.mil/whs/directives/corres/pdf/520001_vol4.pdf.

Instructions: PEO-specific instruction will be added here.

References:

Input Document References; MIL-HDBK-520, Systems Requirements Document Guidance, 5 March 2010.

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1. SCOPE

Click here to enter text.

Guidance: This paragraph contains a full identification of the system or subsystem and associated software to which this document applies, including as applicable, identification number(s), title(s), abbreviation(s), and release number(s) where known.

1.1. System Identification

Click here to enter text.

Guidance: This paragraph contains a full identification of the system or subsystem and associated software to which this document applies, including as applicable, identification number(s), title(s), abbreviation(s), and release number(s) where known.

1.2. System Overview

Click here to enter text.

Guidance: This paragraph briefly states the purpose of the system or subsystem and associated software to which this document applies. It describes the general nature of the system or subsystem and software; summarizes history of system development, operation, and maintenance; identifies project sponsor, acquirer, warfighter, developer, and support agencies; identifies current and planned operating sites; and lists other relevant documents.

1.3. System Requirements Document Overview

Click here to enter text.

Guidance: This paragraph summarizes the purpose and contents of this document and describes any security or privacy considerations associated with its use.

2. APPLICABLE DOCUMENTS

Click here to enter text.

Guidance: This section lists the number, title, revision, and date of all documents referenced herein. This section also identifies the source for documents not available through normal Government stocking activities.

2.1. General

Click here to enter text.

Guidance: Provide an overview of documentation section. The following statement should be placed in all SRD documents and resulting specifications: "Documents listed in this section are specified in sections 3, 4, or 5 of this SRD. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document warfighter's are cautioned that they should meet all specified requirements of documents cited in sections 3, 4, or 5 of this specification, whether or not they are listed."

2.2. Government Documents

Click here to enter text.

Guidance: List applicable Government documentation.

2.2.1. Specifications, Standards, and Handbooks

Click here to enter text.

Guidance: List Government specifications, standards, and handbooks. The following statement should be placed in all SRD documents and resulting specifications: "The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract."

DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-961 – Department of Defense Standard Practice Defense and Program-Unique Specifications Format and Content

DEPARTMENT OF DEFENSE HANDBOOKS

MIL-HDBK-61 – Configuration Management Guidance

MIL-HDBK-881 – Work Breakdown Structures for Defense Materiel Items

(Copies of these documents are available online at https://assist.daps.dla.mil/quicksearch/ or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.2.2. Other Government Documents, Drawings, and Publications

Click here to enter text.

Guidance: List other Government documents, drawings, and publications. The following statement should be placed in all SRD documents and resulting specifications: "The following other Government documents, drawings, and publications form a part of this SRD to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract."

AIR FORCE INSTRUCTIONS

AFI10-601 – Capabilities Based Requirements Development

AFI10-604 – Capabilities Based Planning

AFI61-204 – Disseminating Scientific and Technical Information

AFI63-101 – Acquisition and Sustainment Life Cycle Management

AFI63-1201 – Life Cycle Systems Engineering

AFI99-103 – Capabilities Based Test and Evaluation

AFMCI 99-103 - Test Management

(Copies of these documents are available online at http://www.e-publishing.af.mil/.)

CHAIRMAN OF THE JOINT CHIEFS OF STAFF INSTRUCTION

CJCSI 3170.01 – Joint Capabilities Integration and Development System

JCIDS Manual – Manual for the Joint Capabilities Integration and Development System

(Copies of these documents are available online at http://www.dtic.mil/cjcs_directives/cjcs/instructions.htm.)

