

**Q-notes (Rev AK)**



Rev. Level	Eff. Date	Changes
AJ	2/13/09	<p>Amended multiple "Q NOTES"</p> <p>"Q01.03" – Reworded item (3)</p> <p>"Q02.05" – Added "(1) Seller shall maintain an ISO..."</p> <p>"Q06.10" – Added "Seller shall establish...."</p> <p>"Q09.03" – Re-phrased entire paragraph.</p> <p>"Q11.05" - Re-phrased entire paragraph.</p> <p>"Q13.01" - Re-phrased entire paragraph.</p> <p>"Q20.02" – Removed</p> <p>New "Q NOTES" was created and added to flow down Lockheed Martin's Appendix "QX" and "QJ" requirements to all GKN – Monitor's subtiers and or vendors.</p> <p>New "Q NOTES" created: Q01.05, Q06.16, Q06.17 &amp; Q06.18</p>
AK	5/14/09	<p>Added "06.19" - Unless otherwise stated, this purchase order is in accordance with a Defense Priorities and Allocations System (DPAS) DO-A1 rating....</p>

**NOTE:** Additions are identified by an underline.  
Changes are identified by change lines in left border.

**Q01.01**

Supplier will be responsible to provide the necessary resources to deliver products that meet all GKN Aerospace and customer requirements in accordance with the purchase order requirements.

**Q01.02**

The supplier shall promptly notify GKN Aerospace of any changes in the management representative with assigned authority and responsibility for the supplier's quality system.

**Q01.03**

The supplier shall maintain an English language translation of: (1) Its quality manual, (2) the operating instructions that implement the quality manual requirements, (3) Records, reports, specifications, drawings, inspection and test results and other documentation in English An index of other supplier procedures that contain quality requirements. GKN Aerospace may require additional documentation to be translated, including, but not limited to: shop orders, technical specifications, certificates, reports & non-conformance documents.

**Q01.04**

The supplier shall immediately notify GKN Aerospace, in writing, of any change in the supplier's manufacturing facility location.

**Q01.05**

Seller shall notify Buyer, in writing, when any Buyer-identified key characteristic, interchangeable-replaceable features, fracture critical features, durability critical features, maintenance critical features, safety critical features, critical safety hardware/features, mission abort critical features, or Seller changes affecting fit, form or function are to be subcontracted.

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### Q02.01

Suppliers shall implement a Quality System to control product and process quality that meets the latest revision of GKN Aerospace's Q-notes as specified in this purchase order. The system should include a company wide process that fosters continuous quality improvement, and shall be compliant to ISO 9001:2000 and AS9100 latest revision in effect at the date of the purchase order.

### Q02.02

GKN Aerospace, reserves the right to audit the Supplier's Quality System and Products at any time.

### Q02.03

A Manufacturing Plan must be submitted to GKN Aerospace, for approval, prior to the completion of the FAI. The Manufacturing Plan shall address the sequence of manufacturing, processing and inspection operations that are required and shall include the identification of any sub-tier suppliers that will perform any manufacturing, controlled/special processing, or inspection.

### Q02.04

The requirements of Northrop Grumman SQAR (revision in effect at the time of Purchase Order) are applicable. The SQAR can be accessed on the NGIS web-site at [OASIS - Integrated Systems Quality Documents](#)

### Q02.05

All Joint Strike Fighter (JSF) suppliers must have a Quality Management System (QMS) in full compliance with ISO9001:2000. Suppliers must have a Quality Management System (QMS) in full compliance with AS/EN9100 no later than January 1, 2010. This requirement is applicable at **ALL** levels of your sub-tier suppliers who provide product or services ultimately used on the JSF Program.

(1) Seller shall maintain an ISO, AS or Military Standard equivalent quality system acceptable to Buyer. Third party registration ISO/AS/EN Quality Management Systems ("QMS") from an ANSI-ASQ National Accreditation Board ([www.anab.org](http://www.anab.org)) approved registrar is preferred. In the event (1) this PO is entered into on or after January 1, 2009, and (2) Seller was not in buyer's supplier database immediately prior to the date of this PO, then, through December 31, 2010, or until this PO is no longer in effect, whichever is sooner, Seller, at a minimum, shall have and maintain a quality system that is compliant with a currently published and maintained consensus industry standard quality system specification as is appropriate to Seller's activities. Provided this PO is still in effect as of January 1, 2011, Seller, effective as of January 1, 2011, shall have and maintain a quality system that is third party registered.

