

**CQR-1 Quality System****CQR-1a**

Supplier must maintain a Quality System that meets, as a minimum, the requirements of ISO:9001, AC7004, AC7005 or equivalent unless otherwise directed by the Chandler Industries quality organization. Immediate notification is required in case of non-compliance to quality system requirements, e.g., loss of third-party certifications or a major nonconformance from registrar.

CQR-1b

Supplier must maintain a Quality System that meets, as a minimum, the requirements of AS9100 unless otherwise directed by the Chandler Industries quality organization. Immediate notification is required in case of non-compliance to quality system requirements, e.g., loss of third-party certifications or a major nonconformance from registrar.

CQR-1c

Supplier must maintain a Quality System that meets, as a minimum, the requirements of ISO:13485 unless otherwise directed by the Chandler Industries quality organization. Immediate notification is required in case of non-compliance to quality system requirements, e.g., loss of third-party certifications or a major nonconformance from registrar.

CQR-1d

Supplier must maintain a system that meets the requirements of Good Manufacturing Practices (GMP) in accordance with Federal regulation 21 CFR 820 unless otherwise directed by the Chandler Industries quality organization.

CQR-1e

This is a DO/DX rated order for National Defense use. You are required to follow all the provisions of Defense Priorities and Allocation system regulation 15 CFR 700.

Click below for more information.

<https://www.ecfr.gov/current/title-15/part-700>

Two Levels of Ratings:

(DX) Highest National Defense Urgency

All **DX** rated orders have equal priority and take preference over DO and unrated orders (based on ship schedule).

For **DX** rated contracts, the following statement will appear in the Chandler purchase order body:

"THIS IS A DPAS DX RATED ORDER CERTIFIED FOR NATIONAL DEFENSE USE AND YOU ARE REQUIRED TO FOLLOW ALL PROVISIONS OF THE DEFENSE PRIORITIES AND ALLOCATIONS SYSTEM REGULATIONS (15 CFR PART 700) (FAR 52.211-15)"



(DO) Critical to National Defense

All **DO** rated orders have equal priority and take preference over unrated orders (based on ship schedule).

CQR-1f: Supplier is responsible to assure the special process(es) associated with this order are performed in accordance with NADCAP approved process for which a current NADCAP certification is on file.

CQR-2 Source Inspection

CQR-2a Government Source Inspection

Government Inspection is required prior to shipment from your facility. Upon receipt of this order, promptly notify the Government representative normally servicing your facility so that the appropriate planning can be accomplished. If a Government representative does not service the suppliers' facility, notify the nearest Defense Contract Administrative Office for direction, or Chandler Industries Corporate office.

CQR-2b Chandler Industries Source Inspection

Chandler Industries source inspection is required prior to shipment from the supplier's facility. Contact the appropriate Chandler Industries buyer to schedule source inspection.

CQR-2c Chandler Industries Customer Source Inspection

Chandler Industries customer source inspection is required prior to shipment from the supplier's facility. Contact the appropriate Chandler Industries buyer to schedule source inspection.

CQR-2d Chandler Industries Virtual Source Inspection

Supplier shall submit the applicable acceptance documentation prior to shipment. Shipment can occur after Chandler Industries' approval.

Contact Chandler purchasing or quality for detailed requirements.

CQR-3 Certification Requirements

CQR-3a

Certificate of Conformance shall accompany each shipment of material defined in the purchase order. The Certificate of Conformance shall be legible and include the Chandler Industries purchase order number, part number, revision letter (unless otherwise specified on the purchase order, the revision letter must be the latest revision in effect at the time of purchase order acceptance), quantity, the Chandler Industries work order number or when specified the Chandler Industries material lot number.

**CQR-3b**

The supplier is to provide the raw material for this order. Chemical and physical certifications from the material distributor and mill certifications are required with the shipment along with any applicable special processing certifications as performed by the distributor or mill. The requirements of DFARS 252.225-7014 apply to this order. Preference for Domestic Specialty Metals, Alternate I (specialty metals clause"). In brief, the contractor is prohibited from incorporating specialty metals such as stainless steels or titanium which have been melted outside the United States. Materials must be procured from U.S. sources per DFARS subpart 225.7002-2.