DATA ITEM DESCRIPTION (DID)

DI-IPSC-81431 – System/Subsystem Specification (SSS)

(Copies of this document are available online at https://assist.daps.dla.mil/quicksearch/ or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

DEPARTMENT OF DEFENSE DIRECTIVES AND INSTRUCTIONS

DoDD 5000.01 – The Defense Acquisition System

DoDI 5000.02 - Operation of the Defense Acquisition System

DoD 5200.1-PH - DoD Guide to Marking Classified Documents

DoD 5200.1R – Information Security Program

DoDD 5230.34 – Distribution Statements on Technical Documents

DoDD 5230.35 - Withholding of Unclassified Technical Data from Public Disclosure

DoDD 8320.02 – Data Sharing in a Net Centric Department of Defense

DoDD 8500.01 – Information Assurance (IA)

DoDI 8500.2 – Information Assurance (IA) Implementation

(Copies of these documents are available online at http://www.dtic.mil/whs/directives/.)

2.3. Non-Government Publications

Click here to enter text.

Guidance: List non-Government publications. The following statement should be placed in all SRD documents and resulting specifications: "The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract." (List where copies of these documents can be found.)

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)

IEEE STD 610.12 – Standard Glossary of Software Engineering Terminology

IEEE STD 1220-2005 – (ISO/IEC 26702), Application and Management of the Systems Engineering Process

IEEE STD 1471-2000 – Systems and Software Engineering - Recommended Practice for Architectural Description of Software Intensive Systems

(Application for copies should be addressed to the IEEE Service Center, P.O. Box 1331, 445 Hoes Lane, Piscataway, NJ 08855-1331, or online at http://www.ieee.org/portal/site.)

2.4. Order of Precedence

Click here to enter text.

Guidance: The following statement should be placed in all SRD documents and resulting specifications: "Unless otherwise noted herein or in the contract, in the event of a conflict between the text of this document and the references cited herein (except for related specification sheets), the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained." [The parenthetical phrase "(except for related specification sheets)" is omitted from the paragraph for specifications that do not have related specification sheets.]

3. REQUIREMENTS

Click here to enter text.

Guidance: This section identifies the basic system or subsystem requirements needed by the warfighter. This section is divided into the following paragraphs to specify system or subsystem requirements, e.g., those characteristics of the system or subsystem that are conditions for its acceptance. Each requirement should be assigned a project-unique identifier (to support testing and traceability), and should be stated in such a way that an objective verification can be defined for it. Project unique identifiers should use the Program Work Breakdown Structure (PWBS) pre contract award and the Contract Work Breakdown Structure (CWBS) post contract award. Each requirement should be annotated with associated qualification method(s) (see section 4) and, for subsystems, traceability to system requirements (see section 5.a), if not provided in those sections. The degree of detail to be provided is guided by the following rule: Include those characteristics of the system or subsystem that are conditions for system or subsystem acceptance; defer to design descriptions those characteristics an acquirer is willing to leave up to the developer. If there are no requirements in a given paragraph, the paragraph should so state. If a given requirement fits into more than one paragraph, it may be stated once and referenced from the other paragraphs.

Each SRD KPP and KSA should have an associated threshold and objective. Attributes should include thresholds and objectives as applicable.

The symbols used are:

- Threshold Minimum requirement level.
- O Objective Desired requirement level.

T=O Threshold and Objective are the same requirement level. No effort will be expended to exceed the Threshold requirement.

Key Performance Parameters (KPPs) and Key System Attributes (KSAs) are indentified in the body of section 3 and provided in a tabular format ranked in order of importance in Appendix B.

3.1. Required States and Modes

Click here to enter text.

Guidance: If a system or subsystem is required to operate in more than one state or mode having requirements distinct from other states or modes, this paragraph identifies and defines each state and mode. Examples of states and modes include idle, ready, active, training, degraded, emergency, backup, wartime, or peacetime. The distinction between states and modes is arbitrary. A system or subsystem may be described in terms of states only, modes only, states

within modes, modes within states, or any other scheme that is useful. If no states or modes are required, this paragraph should so state, without the need to create artificial distinctions. If states and/or modes are required, each requirement or group of requirements in this specification should be correlated to the states and modes. The correlation may be indicated by a table or other method in this paragraph, in an appendix referenced from this paragraph or by annotation of the requirements in the paragraphs where they appear.

