



Quality Management System

6.1 Quality Q-Codes

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6.1 Quality Q-Codes

Quality Clauses

The following quality control clauses apply when specifically noted on the Intra Aerospace purchase order:

Q1- Material Certifications: A Material certificate shall be provided with each shipment of material. Certificate must be complete, legible, reproducible and authentic. The specification with the latest revision and the name and title of the authorized representative shall appear on the certificate and shall bear the person's signature and the date.

Q2- Material Certifications: Chemical Test Reports. Chemical test reports shall be provided with each shipment of material. Certifications must be complete, legible, reproducible and authentic. The specification with the latest revision and the name and title of the authorized representative shall appear on the certification and shall bear the person's signature and the date.

Q3- Material Certification: Mechanical Test Reports. Mechanical and Physical Test reports shall be provided with each shipment of material. Certifications must be complete, legible, reproducible and authentic. The specification with the latest revision and the name and title of the authorized representative shall appear on the certification and shall bear the person's signature and the date.

Q4- Process Certification: Each process performed shall include a certification with shipment. Certifications must be complete, legible, reproducible and authentic. The specification with the latest revision and the name and title of the authorized representative shall appear on the certification and shall bear the person's signature and the date.

Process certifications must contain specific process information as listed on the Purchase Order, Drawings and Specifications used to complete the process such as, **Dates, Times and Temperatures, Plating Thickness, Shot Size and Intensity, Qualification Level of Personnel performing tests (Level II / Level III), Test Results, Part Number and Revision, Serial Numbers** and any other information required to complete the certification.

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Q5- Approved Sources: Only sources approved by Intra Aerospace or Intra Aerospace's Customers can be used. Contact the Intra Aerospace. Buyer regarding any questions or approvals.

Q6- First Article Inspection: Upon first initial production or any subsequent change to the product or tooling used to produce the product, the Supplier shall perform and document a comprehensive inspection and test to verify compliance to purchase order and specification requirements. The first article part will be tagged and identified as "F.A.I. Part" for shipment to Intra Aerospace.

The Suppliers first article inspection report shall contain the following minimum information:

- a) Part Number
- b) Part Name
- c) Drawing Revision
- d) Supplier Name and Address
- e) The Intra Aerospace Purchase Order
- f) The Intra Aerospace Job and Lot Number
- g) The Lot Quantity from which the F.A.I. part was selected
- h) The Inspectors printed name, signature (and stamp if used)
- i) All drawing characteristics with their tolerances
- j) All actual dimensions measured
- k) F.A.I. results (Accepted / Rejected)
- l) Serial Number (s) if applicable
- m) Trace ability to Acceptance Test Procedures (if applicable)
- n) Trace ability to Test Equipment (if applicable)
- o) All drawing notes and material requirements

Note: A CMM report will be accepted when annotations are made to comply with requirements (a) thru (n) herein.

Note: The Supplier F.A.I. package will include copies of the F.A.I. Report and all applicable Certifications and Test Reports.

Q7- Final Inspection: Each shipment of product or articles shall include a copy of the Suppliers Final Inspection Report.

The Suppliers final inspection report shall contain the following minimum information:

- a) Part Number
- b) Part Name
- c) Drawing Revision
- d) Supplier Name and Address
- e) The Intra Aerospace Purchase Order
- f) The Intra Aerospace Job and Lot Number



- g) The lot quantity / qty. inspected / qty. accepted / qty. rejected
- h) The Inspectors printed name, signature (and stamp if used)
- i) All drawing characteristics with their tolerances
- j) All actual dimensions measured
- k) Final Inspection results (Accepted / Rejected)
- l) Serial Number (s) if applicable
- m) Trace ability to Acceptance Test Procedures (if applicable)
- n) Trace ability to Test Equipment (if applicable)
- o) All drawing notes and material requirements

Note: A CMM report will be accepted when annotations are made to comply with requirements (a) thru (n) herein.

Note: The Supplier Final Inspection package will include copies of the Final Inspection Report and all applicable Certifications and Test Reports.

Q8- First Article Verification: A Intra Aerospace Quality Representative shall witness the performance of the first article at the Suppliers facility.

Contact your Intra Aerospace Buyer 48 hours in advance to schedule the required support. The Supplier may have already completed the F.A.I. and repeat the inspections and test as requested during performance of this requirement. Inspection by the Intra Aerospace Quality Representative does not constitute final acceptance of product.

