

GKN SC Supplier Quality Notes, Age Control

SC-Q04

Supplier shall establish and maintain a Foreign Object Debris/ Damage (FOD) prevention program in accordance AS9146 "Foreign Object Damage (FOD) Prevention Program- Requirements for Aviation, Space, and Defense Organizations".

SC-Q06

For distributors only: The supplier shall maintain certification obtained from an accredited certification body to AS/EN/JISQ 9120 or AS/EN/JISQ 9100.

The supplier shall implement and maintain a quality and inspection system acceptable to GKN, and to control product and process quality that meets the latest revision of GKN's Q-Notes as specified in the purchase order. The system shall include a company-wide process that fosters continuous quality improvement in compliance with AS9120 or AS9100, and, as applicable, Boeing D6-82479 of the latest revision at the date of the purchase order.

SC-Q07

Calibration

The supplier shall maintain a documented calibration system for the calibration and maintenance of tools, jigs, inspection and test equipment, and that is compliant with ISO 17025, ISO10012-1, ANSI Z540 or MIL-STD-45662. *Calibration service providers shall be accredited to ISO 17025 by A2LA, ANAB, ILAC or equivalent, unless the provider is an OEM of the equipment being calibrated, or a calibration provider officially authorized by the OEM.*

G-Q01.02

The supplier is responsible to implement a process by which all requirements of the purchase order are reviewed and understood prior to its acceptance, as well as being responsible for providing the necessary resources to deliver the products that meet all the requirements of the purchase order.

G-Q01.03

The supplier shall maintain certification obtained from an accredited certification body to AS/EN/JISQ 9100C or to the latest revision after September 15, 2018.

G-Q01.04

The supplier is responsible to implement a process in his Quality Management System (QMS) by which all requirements of this purchase order are reviewed prior to its acceptance, and that all quality requirements are incorporated into the manufacturing planning, inspection and test instructions, as applicable, to assure PO compliance. The supplier shall retain evidence of such reviews. The supplier is reminded to be certain that the current revision of each requirement is referenced, unless otherwise specified by GKN-Q01.05

G-Q01.05

The supplier shall promptly notify GKN, in writing, of changes in the supplier's name, ownership, or management representative with assigned authority and responsibility for the supplier's quality system; of any change in the QMS which may affect the inspection, conformity, or airworthiness of the product; of any action taken against the seller by another of its customers, or by any government agency; or any change in the supplier's manufacturing facility location.

G-Q01.06

The supplier shall maintain an English language translation of:

- (1) Its quality manual
- (2) Operating instructions that implement the quality manual requirements
- (3) Records, reports, specifications, drawings, inspections, test results, documentation, and an index of other supplier procedures that contain quality requirements.

GKN may require additional documentation to be translated, including, but not limited to stop purchase orders, technical specifications, certificates, reports & non-conformance documents.

G-Q01.15

The supplier shall implement and maintain a quality and inspection system acceptable to GKN, and to control product and process quality that meets the latest revision of GKN's Q-Notes as specified in the purchase order. The system shall include a companywide process that fosters continuous quality improvement in compliance with AS9100C or to the latest revision after **September 15, 2018**, and, as applicable, Boeing D6-82479 of the latest revision at the date of the purchase order. Honda orders must comply where applicable to Mil Q 9858/A, Mil I 42208

G-Q01.16

Supplier is required to flow down any and all pertinent portions of any GKN contract to all sub-tier supplier performing to the requirements of any GKN contract.

With the exception of standard hardware, the use of customer approved processors and customer approved raw material, Supplier does not have approval to move or subcontract any portion of any GKN contract without the written consent and approval of GKN.

GKN will not permit the use of any supplier or supplier sub-tier that does not have an accredited certification by either AS9100 and/or NADCA

G-Q01.17

Supplier shall inspect, or otherwise verify that all products, including those components purchased from or furnished by subcontractors, suppliers, or GKN, comply with the requirements of the purchase order prior to shipment to GKN. Supplier shall be responsible for all tests and inspections of the product during receiving, manufacturing, and final inspection. Supplier agrees to furnish copies of tests and/or control data upon request from GKN.

G-Q01.20

Supplier shall notify GKN when:

Supplier or supplier's sub-tiers are found to be non-compliant to GKN's specifications.

Supplier's sub-tier is found to be disapproved by supplier.

Supplier or supplier's sub-tiers are disapproved by a government agency

Government/Industry Data Exchange Program (GIDEP) alert is required or received affecting buyer items.

G-Q02.02

The supplier shall forward a copy of their Quality Management Systems certifications to GKN.

