



SUPPLIER QUALITY ASSURANCE REQUIREMENTS (GENERAL)

GKN Fokker Aerospace B.V. Procurement department

ANNEX B: Supplier Quality Assurance Requirements

(general)

This document is published by the Procurement department of GKN Fokker Aerospace B.V.

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The latest issue to this document is the version that is available on the GKN Fokker Aerospace website: Suppliers | Fokker | GKN Aerospace





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Revision	Date	Changes
01	01 February 2010	New document, replacing all basic requirements on Fokker Aerostructures Purchase Orders
02	03 May 2010	Materials - Grain Direction - Grain direction will run the length of the part unless otherwise specified.
03	14 June 2010	Required documents – "Bought out" has been added to the overview of required documents
04	02 February 2011	Complete review of the document. FAI - interval between two deliveries of the same part changed to 24 months. Added link to website. Environmental Requirements – Added A350. Electronic Data – Has been amended.
05	16 May 2011	Name change "Exhibit" has changed to "Annex" Environmental requirements (7) has been amended Subcontracting (9) has been added to this document.
06	21 Jun 2011	Minor textual changes
07	06 Mar 2013	Changes in references to Appendices
08	23 Dec 2021	5.2 Added NoE 5.2 Changed FOD to Ch 5.5 Removed typos in header
09	03 Mar 2022	4.0 FAI improved
10	27 Jan 2025	4.0 FAI clarified; suppliers shall perform FAI according to the latest revision of AS/EN 9102. Added Counterfeit parts detection and avoidance system requirements Major review of complete SQAR document

AUTORIZATION

Involvement	Name	Function	Signature and approval date
Accountable	O. Klaasen	Procurement Director Papendrecht	
Responsible	E.T. Knegt	Procurement Manager Hoogeveen	
Responsible	N.D. Manriquez	Procurement Manager Chihuahua	
Responsible	A. Swinkels-Lievense	Quality Director	





SUPPLIER QUALITY ASSURANCE REQUIREMENTS (GENERAL)

Document :AnnB-SQARen2010 Supplier Quality Assurance Requirements

Objective

The objective of this Annex B is to provide generic information on quality requirements of GKN Fokker Aerospace B.V. (hereafter referred to as GKN Fokker).

2 Scope of agreement

The Supplier shall at all time work in accordance with the latest issue of this Supplier Quality Assurance Requirements (SQAR) document. Latest version is made available on the website of GKN Fokker:

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Additional program specific quality requirements as contained in Appendix I (former Exhibit B) to each Program Agreement may apply to each Program. For each Program, the contents of Appendix I is in addition to or replacing one or more of the Quality Requirements as provided in this Annex B.

The Quality Requirements of this Annex B and the contents of Appendix I of each Program Agreement, form an integral part of each Purchase Order that may be issued by GKN Fokker towards the Supplier.

Deviations from the SQAR are only allowed after written approval by a Supplier Quality Engineer of GKN Fokker.

3 Quality Management System

3.1 Certification

The Supplier's Quality Management System must be audited in conformance with the requirement of EN9104-001 and be certified accordingly by an accredited Third Party. The required type of certification is to be aligned with the type of Products and/or Services supplied and the Supplier's status. Selecting the appropriate scope of Products and/or Services and Supplier type in Table I provides the required level of certification for the Quality Management System.

Table I:

•		•	Required lev	el of certificati	on			
Supplier type Scope of supply	Manufacturer	Sub- contractor	Distributor	Calibration house	Repair station	Eng. Testing house	Eng. Design house	Agent
Standard parts (catalogue off the shelf)	ISO 9001	ISO 9001	EN 9120	n.a.	n.a.	n.a.	n.a.	n.a.
Metal parts	EN 9100 *(1), *(3)	EN 9100 *(1), *(3)	n.a.	n.a.	EN 9110	n.a.	EN 9100	n.a.
Composite parts	EN 9100 *(1), *(3)	EN 9100 *(1), *(3)	n.a.	n.a.	EN 9110	n.a.	EN 9100	n.a.
Outsourced parts (BUW)	n.a.	ISO 9001	n.a.	n.a.	EN 9110	n.a.	EN 9100	n.a.
Special processes	Nadcap *(2)	Nadcap *(2)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Assembly	EN 9100 *(1), *(3)	EN 9100 *(1), *(3)	n.a.	n.a.	Part 145	n.a.	EN 9100	n.a.
Raw material	ISO 9001	n.a.	EN 9120	n.a.	n.a.	n.a.	n.a.	n.a.
Auxiliary goods	ISO 9001	ISO 9001	EN 9120	n.a.	n.a.	n.a.	n.a.	n.a.
Calibration	n.a.	n.a.	n.a.	ISO 17025	n.a.	n.a.	n.a.	n.a.
Testing	n.a.	n.a.	n.a.	n.a.	n.a.	ISO 10012-1	n.a.	n.a.
Engineering	n.a.	EN 9100	n.a.	n.a.	n.a.	n.a.	EN 9100	n.a.
Tooling	ISO 9001	n.a.	n.a.	n.a.	ISO 9001	n.a.	EN 9100	n.a.
NPR	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

^{*(1)} In case of military programs and required by the Customer AQAP 2110 (110) or AQAP 2120 (120) is applicable.