Q9- Intra Aerospace Source Inspection: Intra Aerospace source inspection is required prior to shipment of product from your facility. The Supplier will provide reasonable support including necessary equipment and personnel to complete the source inspection activity.

Contact your Intra Aerospace Buyer 48 hours in advance to schedule the required support. Evidence of Intra Aerospace Source Inspection will appear on the suppliers shipping documents. Inspection by the Intra Aerospace Quality Representative does not constitute final acceptance of product.

Q10- Government Source Inspection: Government inspection is required prior to shipment from your plant.

- a) Upon receipt of this order, promptly notify the Government Representative who normally services your plant so that appropriate planning for Government inspection can be accomplished.
- b) On receipt of this order, promptly furnish a copy to the Government Representative who normally services your plant or, if none, to the nearest Army, Navy, or defense Supply Agency inspection office. In the event the Government Representative or office cannot be located, contact your Intra Aerospace Buyer.
- c) Intra Aerospace Source Inspection is required on product or articles being submitted to the Government in compliance with the Intra Aerospace purchase order.



Contact the Intra Aerospace Buyer 48 hours in advance to arrange the required support.

Q11- Quality Assurance System Requirements: The Supplier shall document and maintain Quality Assurance System requirements to ensure product conformance in accordance with:

- a) ANSI/ASQC Q9001
- b) ANSI/ASQC Q9002
- c) SAE AS9100, SAE AS 9003
- d) ISO 9001, ISO 9002
- e) MIL-I-45208A
- f) MIL-Q-9858
- g) MIL-STD-45662A, ISO 10012, or ANSI Z-540 (Calibration)

Q12- Gear Inspection: The supplier shall prepare gear inspection charts to meet the following criteria:

- a) 100% Total Composite Error – Tooth-to-Tooth Action.
- b) 100% Lead Tooth Error.
- c) 100% Profile Tooth Error.
- d) 100% K Chart (When applicable).

Note: Each part will be tagged with a serial number correlating to the numbered charts created by the supplier. Each chart will indicate the increment of measurement for the inspection performed. Original charts shall be provided and must be legible and reproducible.

Q13- Gear Inspection: The supplier shall prepare gear inspection charts to meet the following criteria:

- a) Sample Total Composite Error – Tooth-to-Tooth Action.
- b) Sample Lead Tooth Error.
- c) Sample Profile Tooth Error.
- d) Sample K Chart (When applicable).

Note: Each part will be tagged with a serial number correlating to the numbered charts created by the supplier. Each chart will indicate the increment of measurement for the inspection performed. Original charts shall be provided and must be legible and reproducible.

Sample requirements by lot size:

- 1) Lot Size of 1 –13 = 100% Composite, 5 charts lead & profile.
- 2) Lot Size of 14 – 100 = 1 chart for every 7 parts produced.
- 3) Lot Size 101 and above = Sample per ANSI Z1.4-1993 Level II AQL 1.0, except reject number will be zero.

Q14- Statistical Process Control: The supplier shall provide control charts as specified within Intra Aerospace's purchase order or planning instructions. Supplier shall provide in-process data when requested to verify control charts



submitted. Contact your Buyer for Intra Aerospace Quality Engineering assistance if required.

1.1 General Terms and Conditions

1.1.1 Purchase Order (PO) is an offer to enter into a contract, which is accepted by the seller signing the PO or returning seller own form of acknowledgement, or commencement of supplier or services ordered. The supplier must acknowledge the PO under PURCHASE ORDER ACKNOWLEDGMENT, sign and return to the Intra Aerospace buyer by either fax or email no later than 48 hours after receipt of order.

1.1.2 Point of Contact- the Intra Aerospace buyer reference on the PO will be your point of contact for any questions, problems, or information. DO NOT accept any change to the technical and quality requirements unless authorized in writing by the buyer.

1.1.3 Order of Precedence- When the requirements of the PO and applicable documents are in conflict, the following precedence shall apply in the order listed;

- a) Purchase Order
- b) Blue Print of the revision specified on the PO
- c) Documents and Specifications referenced on the Blue Print.
- d) Documents referenced in the referenced documents

1.1.4 Reservation of Rights- During performance of the PO, the suppliers facilities, quality systems, manufacturing processes, and articles produced, are subject to review, verification, and analysis by Intra Aerospace, Intra Aerospace's Customer, and or authorized Government Representatives. The supplier shall extend these reservation rights to their sub-tier suppliers.