G-Q02.13

Boeing Commercial: Items on this purchase order are for Boeing aircraft end use, and shall comply with all Boeing engineering, manufacturing & procurement requirements, including the D-590, [Form X31764](#) "Quality Purchasing Data Requirements (BCA) and [D1-4426](#) specifications at the time of manufacture/procurement.

G-Q03.03

Suppliers shall purchase raw materials and standard hardware from prime customer-approved sources, e.g. [D1-4426](#), ASPL, or other approval listing, Material that will be produced / procured outside the USA will always require customer approved sources. Foreign supplied materials are prohibited on military aircraft.

G-Q03.04

All special processes required by this purchase order shall be performed by sources that are approved by the prime customer.

Refer to the respective customer web sites to find their special process requirements.

Boeing (BCA): [Boeing - Approved Process Sources - D1-4426](#)

Honda: [ASL020818](#)

G-Q03.05

For the current revision of the specification applicable to this purchase order, see Master Specification Listing available at:
[Quality Information - GKN Aerospace](#)

G-Q03.11

A counterfeit parts prevention program shall be in place that is structured to ensure against the receipt of such parts into the supplier's inventory, against their use in manufacturing, and against their being sold to other suppliers. This program shall be similar to, and meet the intent of **SAE AS6174**

G-Q05.01

The supplier is responsible to maintain control of the latest revision of models, blueprints, parts lists, inspection media, operation sheets, specifications, and other such documents as specified in this purchase order.

G-Q05.02

The supplier is responsible to destroy all obsolete blueprints, parts list, inspection media, specifications and other such proprietary documents. GKN supplied equipment shall not be destroyed without written approval from GK

G-Q06.01

During the performance of this purchase order, GKN, its customer and/or regulatory agencies, have the right of entry to determine and verify product quality, records and material, including the right to audit the supplier's quality system at any location. The foregoing pertains equally to the supplier's sub-tiers. Supplier must coordinate any such entry with the GKN buyer.

Work under this PO is subject to GKN's periodic surveillance/audit of supplier's compliance with supplier's internal procedures and other documents applicable to this PO.

GKN's acceptance of such product does not absolve the supplier of the responsibility to provide acceptable product, nor does it preclude subsequent rejection by GKN, its customer or regulatory agencies.

G-Q06.04

At no additional cost to GKN, products may be subject to inspection, surveillance and test at reasonable times and places, including supplier's subcontractors' or suppliers' locations. GKN will perform inspections; surveillance and tests so as not to unduly delay the work. Supplier shall maintain an inspection system acceptable to GKN for the products purchased under any order.

If GKN performs an inspection or test on the premises of supplier, its subcontractors or supplier shall furnish and require its subcontractors or suppliers to furnish, without additional charge, reasonable facilities and assistance for the safe and convenient performance of these duties.

The supplier's documentation accompanying the shipment shall reflect evidence of these sections.

G-Q06.15

GKN's rights to perform inspections, surveillance and tests, and to review procedures, practices, processes and related documents related to quality assurance, quality control, flight safety, and configuration control shall extend to the customers of GKN that are departments, agencies or instrumentalities of the United States Government and the FAA, and to any successor agency or instrumentality of the United States Government. GKN may also, at their option, by prior written notice from the GKN's procurement representative, extend such rights to other customers of GKN, and to agencies or instrumentalities of other agencies equivalent in purpose to the FAA. The supplier shall cooperate with any such United States Government or GKN directed inspection, surveillance, test or review without additional charge to GKN. Nothing in any purchase order shall be interpreted to limit United States Government access to the supplier's facilities pursuant to law or regulation.

When the supplier is located in, or subcontracts with a supplier located in a country which does not have a bilateral airworthiness agreement with the United States, the supplier shall obtain and maintain on file, and require its affected subcontractor(s) to obtain and maintain on file, a letter from the applicable government where the product or subcontracted element is to be manufactured, stating that GKN, and the FAA shall be granted access to perform inspections, surveillance and tests and to review procedures, practices, processes and related documents related to quality assurance, quality control, flight safety, and configuration control. This letter is subject to review by GKN

G-Q07.03

Supplier shall include in its documented quality system written procedures for the control, maintenance, and calibration of special tooling, jigs, inspection and test equipment, and other devices used in manufacturing processes

G-Q08.01

All product labeling shall be identified per model/blueprint/specification and operation sheet requirements prior to delivery.

The following information listed below must be included

"Date of Manufacturing" in "MM/DD/YYYY" format. i.e. "01/01/2018".

