

QRSK-01 - Quality requirements for AW09 suppliers

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1 Introduction

1.1 Scope

This document defines the specific requirements for suppliers of AW09 program.

1.2 Summary and purpose

The complete set of requirements that each supplier commits to fulfil for providing Articles and/or Services are described in the main LH document (QRS-01 Quality Requirements for Suppliers) including its associated modules and in Kopter Group AG BS 10144444 [1] and BS 10167421 [2].

The present document clarifies the specific applicability and exclusions of QRS-01 requirements including related modules, and where requirements/modules are excluded, reference is made to Kopter BS 10144444 [1] and BS 10167421 [2].

1.3 Applicability

The present document “QRSK-01 - Quality Requirements for AW09 Suppliers” is applicable to all types of suppliers having an activity related to the program AW09 affecting the airworthiness. These requirements shall be flowed-down to all sub-tier suppliers involved in fulfillment of the contract/purchase order related to AW09 program.

When QRS-01 and/or QRS-XXX modules are called out in a Kopter AW09 purchase order, the present document (“QRSK-01 - Quality Requirements for AW09 Suppliers”) is also applicable and the QRS-XXX modules apply according paragraphs 2 and 3.

The requirements defined in the present document prevail over QRS-01 requirements when there is a conflict.

When “Quality control” is mentioned in QRS-01 and/or QRS-XXX modules, read “Kopter Product Quality” whenever the delivery is directly to Kopter. For any queries, Kopter Product Quality shall be contacted at: productquality@koptergroup.com.

Any deviations, further exclusions, waivers shall be agreed in writing with Kopter Supplier Quality Assurance.

1.3.1 Effectivity date

The document is effective upon release date.

1.4 Ownership

Kopter Supplier Quality Assurance.

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2 Exclusions

The following modules of QRS-01 are not applicable to AW09:

- QRS-100 - Digital Manufacturing
- QRS-115 - Requirements for Design & Development Suppliers of Airborne Equipment
- QRS-116 - Software Development, Quality Requirements for Suppliers
- QRS-117 - Complex Electronic Hardware, Quality Requirements for Suppliers
- QRS-118 - Requirements for Laboratories and Manufacturers of Non-Airborne Equipment for LH Engineering

For the above mentioned subjects, the requirements contained in Kopter BS 10144444 [1] and BS 10167421 [2] apply.

3 Applicable QRS-XXX Modules

The following LH documents apply, with the specific adaptations and/or exclusions described in the next paragraphs:

- QRS-01 - Main Document
- QRS-101 - First Article Inspection
- QRS-103 - Quality Req. for Subcontractors, GSE, Stockists of Raw Material, Distributors
- QRS-104 - Special Processes
- QRS-105 - Management of LH Equipment and Tools
- QRS-107 - Management of Non-Conforming Articles
- QRS-108 - Quality Plan
- QRS-110 - DO-PO arrangements
- QRS-122 - Supplier Component Maintenance / Operating Manuals management
- QRS-130 - Flow-down of LH Requirements to Sub-Tier Suppliers

3.1 Definitions

Ref. QRS-01 Main Document – Paragraph 6.2 (Definitions) :

- The definition of supplier category *Manufacturer* is synonymous with *Build to Specification (or Build-to-spec or Make to Specification)* supplier
- The definition of supplier category *Subcontractor* is synonymous with *Build to Print (or Make to Print)* supplier

3.2 QRS-01 Main Document

The QRS-01 Main Document applies entirely, with the specific adaptations and/or exclusions here described:

- Paragraph 3 (Applicability): exclusions as identified in Paragraph 3 of the present document
- Paragraphs 9 (Supplier Selection, Approval, Responsibility and Control) and Paragraph 10 (Purchasing): applicable for Suppliers directly approved by Leonardo Helicopters
- Paragraph 11 (Production and Service Provision): where “Leonardo Helicopters” (or “LH”) is mentioned, read “Kopter”

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- Paragraph 11.8 (REACH Regulation and environmental aspects): not applicable but REACH regulation shall be mandatorily applied and fulfilled when requested by the purchase order
- Paragraph 12 (Control of Records), 13 (Delivery Documentation), 14 (Control Plans for Deliveries): where “Leonardo Helicopters” (or “LH”) is mentioned, read “Kopter”
- Paragraph 19 (Annexes, Appendices and Forms):
 - QRS-01_Appendix 1 – Record Retention Table > Applicable
 - QRS-01_Appendix 2 – Additional Program Requirements > Applicable
 - QRS-01_Appendix 3 – Requirements for Articles to deliver to LH Customer Support and Service > Not Applicable
 - QRS-01_Appendix 4 – Counterfeit Electrical, Electronic, and Electromechanical (EEE) Parts > To be considered as a Guideline
 - QRS-01_F02 – REACH Declaration form > Not Applicable if not requested by purchase order
 - QRS-01_F03 – Manufacturing Inspection Report form > Applicable where requested by Purchase Order
 - QRS-01_F04 – Log Card Form > Applicable where requested by Purchase Order
 - QRS-01_F05 – Request for Variation Approval form > Applicable

