

Quality Clause Q12R
F-35 Program Critical Safety item – Specific Quality Requirements

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www.lockheedmartin.com/us/aeronautics/materialmanagement/scm-quality.html

The terms “Item”, “PO”, and “Buyer” used herein have the same meaning as “work”, “contract”, and “Lockheed Martin”, respectively, as may be defined in another provision of the Purchase Order (PO) of which this Quality Clause Q12R is a part.

All paragraphs referencing appendix QX are aligned with QX Rev.9. If Seller is under contract for a previous revision of Appendix QX, and if the applicable paragraph references are in question, Seller shall request clarification through the LM Aero procurement agent

1. PURPOSE:

The purpose of this Quality Clause is to describe the F-35 Program Critical Safety Item - Specific Quality Requirements.

2. SCOPE:

The requirement of this Quality Clause is applicable in full to the PO when the part number on this PO is listed on the CSI list 2YZA01237.

3. ACRONYM USAGE:

Critical Characteristic (CC) – Definition: any feature throughout the lifecycle of a Critical [Safety] Item, such as a dimension, tolerance, finish, material or assembly, manufacturing or inspection process, operation, field maintenance, or depot overhaul requirement that if nonconforming, missing, or degraded may cause the failure or malfunction of the Critical [Safety] Item.

Critical Safety Item (CSI) – Definition: A part, an assembly, installation equipment, launch equipment, recovery equipment, or support equipment for an aircraft or aviation weapon system if the part, assembly, or equipment contains a characteristic any failure, malfunction, or absence which could cause a catastrophic or critical failure resulting in the loss of or serious damage to the aircraft or weapon system; An unacceptable risk of personal injury or loss of life; or An un-commanded engine shutdown that jeopardizes safety. The CSI designation is generally applied to repairable and consumable parts (i.e. replenishment items.)

4. REQUIREMENTS:

- A. Seller shall comply with the notification requirements of Appendix QX with the following amendments:
1. Appendix QX, paragraph 1.1.a adds the following requirement: Sellers shall provide notification and supporting documentation of their change in business status, in accordance with SDRL J1150, CSI Change in Business Status
 2. Appendix QX paragraph 1.2 adds the following requirement: A change in Seller’s or Seller’s Sub tier shall provide notification and supporting documentation of

their change in manufacturing/repair location, or manufacturing/repair/overhaul facilities of a CSI, in accordance with SDRL J1151, CSI Change in Supplier Manufacturing, repair, or overhaul location. The Seller shall provide at least 90 days written notice, prior to relocation, and submit a relocation plan addressing such items as facilities, tooling, personnel, manufacturing schedules. However, it is highly recommended that formal notification be pursued a minimum 180 days in advance to allow for proper review and response to the Seller's relocation plan

- B. Seller shall comply with the Records requirements of Appendix QX with the following amendments:
1. Appendix QX paragraph 1.6.a.1 adds the following requirement: For Critical Characteristics, all inspection records shall include the CSI part number, drawing number, CC ID inspected (include in the CC process) if defined, serial number, actual reading or dimension observed, date of inspection, identity of inspector, and all required inspection certifications
 2. Appendix QX paragraph 1.6.a.2 is changed from three (3) years to ten (10) years
 3. Appendix QA paragraph 1.6.a.3 is changed from seven (7) years to ten (10) years
- C. Seller shall comply with the source selection requirements of Appendix QX with the following amendments:
1. Appendix QX paragraph 1.8 adds the following requirement: The Seller's or Seller's Sub tier shall only use Suppliers contained on the CSI Approved Suppliers List (CASL), 2ZZA00976. Proposed additions/deletions to the CASL shall be submitted in accordance with SDRL J1152, CSI New Source of Supply
- D. Seller shall comply with the Control of Nonconforming Product / Material Review Process, requirements of Appendix QX with the following amendments:
1. Appendix QX paragraph 2.3.6 adds the following requirement: Sellers with MRB Authority shall submit nonconformances affecting Critical Characteristics where "Use As Is" or "Repair" disposition is proposed to the Buyer for approval on a major variance or Supplier Quality Management Report (SQAR) in accordance with the instructions located at: <https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/aeronautics/quality-requirements/supplier-quality-management-system.html> prior to accomplishing the disposition.
- E. Seller shall comply with the following inspection methodology requirements:
1. If a change to the Inspection method/work instructions affecting a CC is necessary, the Seller shall submit their changes in accordance with SDRL J0738, Changes to CSI Critical Characteristics Manufacturing Work Instructions. Seller shall not implement changes until written approval is received from Buyer.
 2. Critical Characteristics (CCs) Inspection requirements:
 - a. All CCs must be 100 percent inspected
 - b. All inspection records include the CSI part number, drawing number, CC ID inspected (include in the CC process) if defined, serial number, actual

- reading or dimension observed, date of inspection, identity of inspector, and all required inspection certifications
- c. Seller shall not implement statistical process control or sampling inspection without prior written approval from Buyer.
 - d. For those CCs that require destructive testing or inspection the following rules shall apply:
 - I. Sampling inspection is to use ANSI/ASQ Z1.4 Single Sampling/Normal Inspection table with General Inspection Level III and an AQL of 0.4 on a lot or batch basis, with no skip lots allowed.
 - II. The Buyer must provide prior written approval for sampling criteria
- F. Seller shall comply with the following Candidate Critical Safety Item /Critical Characteristic requirements:
- 1. Sellers with Design Authority shall submit any candidate Sub-tier CSI parts per SDRL J1153, CSI Supplier Sub-tier Candidate
 - 2. Sellers with Design Authority shall submit any candidate CSI parts per SDRL J1154, CSI Critical Characteristic Candidates