"Expiration Date /Shelf Life"

"Lot" traceability number.

If applicable, "Serial Number".

For Spirit Aerosystems Parts:

See "Section 7" of "MAA1-10042-1 – Supplier Quality Assurance Manual" for product identification, traceability and part marking requirements.

G-Q08.03

Quality documentation shall be part number traceable from raw material through the planning, manufacturing, inspection, processing, testing, etc. to assure records have integrity. Supplier must be able to demonstrate that all records are complete and accurate.

G-Q09.01

Copies of all material, processing, testing, chemical and physical analysis certifications, of the current revisions, shall accompany each shipment of parts as required by the blueprint or applicable specification.

[Quality Information - GKN Aerospace](#)

G-Q09.03

The supplier shall submit a Certificate of Compliance (C of C) asserting that the items contained within this shipment are in total compliance with the requirements of the purchase order, and summarizing all processes and tests performed to the applicable specification revisions, along with the name of each facility utilized. The supplier shall annotate in the delivery package any exceptions, e.g. variances.

The supplier shall include a copy of the C of C with the supplier's product shipper.

In addition, for Boeing (BAC) designed product only:

I.A.W. BAC Purchase Order Quality Clause "Q31".

This procurement is under Boeing's Federal Aviation Administration (FAA) issued Production Certificate

700 quality system supplier control program.

THE SELLER WILL PLACE THE FOLLOWING STATEMENT WITH ALL SHIPMENTS ON THE SHIPPER

AND OR C OF C:

"Seller hereby acknowledges that the parts and/or materials being shipped under this order are intended for use under Boeing's Federal Aviation Administration (FAA) issued Production Certificate 700 and no articles (or constituent parts thereof) or the accompanying paperwork (e.g., packages, shippers, etc.) contain any Federal Aviation Administration- Parts Manufacturer Approval (FAA-PMA) markings."

Attention: Boeing requires that the provisions/requirements set forth above be included in Seller's direct supply contracts as well as the obligation that they be flowed to the applicable sub-tier supply chain.

G-Q09.12

The supplier shall provide with all shipments the following evidence of acceptance by its quality

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assurance department: (a) Certified physical and metallurgical or mechanical test reports where required by controlling specifications, (b) A signed, dated statement on the packing sheet certifying that its quality assurance department has inspected the products and they adhere to all applicable drawings and/or specifications.

G-Q10.04

The supplier may use sampling plans provided they are justified on the basis of recognized statistical principles, appropriate for use, and IAW existing industry, military or government standards. Such plans must have applicable customer approval as specified as follows. For all cases the supplier's proposed sampling plan must have the approval of GKN before implementation.

Boeing Commercial: Supplier shall perform 100% inspection for in-process & final inspection, or conform to the requirements of AS9138, "Aerospace Series – Quality Management Systems Statistical Product Acceptance Requirements" The supplier must have BAC-approved procedures and/or plans, as required by this document, prior to the implementation of such methods. BAC reserves the right to conduct surveillance at the supplier's facility to access conformance to the requirements of this document.

G-Q10.05

If source inspection is required, it shall be coordinated with GKN prior to delivery. Authorization for shipment shall be provided by the GKN source Inspector's stamp on the supplier's packing list.

G-Q10.08

The inspection status of all products shall be clearly identified throughout the manufacturing process and upon delivery to GKN.

G-Q11.02

Inspection equipment utilized must have capability to attain a measurement of ten percent of the tolerance being inspected.

G-Q11.06

The supplier shall use the mandatory/required tooling provided by GKN, and designated as production type tooling for manufacturer, as supplier's media of inspection for GKN source inspections of those features created by, or depicted by, such tooling, e.g., contours, hole locations, and profiles.

Supplier shall periodically evaluate supplier manufactured and/or owned tooling that is used as a media of acceptance to it control media.

G-Q12.01

Supplier's quality system shall provide a means for maintaining accurate documentation of the inspection status at all times, for items to be delivered to, and during the shipment to GKN.

1. Supplier's inspection stamps shall be of a design distinctively different from those of GKN and GKN's customers.
2. Supplier's documented quality system shall provide a method for the control and issuance of inspection stamps, and for the prevention of unauthorized use of such stamps. If inspection status verification is done by using the signatures/initials of the verifier, the supplier shall have a documented procedure addressing how signatures/initials are distinguished and/or controlled. The use of signature/initials are prohibited for non-destructive testing verification. Upon request by GKN, supplier's procedure for accomplishing the above shall be available for review.