### Q02.06

A Quality Plan must be submitted to GKN Aerospace, for approval, prior to the completion of the FAI. The Quality Plan shall address all quality aspects related to this part that are not contained in the supplier's quality system.

### Q02.07

Work to be accomplished in performance of this purchase order is directly related to a Lockheed Martin Aeronautics Company purchase order and must be accomplished in accordance with the process specifications on this purchase order and the applicable parts of the Lockheed Martin

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Aeronautics Company Appendix QX (revision in effect at the time of Purchase Order). The Appendix can be accessed on the Lockheed Martin web-site at [Quality Appendices](#)

### Q02.08

The requirements of Vought SQAR (revision in effect at the time of Purchase Order) are applicable. The SQAR can be accessed on the Vought web-site at <http://www.vought.com/suppliers/>

### Q02.09

The requirements of IAI-CAG 9000 (revision in effect at the time of Purchase Order) are applicable. The document can be accessed on the IAI web-site at the [IAI Supplier Net](#).

### Q02.10

The requirements of QA-111 (revision in effect at the time of Purchase Order) are applicable. The document can be accessed on the BF Goodrich web-site at [material.goodrich.com](http://material.goodrich.com)

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### Q03.01

Supplier is responsible to implement a process by which all requirements herein are reviewed prior to acceptance of the purchase order.

### Q04.01

Any parts supplied by GKN Aerospace Monitor, Inc. are solely for the purpose of being processed and remain the property of GKN Aerospace Monitor, Inc.

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### Q05.01

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

### Q05.02

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

### Q05.03

Control of digital data received from GKN Aerospace that is used as authority for design, manufacture and/or inspection must comply with the requirements of [Boeing D6-51991](#).

### Q05.04

Control of digital data received from GKN Aerospace that is used as authority for design, manufacture and/or inspection must comply with the requirements of Northrop Grumman SQAR Supplement for the Control and Use of Digital Datasets ([OASIS - Integrated Systems Quality Documents](#)).

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### Q05.05

Control of digital data received from GKN Aerospace that is used as authority for design, manufacture and/or inspection must comply with the requirements of Lockheed Martin Appendix QX ([lockheedmartin.com](http://lockheedmartin.com)).

### Q05.06

Control of digital data received from GKN Aerospace that is used as authority for design, manufacture and/or inspection must comply with the requirements of Vought [SQR-004 Supplier Quality Requirements - Control and Use of Digital Datasets](#).

### Q05.07

Control of digital data received from GKN Aerospace that is used as authority for design, manufacture and/or inspection must comply with the requirements of IAI [DPD Procedure](#).

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### Q06.01

During the performance of this purchase order, GKN Aerospace, its customer, and/or regulatory agencies, have the right of entry to determine and verify product quality, records and material at any place, including the plant of the supplier.

GKN Aerospace'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 Aerospace's customer.

### Q06.02

The supplier shall include the right of entry provision in any of their subcontracts.

### Q06.03

All suppliers of special processes must be currently approved to do so by the [BFG/AG Qualified Supplier Document \(QSD\)](#) or the BFG/AG customer approval document.

### Q06.04

Purchase Order for Standard Hardware or assemblies that include Standard Hardware (i.e., BAC, AN, NAS, STM, MIL, etc.) are to be satisfied with material of the latest specification revision level in effect and must comply with all obsolescence / replacement criteria when applicable.

### Q06.05

Items on this Order are for Boeing aircraft use and must comply with all Boeing engineering requirements, including the D-590 and [D1-4426](#) specifications for the particular item(s) ordered at the time of manufacture/procurement.

### Q06.06

All suppliers must purchase raw materials from prime customer approved sources when applicable, i.e. [D1-4426](#), or other approval listing. Material produced / procured outside the USA always requires the use of customer approved sources.

