



Pioneer Industries Quality Control Requirements

QCR 1 Inspection Systems – The supplier/processor will as a minimum implement and maintain a documented inspection system. This system is subject to review by PIONEER INDUSTRIES Quality Assurance.

QCR 2 Quality Management Systems – The supplier/processor will at a minimum implement and maintain a documented quality management system that meets the requirements of AS9100 latest revision. This system is subject to review by PIONEER INDUSTRIES Quality Assurance.

QCR 3 Certification – A certificate of conformance must accompany each shipment. The certificate must state that the material supplied meets the applicable specifications and must specify the revision level for the material specification. PIONEER INDUSTRIES Purchase Order number shall be noted in certification. PIONEER INDUSTRIES supplied material will be maintained by PIONEER INDUSTRIES and is not subject to this clause.

QCR 4 Test Reports – Chemical and physical analysis test reports shall be supplied with each shipment.

QCR 5 Shelf Life – The manufacturing and applicable expiration date must be noted on each individual container and / or certification as applicable

QCR 6 First Article – First article inspection is required. First article shall comply with AS9102 requirements.

QCR 7 Statistical Process Control – Statistical process control is required and shall be implemented on this order as defined by Quality Assurance. The Supplier/processor shall contact the PIONEER INDUSTRIES Buyer prior to manufacturing to arrange a meeting to define the required characteristics affected.

QCR 8 In-Process Inspection – In process inspection is required by PIONEER INDUSTRIES. When this is required, the specific inspection point(s) in the process will be specified on the Purchase Order. The supplier/processor shall contact PIONEER INDUSTRIES and hold the material for in-process inspection by PIONEER INDUSTRIES Quality Assurance.

QCR 9 Parts Identification – In addition to drawings/specification requirements, all products must be identified with the part number. The manner and location of this identification shall be agreed upon with PIONEER INDUSTRIES Purchasing.

QCR 10 Protection against Contamination or Damage – On all parts, the surface must have a protective sleeve or equivalent protection. The parts must be boxed, banded, or shipped in a manner that will ensure no damage will occur.

QCR 11 Right of Entry – PIONEER INDUSTRIES, its customers and regulatory authorities shall have right of access to all facilities and review all processes, subcontractors, contracted parts, procedures, and records related to this order.

QCR 12 Subcontracting without Written Approval – Subcontracting all or substantially all of the order without written consent of PIONEER INDUSTRIES Quality Assurance and Purchasing is prohibited.

QCR 13 Pioneer Industries Supplied Drawings – All engineering drawings provided by PIONEER INDUSTRIES are PIONEER INDUSTRIES property and must be returned with the order.

QCR 14 NADCAP Approval – Heat Treat only: certifications must include evidence of NADCAP approval for heat treating. Finish house only: certifications must include evidence of NADCAP approval for chemical processing.

QCR 15 Quality Records – The supplier/processor shall maintain: record identification, evidence of changes, preservation, availability, accessibility, and protection from access by unauthorized persons. Supplier/processor shall retain quality records for a minimum of eleven (11) years from shipment of last part and dispose proprietary and sensitive records in a manner that protects them.



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QCR 16 Less than AS9100 Supplier/Processors – The supplier/processors who manufacture product complete or provide a service and do not maintain a quality system in compliance with AS9100 latest revision must maintain documented procedures that address the following:

- 1) Identification and Traceability
- 2) Control of non-conforming Material
- 3) Process Control
- 4) Measurement and Monitoring of Product
- 5) Purchasing
- 6) Supplier/processor qualification and Approval
- 7) Contract Review
- 8) Verification of Purchase Product
- 9) Control of Inspection, Measuring and Test Equipment
- 10) Preservation of Product
- 11) Training
- 12) Control of Quality Records

This system is subject to review by Pioneer Industries Quality Assurance.

QCR 17 Revision Control – Unless otherwise specified, latest revision applies on all listed specifications, drawings, process requirements, inspection/verification instructions and other relevant technical data.

QCR 18 Supplier/Processor Non-Conforming Product/Process Notification - Supplier/processor must notify PIONEER INDUSTRIES of nonconforming product, to include notification of any non-conforming product that may have shipped. Arrangements must be made to allow for PIONEER INDUSTRIES to disposition all non-conforming products.

QCR 19 Supplier/Processor Request For Deviation On Product/Process/ Sub out of any or all of work agreed to/ and location of facility - The supplier/processor agrees not to make any change in materials, services, parts or design details which would affect products or parts or any components thereof with regard to:

- a) part number identification
- b) physical or functional interchangeability
- c) repair and overhaul procedures, processes and material changes which affect these procedures without prior written approval from Pioneer Industries
- d) Any subbing out any of the promised work to be performed by supplier.
- e) Change to location of production facilities or otherwise.

Written authorization must be obtained from Pioneer Industries prior to any deviations with regards to internal process changes and any requirements stated on the Purchase Order, drawing, specification or other requirements that are known but not stated.

QCR 20 Flow Down Requirements - The supplier/processor shall flow down all applicable documents and requirements to their sub-tier suppliers/processors. The supplier/processor shall inspect or otherwise verify that all materials and or parts thereof, including those procured or furnished by subcontractors comply with the requirements of Pioneer Industries purchase order prior to shipment to Pioneer Industries.

QCR 21 ITAR Requirements – IMPORTANT/CONFIDENTIAL: This PO (and any drawings and/or attachments accompanying it) **may** contain confidential information, including information protected by United States Government. The information is intended only for the use of the intended recipient(s). Delivery of this PO to anyone other than the intended recipient(s) is not intended to waive any privilege or otherwise detract from the confidentiality of the PO. If you are not the intended recipient, or if this PO has been addressed to you in error, do not read, disclose, reproduce, distribute, disseminate or otherwise use this information, rather, please promptly notify the sender by phone or e-mail, and then destroy all copies of the PO and its attachments, if any.

QCR 22- Tool Use, Review of Condition, Handling, Inspection and Packaging-Handle and review condition prior to use per D950-11059-1, a copy will be provided to you, if not please request. Please return all tooling immediately to Pioneer with parts as received. Notify immediately any damage that was found or resulted during production.

All QCR that are in Bold Italicized font are Aerospace Requirements.

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QCR 23 – Suppliers must have a documented process that provides assurance of material authenticity and detection of counterfeit material prior to product acceptance. This plan must provide assurance of authentic and conforming raw material and parts. A risk assessment approach must be used to determine the criticality of the material and detect immediate identification of items and supply sources susceptible to counterfeiting.

QCR 24- Regarding Ozone Depleting Chemicals; Definition. "Ozone-depleting substance," as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR Part 82 as--

- (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or***
- (2) Class II, including, but not limited to hydrochlorofluorocarbons.***

Seller shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), and (d) and 40 CFR Part 82, Subpart E, as applicable:

Warning

Contains * _____, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

Warning

Manufactured with * _____, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

**** Seller shall insert the name of the substance(s).***

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 sub-tier supply chain. For the purpose of this note Supply Chain shall mean Seller's direct and indirect suppliers performing value-added activity on the products and services. It focuses on direct and lower-tier suppliers.

QCR 25- This document incorporates X31764 for all aerospace suppliers of raw materials and processes with all of the applicable clauses for the product service required.

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