Quality requirements for the supply of Design and Development

SUMMARY:

This document defines the quality requirements applicable to the supply of Design and Development to the Defence Systems Business Unit of Leonardo S.p.a.

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Process Authority - Product Quality Assurance

Name/Signature: M. Romagnoli
Signed

For conformance to original Italian edition

Date: 2022/05/06

M. Romagnoli
Process Authority - Product Quality Assurance

AMENDMENT RECORD

<table>
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<tr>
<th>Rev.</th>
<th>Date</th>
<th>BMSCP</th>
<th>Description</th>
<th>Authors</th>
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<tr>
<td>00</td>
<td>07/07/2017</td>
<td></td>
<td>First issue</td>
<td>C. Pagni</td>
</tr>
<tr>
<td>01</td>
<td>15/03/2018</td>
<td>007</td>
<td>Whole document updated and reformatted to match general requirements of the new procedure PQA004-L: adapted the text of requirements to include references to the requirements of PQA004-L; modified the applicability to refer the types of supplies identified in PQA004-L; introduced information on the supply Classification Index; introduced requirements for production of prototype. (*) For this reason the marking of the outer edge is omitted.</td>
<td>C. Pagni</td>
</tr>
<tr>
<td>02</td>
<td>22/10/2018</td>
<td>057</td>
<td>Para. 2.1 - Updated ref. to UNI EN 9100:2018; Para. 5.2 - Added requirement: the Risk Management Plan shall be submitted for approval; Para. 5.2 - Removed option to include planning documents in the Quality Plan (only requirements in Appendix B apply); Para. 5.8 - Specified difference between design review “Passed” or “Passed under Reserve”; - Added requirement for joint reviews to be approved by Leonardo-SDI; Appendix A - Removed case of IF not specified in the PO; Appendix B - Table 2 modified</td>
<td>C. Pagni</td>
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# Quality requirements for the supply of Design and Development

<table>
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<tr>
<th>Rev.</th>
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<th>Authors</th>
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<td>03</td>
<td>01/04/2022</td>
<td>580</td>
<td>Modified code and template of the document according with updated company standard (not traced in the document); Whole document: replaced “Division” with “Business Unit”; replaced refs. to PQA004-L with PQA004-L-IT-D and PQA011-L with PQA011-L-IT-D; minor changes have been made to improve some requirement descriptions (not traced in the document); Para. 1.1: Replaced AER-Q–2110 with AQAP-2310; removed AQAP-2210 (applicable in PQA011-L-IT-D); Para. 1.3: Modified title; added definition of “RQF Code” and relevant clauses; Para. 2.1: Removed AER-Q-2110; Added AQAP-2105, AQAP-2310, ISO 10005, ISO 10007; Para. 3.1: Added definition of Dependability; Para. 5.8: Added requirement for verifying and recording the effective implementation of actions planned during the design reviews; Appendix A, B: Replaced “Classification Index” with “RQF Code”.</td>
<td>C. Pagni</td>
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1 INTRODUCTION

1.1 Purpose

The purpose of this document is to define the detailed quality requirements for the supply of Design and Development activities to the Defence Systems Business Unit of Leonardo S.p.A. (hereinafter Leonardo-SDI).

The document is complementary (not alternative) to ISO 9001 and UNI EN 9100 as applicable, and AQAP 2110, AQAP 2310 as applicable.

Further general quality requirements applicable to all supplies are specified in the PQA004-L-IT-D document.

1.2 Applicability

This document applies to the design and development supplies of products to be incorporated into products and services intended for Leonardo-SDI's customers or used in their production.

In particular, it applies to the following types of supplies as identified in PQA004-L-IT-D:

- Type A: Design and Development Supplies;
- Type C: Supplies of Manufacturing products, when the product design is assigned to the supplier (see PQA006-L-IT-D);
- Type E: Supplies of Ammunition, Exploding devices and Weapons, when the product design is assigned to the supplier (see PQA009-L);

1.3 RQF Code

As described in PQA004-L-IT-D, any supply to Leonardo-SDI is classified for quality purpose through the RQF Code, consisting of a letter (Type) and a number (Classification Index) which depend on the characteristics and the complexity of the requested product or service.

The RQF Code is associated to each item of the purchase orders and allows to identify the activities and the documents that the supplier is required to provide.

\[
\text{RQF Code} = \text{<Type>} + \text{<Classification Index>}
\]

For example:

\[
\text{RQF} = \text{A2} \text{ indicates Medium Complex (2) Design and Development (A) supplies;}
\]

Values and meaning of the RQF Code for Design and Development supplies are defined in Appendix A; the corresponding activities and documents requested from the supplier are listed in Appendix B.