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### Q06.07

All special processes required by the Purchase Order must be performed by sources that are approved by the prime customer, and to the latest revision of the applicable process specification. See [Master Specification Listing](#)

### Q06.08

BRITISH AEROSPACE ONLY - All parts, hardware and metals purchased for British Air must be purchased from BAe "AGREED" sources that must identify themselves on the packing/invoice slips. POs must state, "Supply in accordance with BAe/AG/QC/SC.1".

### Q06.09

All suppliers of special processes must be currently approved to do so by the [Northrop Grumman Qualified Supplier Document](#) (Oasis).

### Q06.10

Items on this Order are for Lockheed use and must comply with all Lockheed engineering requirements ordered at the time of manufacture/procurement Reference QCS-001. \*Seller shall establish and maintain controls to prevent the use of non-certified materials when certified materials are required.

### Q06.11

Items on this Order are for Bombardier use and must comply with all Bombardiers engineering requirements ordered at the time of manufacture/procurement including the use of [The Approved Supplier List](#).

### Q06.12

Items on this Order are for Raytheon use and must comply with all Raytheon engineering requirements ordered at the time of manufacture/procurement.

### Q06.13

Items on this Order are for Cessna use and must comply with all Cessna engineering requirements ordered at the time of manufacture/procurement.

### Q06.14

Items on this Order are for Gulfstream use and must comply with all Gulfstream engineering requirements ordered at the time of manufacture/procurement.

### Q06.15

Buyer'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 Buyer that are departments, agencies or instrumentalities of the United States Government and to the FAA and any successor agency or instrumentality of the United States Government. Buyer may also, at Buyer's option, by prior written notice from Buyer's Procurement Representative, extend such rights to other Customers of Buyer and to agencies or instrumentalities of other governments equivalent in purpose to the FAA. Supplier shall cooperate with any such United States Government or Buyer directed inspection, surveillance, test or review

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without additional charge to Buyer. Nothing in any Order shall be interpreted to limit United States Government access to Supplier's facilities pursuant to law or regulation.

Where Supplier is located in or subcontracts with a supplier or subcontractor located in a country which does not have a bilateral airworthiness agreement with the United States, Supplier will obtain and maintain on file and require its affected supplier(s) or subcontractor(s) to obtain and maintain on file, subject to review by Buyer, a letter from the applicable government where the Product or subcontracted element is to be manufactured stating that Buyer and the FAA will 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.

### Q06.16

For Northrop Grumman JSF, Lockheed Martin F22 and JSF programs, all raw material suppliers and or distributors must and shall be listed on "EMAP" (Engineering Materials & Approved Products) located on the Lockheed Martin external web page:  
<http://www.lockheedmartin.com/aeronautics/materialmanagement/>  
under "Engineering Materials Approved Products"

### Q06.17

No foreign supplied material is permitted to be used in military aircraft.

### Q06.18

For any Lockheed Martin product that requires special processes, the provisions of LMAC Quality Appendix QJ, as addressed by this statement, apply: "Processing to be accomplished in performance of this purchase order is directly related to a Lockheed Martin Aeronautics Company purchase order and must be accomplished in accordance with process specification(s) on this purchase order and the revision in effect as of the date of this PO of Lockheed Martin Aeronautics Company Appendix QJ. All requirements of such Appendix QJ paragraph 12. a. - f. shall be accomplished . Appendix QJ is located at "Quality Appendices | Lockheed Martin"

### Q06.19

Unless otherwise stated, this purchase order is in accordance with a Defense Priorities and Allocations System (DPAS) DO-A1 rating and is subject to all applicable U.S. Government regulations associated with this rating.

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### Q07.01

Supplier is responsible to maintain control of all GKN Aerospace supplied material, gauges and tooling. Any such material that is lost, damaged or otherwise unsuitable for use shall be immediately reported to the GKN Aerospace buyer.

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### Q08.01

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

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### Q08.02

When serialization and traceability is required, assigned serial numbers shall be maintained throughout all manufacturing cycles and shall be identified on both the parts and all documentation at time of shipment.

### Q09.01

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

### Q09.02

All material, processing, and test certifications must be to the latest revision of the applicable specification. See [Master Specification Listing](#)

### Q09.03

Supplier must 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 PO and summarizing all processes and tests performed to the applicable specification revisions along with the name of each facility utilized. Seller shall annotate in the delivery package any exceptions, e.g. variances, Supplier Quality Assurance Report ("SQAR"), Advanced Engineering Authorization ("AEA"), etc. Seller shall include a copy of the C of C with Seller's product shipper.