3.2. System Capability Requirements

Click here to enter text.

Guidance: This paragraph is divided into subparagraphs to itemize requirements associated with each system or subsystem function. A "function" is defined as a group of related requirements (e.g., avionics subsystem requirements).

3.2.1. System Capability

Click here to enter text.

Guidance: This paragraph itemizes requirements associated with each system or subsystem function. If the function can be more clearly specified by dividing it into constituent functions, (e.g., avionics can be broken down into mission/operational definition, characteristics, design and construction, characteristics of subordinate elements, etc.,) the constituent functions should be specified in subparagraphs. Paragraphs 3.3.1 thru 3.3.2 provide a list of topics to be considered when specifying requirements regarding inputs the system accepts and outputs it produces.

3.3. System External Interface Requirements

Click here to enter text.

Guidance: This paragraph is divided into subparagraphs to specify requirements, if any, for the system's or subsystem's external interfaces. This paragraph may reference one or more Interface Requirements Specifications (IRSs) or other documents containing these requirements.

3.3.1. Interface Identification and Diagrams

Click here to enter text.

Guidance: This paragraph identifies required external system or subsystem interfaces. Identification of each interface includes a project unique identifier and designates interfacing entities (systems, configuration items, warfighters, etc.) by name, number, version, and documentation references, as applicable. The identification states which entities have fixed interface characteristics (and therefore impose interface requirements on interfacing entities) and which are being developed or modified (thus having interface requirements imposed on them).

3.3.1.1. Interface Diagram

Click here to enter text.

Guidance: Provide one or more interface diagrams to depict the interfaces.

3.3.2. Project Unique Interface Identifier

Click here to enter text.

Guidance: This paragraph (beginning with 3.3.2) identifies a system or subsystem external interface by project-unique identifier, identifies interfacing entities, and is divided into subparagraphs as needed to state requirements imposed on the system or subsystem to achieve the interface. Interface characteristics of other entities involved in the interface are stated as assumptions or as "When [the entity not covered] does this, the system shall," not as requirements on the other entities. This paragraph may reference other documents (e.g., data dictionaries, standards for communication protocols, and standards for warfighter interfaces) in place of stating the information here.

Requirements include the following, as applicable, presented in any order suited to the requirements, and note any differences in these characteristics from the point of view of the interfacing entities (e.g., different expectations about size, frequency, or other characteristics of data elements): Note: Detailed external interface elements may not be known during SRD development, in which case external interface requirements will be in broader, performance based terms. Also, external interfaces will be described in more detail in the architecture diagrams and Information Support Plan (ISP). In many instances, interface requirements are known in great detail as they are associated with current operational systems. Net Ready KPP requirements are also addressed herein.

- a) Provide priority the system assigns to the interface.
- b) Provide requirements on type of interface (e.g., real-time data transfer, storage and retrieval of data, etc.) to be implemented.
- c) Provide required commercial or Government external interface standards for data information transfer.
- d) Provide required external communication links.

3.4. System Internal Interface Requirements

Click here to enter text.

Guidance: This paragraph specifies requirements, if any, imposed on interfaces internal to the system or subsystem. If all internal interfaces are left to the design or to requirement specifications for system or subsystem components, this fact is so stated. If such requirements are to be imposed, paragraph 3.3 of this DID provide a list of topics to be considered.

3.5. System Internal Data Requirements

Click here to enter text.

Guidance: This paragraph specifies requirements, if any, imposed on data internal to the system or subsystem. Included are requirements, if any, on databases and data files to be included in the system. If all decisions about internal data are left to the design or to requirements specifications for system or subsystem components, this fact is so stated. If such requirements are to be imposed, paragraphs 3.3.x.c and 3.3.x.d of this DID provide a list of topics to be considered.

3.6. Adaptation Requirements

Click here to enter text.