CQR-3c

Heat treating, welding, electroplating, laser cutting, EDM, ECM, non-destructive testing, etc. Are considered special process. The C of C shall include the specification number and revision of all special processing performed. Unless otherwise specified on the purchase order, the supplier can use any subcontractor on their ASL for special processing. NADCAP subcontractors are preferred but not required.

CQR-3d

Castings or forgings are required for this order. Certifications per CQR-3a through CQR-3c are required and shall be shipped with this order.

CQR-3e

When Chandler Industries furnishes material/parts, the sellers' system shall provide for the following:

- 1.) Examination upon receipt for transit damage.
- 2.) Verification of Quantity.
- 3.) Storage against damage, improper use, or disposition.

The seller must provide certification that the material/parts used were those furnished by the buyer and no unauthorized substitution was made.

CQR-3f REACH

Articles supplied under this purchase order must be REACH compliant. The supplier is required to supply a declaration of conformance upon request.

CQR-3g ROHS

Articles supplied under this purchase order must be RoHS compliant. The supplier is required to supply a declaration of conformance upon request.

**CQR-3h**

CQR-3h Unless otherwise specified, the order shall be processed and certified to latest revision of the specifications related to this purchase order.

CQR-3j

Material shipped against this order must be one heat lot unless otherwise approved by chandler.

CQR-3k

Chemical and physical material test report shall accompany each shipment identifying the applicable PO No., Qty, Heat No., material type, special process(es) and applicable specifications and revisions.

CQR-3m

Supplier shall supply, with shipment, the applicable inspection and testing documentation showing acceptance of the shipped lot.

CQR-4 Sampling Inspection**CQR-4a**

Sampling inspection is not allowed for this order. 100% inspection is required for all characteristics produced, heat treated or otherwise created or processed by the supplier.

CQR-4b

Sampling Inspection plans shall not allow defects (C=0) within the sample. If defects are found within the sample, 100% inspection shall apply. Sampling shall be in accordance with ANSI/ASQ Z1.4 *"Sampling Procedures and Tables for Inspection by Attributes"* Except, reject on one. Or another industry recognized C=0 sampling plan.

CQR-5 Advanced Quality Planning**CQR-5a**

The supplier shall submit, at a minimum, PFMEA and control plan addressing all the characteristics produced by the supplier to Chandler quality engineering before manufacturing begins.

The supplier shall submit a detailed inspection plan to Chandler Industries quality for approval before manufacturing begins.

**CQR-5b**

The supplier shall submit, for Chandler Industries approval, a Level 3 PPAP containing the following information prior to shipment:

- Design Records (Ballooned Drawing)
- Process Failure Modes and Analysis (PFMEA)
- Process Flow Diagram (PFD). Required for multi-operation processes only.
- Process Control Plan (PCP)
- 1 Piece Dimensional Results (First Article Inspection Report)
- Material and Special Processing Certifications
- Sample Production Part (Identify when lot is shipped)
- Part Submission Warrant (PSW)

Information shall be submitted on Chandler Industries forms or equivalent.

CQR-6 Record Retention**CQR-6a**

Non-Aerospace: Supplier must maintain records pertaining to this order for a minimum of three years.

Supplier shall contact Chandler purchasing for disposition prior to destruction of any records.

CQR-6b

Aerospace: The supplier shall retain quality records including but not limited to manufacturing process, special process, inspection and test data, and engineering data for a minimum of 10 years from the end of the contract or purchase order.

For components identified as safety critical, flight critical, etc., the supplier shall maintain these records indefinitely.

Supplier shall contact Chandler purchasing for disposition prior to destruction of any records.

CQR-6c

Medical: Supplier must maintain records pertaining to material, Manufacturing process, Special Processes, testing, and inspection for a minimum of (20) years as applicable.

Supplier shall contact Chandler purchasing for disposition prior to destruction of any records.

CQR-6d

Records must be maintained in the English language.

**CQR-7 Process Validation/ FAIR Requirements****CQR-7a**

A first article complaint with AS9102B is required on a part representative of the production process to be used in the manufacture of these parts. A copy of the first article document must accompany the first shipment of parts.

The first article part shall be clearly identified by a tag or other suitable method and accompany the first shipment of parts.