### Q09.04

This is a designated part (Ref.: D6-1276). A forging / manufacturing plan must be written per applicable specification, and shall be submitted to GKN Aerospace for Boeing approval prior to fabricating production forgings / machined parts. Certifications for first and subsequent lots of production forgings shall indicate the Boeing Approval Memo number for the particular forging part/dash number produced.

### Q09.05

This is a fracture/maintenance critical part. When Nondestructive testing (NDT) is required, the source performing such inspection must have a written NDT procedure that has been approved by Northrop Grumman. Certifications must indicate customer Approval Number.

### Q09.06

When NDT is required; the source performing such inspection must have a written NDT procedure that has been approved by Boeing St. Louis. This is applicable to F-15 parts only.

### Q09.07

Age controlled materials shall not have exceeded 25% of their expiration shelf life upon date of receipt.

### Q09.08

Items on this order are for Pratt & Whitney end use and are controlled per applicable Pratt & Whitney requirements as well as GKN Aerospace requirements.

### Q09.09

Items on this order are for Bombardier end use and must comply with all Bombardier engineering requirements to the latest revision including the EMCM for control of material.

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### Q09.10

This is a critical part. When Nondestructive testing (NDT) is required, the source performing such inspection must have a written NDT procedure that has been approved by Lockheed Martin. Certifications must indicate customer Approval Number.

### Q09.11

Items on this order are for Boeing aircraft end use. All manufacturing and/or procurement must comply with the requirements of the latest revision of [D1-4426](#) at the time of manufacture and/or procurement.

### Q09.12

Supplier shall provide with all shipments the following evidence of acceptance by its quality assurance department: (a) certified physical and metallurgical or mechanical test reports where required by controlling specifications, or (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.

### Q09.13

Items on this order are for IAI-CAG end use. All manufacturing and/or procurement must comply with the requirements of the latest revision of [IAI-CAG9000](#) at the time of manufacture and/or procurement.

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### Q10.01

Applicable on initial production part by supplier, a First Article Inspection (FAI) report is required for each dash number. The inspection report shall indicate the actual measurement obtained for each characteristic listed on the model, blueprint, parts list, and GKN Aerospace manufacturing instructions (when specified on the Purchase Order). When repetitive dimensions are inspected, (i.e. holes of the same size, web thickness of the same size, etc.) record actual measurement individually, and specify locations. A First Article is also required when a part has not been in production for a period of two years or longer. First Article Inspection shall be performed in accordance with AS9102.

### Q10.02

At GKN Aerospace's discretion, a GKN Aerospace source inspector will be present during the FAI. When source inspection is specified, the supplier shall provide at least 48 hours notice to GKN Aerospace of the date of performance of this FAI.

### Q10.03

An Amended FAI report is required for configuration changes, but only for the dimensions affected and shall conform to AS9102.

### Q10.04

Supplier may use sampling plans provided they are in accordance with the requirements of ARP9013.

### Q10.05

If source inspection is required, source inspection shall be coordinated with the buyer prior to delivery. Authorization for shipment shall be indicated by the GKN Aerospace Source Inspection Stamp on the supplier packing list or C of C.



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### Q10.06

If an Inspection Plan is required, it must be submitted to GKN Aerospace for approval, prior to the commencement of production. The Inspection Plan shall address the inspection operations that are required to verify all product characteristics and shall include the identification of all inspection methodologies being proposed for use.

### Q10.07

Supplier shall inspect or otherwise verify that all Products, including those components procured from or furnished by subcontractors or suppliers or Buyer, comply with the requirements of the Order prior to shipment to Buyer or Customer. Supplier shall be responsible for all tests and inspections of the Product during receiving, manufacture and Supplier's final inspection. Supplier agrees to furnish copies of test and/or control data upon request from Buyer's Procurement Representative.

### Q10.08

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

If Buyer performs an inspection or test on the premises of Supplier or its subcontractors or suppliers, 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.

Supplier's documentation accompanying the shipment must reflect evidence of this inspection.