Guidance: This paragraph specifies requirements, if any, concerning installation-dependent data that the system or subsystem is required to provide (e.g., site dependent latitude and longitude) and operational parameters that the system is required to use that may vary according to operational needs (e.g., parameters indicating operation-dependent targeting constants or data recording).

3.7. Safety Requirements

Click here to enter text.

Guidance: This paragraph specifies system or subsystem requirements, if any, concerned with preventing or minimizing unintended hazards to personnel, property, and the physical environment. Examples include restricting use of dangerous materials; classifying explosives for purposes of shipping, handling, and storing; abort/escape provisions from enclosures; gas detection and warning devices; grounding of electrical systems; decontamination; and explosion proofing. This paragraph includes system or subsystem requirements, if any, for nuclear components, including, as applicable, requirements for component design, prevention of inadvertent detonation, and compliance with nuclear safety rules.

3.8. Security and Privacy Requirements

Click here to enter text.

Guidance: This section specifies system or subsystem requirements, if any, concerned with maintaining security and privacy. The requirements include, as applicable, security/privacy environment in which the system or subsystem should operate, type and degree of security or privacy to be provided, security/privacy risks the system or subsystem should withstand, required safeguards to reduce those risks, security/privacy policy, security/privacy accountability the system or subsystem provides, and criteria for security/privacy certification/accreditation. Paragraphs should be included for IA requirements IAW DoDD 8500.01, Information Assurance (IA); and DoDI 8500.2, Information Assurance (IA) Implementation as required.

3.9. System Environment Requirements

Click here to enter text.

Guidance: This paragraph specifies requirements, if any, regarding the environment in which the system or subsystem operates. Examples for a software system or subsystem are computer hardware and operating system on which the software runs. (Additional requirements concerning computer resources are given in the next paragraph). Examples for a hardware-software system include environmental conditions that the system or subsystem withstands during transportation, storage, and operation, e.g., conditions in the natural environment (wind, rain, temperature, geographic location), induced environment (motion, shock, noise, electromagnetic radiation), and environments due to enemy action (explosions, radiation).

3.10. Computer Resource Requirements

Click here to enter text.

Guidance: This paragraph is divided into the following subparagraphs. Depending upon the nature of the system or subsystem, computer resources covered in these subparagraphs may

constitute the environment of the system or subsystem (as for a software system) or components of the system (as for a hardware-software system).

3.10.1. Computer Hardware Requirements

Click here to enter text.

Guidance: This paragraph specifies requirements, if any, regarding computer hardware that is used by, or incorporated into, the system or subsystem. Requirements include, as applicable, number of each type of equipment, type, size, capacity, and other required characteristics of processors, memory, input/output devices, auxiliary storage, communications/network equipment, and other required equipment.

3.10.2. Computer Hardware Resource Utilization Requirements

Click here to enter text.

Guidance: This paragraph specifies the requirements, if any, on the system's or subsystem's computer hardware resource utilization, e.g., maximum allowable use of processor capacity, memory capacity, input/output device capacity, auxiliary storage device capacity, and communications/network equipment capacity. Requirements (stated, for example, as percentages of the capacity of each computer hardware resource) include conditions, if any, under which the resource utilization is to be measured.

3.10.3. Computer Software Requirements

Click here to enter text.

Guidance: This paragraph specifies requirements, if any, regarding computer software that is used by, or incorporated into, the system or subsystem. Examples include operating systems, database management systems, communications/network software, utility software, input and equipment simulators, test software, and manufacturing software. The correct nomenclature, version, and documentation references of each such software item are provided.

3.10.4. Computer Communications Requirements

Click here to enter text.

Guidance: This paragraph specifies additional requirements, if any, concerning computer communications that are used by, or incorporated into, the system or subsystem. Examples include geographic locations to be linked; configuration and network topology; transmission techniques; data transfer rates; gateways; required system use times; type and volume of data to be transmitted/received; time boundaries for transmission/reception/response; peak volumes of data; and diagnostic features.