CQR-7b

A first article is required on a part representative of the production process to be used in the manufacture of these parts. A copy of the first article document must accompany the first shipment of parts.

A Chandler Industries First Article Inspection form or equivalent supplier form may be used and shall include the following: Chandler Industries part number, and drawing revision level, and every characteristic including: tolerance (even if it is a block tolerance), actual measured value, Method of Gaging, accept/reject indication. Where physical testing is required, the results of the test must be recorded. Where special processes are required, verification of each process must be recorded, applicable certifications retained, and available for review (or submitted with the FAIR if requested by Chandler Industries Industries). The signature and title of the person performing the inspection and date of inspection must also be included.

The first article part shall be clearly identified by a tag or other suitable method and accompany the first shipment of parts.

CQR-7c

This order constitutes a special process validation or qualification in accordance with the associated approved validation/qualification protocols.

CQR-8 Approved Source of Materials or Subcontractors**CQR-8a**

All materials used in fulfilling this order must be supplied by a supplier approved by Chandler Industries unless specifically authorized in writing to the contrary.

CQR-8b

The supplier shall use only subcontractors approved by Chandler Industries or its customers for this order. Contact Chandler purchasing for additional information.

CQR-9 Test and Inspection Reports**CQR-9a**

Test and inspection reports, with measured data as required by the applicable procurement specification, must accompany each shipment.

**CQR-10 Supplier Software Control Program****CQR-10a**

If software is used to control the manufacture, test, or acceptance of this purchase, the supplier shall maintain a program for positive control over revision status and program integrity. Software Control plans are subject to approval by Chandler Industries.

CQR-11 Key Characteristics**CQR-11a**

When key characteristics are present on the drawing or other technical documentation, they shall be monitored and controlled. The method of control shall be subject to review and disapproval by Chandler Industries, when requested.

CQR-11b

When key characteristics are present on the drawing or other technical documentation, they shall be monitored and controlled in accordance with AS9103. The method of control shall be subject to review and disapproval by Chandler Industries, when requested.

CQR-12 Lockheed Martin Quality Requirements**CQR-12a**

Seller shall ensure all seller sub-tier purchase orders and/ or associated P.O. documents for buyer-controlled processes include the following data elements, statements, or the statement in the note after (f).

a.) Sellers unique LM Aero ID Number (VENDOR CODE) and all LM Aero unique "process codes" for each buyer-controlled process to be performed.

b.) A statement with words, "Processing to be accomplished in performance of this purchase order is directly related to a Lockheed Martin Aeronautics company. See appendix QJ at www.lockheedmartin.com

c.) A statement that sellers' supplier must file and maintain a copy of all purchase orders containing the above statement and make these available for review by buyer, upon request.

d.) A statement that sellers' supplier must submit a certificate of conformance with a unique certification number containing the following information:

- 1.) Title and specification number and revision of the process
- 2.) Name and address of the process or non-destructive testing facility.
- 3.) Sellers' supplier unique LMA identification number (vendor or processor code) if processor is utilized based on Nadcap approval, a statement to the effect "Source utilized based on current Nadcap accreditation" shall be included.



- 4.) Date the Certificate of Conformance was issued
 - 5.) Purchase order part number
 - 6.) Quantity of parts (include accept /reject)
 - 7.) Signature of authorized QA agent of seller
 - 8.) Fracture durability classification or serialization when required.
- e.) A statement to ensure sellers' sub-tiers suitably wraps, boxes, or racks to guard against shipping damage and to apply rust or corrosion protection, and
- f.) A statement requiring sellers' sub-tier to identify specification(s) title, specific revision level(s) and drawing(s) requirement(s) to be performed by a QCS-001 source.
- NOTE: Seller can also use the following statement in lieu of the above statement(s) a. - f. to meet the requirements of this paragraph.

CQR-13 Shelf Life

CQR-13a

Product with a shelf-life requirements must be identified as to its expiration date and have 80% life remaining.

Formula for obtaining 80% remaining shelf life of ACS (Age Controlled Substance)

Formula:

$$X\% = (b/a) * 100$$

Where a = total months between DOM (Date of Manufacture) and DOE (Date of Expiration)

Where b= total months remaining at receiving

Where X= % of remaining shelf life of the product

Example (assume a=12 months & b=10 months):

$$\begin{aligned} X\% &= (b/a) * 100 \\ &= (10/12) * 100 \\ &= (.83) * 100 \\ &= 83\% \end{aligned}$$

CQR-14 Part Classification

CQR-14a

For product or services classified as safety critical, flight critical, etc., the supplier must ensure all personnel involved in processing this order are aware of their contribution to safety.