3.3 QRS-101 First Article Inspection

The QRS-101 applies entirely, with the specific adaptations and/or exclusions here described:

- Where “Leonardo Helicopters” (or “LH”) is mentioned and the supplier is a Manufacturer, as Engineering Focal Point read “Kopter”.
- First Article Inspection is required for Type Certification purposes for CR, P and S parts, as per Purchase Order.
- The supplier is entitled to use either the LH FAIR template, or the one provided by Kopter or any other form compliant with the EN9102 requirements.
- Kopter reserves the right to witness the First Article Inspection activities at the supplier facility.
- Chapter 2 (Applicability): this procedure is applicable to all Leonardo Helicopters and Kopter suppliers.

3.4 QRS-103 Quality Req. for Subcontractors, GSE, Stockists of Raw Material, Distributors

The QRS-103 applies entirely, with the specific adaptations and/or exclusions here described:

- When the Purchase Order is placed directly by Kopter for delivery directly to Kopter, the Subcontractor shall deal with Kopter Manufacturing Engineering for the possible review and/or approval of related Manufacturing Plans.

3.5 QRS-104 Special Processes

The QRS-104 applies entirely for Leonardo Helicopters specifications (AWPS) and standard requirements.

3.6 QRS-105 Management of LH Equipment and Tools

The QRS-105 applies entirely, with the specific adaptations and/or exclusions here described:

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- Where “Leonardo Helicopters” (or “LH”) is mentioned and the equipment is received by Suppliers on loan from Kopter, read “Kopter”.
- Where “Leonardo Helicopters” (or “LH”) is mentioned and the equipment/tools is manufactured by the supplier on behalf of Kopter, read “Kopter”.

3.7 QRS-107 Management of Non-Conforming Articles

The QRS-107 applies entirely, with the specific adaptations and/or exclusions here described:

- Where “Leonardo Helicopters” (or “LH”) is mentioned and the purchase order is placed directly by Kopter for delivery directly to Kopter, read “Kopter”.
- All applicable QRS-107 forms shall be submitted at least in english version.
- Paragraph 5.3: The Supplier shall also notify escapes/quality alerts to the contact productquality@koptergroup.com

3.8 QRS-108 Quality Plan

The QRS-108 applies entirely, with the specific adaptations and/or exclusions here described:

- Where “SQA” is stated refer to Kopter SQA.
- Where the supplier is a Manufacturer against Kopter Technical Requirements Definition (TRD), refer to Kopter Engineering Focal Point / Chief Project.
- Slight deviations to Kopter requirements can be agreed in a compliance matrix submitted to SQA.

POA holder suppliers shall submit a quality plan (i.a.w. QRS-108) to support either a DO-PO Arrangement with Kopter (if the supplier is a Manufacturer) or a IPO-PO with LH (if the supplier is a Subcontractor) in order to include the applicable P/Ns in their capability list and providing the airworthiness certificate (EASA Form 1, FAA Form 8130, etc.).

3.9 QRS-110 DO-PO arrangements

The QRS-110 applies entirely, with the specific adaptations and/or exclusions here described:

- Where “Leonardo Helicopters” (or “LH”) is mentioned, read “Kopter”,
- Kopter template of Form 10045744 [3] shall be used in lieu of Leonardo F01,
- Kopter template of Form 11036568 [4] shall be used in lieu of Leonardo F03.

3.10 QRS-122 Supplier Component Maintenance / Operating Manuals management

The QRS-122 applies entirely, with the specific adaptations and/or excusions here described:

- Where “Leonardo Helicopters” (or LH) is mentioned, read “Kopter”,
- If specifically authorized by Kopter, the supplier is allowed to provide the contents in Appendix 1 within a different Vendor Technical Publication, even if not considered a standard CMM/OM. The format and the minimum contents shall be accepted by Kopter PSE along the approval process, depending on the chcharacteristics of the part or equipment and the maintenance.

3.11 QRS-130 Flow-down of LH Requirements to Sub-Tier Suppliers

The QRS-130 applies entirely with the specific adaptations and/or exclusions here described:

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- Where “Leonardo Helicopters” (or “LH”) is mentioned, read “Kopter”.
- Paragraph 5.8: not applicable as per exclusions in section 2 of this document.

