

Quality Clause Q12R

Critical Safety Item (CSI) – Specific Quality Requirements

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<https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/aeronautics/quality-requirements/clauses.html>

PURPOSE

The purpose of this Quality Clause is to describe Critical Safety Item (CSI) - specific quality requirements.

SCOPE

This CSI requirement flowed from line items listed under identified CSI parts on the PO covers the application of the quality requirements for the programs listed below.

DEFINITIONS

- The terms “Item,” “PO,” and “Buyer” used herein shall 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 Revision 10. 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.
- Critical Characteristic (CC) – any feature throughout the lifecycle of a Critical Safety Item, such as, but not limited to, 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) – 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 of 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).

REQUIREMENTS

1. CORE

- A. Seller shall comply with the quality records requirements of Appendix QX with the following addition (i) and amendments (ii and iii):
 - i. For Critical Characteristics (CC), all inspection records shall include the CSI part number, drawing number, CC ID inspected (including the CC process) if defined, serial number, actual reading or dimension observed, date of inspection, identity of inspector, and all required inspection certifications.
 - ii. Requirement for record retention after final payment is changed from three (3) years to ten (10) years for CSI parts.
 - iii. Requirement for record retention after final payment after Special Process "Work" is changed from seven (7) years to ten (10) years for CSI parts.

2. F-35

- A. See [F-35 CSI part list](#) for the most current revision.
- B. Seller shall comply with the notification requirements of Appendix QX with the following addition:
 - i. Seller shall submit notification and supporting documentation of its change in business status, in accordance with SDRL J1150, "CSI Change in Business Status."
 - ii. Seller or Seller's Sub tier shall provide notice and supporting documentation of its 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 or Seller's Sub tier must provide notice, in writing, 180 days prior to relocation and must submit a relocation plan to the Buyer addressing such items as, but not limited to, facilities, tooling, personnel, and manufacturing schedules.
- C. Seller shall comply with the source selection requirements of Appendix QX with the following additions:
 - i. Seller or Seller's Sub tier shall only use suppliers contained on the CSI Approved Suppliers List (CASL), 2ZZP00076. The CASL is found in the F-35 Qualified Processors List for [QPL-2ZZP00076](#), which can be found in the JSF Document Library (JDL). Proposed additions/deletions to the CASL shall be submitted in accordance with SDRL J1152, "CSI New Source of Supply."
- D. Seller and Seller's Sub tier shall comply with the inspection methodology requirements of Appendix QX with the following addition:
 - i. If a change to the CSI CC Inspection method/work instructions affecting a CC is necessary, the Seller, or Seller's Sub tier, shall submit its changes in accordance with SDRL J0738, "Changes to CSI CC Manufacturing Work Instructions." Seller, or

Seller's Sub tier, shall not implement changes until written approval is received from Buyer.

- ii. CC's Inspection requirements:
 - a. All CC's must be 100 percent inspected unless prior written approval from Buyer is obtained to implement statistical process control or sampling inspection.
 - b. 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.
 - c. For those CCs that require destructive testing or inspection the following rules shall apply:
 - 1. 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.
 - 2. The Buyer must provide prior written approval for sampling criteria
- E. Seller and Seller's Sub-tier shall comply with the Control of Nonconforming Product / Material Review Process (MRB) requirements of Appendix QX with the following amendments:
- i. Seller and Seller's Sub tier, with MRB Authority, shall identify Critical Characteristics item(s) when Seller, or Seller's Sub-tier, item is a recommended "Use As Is" or "Repair" disposition for Buyer's 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>.
- F. Seller and Seller's Sub-tier shall comply with the following CSI requirements for proposed CSI parts where the Seller or Seller's Sub-tier has Design Authority:
- i. Submit proposed Sub-tier CSI parts in accordance with SDRL J1153 "F-35 Subcontract Data Requirement."
 - ii. Submit proposed CSI parts in accordance with SDRL J1154 "F-35 Subcontract Data Requirement."

3. F-16

- A. CSI Plan 16PP4379 Rev B paragraph E.1.i requires that the list of Aviation Critical Safety Items (ACSI) specified in DFARS 252.209-7010 shall be a subset of the complete ACSI list developed by the Engineering Support Activity (ESA).

4. F-22

- A. The F-22 CSI list resides in Enterprise Data/Collaborative System (EDCS).
- B. No additional CSI requirements needed at this time.

5. C-130

- A. The C-130 CSI list resides in Enterprise Data/Collaborative System (EDCS).
- B. No additional CSI requirements needed at this time.

6. ADP

- A. No additional CSI requirements needed at this time.

7. P-3

- A. The P-3 CSI list resides in Digital Information Management System (DIMS).
- B. No additional CSI requirements needed at this time.

8. C-5

- A. The C-5 CSI list resides in Enterprise Data/Collaborative System (EDCS).
- B. No additional CSI requirements needed at this time.

REFERENCES

- [Quality Appendix QX](https://www.lockheedmartin.com/content/dam/lockheed-martin/aero/documents/scm/Quality-Requirements/Quality-Appendices/AppQX_rev10.pdf): https://www.lockheedmartin.com/content/dam/lockheed-martin/aero/documents/scm/Quality-Requirements/Quality-Appendices/AppQX_rev10.pdf
- [F-35 CSI list](https://edcs-jsf.external.lmco.com/jsf/livelink?func=ll&objId=105480935&objAction=Open&nexturl=%2Fjsf%2Flivelink%3Ffunc%3DII%26objId%3D66108999%26objAction%3Dbrowse): <https://edcs-jsf.external.lmco.com/jsf/livelink?func=ll&objId=105480935&objAction=Open&nexturl=%2Fjsf%2Flivelink%3Ffunc%3DII%26objId%3D66108999%26objAction%3Dbrowse>