In cases where the PO does not report the RQF code, the Supplier is required to ask Leonardo-SDI for the RQF applicable to the supply.
## 2 REFERENCES

### 2.1 Documents

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<thead>
<tr>
<th>Ref.</th>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>D1.</td>
<td>AQAP-2310 ed. B</td>
<td>NATO Quality Management System Requirements for Aviation, Space and Defence suppliers</td>
</tr>
<tr>
<td>D2.</td>
<td>ACMP 2100 Ed A</td>
<td>Configuration Management Contractual Requirements.</td>
</tr>
<tr>
<td>D3.</td>
<td>AQAP 2070 Ed B</td>
<td>NATO Mutual Government Quality Assurance (GQA) Process</td>
</tr>
<tr>
<td>D4.</td>
<td>AQAP 2105 Ed. C</td>
<td>NATO Requirements for deliverable Quality Plans</td>
</tr>
<tr>
<td>D5.</td>
<td>AQAP 2110 Ed D</td>
<td>NATO Quality Assurance Requirements for Design, Development and Production</td>
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<tr>
<td>D10.</td>
<td>NAV-50-9999-0026-13-00B000</td>
<td>Obligations of Italian Industry towards technical bodies of the MMI (Italian Navy)</td>
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<td>D11.</td>
<td>STANAG 4107</td>
<td>Mutual acceptance of government quality assurance and usage of the allied quality assurance publications (AQAP).</td>
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<tr>
<td>D12.</td>
<td>STANAG 4427</td>
<td>Introduction of allied configuration management publications (ACMP’s)</td>
</tr>
<tr>
<td>D13.</td>
<td>STANREC 4174</td>
<td>Guidance for Dependability Management</td>
</tr>
<tr>
<td>D14.</td>
<td>PQA004-L-IT-D</td>
<td>Quality Requirements for Supplies to the Defence Systems Business Unit of Leonardo S.p.A.</td>
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<td>D15.</td>
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<td>Quality requirements for the supply of Manufacturing</td>
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<td>D16.</td>
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<td>Quality Requirements for supplies of Ammunition, Exploding devices and Weapons</td>
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<td>D17.</td>
<td>PQA011-L-IT-D</td>
<td>Quality requirements for the supply of Software Design and Development</td>
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3 DEFINITIONS AND ACRONYMS

3.1 Definitions
The terms and definitions given in PQA004-L-IT-D and the following apply.

<table>
<thead>
<tr>
<th>Definition</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Dependability</td>
<td>The ability to perform as and when required. Dependability includes availability, reliability, recoverability, maintainability and maintenance support performance, and, in some cases, other characteristics such as durability, safety, and security. Dependability is used as a collective term for the time-related quality characteristic of an item.</td>
</tr>
</tbody>
</table>

3.2 Acronyms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>ADMP</td>
<td>Allied Dependability Management Publications</td>
</tr>
<tr>
<td>GQA</td>
<td>Government Quality Assurance</td>
</tr>
<tr>
<td>CDR</td>
<td>Critical Design Review</td>
</tr>
<tr>
<td>FCA</td>
<td>Functional Configuration Audit</td>
</tr>
<tr>
<td>FQR</td>
<td>Final Qualification Review</td>
</tr>
<tr>
<td>FMEA</td>
<td>Failure Mode and Effect Analysis</td>
</tr>
<tr>
<td>FMECA</td>
<td>Failure Mode, Effects, and Criticality Analysis</td>
</tr>
<tr>
<td>GQA</td>
<td>Government Quality Assurance</td>
</tr>
<tr>
<td>GQAR</td>
<td>Government Quality Assurance Representative</td>
</tr>
<tr>
<td>ISO</td>
<td>International Standardization Organisation</td>
</tr>
<tr>
<td>LCC</td>
<td>Life Cycle Cost</td>
</tr>
<tr>
<td>LSA</td>
<td>Logistics Support Analysis</td>
</tr>
<tr>
<td>PO</td>
<td>Purchase Order</td>
</tr>
<tr>
<td>PCA</td>
<td>Physical Configuration Audit</td>
</tr>
<tr>
<td>PDR</td>
<td>Preliminary Design Review</td>
</tr>
<tr>
<td>PRR</td>
<td>Production Readiness Review</td>
</tr>
<tr>
<td>PHST</td>
<td>Packaging Handling Storage Transportation</td>
</tr>
<tr>
<td>GQAR</td>
<td>Government Quality Assurance Representative</td>
</tr>
<tr>
<td>RAMS</td>
<td>Reliability Availability Maintainability and Safety</td>
</tr>
<tr>
<td>TRR</td>
<td>Test Readiness Review</td>
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</table>
4 INTRODUCTION