1.1.5 ITAR Requirement- Drawings that are classified as ITAR;

- a) Do not forward drawings or products to foreign nationals (Non US Citizens).
- b) Do not copy drawings, email, faxes, or any other form of transport to foreign nationals.

1.1.6 Retention of Records/Records- Unless otherwise specified, supplier records which provide verifiable evidence of compliance to the purchase order shall be retained for a period of 10 years from the closing of the purchase order. Records shall be submitted or retained in the English language unless otherwise approved in writing by the Intra Aerospace buyer. All records shall be legible and of sufficient quality to allow re-production or copies of those records to be produced.

1.1.7 Workmanship- As a provision of the purchase order, suppliers are responsible to implement and maintain workmanship standards and the quality system activities during performance of the purchase order. Controls shall be established to maintain environmental conditions, handling, cleanliness, material traceability, inspection,

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calibration of inspection measuring & test equipment, and any processing that will affect product quality and compliance to the purchase order.

1.1.8 Receiving- Incoming materials, products, gages or supplies provided by Intra Aerospace suppliers or customers shall be inspected or verified prior to its release to production in our shipping & receiving area, unless otherwise specified by Intra Aerospace Quality Management.

1.1.9 The Extent or nature- of the receiving inspection and testing process may be based upon supplier performance. Suppliers who maintain a grade level "A" may only require verification that the required inspections have been performed by the review and acceptance of supplier inspection documents. Inspection personnel whom have verified supplier performance for the acceptance of product shall noted the ten lots are received using the grade verifications, the next lot will be inspected complete to audit the suppliers continued performance. The grade "A" inspection format will be tracked in the supplier FTQ logs by indication of "A" in the activity code column.

1.1.10 Packing, Packaging, and Preservation- The supplier shall ensure appropriate and Industry Standard Packing, Packaging, and Preservation Methods along with adequate safety measures are utilized for shipment of product or items to Intra Aerospace.

1.1.11 Notification of Facility and /or Process Change- Supplier shall not relocate any production or processing facilities during performance of the purchase order without promptly notifying Intra Aerospace for review of such facilities for compliance to quality requirements. Regarding process changes, the supplier must notify the Intra Aerospace of changes to processes, products, or services, including changes of their external providers or location of manufacture, and obtain the organizations approval.

1.1.12 Deviations- Deviations or waivers from any purchase order requirement written authorization by Intra Aerospace's purchasing department.

1.1.13 Reprocessing(Rework) Heat Treat Suppliers Only- Any reprocessing, retempering, and or quenching to meet stated requirements is not allowed without written approval from Intra Aerospace Engineering. All reprocessing approved by Intra Aerospace will show the additional processes and any re-test on the certification. The supplier will submit a request in writing to the Intra Aerospace buyer that addresses the request in detail and the current condition of product.

1.1.14 Nonconforming Material- The supplier shall identify and withhold from shipment all articles not in full compliance with the purchase order unless authorized by the buyer. Isolated nonconforming product such as set-up parts (maximum qty. 3) that are tagged and segregated from conforming product can be shipped if noted on the suppliers shipping document and authorized by the Intra Aerospace buyer. Nonconforming product withheld by the supplier must be submitted to Intra Aerospace's Quality Assurance department through the buyer. The supplier shall submit a report that includes specific details as to the discrepancy and provide root cause, corrective action, and preventive actions taken to prevent a reoccurrence. A



copy of the supplier report or Intra Aerospace's report will be forwarded to the supplier with dispositions and actions required for the shipment of nonconforming materials.

1.1.15 Corrective Action- when product is found to be nonconforming by Intra Aerospace a written request for corrective action will be forwarded to the supplier. The supplier must respond within the corrective action due dated listed on the CAR to provide a written request for extension to Intra Aerospace's Quality Assurance Department.

The supplier's corrective action response must include the following;

- a) Analysis of the root cause that led to the non conformance.
- b) Immediate action(s) taken to correct the problem
- c) Preventive actions taken to prevent reoccurrence
- d) Effectivity date of such actions.
- e) Printed and signed signature.