3.11. System Quality Factors

Click here to enter text.

Guidance: This paragraph specifies requirements, if any, pertaining to system or subsystem quality factors. Examples include quantitative requirements concerning system functionality (ability to perform required functions), reliability (ability to perform with correct, consistent results, e.g., mean time between failure for equipment), maintainability (ability to be easily serviced, repaired, or corrected), availability (ability to be accessed and operated when needed),

flexibility (ability to be easily adapted to changing requirements), portability of software (ability to be easily modified for a new environment), reusability (ability to be used in multiple applications), testability (ability to be easily and thoroughly tested), usability (ability to be easily learned and used), and other attributes.

3.12. Design and Construction Contraints

Click here to enter text.

Guidance: This paragraph specifies requirements, if any, that constrain design and construction of the system or subsystem. For hardware-software systems, this paragraph includes physical requirements imposed on the system or subsystem. These requirements may be specified by reference to appropriate commercial or military standards and specifications. Examples include requirements concerning:

- Use of a particular system or subsystem architecture or requirements on the architecture, e.g., required subsystems; use of standard, military, or existing components; or use of Government furnished property (equipment, information, or software).
- Use of particular design or construction standards; use of particular data standards; use of a particular programming language; use of existing software; workmanship requirements and production techniques.
- Physical characteristics of the system or subsystem (such as weight limits, dimensional limits, color, protective coatings); interchangeability of parts; ability to be transported from one location to another; ability to be carried or set up by one or a given number of people.
- Materials that can and cannot be used; requirements on handling of toxic materials; limits on electromagnetic radiation that the system is permitted to generate.
- Use of nameplates, part marking, serial and lot number marking, and other identifying markings.
- Provision for flexibility and expandability to support anticipated areas of growth or changes in technology, threat, or mission.
- Manufacturing requirements and constraints associated with producing the system or subsystem to be included.

3.13. Personnel Related Requirements

Click here to enter text.

Guidance: This paragraph specifies the system or subsystem requirements, if any, included to accommodate the number, skill levels, duty cycles, training needs, or other information about the personnel who will use or support the system. Examples include requirements for the number of workstations to be provided and for built-in help and training features. Also included are human factors engineering requirements, if any, imposed on the system or subsystem. These requirements include, as applicable, considerations for capabilities and limitations of humans, foreseeable human errors under both normal and extreme conditions, and specific areas where effects of human error would be particularly serious. Examples include requirements for

adjustable-height workstations, color and duration of error messages, physical placement of critical indicators or buttons, and use of auditory signals.

3.14. Training Related Requirements

Click here to enter text.

Guidance: This paragraph specifies the system or subsystem requirements, if any, pertaining to training. Examples include training devices and training materials to be included in the system.

3.15. Logistics Related Requirements

Click here to enter text.

Guidance: This paragraph specifies the system requirements, if any, concerned with logistics considerations. These considerations may include system maintenance, software support, system transportation modes, supply-system requirements, impact on existing facilities, and impact on existing equipment.

3.16. Other Requirements

Click here to enter text.

Guidance: This paragraph specifies additional system or subsystem requirements, if any, not covered in the previous paragraphs. Examples include requirements for system or subsystem documentation, e.g., specifications, drawings, technical manuals, test plans and procedures, and installation instruction data, if not covered in other contractual documents.

3.17. Packaging Requirements

Click here to enter text.

Guidance: This section specifies the requirements, if any, for packaging, labeling, and handling the system or subsystem and its components. Applicable military specifications and standards may be referenced if appropriate.

3.18. Statutory, Regulatory, and Certification Requirements

3.18.1. Statutory Requirements

Click here to enter text.

Guidance: This paragraph specifies, if applicable, statutory requirements for the system or subsystem.

3.18.2. Regulatory Requirements

Click here to enter text.

Guidance: This paragraph specifies, if applicable, regulatory requirements for the system or subsystem.