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^{*(2)} In case of Customer or GKN Fokker specific Special Processes resp. Customer or GKN Fokker qualification is required.

^{*(3)} In case of Special Products programs without Customer requirements or GKN Fokker requirements ISO 9001 is required.





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A Safety Management System (SMS) must be integrated into the Supplier's management system. This requirement is mandatory for organizations delivering to GKN Fokker Aerospace with an EASA Form 1, and optional for all other organizations. The SMS must adhere to the framework and applicability outlined in ICAO Annex 19 SMS Standards and Recommended Practices (SARPs).

Within 10 calendar days after its occurrence, the Supplier shall notify GKN Fokker in writing of:

- 1. Any adverse change in its Quality Management System resulting in loss of Third Party registrar's certification status.
- 2. Any adverse action taken by the Supplier's customer, the Government, the Federal Aviation Agency (FAA), or the Civil Aviation Agency (CAA).
- 3. Any change in the Supplier's quality organization, process or procedures that affect conformity verification of the Products or any part thereof.

The Supplier shall notify GKN Fokker in writing, at least 90 calendar days in advance, of any sale, relocation, or transfer of the Suppliers manufacturing operations.

The Supplier shall check, verify and control the correct implementation of any of his tasks, actions, processes and operations required to manufacture the Products and/or Services in conformity with the requirements of the Contract and shall assume the complete responsibility therefore. GKN Fokker shall have the right to audit, verify and control the Supplier with regard to any quality aspect. However, this shall not reduce or limit any obligation or liability of Supplier. For this purpose, the Supplier shall take adequate measures to provide GKN Fokker with access to all information and facilities where work under any Purchase Order is performed.

Audit verification and control by GKN Fokker shall not be used as evidence of effective quality control by the Supplier nor shall it preclude subsequent rejection.

3.2 Required documents

In case the Supplier is approved by the National Aviation Authority (NAA), the Supplier shall deliver the Products with an Authorized Release Certificate / Airworthiness Approval Tag (i.e. FAA Form 8130-3 or EASA Form 1). Upon GKN Fokker's request, the Supplier shall provide satisfactory proof of Approval by the National Aviation Authority (NAA) as indicated above.

Each Certificate of Conformity (CoC) shall be based on objective evidence (a.o. measuring and/or test reports), demonstrating and stating full compliance with the requirements of the Contract. On GKN Fokker's request, applicable objective evidence shall be available to GKN Fokker within 48 hours after becoming available to the Supplier.

The original CoC must be packed and supplied together with the Products and it shall always indicate the Supplier's name, the corresponding lot number and, if applicable, reference to non-conformities.

Depending on Supplier status and Quality Management System certification, different types of certificates are required in Table II.

Table II:

	EN 9100	ISO 9001	EN 9120
Manufacturer Bought out and	CoC	CoC	
Standard parts			
Manufacturer Raw materials	CoC + test report	CoC + test report	
Subcontractor Machining	CoC	CoC	
Subcontractor Special	CoC + test report	CoC + test report	
processes			
Distributor Standard parts	CoC + CoC OEM*	CoC + CoC OEM*	CoC
Distributor Chemicals	CoC + CoC OEM* + test report	CoC + CoC OEM* + test report	CoC + CoC OEM* + test report
Distributor Raw materials	CoC + CoC OEM* + test report	CoC + CoC OEM* + test report	CoC + CoC OEM* + test report
Agent	CoC + CoC OEM*	CoC + CoC OEM*	

Unless indicated otherwise for each Program Agreement, the Supplier shall provide all records,

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recommendations given by the NQAA and/or NQAR.

reports, specifications, drawings, designs, inspection and test results in the English language.

3.3 Airworthiness and National Quality Assurance Authorities (NQAA)

The Supplier shall make arrangements that allow the National Quality Assurance Authorities (NQAA) and / or National Quality Assurance Representatives (NQAR) to make investigations, necessary to determine compliance of the Products and/or Services and processes with requirements of the Contract. The investigations may include; audits, enquiries, questions, discussions and explanations, monitoring, witnessing, inspections and checks. The arrangements shall give positive assistance to the NQAA and/or NQAR. The Supplier shall cooperate in performing the investigation by giving full, free and unconditional access to the Supplier's information and facilities and the Supplier shall implement at its cost and forthwith any

Supplier's failure to implement NQAA or NQAR recommendations within the agreed time frame, constitutes a material default which allows GKN Fokker to terminate the Program Agreement and any Purchase Order.