4 Document information

4.1 Definitions/ Abbreviations

Table 1: Abbreviations

Abbreviation	Meaning
BS	(Kopter) Business Standard
DO	Design Organisation
EEE	Electrical, Electronic and Electromechanical
GSE	Ground Support Equipment
LH	Leonardo Helicopters
NCR	Non Conformity Report
PO	Production Organisation
PSE	Product Support Engineering & Licenses
REACH	Registration, Authorisation and Restriction of Chemicals

4.2 References

Kopter Documents

Reference identifier	Reference	Name / Description
BS 10144444	[1]	PO Supplier Quality Requirements
BS 10167421	[2]	DO Quality Requirements
10045744	[3]	DO-PO Arrangement
11036568	[4]	Statement of Approval Design Data (SADD)

External Documents

Reference identifier	Reference	Name / Description
QRS-01	N/A	Quality Requirements for Suppliers
QRS-100	N/A	Digital Manufacturing – DMFG
QRS-101	N/A	First Article Inspection
QRS-103	N/A	Quality Req. for Subcontractors, GSE, Stockists of Raw Material, Distributors
QRS-104	N/A	Special Processes
QRS-105	N/A	Management of LH Equipement and Tools
QRS-107	N/A	Management of Non-Conforming Articles
QRS-108	N/A	Supplier Quality Plan
QRS-110	N/A	DO-PO Arrangement
QRS-115	N/A	Requierments for Design & Development Suppliers of Airborne Equipment
QRS-116	N/A	Software Development, Quality Requirement for Suppliers
QRS-117	N/A	Complex Electronic Hardware, Quality Requirements for Suppliers
QRS-118	N/A	Requirements for Laboratories amd Manufacturers of Non-Airborne Equipment for LH Engineering
QRS-122	N/A	Supplier Component Maintenance / Operating Manuals management

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Reference identifier	Reference	Name / Description
QRS-130	N/A	Flow-down of LH Requirements to Sub-Tier Suppliers

4.3 Revisions

Revision	Comment	Rev. Date	Name
A	First issue.	September 2021	A. Daguinet
B	<p>§2, §3: Moved QRS-103, QRS-105, QRS-107 and QRS.130 from “Exclusions” to “Applicable”.</p> <p>Added §3.4: QRS-103</p> <p>Added §3.6: QRS-105</p> <p>Added §3.7: QRS-107</p> <p>Added §3.10: QRS-130</p>	12/06/2023	P. Bertucci
C	<p>§1.3: updated content</p> <p>§2, §3: Moved QRS-122 from “Exclusions” to “Applicable”</p> <p>§3.2: deleted Appendix 1 (QRS-01) Record Retention Table</p> <p>§3.3: updated content</p> <p>§3.4: Harmonisation with LH process</p> <p>Deleted specific special process requirements for Kopter</p> <p>§3.5: Harmonisation with LH process</p> <p>Deleted specific special process requirements. for Kopter</p> <p>§3.8: Harmonisation with LH process</p> <p>Deleted table: Approval and focal point for QP</p> <p>Sentence added related to POA holder suppliers</p> <p>Added §3.10: QRS-122</p> <p>§4.1: added PSE definition</p> <p>§4.2: deleted 11036569 IPO-PO Arrangement</p>	29/08/2024	K. Mazurczak

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Ref. SQA/950/2024

Cascina Costa, 09/09/2024

All Suppliers
To whom it may concern.

Subject: AW09 Design maturity levels - Follow-up of Leonardo Communication Ref. SQA/24/146

Dear Supplier,

In relation to the Letter SQA/24/146 dated 09/02/2024 shared by Leonardo Helicopters concerning the Design maturity Level and strictly related to AW09 program, here to communicate that for all parts and products in status "Item Revision Release" the limitation for "Not for Flight" has been removed by Design Organization.

Due to this new update, from a Production Organization perspective, the Status "Item Rev. Release" and the Status "Release" are to be considered as equivalent until the approval of design data (i.e. Type Certificate), since no additional and significant changes will be introduced by Design Organization between the two Design Maturity Levels and with the parts in Status "Item Revision Release" is allowed to perform the internal flight tests (Experimental Flight Test and Production Test Flight).

As per statement above the reference to which Design Maturity Level the parts are manufactured shall be indicated on Certificate of Conformity as additional requirement as per QRS-01.

- **"Pre-Release Proto"** the supplier is required to indicate the following wording in the CoC: "KPT DWG N. (insert the KPT DWG number), Rev (insert the rev. number) Pre-Release Proto - not for final installation nor for flight"
- **"Item Rev. Release"** the supplier is required to indicate the following wording in the CoC: "KPT DWG N. (insert the KPT DWG number), rev (insert the rev. number), status: Item Rev. Release - for experimental and production internal flight test"
- **"Release"** the supplier is required to indicate the following wording in the CoC: "KPT DWG N. (insert the KPT DWG number), rev (insert the rev. number), status: Release."