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### Q11.01

For all close tolerance characteristics (.0015" or less), GO and NO GO gauging techniques are not acceptable.

### Q11.02

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

### Q11.05

Seller shall maintain a documented calibration system for the calibration and maintenance of tools, jigs, inspection and test equipment. Seller shall have and maintain a calibration stem that is compliant to prevailing industry requirements in accordance with ISO 17025, ISO10012-1, ANSI Z540 or MIL-STD-45662.

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### Q12.01

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

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### Q13.01

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

Seller 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.

Seller shall respond to all Buyer requests for corrective action. When requested by Buyer, Seller shall provide trend data and findings for Buyer rejected Items. Seller shall identify true root cause findings and corrective action(s) to preclude recurrence by utilizing tools such as cause mapping, cause and effect analysis, Five Why's etc.

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

### Q13.02

Supplier shall report nonconforming material to GKN Aerospace using a [VMRR form number WI-06-01-02](#). Non-conforming material shall not be shipped without GKN Aerospace Quality Assurance approval. GKN Aerospace reserves the right to disposition nonconforming material as scrap without submitting product for customer MRB. VMRR forms are available from the buyer.

### Q13.03

Supplier shall provide written notification to Buyer within one business day when a nonconformance is determined to exist, or is suspected to exist, on Product already delivered to Buyer under any Order and the following is known:

- A. Affected process or Product number and name
- B. Description of the problem (i.e., what it is and what it should be);
- C. Quantity and dates delivered
- D. Suspect/affected serial number(s) or date codes, when applicable.

The Supplier shall notify the Buyer Procurement Representative and the Buyer Procurement Quality Assurance Field Representative for the Buyer location where the Product was delivered.

If the nonconforming condition has been previously identified by Buyer, using a Nonconformance Record or other equivalent means and requesting a corrective action response, the Supplier shall notify the Buyer investigator identified on the corrective action request that additional Product is affected.

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### Q14.01

Supplier shall implement a system of corrective action for discrepancies identified by the supplier, GKN Aerospace or GKN Aerospace's customers. When GKN Aerospace requests written corrective action, then the supplier shall document the cause of the discrepancy, the corrective action taken and

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effective date of the corrective action and submit to GKN Aerospace for review. GKN Aerospace reserves the right to verify the effectiveness of the stated corrective action at the supplier's facility.

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### 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.

### Q15.02

Supplier agrees to insure that materials utilized in the performance of this order, whether furnished by GKN Aerospace or by the supplier, will be segregated and controlled to insure traceability and prevent them from being intermingled with any other materials.

### Q15.03

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

### Q15.04

For orders supporting Lockheed Martin programs, clause Q4R, Foreign Object Debris/Damage (FOD) Prevention is applicable to the order. The clause can be found at <http://www.lockheedmartin.com/aeronautics/materialmanagement/quality/Clauses.html>

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### Q16.01

Quality documentation records and certifications must be maintained on file for a period of four years after final payment of this purchase order. After this period, Supplier shall not destroy such records without the written approval of GKN Aerospace.

### Q16.02

Quality documentation records and certifications must be maintained on file for a period of seven years after final payment of this purchase order. After this period, Supplier shall not destroy such records without the written approval of GKN Aerospace.

### Q16.03

Quality documentation records and certifications must be maintained on file for a period of ten years after final payment of this purchase order. After this period, Supplier shall not destroy such records without the written approval of GKN Aerospace.

### Q16.04

Quality documentation records and certifications must be maintained on file for a period of thirteen

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years after final payment of this purchase order. After this period, Supplier shall not destroy such records without the written approval of GKN Aerospace.

### Q16.05

Quality documentation records and certifications must be maintained on file for a period of forty years after final payment of this purchase order. After this period, Supplier shall not destroy such records without the written approval of GKN Aerospace.

### Q16.06

Quality documentation records and certifications must be maintained on file for the service life of the aircraft. After this time period, Supplier shall not destroy such records without the written approval of GKN Aerospace.

### Q16.07

Quality documentation records and certifications must be maintained on file for an indefinite period. Supplier shall not destroy such records without the written approval of GKN Aerospace.