4.1 Requirements of the Supplier
The following requirements specified in the document PQA004-L-IT-D apply:

- "Assessment and monitoring of suppliers";
- “General requirements for the Supplier’s Quality System”

4.2 Requirements of the Supplies
The requirements of PQA004-L-IT-D (‘Transmission of delivery requirements’) apply.

The scope of supply may include the following:

a) analysis of the requirements, design and development of the product by the supplier, on the basis of higher level requirements defined by Leonardo-SDI in a Technical Specification;

b) design and development of the product by the supplier, based on a Technical Specification of requirements written by Leonardo-SDI.

If the scope of supply also includes software design and development, the specific requirements of PQA011-L-IT-D also apply.

4.3 Leonardo-SDI interfaces with the Supplier
The information contained in PQA004-L-IT-D apply.

5 REQUIREMENTS FOR DESIGN AND DEVELOPMENT ACTIVITIES

5.1 Inputs to design and development

5.1.1 Determining and reviewing requirements
The supplier shall review the technical and quality requirements communicated by Leonardo-SDI via the PO and the associated documents to ensure that they are clear, complete, consistent and suitable for the development of the design. If the supplier considers the information received to be non-exhaustive, it shall agree with Leonardo-SDI on the necessary actions to fully share the supply requirements.

The supplier shall also identify the statutory and regulatory requirements applicable to the project and any requirements not defined by Leonardo-SDI but considered necessary for carrying out the required activities; moreover, it shall take into account the requirements implicit in the expected use of the product, including Safety and Dependability requirements.

The supplier shall retain a record of the outcome of the review and shall ensure the requirements are tracked through the design development stages including product verification and validation.

If changes are introduced by Leonardo-SDI to the technical and/or quality requirements associated with the PO, the supplier shall ensure that these changes are incorporated into the project and the related documentation.
5.1.2 RAMS, LSA, PHST and LCC requirements

Any RAMS, LSA, PHST and LCC requirements (qualitative and quantitative) are defined by Leonardo-SDI in specific specifications attached to the PO.

In the event that these requirements are not made explicit in the technical specifications attached to the PO, or that others emerge during the analysis, the supplier shall in any case develop the project in conformity with the applicable standards, agreed with Leonardo-SDI.

The following is a non-exhaustive list of possible applicable standards:

- EN 50126 (national and European market);
- MIL-STD-882;
- MIL-HDBK-470 (US market);
- STANREC 4174 and NATO ADMP publications (if contractually required).

As a result of the above requirements, the supplier shall carry out and document one or more of the following specific activities, as specified in Appendix B:

a) Safety analysis;

b) Ergonomic analysis;

c) Forecast reliability analysis;

d) FMEA and FMECA analysis;

e) Analysis of preventive and corrective maintenance;

f) PHST Analysis;

g) Definition of the spare parts and equipment needed for the different logistics levels;

h) Definition of costs and average repair times;

i) Definition of user and maintenance manuals.

The formats of the documents are to be agreed with Leonardo-SDI.

5.2 Planning

General requirements

The requirements of PQA004-L-IT-D apply.

Specific requirements

The supplier shall provide the following documents in accordance with Appendix B:

- Within 30 calendar days from acceptance of the PO, and anyway before the start of activities: Quality Plan, Time Schedule of Activities (GANTT) and Risk Management Plan, to be submitted for approval;

- As part of the Preliminary Design Review, or anyway within 60 calendar days from acceptance of the PO: Design and Development Plan and Configuration Management Plan to be submitted for approval.

The supplier’s plans shall cover all project stages and include, at the end of each stage, appropriate milestones to verify design and development outputs and authorize formal transition to the next project phase.

The requirements for drawing up the required plans are defined in document PQA004-L-IT-D.

5.3 Outputs of design and development

The supplier shall document the results of the design and development activities and submit them to Leonardo-SDI for approval.
The documents produced shall:

a) Specify the product requirements (if required) and provide evidence that they are met;
b) Define the physical and functional characteristics of the product, including critical elements and key characteristics as applicable;
c) Ensure producibility, testability and the feasibility of purchasing the product;
d) Define the acceptance criteria and procedures for the supply.