To guarantee the correct configuration and the maturity level of design, the supplier can obtain this information from the title block of the drawing shared by Leonardo Production Organization or Kopter Design Office (where applicable).

Please be informed that the changes of Design Maturity Level (e.g. from Item Revision Release to Released) doesn't entail the change of Revision (e.g. from Rev. A to Rev. B).

The defeat of revision is applicable only in case of modification that have impact on Fit Form and Function.

The revision of the Kopter drawing will be reported in the Purchase Orders, but not the maturity level of the drawing.

The Kopter drawings will be sent through SWIP package associated with the order. When manufacturing components, the supplier is required to check the revision and status of the drawings according to which the part is manufactured. Any updates to the drawings revisions/status will always be sent via SWIP package. Focal points are the Leonardo Manufacturing Engineering office and the Leonardo Procurement office.

As regards the FAI activities, here to confirm that the FAI closure is allowed for "Item Rev. Release" status as well as for "Release".

Differently from the Status "Pre-Release Proto" where the FAI closure is not allowed and the parts in this status are not applicable to manufacture the AW09 from PS5 on.

In the same time, here to inform that for AW09 program a dedicate Quality Plan is needed with the aim to issue a DO-PO (in case of manufacturer) or IPO-PO (in case of subcontractor POA Holder).

For supplier without POA Holder and engaged to manufacture Critical Parts a Quality Plan is needed too and will be managed and approved by Leonardo Plant. The process shall be compliant with QRS-108.

For the parts or components where the Quality Code, reported on Purchase Order, requires an ARC in "New" status, but the supplier is unable to deliver it because the PN is not yet included in its Capability List, the supplier can deliver with ARC in "Prototype" status only after having issued a Quality Plan approved by LH and managed DO-PO or IPO-PO Arrangement with LH \Plant, in accordance with QRS-110 and QRS-108

For this purpose, the supplier shall send a formal letter to Leonardo and Kopter during the order acceptance phase, in which declares expected dates for releasing ARC in "New" status and obtain approval from LH/KPT to deliver the part with ARC "Prototype".

If it is not possible to issue even an ARC in "Prototype" status, Leonardo can accept parts with Certificate of Conformity, but the ARC request in the Quality Code in the order will be maintained, to continue asking the supplier to include the component in its own Capability List.

The requirements above will be included as additional requirement dedicate to AW09 Program that will be described in the new revision of QRSK-01 once will be published on Leonardo QRS-01 website in the section "Additional Data -> Program Additional Requirements".

AS REFERENCE ONLY: Attached the guidelines "QUA/2024/0085 date 16/05/2024" issued by Leonardo Quality Control Vergiate.

<p>Pre-Release Proto (*)</p>	<p>The design is mature enough to order and manufacture a prototype of the part.</p> <p>Part is ready for quotation/ordering/production (provided it is part of the PBS of the aircraft).</p> <p>Installation on aircraft for fit checks are permitted, as temporary installation.</p> <p>Part is NOT mature for final installation on aircraft NOR for flight.</p> <p>Note 1: this status is not applicable for installation assy.</p> <p>Note 2: this status can be used for component test article (non-flying design), limited to test rig, dummy parts and design items used as container (i.e. parts under test are excluded).</p>
<p>Item Rev. Release (*)</p>	<p>The design-is mature enough to order, manufacture and install on aircraft (applicable design).</p> <p>Also performing internal test flights (Experimental Flight Test and Production Test Flight), provided that a corresponding FCA & PtF is issued.</p> <p>Revising (up-issuing) the technical data package will require to follow the change process.</p> <p>Note: for compliance demonstration component test article (non flying design) this status shall be used for parts under test.</p>
<p>Release (*)</p>	<p>The "Release" Status has to be issued by Kopter for any parts intended to be part of an approved configuration (i.e. TC). This is pre-requisite to issue the Type Design Configuration.</p> <p>From a PO perspective the Status Item Rev. Release and Release are to be considered equivalent until the design is approved (i.e. TC). In particular, the promotion from Item Rev. Release to Release cannot introduce any design change or drawing revision. Revising (up-issuing) the technical data package will require to follow the change process.</p> <p>Post TC: Release status to be reached as a pre-requisite to approve a minor or major change to the TC or approval a minor or major repair.</p> <p>Note: for compliance demonstration component test article (non flying design) this status can be used for parts under test.</p>

(*) FAI closure is allowed for "Item Rev. Release" status as well as for "Release"

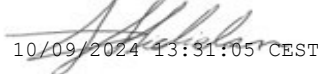
Yours faithfully,

Kopter Head of Procurement

LHD Head of Supplier Quality Assurance

Signed by Diego Michielan

on 10/09/2024 13:31:05 CEST




Signed by Fabio Menciotti
on 11/09/2024 at 16:53:03 CEST

Diego Michielan

Fabio Menciotti