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## 1. Purpose

- 1.1. Supplier quality manual is intended to define and clarify quality expectations of material manufactured for, sold and/or delivered to Karman industries.

## 2. Definitions

- a) Buyer – Karman Industries
- b) Seller – Party that sells or contracts to sell to the Buyer
- c) Purchase Order – PO
- d) Customer Furnished Material – CFM
- e) Build to Print – BTP
- f) Quality Management System – QMS
- g) Non Conformance – NC
- h) Corrective Action and Preventive Action – CAPA
- i) Foreign Object Debris – FOD

## 3. General Quality Requirements

- a) QMS Standards: Seller shall maintain a documented QMS that meets the intent of ISO 9001. If the sellers QMS does not meet this intent, this must be communicated and written authorization needs to be provided per PO.
- b) Certification of Changes: Seller must notify the buyer in writing within 3 business days of any significant change or loss of any applicable QMS certifications.
- c) Sub-Tier Control: Seller is responsible for ensuring all buyers quality requirements are flowed down to sub-tier suppliers.
- d) Record Retention: All records related to materials or services must be maintained for a minimum of 7 years. Buyer must be notified prior to destruction of any records
- e) Right of Access: Buyer reserves the right to audit the Seller's facilities and QMS to verify compliance with the PO, with sufficient notice.

#### 4. Product and Shipping Standards

- a) NC: Seller must notify buyer within 3 days of identifying any NC to the requirements of the PO.
- b) CAPA: When requested by the buyer, seller shall provide a adequate response to the CAPA with 5 business days.
- c) Shelf Life: Items must have at least 80% of their shelf life upon shipment unless otherwise stated in writing.
- d) FOD Control: Seller shall maintain a FOD control plan to prevent, detect and remove debris from products

#### 5. Technical Hardware Requirements

- a) Traceability: Seller shall maintain internal traceability to the raw material level and be able to provide the data within 5 business days upon request.
- b) Inspection Plan: Unless 100% inspection is required, seller shall use a recognized statistical sampling plan such as ANSI/ASQ Z1.4. If an NC is found within the sample, 100% of the lot must be inspected.
- c) Critical Features: All key characteristics and threaded features must be 100% inspected on the entire lot

#### 6. Karman Quality Clauses

- a) QC1 (CofC): Provide a certificate of conformance with every shipment including the buyer PO number, part number, quantity and lot/serial/expiry date if applicable.
- b) QC2 (Inspection Report): Provide a dimensional inspection report showing actual values and tolerance for each characteristic.
- c) QC3(Material Certs): Provide raw material certifications including chemical and physical test reports.
- d) QC4(First Article): A first article inspection is required for the first production run or after a 2-year lapse in production of that product.
- e) QC5(Serialization): When serial numbers are required and not defined on the drawing, seller shall assign a unique serial number (max 20 characters) which

must be unique. Seller shall indicate these serial numbers on all documents associated with this product.

- f) QC6 (Part Marking): If specified in the drawing, part shall be marked with part number, rev, serial and/or lot number and manufacture number. Laser mark and chemical etching are acceptable per standards such as (AS478-3B1/ As478-15B). Parts that cannot be marked must have a sticker with all the necessary information.