The documents shall be subject to Configuration Management and shall demonstrate the supplier’s internal approval.

Unless otherwise specified in the PO, the list of documents requested from the supplier is given in Appendix B.

The contents of the documents shall comply with the instructions given in PQA004-L-IT-D.

Further documentation requirements can be contained in the PO.

5.4 Prototype production

Based on the outputs of the Design phase, the supplier shall produce a prototype, that will be used to test the technical solutions applied, and, subsequently, to perform the formal verification and validation activities.

The output of this phase is the prototype itself, the applied Manufacturing and Control Plan and the documented collection of the results of the tests carried out.

If special processes have been used in the production of the prototype, the applicable certifications and/or documents shall be made available.

The supplier shall also document any precautions to be taken for use of the prototype.

If any problem occurs during production, or the need to modify design documents already approved by Leonardo-SDI emerges, the supplier shall promptly inform Leonardo-SDI in order to agree on a solution in accordance with the contractual procedures.

It is the responsibility of the supplier to ensure the availability of suitable equipment, resources and personnel for the manufacture of the prototype, as well as adhering to the timescales set out in the contractual documents.

Unless explicitly defined in the PO, the supplier shall agree with Leonardo-SDI the methods for identifying the Part Numbers of the prototype and its components.

5.5 Design verification

The supplier shall submit the results of the Design and Development to verification to demonstrate that the design conforms to the specified requirements.

For this purpose, the supplier shall prepare and submit to Leonardo-SDI approval a Plan for verification activities (functional, environmental, integration, …etc.), to ensure that all the requirements have been met. The verification method established for each requirement (Analysis, Demonstration, Visual Inspection, Testing, …) shall be indicated in the plan.

The supplier shall also define, document and submit to Leonardo-SDI approval the procedures for carrying out the planned tests.

The verification activities shall be carried out on the prototype and the results recorded, together with any necessary actions arising from evaluation of the results.

Test results shall be traceable against the requirements specified for the product.

If necessary, the supplier shall update the design documentation and/or the Manufacturing and Control Plan in accordance with the indications arising from the verification activities.
5.6 Design validation

The product resulting from the Design and Development (the prototype) shall be validated by Leonardo-SDI and/or its customer to ensure that it is able to meet the requirements of the intended use or specified application.

The supplier is required to provide the necessary technical assistance and support during the validation activities, in accordance with the provisions of the supply specification and the PO.

If necessary, the supplier shall update the design documentation according to the results of the validation.

Validation may also include Homologation (Type Approval) activities.

5.7 Control of changes to the design

The supplier shall record and monitor all design changes throughout the product lifecycle in accordance with the Configuration Management requirements applicable to the project.

Changes shall be reviewed and approved by the supplier prior to implementation, documented, verified and subjected to non-regression tests and additionally validated if necessary.

Major changes, which concern aspects relating to the interchangeability\(^1\) of the product, shall be approved by Leonardo-SDI before they are incorporated into the configuration.

5.8 Control of design and development

The supplier shall organize the design and development according to successive stages, and carry out appropriate reviews (Design Review) to keep the planned activities and their results under control.

Depending on contractual agreements, Design Reviews may be internal (carried out independently by the supplier) or joint (carried out by the supplier in the presence of Leonardo-SDI and potentially its customer).

Design Reviews shall be included in the planning documents and, in the case of joint reviews, shall be called by the supplier at least fifteen days prior to the scheduled date, submitting at the same time the documents to be reviewed to Leonardo-SDI.

All documents submitted for review shall be previously approved by the supplier and placed under configuration management.

The result of Design Reviews shall be recorded by the supplier, together with any actions necessary for progression to the next phase.

The supplier shall verify and record the effective implementation of the planned actions during the following design reviews.

If the result is negative, a Design Review can be considered “Not Passed” (and therefore shall be repeated after completion of necessary actions) or “Passed under Reserve” (in this case the reserve will be removed at completion of corrective actions with no need to repeat the review).

Joint design reviews need to be approved by Leonardo-SDI.

\(^1\) These are the changes that have an impact on at least one of the Form, Fit and Function of the product.
As a part of the TRR and FQR Design Reviews, the supplier shall also conduct functional configuration (FCA) and physical configuration (PCA) audits.

Unless otherwise provided for in the PO, the supplier shall conduct as a minimum the design reviews indicated in Appendix C.

If deemed necessary, Leonardo-SDI reserves the right to request further Design Reviews in addition to those planned.