G-Q13.01

The supplier shall implement and maintain a documented QMS that provides for the identification, documentation, and disposition of nonconforming material. The supplier shall ensure that effective corrective action is taken (including repetitive non-conformances dispositioned "Use-As-Is" or "Repair" by Material Review Board ["MRB"] actions) to prevent, minimize, or eliminate non-conformances. The supplier's QMS shall ensure that non-conforming material is not used for production purposes, or for unintended use.

The supplier shall maintain records of all nonconforming material, dispositions, assignable causes, corrective actions, and effectiveness of corrective actions for the period specified in the applicable Quality Notes.

The supplier shall respond to all GKN's requests for corrective action. When so requested, the supplier shall provide trend data and findings for GKN rejected Items. The supplier shall identify root cause findings and corrective actions required to preclude recurrence by utilizing tools such as cause mapping, cause and effect analysis, Five Why's etc.

The supplier shall assess all GKN-identified non-conformances, whether or not Item(s) was/were returned to the supplier, and take appropriate actions to ensure causes of nonconformance are corrected.

G-Q13.03

The supplier shall provide written notification to GKN within one business day after a nonconformance is determined, or suspected, to exist on product already delivered to GKN under any GKN PO, with the following information provided to GKN:

1. Affected process or part number and name
2. Description of the problem (i.e., what it is and what it should be)
3. Quantity and dates delivered
4. Suspect/affected serial number(s) or date codes, when applicable.

If the nonconformity has been identified by GKN and communicated to the supplier using a nonconformance record, or other equivalent means, requesting a corrective action response, the supplier shall notify GKN if additional product has been found to be so affected.

G-Q13.04

The supplier shall implement a system of corrective action for discrepancies identified by the supplier, GKN, or GKN's customers. When GKN requests written corrective action, then the supplier shall document the cause of the discrepancy, the corrective action taken, the effective date of the corrective action, and submit this to GKN for review. GKN reserves the right to verify the effectiveness of the stated corrective action at the supplier's facility.

G-Q14.01

A Foreign Object Debris/Damage (FOD) prevention program is required to be in place, as described in NAS412.

G-Q15.01

All materials, parts, and age control products must be protected against damage and corrosion during delivery using sound standard packaging practices. Special packaging instructions, when required, will be as specified on the purchase order.

G-Q15.02

The supplier agrees to insure that materials utilized in the performance of this purchase order, whether furnished by GKN or by the supplier, shall be segregated and controlled to insure traceability and to prevent them from being intermingled with any other materials. In addition, the supplier shall strictly control all inventory of customer property that is in excess of the PO contract quantity, so as to prevent it from being sold or provided to any third party.

G-Q15.03

The supplier shall strictly control all inventory of customer property that is in excess of contract quantity in purchase order to prevent product from being sold or provided to any third party without prior written permission from the customer.

G-Q15.05

Supplier shall maintain controls to ensure that time & temperature sensitive (TATS), and age controlled materials shall not have exceeded 25% of their shelf life upon date of receipt at the supplier's facility. For Boeing Commercial work, they shall also meet the requirements of BSS7002. In addition, the supplier shall ensure that for age controlled materials, the shelf-life & environmental controls are properly identified.

G-Q16.02

Quality documentation records and certifications shall be maintained on file for a period of 1 Calendar Year + 10 Years from the date of shipment under each applicable order for all product/part numbers unless otherwise specified on the Purchase Order. After this period the supplier shall not destroy such records without the written approval of GKN.

G-Q17.01

Annually, at a minimum, the supplier shall conduct a self-audit to verify the effectiveness of his quality system and processes.

G-Q18.01

The supplier shall be responsible to provide trained personnel for the manufacture and inspection of products used to satisfy the requirements of this purchase order.

G-Q18.02

The supplier shall ensure that his personnel performing work to customer specifications which require certified persons, shall attain such certification prior to the performance of such work, (e.g., sealant installation per BAC 5000, NDT per NAS410, etc)

G-Q24.01

This order contains parts and directs the use of documents and technical data subject to the U.S. Arms Export Control Act (AECA), and the International Traffic in Arms Regulations (ITAR), enacted pursuant to such act. Any of the parts, documents, or data mentioned in these quality notes may not be transferred to any foreign person or entity in the United States, or to any person or entity abroad, nor shall such persons or entities have access to such documents and technical data except as authorized by the U.S. Department of State or the International Traffic in Arms Regulations (ITAR).

Record of Revision

Issue	Date	By	Details of change(s)
Original	3.25/2019		Formatted to match Palmetto Model reset rev level to original. Previous was Rev NC 7/18/2018