### Q16.08

For Orders supporting Buyer, Supplier shall maintain, on file at the supplier's facility, Quality records traceable to the conformance of product/part numbers delivered to Buyer. Supplier shall make such records available to regulatory authorities and Buyer's authorized representatives. Supplier shall retain such records for a period as specified in the purchase order under each applicable order for all product/part numbers including all records related to the current first article inspection (FAI) of the last Product covered by the FAI.

At the expiration of such period, Buyer reserves the right to request delivery of such records. In the event Buyer chooses to exercise this right, Supplier shall promptly deliver such records to Buyer at no additional cost on media agreed to by both parties.

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### Q17.01

Supplier shall implement a system of self-audits to verify the effectiveness of the supplier's quality system and processes. These audits shall be conducted once a year at a minimum.

### Q17.02

Once a year, the supplier shall complete a self-audit of their CAD/CAM control system using the GKN Aerospace checklist for Digital Data.

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### Q18.01

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

### Q18.02

Supplier must ensure that all supplier personnel performing work to customer specifications that require the use of certified personnel attain such certifications prior to the performance of work to those specifications. (i.e. sealant installation per BAC 5000). The requirements for certification are defined in BSS 7600.

## Q20.01

If a key characteristic is required by engineering documents or the GKN Aerospace Vendor Operation sheet, the following requirements apply:

**All key characteristics shall be placed under statistical process control.**

If the supplier does not have the ability to perform as stated above, contact the GKN Aerospace buyer immediately, prior to continuing with purchase order requirements.

At any time, the supplier may request assistance from GKN Aerospace when conducting S.P.C. and A.Q.S. (Advanced Quality System) activities. Contact the GKN Aerospace buyer.

**Documentation requirements per key characteristic:**

Documents required for each key characteristic shall be 1x-MR chart or X bar-R chart.

If 21 or more parts are listed on the control charts, then upper and lower control limits along with a CPK reading shall be indicated on the control chart.

All charts will be identified with the date, part number, dash number, and the key characteristics.

The documentation above will be in addition to all other documentation required by the purchase order and engineering requirements.

## Q20.03

AS 9103, "Variation Management of Key Characteristics" may be used for guidance in the implementation of Q20.01.

## Q20.04

On Boeing Drawings when Determinant Assembly (DA) characteristics are identified, the supplier shall certify that all DA characteristics have been inspected and meet the drawing requirements. When specified on the purchase order, the supplier shall provide an inspection report that records variable data for these characteristics for the number of parts, lots etc. as specified on the purchase order.

## Q21.01

In compliance with Environmental Protection Agency (EPA) Regulations, GKN Aerospace Monitor, Inc. requires that all suppliers submit a yearly letter of disclosure stating whether or not ozone-depleting substances have been used in the performance of our Purchase Orders. This must be accomplished with either a positive or a negative statement to this effect, and any positive statement must name the substance(s) used, as well as the specific item(s) they were used to manufacture.

## Q22.01

Monitor, Inc. requires its parts to be etch cleaned only when it is required by the processing specification. Monitor, Inc. parts supplied to your facility for processing have surfaces that have been polished and/or

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blended, and where this is a concern, are considered by most processing specifications as surfaces that have "smeared metal." If a process specification contains etch cleaning requirements on parts having such surfaces (see each individual specification for its definition of "smeared metal"), Monitor expects its parts to be etch cleaned.

Monitor Inc. process instructions assume parts will be etch cleaned and will note on the process order if any holes or surfaces require masking prior to etch cleaning or will state on the process order, "Do not use etch methods to clean."

### Q23.01

Regarding all parts within the group of parts known as the "787 Seat Track Program," see the Monitor website page containing the link called "787 Seat Track Program." (See Master Specification Listing.) This link shows each part and its drawing number. The drawing and revision that is expected to be used for processing location information is listed on these pages. This page will be updated as part of the MSL update schedule. One way of discerning which parts belong to the Seat Track Program is to look at the first two numbers of the job number. If it begins with 41, 46 or 47, it is part of the Seat Track Program.

### Q24.01

This order contains parts and directs the use of documents and technical data subject to the U.S. Arms Export Control Act and the International Traffic in Arms Regulations enacted pursuant to such act. Any of the aforementioned parts/documents/data may not be transferred to any foreign person or entity in the United States or abroad 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).