6 DOCUMENTATION

General requirements
The general requirements set out in PQA004-L-IT-D apply.

Specific requirements
The list of documents required from the supplier is defined in Appendix B. Any further details or different requirements will be transmitted to the supplier through the PO.

If not explicitly defined in the PO, the supplier shall agree with Leonardo-SDI the methods for identifying the documents (revision codes and indexes) and the forms to be used for drawing them up.

All documents submitted for review or presented as delivery items shall be formally approved by the supplier prior to delivery to Leonardo-SDI.

Any changes made by the supplier to documents already approved by Leonardo-SDI require the approval of Leonardo-SDI.

The delivery documentation shall be delivered to Leonardo-SDI accompanied by a Cover Letter containing the following information as a minimum:

- Reference to the PO number,
- Delivery date,
- List of documents delivered,

7 INDUSTRIAL CONFIDENTIALITY
The supplier shall respect the industrial confidentiality restrictions specified in the PO.

8 RIGHT OF ACCESS AND SUPPORT FOR QUALITY ASSURANCE ACTIVITIES
The requirements of PQA004-L-IT-D apply.
9 ACCEPTANCE OF THE SUPPLY

General requirements
The requirements of PQA004-L-IT-D apply.

Specific requirements
Unless otherwise agreed, the acceptance activities shall include the successful completion of a final Design Review for the project (FQR or another specifically planned review) to be carried out in the presence of Leonardo-SDI personnel and if necessary its customer.

The review shall be carried out in accordance with the indications in paragraph 5.8.

Design and Development supplies are considered complete only if all of the required documentation has been delivered by the supplier and accepted by Leonardo-SDI.

10 MANAGEMENT OF SUB-TIERS

It is prohibited to subcontract in full Design and Development activities.

Any partial sub-tier supply of Design and Development shall be authorized in advance by Leonardo-SDI and declared by the supplier in the Quality Plan; in this case the requirements of PQA004-L-IT-D apply.

11 CONFIGURATION MANAGEMENT

General requirements
The requirements of PQA004-L-IT-D apply.

Specific requirements
- For NATO supplies, the supplier shall produce and submit to Leonardo-SDI for approval a Configuration Management Plan in accordance with the requirements of AQAP 2110 (EN 9100 for Aerospace supplies), as indicated in Appendix B.

- In correspondence with the planned Design Reviews, the supplier shall document the Configuration Status of the design/product and submit it to Leonardo-SDI for approval.

- If not explicitly defined in the PO, the supplier shall agree with Leonardo-SDI:
  - the procedures for identifying the Part Numbers, documents and related revision indexes;
  - the methods for physically identifying the items;
  - how the proposed changes are to be classified and the criteria for assessing their impact on the change in P/N when they affect interchangeability;
  - the strategy for the logistic structure of the product and the list of Configuration Items;
  - the configuration management methods for COTS components;
  - the obsolescence management strategies.

12 MANAGEMENT OF MATERIALS BELONGING TO LEONARDO-SDI

The requirements of PQA004-L-IT-D apply.
APPENDIX A - RQF Code for Design and Development Supplies

The following table defines the possible RQF Codes for supplies of Design and Development, with the respective characteristics of the product.

<table>
<thead>
<tr>
<th>RQF</th>
<th>Characteristics of the Supply</th>
</tr>
</thead>
</table>
| A1  | **HIGH COMPLEXITY**  
Development of complex systems such that:  
- Meet specific operating needs expressed in a requirements specification document;  
- Are made up of different interdisciplinary components that interact in a very complex way, and a multi-level, structured architectural design (assemblies, sub-assemblies, … etc.) is required;  
- The project involves some level of risk (use of advanced technologies, system integration, etc.) for which a robust planning and control system is required for the design and development activities. |
| A2  | **MEDIUM COMPLEXITY**  
Development of moderately complex systems such that:  
- Meet specific functional or operational needs expressed by Leonardo-SDI in a requirements specification document produced during design of a higher level system;  
- Can be characterised by a prevailing discipline (mechanical, electronic, hydraulic, etc.) or require several disciplines simultaneously for the development;  
- Consist of different components that interact with each other in a moderately complex way, so that they can be described by a single level architectural design;  
- The level of risk inherent in the project development is limited. |
| A3  | **LOW COMPLEXITY**  
Design of single-discipline parts/components, characterised by a very simple structure, so that an architectural design is not required. The design and development activities are not affected by risks. |