Further, Intra Aerospace will monitor sub-tier supplier's performance (SCAR's & OTD) and may suspend underperforming sub-tier suppliers from Intra Aerospace's ASL.

1.1.16 Unauthorized repair- Supplier shall not affect repair of nonconforming articles without Intra Aerospace's approval.

1.1.17 Repair is defined as: Subjecting a nonconformance article to other than normal processing that may allow the article to be suitable for use, but will not completely eliminate the nonconformance.

1.1.18 Statistical Sampling- Unless otherwise specified, the supplier may utilize statistical sampling in accordance with ANSI Z1.4 except the reject AQL is zero. Any discrepancy found during sample inspection shall require 100% inspection for the noted discrepancy. The use of statistical sampling plans does not relieve the supplier from the responsibility of delivering only conforming product to Intra Aerospace. Acceptance of product or articles with statistical sampling techniques does not ensure acceptance by Intra Aerospace.

1.1.19 Control of age sensitive materials- The supplier shall provide for effective controls of all materials that have limited use or storage life requirements. The age control system must include methods for identifying the age of materials and their expiration dates. No over age materials may be shipped to Intra Aerospace.

1.1.20 Hazardous Materials- All materials that are volatile, toxic, or that are harmful to human health, shall be properly contained in accordance with applicable health and safety requirements. The containers shall be plainly marked as to the contents with appropriate warnings, precautions, instructions, material safety data sheets, and storage conditions. The material safety data sheets must be submitted with each purchase order shipment.

1.1.21 Material Substitution- Intra Aerospace materials may not be substituted unless authorized by the Intra Aerospace buyer. Request for material substitution must be submitted in writing.



1.1.22 Minimum shipping documentation- The supplier shall provide a shipping document and certificate of conformance with each purchase order shipment. The following information is required:

- a) Purchase Order number
- b) Part number and revision or item listed on the Intra Aerospace PO.
- c) The applicable specifications and their revisions.
- d) The signature of an authorized supplier representative.
- e) Intra Aerospace job and lot number as listed on the PO.

1.1.23 Performance of Services- The supplier shall be responsible for flow down of all the requirements and provisions of the Intra Aerospace purchase order applicable to the supplier's subcontractors.

Services contracted by Intra Aerospace that is performed at another facility, address, or supplier's subcontractor require Intra Aerospace buyer approval. Intra Aerospace buyer approval shall be noted on the Intra Aerospace purchase order.

A copy of the supplier's subcontractor C of C shall be forwarded to Intra Aerospace upon shipment and noted on the suppliers shipper.

Subcontractor processing of product that the suppliers were contracted to perform is prohibited without the written approval from the Intra Aerospace buyer. Intra Aerospace will control and monitor the external provider's/suppliers performance. If the suppliers performance drops below the allowed threshold, Intra Aerospace may require a Corrective Action and/or an On Site Audit.

1.1.24 Preference of Domestic Specialty Metals- Preference for Domestic Specialty Metals DFARS Clause 252.225-7014, Alternate 1 applies. Material shall be melted and or products purchased within the United States, unless materials are melted or products purchased from quality countries listed in DFARS clause 225.872-1.

1.1.25 Notification of Escape- It is the responsibility of the supplier to notify Intra Aerospace immediately of any items that were provided and later discovered by the supplier to be defective. This notification of escape shall include as a minimum purchase order number, part number, suspected quantity, and discrepancy noted.

Immediately following the Notification of Escape, a complete Root Cause Analysis including a containment action, corrective action, preventive action with effectivity dates are to be forwarded to Intra Aerospace.

1.1.26 COUNTERFEIT PARTS & MATERIAL- Supplier shall have a counterfeit parts avoidance, detection, mitigation, and disposition program . Seller shall only deliver authentic components, devices, pieces, material, modules, assemblies, subassemblies, goods, etc. that are manufactured by or obtained from original equipment manufacturers (OEMs), original component manufacturers (OCMs), or authorized distributors. Seller shall make available to POC documentation that authenticates and provides traceability of the Parts to the applicable OEM or OCM.

1.1.27 AWARENESS- Supplier shall ensure their employees are aware of the following: 1.their contribution to our product conformity; 2.their contribution to our product safety; 3.the importance of ethical behavior.

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1.1.28 Third Party Calibration Services- Third Party Calibration Technicians are required to have annual eye exams.