**CQR-15 Boeing Quality Requirements****CQR-15a**

This order requires processing to a Boeing controlled processor. The supplier must ensure any subcontract activity is performed in accordance with Boeing's D1-4426

See <http://active.boeing.com/doingbiz/d14426/index.cfm> for a list of Boeing approved suppliers.

CQR-16 Product Identification and Packaging**CQR-16a**

Product shall be clean, free of contaminants and debris, and packaged to prevent damage during transit in accordance with purchase order requirements.

CQR-16b

Identify with Customer Supplied Lot ID Number per attached process.

CQR-16c

Identify with Manufacturing Date Codes per attached process.

CQR-16d

Parts to be individually packaged with no part-to-part contact per purchase order instructions.

CQR-17 Collins Quality Requirement**CQR-17a**

Collins's specifications 1847-084 *Ejection Seat System Workmanship Standard* or F516 *Finish Specification Advanced Concept Ejection Seat* apply to this order. See the engineering drawing to determine applicability.



REVISION	DESCRIPTION OF CHANGE	ORIGINATOR	DATE	APPROVAL	DATE
A	ORIGINAL DOCUMENT	J. PHARR	12-27-2016	NOT RELEASED	
B	ADDED CQR-26 EN 10204	UNKNOWN	02-17-2017	NOT RELEASED	
C	Re-written for conformance to AS9100D	C. MILLETTE	03-04-2019	NOT RELEASED	
D	Re-written for conformance to AS9100D	C. MILLETTE	03/05/2019	S. KOCON	03/05/2019
E	Update REACH, RoHS, and shelf-life requirements.	M. PATTERSON	02/19/2020	S. KOCON	02/19/2020
F	Added CQR-3k	P. BALFANY	05/08/20	S. Kocon	05/08/20
G	<ol style="list-style-type: none"> Added "Supplier shall contact Chandler purchasing for disposition prior to destruction of any records." to codes 6a, 6b, and 6c. Corrected various typographical errors. 	C. CLOUTIER	09/13/21	S. Kocon	09/13/21
H	<ol style="list-style-type: none"> Added CQR-17 and CQR-17a Special Customer Requirements 	C. MILLETTE	10/26/21	S. Kocon	10/26/21
J	<ol style="list-style-type: none"> Added DO/DX clarification to CQR-1e. 	T. Gehrls	11/11/21	S. Kocon	11/11/21
K	<ol style="list-style-type: none"> Added virtual source inspection requirements CQR-2d. Added acceptance and testing documentation requirements CQR-3m. Added PPAP requirements CQR-5b. 	S. Kocon	01/22/24	J. Straub	01/22/24
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REVISION	DESCRIPTION OF CHANGE	ORIGINATOR	DATE	APPROVAL	DATE
L	1. Corrected page numbers on pages 10 and 11	S. Kocon	01/23/2024	J. Straub	01/23/2024
M	1. Changed text in requirement 3h to clarify certification requirements.	S. Kocon	07/02/2024	J. Straub	07/11/2024
N	<p>1. Change CQR-6b from: From: "Aerospace: Supplier must maintain records pertaining to material, Manufacturing process, Special Processes, testing, and inspection for a minimum of (10) years as applicable."</p> <p>To: "Aerospace: The supplier shall retain quality records including but not limited to manufacturing process, special process, inspection and test data, and engineering data for a minimum of 10 years from the end of the contract or purchase order."</p> <p>2. Added CQR-6d Records must be maintained in the English language.</p>	S. Kocon	01/22/2025	J. Straub	01/30/2025



SUPPLIER AGREEMENT CONFIRMATION

(Supplier Name) _____, (Vendor ID) _____ agrees to fully comply with the requirements set forth in the Chandler Industries Supplier Quality Requirements.

Supplier Authorized Representative _____ Date _____

Title _____

Received by:

Chandler Industries Representative _____ Date _____

Division _____

Title _____