Table 1 – RQF values
APPENDIX B - Documents requested from the supplier

The following table summarises the activities and documents required from the supplier according to the classification index (CI) of the supply. The table defines a standard that may be overwritten by any information contained in the PO and/or by other special conditions described in this document.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Documents</th>
<th>RQF Code</th>
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<tr>
<td></td>
<td></td>
<td>A1</td>
</tr>
<tr>
<td>Planning</td>
<td>Quality Plan</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Activity Planning (GANTT)</td>
<td>X</td>
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<tr>
<td></td>
<td>Design and Development Plan</td>
<td>(1)</td>
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<tr>
<td></td>
<td>Configuration Management Plan</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Risk Management Plan</td>
<td>X</td>
</tr>
<tr>
<td>Definition of product requirements (if required) and development of the project - Definition Dossier</td>
<td>System Subsystem Specification (SSS)</td>
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<td>System Subsystem Design Description (SSDD)</td>
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<td>Specifications of the System Interface Requirements (ICD/IRS)</td>
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<td>Technical Specifications of Requirements (TS)</td>
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<td></td>
<td>Interface Requirements Specifications (IRS)</td>
<td>(3)</td>
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<tr>
<td></td>
<td>Architectural Design Documents (HDD)</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>Project Technical Reports/Descriptions</td>
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<tr>
<td></td>
<td>Drawings, Parts Lists</td>
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<td></td>
<td>Safety Analysis Documentation</td>
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<tr>
<td></td>
<td>Logistic Support Analysis Documentation (see par. 5.1.2)</td>
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<tr>
<td>Design Verification Definition Justification Dossier</td>
<td>Requirements Traceability Matrix</td>
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<td></td>
<td>Technical Reports, Calculation Notes and other documents justifying the design choices</td>
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<td>System Integration Plans, Procedures and Test Reports</td>
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<td>Functional and environmental qualification plans</td>
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<td>Functional and environmental qualification procedures and test reports</td>
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<td>SW development</td>
<td>Software documentation - (see PQA011-L-IT-D)</td>
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<td>Prototype Manufacture</td>
<td>Manufacturing and Control Plan and Procedures</td>
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<td>Project Control - Reviews/Audits</td>
<td>Design Review Minutes</td>
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<td>FCA/PCA audit reports</td>
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<td>Testing/Acceptance</td>
<td>Test Procedure and Test Data Report (ATP/ATR)</td>
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<td>Test Certificate</td>
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<td>CoC (and any Waiver Requests)</td>
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<tr>
<td></td>
<td>CE Declaration of Conformity/Technical File</td>
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Table 2 – Documentation vs. RQF Code

(1) If required in the PO; (2) May be part of the Quality Plan; (3) For Sub-assemblies; (4) If safety requirements have been specified; (5) If software development is planned; (6) Required for Tools, Equipment, and any other products subject to the safety requirements of one or more EU directives for CE marking. If the project is an Industrial Property of Leonardo-SDI, the supplier is required to deliver a Technical Dossier for the project in accordance with the applicable directives. Otherwise, if the supplier holds the Industrial Property of the project, the Technical Dossier is not to be delivered but shall be made available for verification at the supplier's premises in accordance with the applicable directives.
**APPENDIX C - List of possible Design Reviews**

**Requirements Review** - this is carried out before acceptance of the PO in order to ensure complete understanding of the requirements, resolving any shortcomings, misunderstandings and inaccuracies with Leonardo-SDI. The Functional Baseline is comprised of all of the requirement documents.

**Preliminary Design Review (PDR)** - this takes place at the end of the design phase to analyse the design solutions identified for the supply and to start the executive design phase. At this stage, checks are also made to identify the items configured with their associated interfaces. The documents to be presented during the Design Review are those relating to the architectural design.

**Critical Design Review (CDR)** - this concludes the executive design phase, to ensure that the project complies with the requirements and all the elements are in place to continue with the activities, including the possible construction of a prototype. Following the CDR, the documents of the Allocated Baseline (for Development) are approved.

**Test Readiness Review (TRR)** - takes place following the construction of the prototype to ensure that the product produced is ready for the required tests and that the environment and test procedures have been defined and are available.

**Final Qualification Review (FQR)** - this is performed on completion of qualification activities to verify that the project meets all requirements. The Design Review also ensures that definition documents are up to date, the test plans and procedures have been correctly applied and the tests have been completed and that the traceability of the requirements is properly documented.

**Production Readiness Review (PRR)** - may be required to verify that all preliminary manufacturing activities have been completed and that all necessary documentation is available. On conclusion of the PRR the Product Baseline is frozen.