3.18.3. Certification Requirements

Click here to enter text.

Guidance: This paragraph specifies, if applicable, certification requirements for the system or subsystem.

3.19. Precedence and Criticality of Requirements

Click here to enter text.

Guidance: This paragraph specifies, if applicable, order of precedence, criticality, or assigned weights indicating relative importance of requirements in this specification. Examples include identifying those requirements deemed critical to safety, to security, or to privacy for purposes of singling them out for special treatment. If all requirements have equal weight, this paragraph so states. Key Performance Parameters (KPPs) and Key System Attributes (KSAs) are identified in the body of section 3 and provided in a tabular format ranked in order of importance.

3.20. Demilitarization and Disposal

Click here to enter text.

Guidance: Demilitarization and disposal at the end of a life-cycle include activities necessary to ensure disposal of decommissioned, destroyed, or irreparable system components meet applicable regulations, directives and environmental constraints.

4. VERIFICATION PROVISIONS

Click here to enter text.

Guidance: This section defines a set of verification methods and specifies for each requirement in section 3 the method(s) to be used to ensure the requirement has been met. A table is used to present this information and is documented in Appendix C. The SRD contains verification methods desired by the Government. A contractor may offer alternative verification methods with associated justification.

4.1. Verification Methods

4.1.1. Demonstration

Click here to enter text.

Guidance: Operation of the system, subsystem, or a part of the system that relies on observable functional operation not requiring use of instrumentation, special test equipment, or subsequent analysis.

4.1.2. Test

Click here to enter text.

Guidance: Operation of the system, subsystem, or a part of the system, using instrumentation or other special test equipment to collect data for later analysis.

4.1.3. Analysis

Click here to enter text.

Guidance: Processing of accumulated data obtained from other qualification methods. Examples are reduction interpolation, or extrapolation of test results.

4.1.4. Inspection

Click here to enter text.

Guidance: Visual examination of system components, documentation, etc.

4.1.5. Special Verification Methods

Click here to enter text.

Guidance: Special verification methods for the system or subsystem, e.g., special tools, techniques, procedures, facilities, acceptance limits, use of standard samples, preproduction or periodic production samples, pilot models, or pilot lots.

5. REQUIREMENTS TRACEABILITY

Guidance: For a system level SRD, this paragraph includes traceability requirements to a warfighter Capability Document and down to applicable subsystems. For a subsystem level SRD, this paragraph includes traceability to the system specification and down to applicable line replaceable units (LRUs), including software Operational Flight Programs (OFPs) or equivalent. Use of automated tools is highly encouraged and tools that maintain detailed artifacts of each requirement are preferred.

5.1. Traceability to Capability Document or System Specification

Click here to enter text.

Guidance: This paragraph contains a description of the traceability to a Capability Document or System Specification. It also defines associated attributes that an automated tool should capture to document each requirement.

5.2. Traceability to Subsystems Requirements

Click here to enter text.

Guidance: This paragraph contains a description of traceability to a subsystem or lower tiered requirement document. It also defines associated attributes that an automated tool should capture to document each requirement.

6. APPENDIX SECTION

6.1. Appendix A - Acronyms and Definitions

Click here to enter text.

Guidance: This appendix contains acronyms and provides standard definitions for terminology used herein.

6.2. Appendix B – Key Performance Parameters/Key System Attributes

Click here to enter text.

Guidance: This appendix contains tabularized KPPs, and KSAs, if applicable, listed in prioritized order.

6.3. Appendix C - Requirements Traceability Matrices

Click here to enter text.

Guidance: This appendix contains tabularized requirements traceability to the source documentation and to the next lower tier documentation where known. If not known, pre contract award, lower tier traceability is to be included in the resultant system or subsystem specification.

6.4. Appendix D - Verification Matrices

Click here to enter text.

Guidance: This appendix contains tabularized verification method for every system or subsystem requirement. If not known, pre contract award, the verification method is to be included in the resultant system or subsystem specification.