3.4 Quality record retention

The Supplier shall retain Quality Assurance and Quality Control records, manufacturing data, drawings (engineering, tooling) and maintain a system with the ability to recall these records at GKN Fokker's request.

Additionally, distributors shall assure that its manufacturers maintain quality assurance / manufacturing / inspection records and that these records are also available at GKN Fokker's request. Unless indicated otherwise for each Program Agreement, quality record retention period shall be ten (10) years following termination of the Program Agreement.

Data considered essential for continuing airworthiness (Identifiable part) will be kept throughout the operational life of the Products, parts or appliances.

The Supplier's Quality Assurance and Quality Control records shall be available for evaluation by GKN Fokker during the quality record retention period.

Prior to disposal of any Quality Assurance and Quality Control records, Supplier must notify GKN Fokker and GKN Fokker may choose to have such records transmitted to GKN Fokker at cost of the Supplier.

3.5 Digital Product Definition (DPD)

In case (3D) CATIA data is used for production of parts, for each Program, the Supplier shall comply with the Digital Product Definition (DPD) requirements of GKN Fokker and/or its Customer. If and to the extent required, the Supplier accepts the interchange of its product definition with GKN Fokker and its Customer and to improve quality of the Products and its underlying processes. Both GKN Fokker and its Customer are entitled to review the Supplier's Digital Product Definition system and its configuration system.

The Supplier must document and implement their DPD procedures in accordance with the requirements defined in this Annex B.

The Supplier must ensure the unambiguous identification and integrity of all Digital Product Definition Data and Digital Production Documentation Data used in their organization, received from, or sent to their sub-tier Supplier(s) for production and inspection.

To ensure adequate control of Digital Product Definition Data and Digital Production Documentation Data the supplier may be periodically audited by GKN Fokker with respect to data processing and storage as defined in this Annex B or any other referenced requirement of the Contract.

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4 Advanced Product Quality Planning (APQP)

GKN Fokker strives for zero defects and has therefor adopted Advanced Product Quality Planning (APQP) according EN 9145 to assure product and process quality.

At GKN Fokker's request, the Supplier shall apply APQP as well. Detailed scope and extent shall be defined between Supplier and the Supplier Quality Engineer of GKN Fokker.

5 First Article Inspection (FAI)

The Supplier shall inform GKN Fokker at least two (2) weeks in advance, when the First Article Inspection (FAI) takes place at source.

The Supplier's First Article Inspection procedure shall comply with latest revision of the EN 9102.

In case GKN Fokker decides not to attend the First Article Inspection, the Supplier shall submit the results of the First Article Inspection for GKN Fokker's approval within one week after completion of the First Article Inspection. The Supplier is only authorized to commence serial production runs after receipt of GKN Fokker's written approval.

First Article Inspection, or the absence thereof, shall not reduce or exclude any obligation or liability of the Supplier pursuant to the requirements of the Contract including those specified in this Annex B and Appendix I of each Program Agreement.

When the interval between two production lots of the same Product exceeds a period of 24 months or when the Specification of the Product as enclosed in Appendix A to each Program Agreement has changed, the Product shall be deemed a "new part" and a renewed complete First Article Inspection must be held.

After the completed FAI process, the Supplier shall share objective evidence for the next four (4) deliveries. All FAI documentation shall be submitted via the Tradeshift portal.

At GKN Fokker's request, the Supplier shall execute a Last Article Inspection (LAI). The scope of this LAI shall be provided by the Supplier Quality Engineer of GKN Fokker.

Each Party to the Program Agreement bears its own costs in connection with First Article Inspection(s) or Last Article Inspection(s).

For more details see:

GKN Fokker website with FAI requirements

6 Delegated Source Inspection

In case the Supplier is granted Delegated Source Inspection on behalf of GKN Fokker, the Supplier has to execute this as prescribed in the Quality Management System of GKN Fokker. The requirements for Delegated Source Inspection are provided by the Supplier Quality Engineer og GKN Fokker.

7 Configuration management and deviations management

7.1 Configuration management

The Supplier must check (airworthiness) data such as drawings, specifications and other technical information relevant to the Product and its production processes, with the Purchase Order. In case data is missing and in order to assure that Supplier receives updates (if applicable), Supplier needs to request access to the relevant data via Tradeshift.

This check shall be performed prior to commencement of the production and/or start of a process to identify differences between the actual configuration and the agreed configuration, including identification of the product status with respect to monitoring and measurement requirements.

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Where no specific revision of (or deviation to) the Specification is mentioned on the Purchase Order, the Product shall comply with the latest revision of the Specification as mentioned on the Purchase Order.

