



SUPPLIER QUALITY CLAUSES

Revision 5/28/2008

QC1 SUPPLIERS QUALITY SYSTEM:

The supplier shall implement and maintain a Quality System, which conforms, as a minimum, to the requirements of AS9100, or to the extent imposed by the provisions of applicable drawings, specifications, and purchase orders.

QC2 SQR002 Advance Supplier Quality Requirements

QC3 ISO9001/2000 Quality Management System

QC4 RIGHT OF ENTRY:

Precision, their representatives, customer(s) and any regulatory agencies shall have "Right of Access" to the supplier facility, and quality records for the purpose of audit, surveillance and /or verification of quality of work, documentation or material. The supplier shall insure that this requirement is flowed to their supply chain.

QC5 GOVERNMENT SOURCE INSPECTION:

During the performance of this order, the suppliers Quality System and manufacturing processes are subject to review, verification, and analysis by authorized government representatives. Government inspection or release of product prior to shipment is not required unless you are otherwise notified.

QC6 RETENTION OF RECORDS:

The supplier shall maintain records for review by Precision, customer(s)/regulatory agency for a minimum of (7) years (unless otherwise specified) and readily retrievable upon request. Records shall include material certification, special processing, work order/traveler, test reports, inspection reports, calibration records and first articles.

QC7 CERTIFICATION OF COMPLIANCE:

Each shipment of material under this purchase order must be accompanied by a certification of conformance that verifies compliance with applicable specifications on drawing or purchase order for each lot/batch number for traceability. Certification shall be dated and signed by a responsible individual whose signature can be considered binding on your company. Failure to include the certification with your shipment may classify your product as non-conforming resulting in the return of the material at your expense.

QC8 CHEMICAL/PHYSICAL MATERIAL TEST REPORTS:

A chemical/Physical test report is required for this Purchase Order. It shall reference chemical composition and/or physical properties, lot/batch number, list the parameters tested, the results obtained. It shall be signed by the Materials Suppliers Authorized Quality Representative, and indicate the Representative's title.

QC9 CASTING/FORGINGS MATERIAL TEST REPORTS:

In addition to chemical/physical test reports as stated above, certification for magnetic particle inspection, fluorescent penetrate inspection, ultrasonic inspection, pressure test and grain flow shall be submitted with order. Radiographic inspection results including film for each casting shall be supplied.

QC10 METEROLOGY SYSTEM REQUIREMENTS:

A calibration system in conformance with ANSI/NCSL Z540-1 must be maintained that is traceable to NIST and provides identification of calibration status. Adequate process controls, records, and certifications shall also be sufficiently maintained to satisfy purchase order requirements. A "Certificate of Calibration" traceable to each item furnished by Precision for calibration is required with your return shipment to Precision.

QC11 CERTIFIED INSPECTION REPORTS:

The supplier shall include with each shipment a certified inspection report that contains drawing, revision, inspection results for 100% of characteristics identified in the engineering drawing for the entire lot of parts being shipped and serial numbers (where applicable). The inspection report shall list the actual ranges of measured characteristics for that lot of parts only. Inspection records adequate to assure the Quality level of production process shall be maintained by the supplier. Failure to include data with your shipment may classify your product as non-conforming, resulting in the return of the material at your expense.

QC12 SAMPLING INSPECTION:

Sampling inspection is allowed per ANSI/ASQ Z1.4 Level II – AQL 1.0 may be used except C=0.(no defects allowed, reject on 1). Otherwise all parts shipped shall be one hundred percent (100%) inspected. Sampling plans shall be submitted for Precision for its customer to approve prior to implementation.

QC13 FIRST ARTICLE INSPECTIONS:

A detailed first article inspection report is required and shall be compliant to AS9102 requirements. The report must be furnished with first shipment of the product to Precision for verification, unless otherwise specified.

The first article report and the part used should be packaged separately, clearly identified, and shipped with production parts on the first delivery of a new product. Precision reserves the right to witness the actual inspection or to require spot checks to verify data. The supplier shall notify the applicable Precision Purchasing Agent three (3) working days prior to the date on which the parts will be ready for FAI.

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QC15 SOURCE INSPECTION:

Precision source inspection must be conducted at the supplier facility prior to shipment. When the PO items are ready for inspection, the supplier shall notify the Precision purchasing agent three (3) working days prior to the date on which the parts will be ready for source inspection. All non-conforming material or parts shall be properly segregated from the acceptable material or parts presented for source inspection. Drawings and/or other pertinent data as required by PO must be available to the Precision quality representative at the time the product is presented. Acceptance at source does not relieve the supplier from responsibility for the quality of delivered product.

QC16 Precision source inspection must be conducted at your facility **before process**. When the PO items are ready for inspection; the supplier shall notify the Precision Aerospace purchasing agent three (3) working days prior to the date on which the parts will be ready for source inspection.

QC17 When the PO items are ready for inspection; the supplier shall notify the Precision purchasing agent **five (5)** working days prior to the date on which the parts will be ready for source inspection.

QC18 Government source inspection must be conducted at the supplier facility prior to shipment. When the PO items are ready for inspection, the supplier shall notify the government source inspector that normally services their facility prior to the date on which the parts will be ready for source inspection.