Latest version of the specifications and other technical information must be verified in the Tradeshift portal.

7.2 Deviations after release by Supplier

The Supplier shall inform GKN Fokker in writing as soon as practicable and in any case not later than 72 hours in all situations where the Product or parts thereof have been released and where they were subsequently found to have deviations from the Specifications as enclosed in Appendix I to each Program Agreement.

Any Product released by the Supplier that is subsequently determined as to be (potentially) nonconforming shall be handled as a Supplier Escape. The Notification of Escape shall be reported to GKN Fokker in accordance with SAE AS9131.

The initial notification is to be followed by a complete report within 72 hours.

7.3 Deviations before release by Supplier

The Supplier shall inform GKN Fokker forthwith in writing in all situations where the Product or parts thereof before release deviates from the Specifications as enclosed in Appendix I to each Program Agreement in the Product or parts.

GKN Fokker shall handle the non-conformity as a Supplier Tag in accordance with EN 9131. GKN Fokker shall provide a disposition to the Supplier.

7.4 Products or Materials supplied by GKN Fokker to Supplier (extended work bench)

In case GKN Fokker provides Supplier with (semi-finished) Products and/or raw materials to process in the Suppliers Products, the Supplier shall inform GKN Fokker forthwith in writing in all situations at receipt of the (semi-finished) Products and/or raw materials in case of deviations to Specifications as enclosed in Appendix I to each Program Agreement.

All information submitted by GKN Fokker, like drawings, production orders, travelers, shall be returned to GKN Fokker with the delivered Products.

Scrapped Products shall be returned to GKN Fokker, labeled and separately packed from the rest of the delivered Products.

Remaining raw material shall be returned to GKN Fokker with the delivered Products.

7.5 Statistical Process Control (SPC)

At GKN Fokker's request, the Supplier shall implement and maintain a documented system to measure and control key characteristics of its manufacturing process based on AS/EN9103 and ISO9004.

Detailed requirements and definition of key characteristics for each Program may be appended in Appendix I to each Program Agreement.

7.6 | Foreign Object Debris / Damage (FOD)

The Supplier shall maintain good housekeeping and demonstrate the presence of a Foreign Object Debris / Damage (FOD) prevention program that complies with AS9146. The prevention program must preclude introduction of foreign objects into the Product or any material or part thereof. The Supplier shall employ appropriate housekeeping practices to assure timely removal of residue / debris / scrap generated during its manufacturing operations or tasks. The Supplier shall determine

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if sensitive areas that have a high probability for introduction of foreign objects, should have special emphasis controls in place for the manufacturing environment. 7.7 **Supplier Controlled Action Report (SCAR)** The Supplier Quality Engineer of GKN Fokker can initiate a Supplier Controlled Action Report (SCAR) to improve the Suppliers quality performance. A SCAR requires the Supplier to find the root cause of a quality issue and to determine, implement and verify structural solutions in procedures and (quality) systems to prevent reoccurrence. The Supplier is to execute the SCAR in a structured manner by applying an industry common Best Available Practice as 8D, 4M and/or 5W. Initial reply on a SCAR by Supplier for a major finding is within 12 calendar days, for a minor finding within 30 calendar days. Shelf life 8 If the Product or parts thereof have a limited shelf life, the Supplier shall deliver the Product in a new condition whilst indicating the date of manufacture and the expiry date. Unless agreed otherwise in writing, all Products shall be unused and new at the moment of delivery. Notwithstanding anything else to the contrary, the warranty period as defined in Section 11 of the Long Term Agreement, starts after acceptance of the Products by GKN Fokker. 9 **Environmental requirements** Supplier shall implement an environmental management system to manage the environmental issues related to its activities. For all deliveries, Supplier shall give necessary information as per REACH regulation. The Safety Data Sheet (SDS) needs to be provided in the Dutch language. 10 ITAR / EAR "Export Controlled - License Required" refers to material and information, which is controlled by either the International Traffic in Arms Regulations (ITAR) or the Export Administration Regulation (EAR) in the U.S. The "License Required" means that under the applicable regulation, the material / information must be licensed for it to be exported outside the U.S. 11 Subcontracting The use of sub-tier Suppliers is allowed only with GKN Fokker's Procurement written permission. Where applicable, Supplier shall flow down to sub-tier Suppliers all applicable requirements in GKN Fokker purchasing documents, including required key characteristics and this SQAR document. 12 Counterfeit parts detection and avoidance system requirements Supplier shall implement a counterfeit parts detection and avoidance system consistent with the requirements of the latest dated version of one or both of the following SAE standards: AS5553 (Counterfeit Electrical, Electronic, and Electromechanical (EEE) Parts) AS6174 (Counterfeit Materiel; assuring acquisition of authentic and conforming materiel)