QC19 SPECIAL PROCESSING:

All special processing required via a government, ASTM, or Precision process specification shall be performed by Precision approved suppliers only. It is the responsibility of the supplier to request and to insure the supplier has and understands all required specifications. Should the prime supplier elect to subcontract special processing, the prime must receive written approval for the subcontractor selected prior to the processing of the items. All requirements of Precision imposed on the prime shall be flowed down to the subcontractor by the prime. Each shipment must include a report/certification that includes the name and address of the processing source as well as a statement verifying that all required process certifications and chemical/physical test reports, directed on the PO, are on file at the supplier's facility and/or have been provided with the shipment as required. This quality clause applies to (but is not limited to) NDE, NDI, Welding, Heat Treat, X-Ray, Precision Cleaning, Applied finishes, etc. In addition the supplier must reference the Precision Aerospace PO and part number on their certification. Heat Treat – Provide a copy of the chart(s) that confirm that treat time and temperature requirements have been met. In addition the supplier must reference the PO and part number on their certification. Supplier must provide evidence of hardness testing in accordance with applicable specifications.

QC20 FIRST PIECE INSPECTION:

Supplier must perform mandatory first piece inspection for each line item article on this purchase order prior to producing the remaining balance of the line item.

QC21 COORDINATE MEASURING MACHINE:

CMM reports shall be prepared and submitted with each part/tool as required. CMM reports shall include part number, date, serial number, drawing revision, and data set revision and inspection verification as a minimum.

QC22 SPECIALITY METALS:

All purchased specialty metals must be in compliance with DFARS 252.225-7014 Preference for Domestic Specialty Metals, Alternate 1 are imposed on this purchase order. Orders having a government priority rating shall be identified and scheduled in accordance with the defense priorities and allocations system (DPAS).

QC23 MAINTENANCE & FRACTURE CRITICAL:

Items on this purchase order are either maintenance critical, fracture critical, or fracture critical traceable and require the supplier to control them through the governing specification on this purchase order.

QC24 STATISTICAL PROCESS CONTROL:

This order has been selected for Statistical Process Control. The engineering drawing shall identify the Key Characteristics which must be reported on the first twenty (20 parts and an agreed upon frequency thereafter.) Variables data for each part checked shall be identifiable to the part checked. The supplier is responsible for implementing a control plan, process control charts, and submitting the data to Precision. Failure to supply accurate variables data on the Key Characteristics shall be considered cause for rejection and may result in the return of Product at your expense.

QC25 SHELF LIFE OF MATERIALS:

The supplier shall identify each container of material with the date of manufacture and shelf life, type of material, lot or batch number and other pertinent information. Material which does not show at least ¾ (75%) of the indicated shelf life will not be accepted. If a manufacturer/ distributor cannot provide material in compliance with this policy, two requirements are mandatory for acceptance: 1) a pricing concession will be made to Precision for the expired shelf life. 2) the supplier must obtain written approval from Precision's Purchasing and Quality departments prior to shipment of aged materials. Precision's Material. Quality and Engineering Managers all must approve any exceptions to this clause. Material Safety Data Sheets must be provided where there is danger to health from material being purchased.

QC26 BOEING APPROVED SOURCE:

Any/All processes must be performed by Boeing Approved Sources per D1-4426. Accessing D1-4426 via the web is the only acceptable method to maintain compliance to Boeing requirements. Processing shall be performed to the latest revision as defined in the PSDS.

URL:

<http://www.boeing.com/companyoffices/doingbiz/d14426/>

The PSDS accountability pages site can be found at the following URL:

<http://www.boeing.com/companyoffices/doingbiz/bps/>

This clause shall be included in the seller's subcontracts for work performed under this purchase contract that involves D1-4426 processes. A certificate of conformance and/or equivalent process certificate, signed by an authorized agent of the processor/seller shall be maintained. The certificate shall include contract number, part number(s), Trace number (as applicable), Process specification number w/ revision, processing date(s), and name and address of the processor(s) performing each of the D1-4426 processes. Buyer approval of any processor shall not relieve seller of seller's requirement to comply with the terms of this contract.

QC27 NORTHROP GRUMMAN APPROVED SOURCE:

Northrop Grumman Integrated Systems Supplier Quality & Technical Performance approves and maintains the list of approved special processors (ASPL) for NGIS aircraft programs. This list can be sorted by supplier name, process specification, process category, state and country. Please note that NGIS approved processors for the F-35 Program can be located by clicking F-35 under Process Category. This web site also lists the NDT technique approvals, one by processor and the other by part number. In addition, this web site provides a short cut to Boeing and Lockheed web site for F/A-18 and F-35 Programs, respectively for Processor(s) performing each of the D1-4426 Processes. Buyer approval of any processor shall not relieve seller of seller's requirement to comply with the terms of this contract.

QC28 NON-CONFORMING PRODUCT/MATERIAL:

All reference requirements including specifications and drawings shall be the latest revision in effect at the date of the purchase order. Supplier is not delegated Material Review Board (MRB). All Non-conforming products must be submitted and returned to Precision. Suppliers are required to notify Precision on all known non-conformances, which have already shipped to Precision and/or Precision customers. Notification shall be timely and in writing. If a Precision customer contacts the supplier directly on a non-conformance issue, the supplier shall notify Precision in a timely manner and supply Precision with all the same information supplied to Precision customer. Documented cause and corrective action may be required.

QC29 MATERIAL SAMPLES:

A material sample must be furnished to Precision with the first shipment of the product, unless otherwise specified. The size of the sample shall be determined by Precision or the material specification. The sample shall be cut or molded from the same material lot as the product supplied. In addition the supplier must reference the PO, part number, Lot number (if applicable), Serial Number (if applicable) on their certification. If a sample does not pass its material specification tests, the product supplied with the sample shall be considered unacceptable and may be returned to the supplier.

QC30 HANDLING, PACKAGING, PRESERVATION AND DELIVERY:

The supplier shall use appropriate methods of handling, packaging, and preservation to prevent damage of product in process and during delivery.

QC31 CHANGE NOTIFICATION:

Suppliers are required to notify Precision in writing prior to any proposed process or product changes. Facility locations and ownership changes must also be reported to Precision Aerospace in a timely manner.