

Appendix QI

Intra-Lockheed Martin Work Transfer Agreement (IWTA)

Quality Requirements for Deliverable Items

REVISION RECORD

The latest issue to this document is the version that is available on the Lockheed Martin Aero website: <http://www.lockheedmartin.com/aeronautics/materialmanagement>.

Revision	Date	Changes
Original Issue	03/08/2010	Original Document for application of Quality Requirements for IWTA application. This serves as a "pilot" version to enable other Lockheed Martin Business Units to identify and understand LM Aeronautics quality requirements under IWTA.

* Revised ** Added *** Removed

TABLE OF CONTENTS

TITLE	PAGE
Revision Record	1
Table of Contents	2
1.0 Quality Requirements	2
1.1 Outsourcing Critical Items	3
1.2 Certificate of Conformance	3
1.3 Records	3
1.4 Calibration	3
1.5 Point of Acceptance	3
1.6 Control & Processing Nonconforming Material & Corrective Action	3
1.7 Material Review Authority	4
1.8 QCS-001 Requirements for LM Aeronautics-Designed Items	4
1.9 QCS-001 Requirements for Performing Business Unit-Designed Items	4
2.0 Federal Aviation Administration Requirements	4
2.1 First Article Inspection	5
2.2 Foreign Object Debris/Damage (FOD) Prevention	5
2.3 Software Quality Requirements	5
2.4 Metrics Reporting	5
2.5 Packaging and Shipping	5
2.6 Document Links	5
2.7 Facilities Access	5

The requesting Lockheed Martin Aeronautics business unit (“LM Aeronautics”) offering and assigning the Intra Lockheed Martin Work Transfer Authorization (“IWTA”) work and the Lockheed Martin business unit(s) performing the IWTA work (“LM Business Unit”) are mutually obligated to provide the capabilities, products and services needed to meet program and contractual requirements. LM Aeronautics and LM Business Unit shall function, view, and treat one another as team members in accomplishing the work assigned through the IWTA process.

The terms “Item(s)”, “Contract”, “Performing LM Business Unit”, and “Requesting LM Aeronautics Business Unit” as used herein, have the same meaning as the terms “Work”, “IWTA”, “LM Business Unit”, and “LM Aeronautics”, respectively.

1.0 Quality Requirements: LM Business Unit performing the IWTA work shall meet the requirements of the latest revision of this Appendix QI and all applicable requirements herein in effect as of the date of this IWTA. LM Business Unit shall ensure all applicable quality requirements are imposed upon sub-tier suppliers and manufacturing facilities. LM Business Unit shall ensure its quality system is compliant with a currently maintained and published consensus industry standard quality system specification as appropriate to LM Business Unit’s activities. Third party registration ISO/AS/EN Quality Management Systems (“QMS”) from an International Aerospace Quality Group / Americas Aerospace Quality Group approved registrar is required. LM Business Unit performing the IWTA work for F35 commodities shall be AS9100 certified.

- 1.1 Outsourcing of Critical Items:** LM Business Unit shall notify LM Aeronautics, in writing, when any key characteristic, interchangeable-replaceable features, fracture critical features, durability critical features, maintenance critical features, safety critical features, critical safety hardware/features, mission abort critical features, or changes affecting fit, form or function are to be subcontracted.
- 1.2 Certificate of Conformance:** LM Business Unit shall prepare a Certificate of Conformance (“CoC”) identifying all part number(s) and serial number(s) and asserting that the Items contained with the shipment are in total compliance with all applicable requirements of this IWTA. LM Business Unit shall annotate any exceptions in the delivery package.
- 1.3 Records:** LM Business Unit shall maintain complete records of all manufacturing, process capability (if applicable), tooling controlled per TMS-MC-015, and inspection and test, including copy of CoC, unless otherwise stated in this IWTA. Upon request, LM Business Unit shall make records available to LM Aeronautics for at least three (3) years after completion of the Work and for longer periods as may be specified elsewhere in this IWTA. LM Business Unit shall maintain records of all QCS-001 process control tests performed and inspection records of processed Items for at least seven (7) years after completion of this IWTA. Upon request, LM Business Unit shall provide records of inspection tests of processed Items and process control tests to LM Aeronautics.
- 1.4 Calibration:** LM Business Unit shall maintain a documented calibration system for the calibration and maintenance of tools, jigs, inspection and test equipment. LM Business Unit shall have and maintain a calibration system that is compliant to prevailing industry requirements in accordance with ISO 17025, ISO10012-1, ANSI Z540 or MIL-STD-45662.
- 1.5 Point of Acceptance:** The point of acceptance is indicated on each IWTA issued. When this IWTA requires LM Aeronautics acceptance @ source, acceptance can involve periodic surveillance of LM Business Unit’s quality system, manufacturing processes or physical Item, including work at all sub-tiers.
- 1.5.1** – Prior to shipment of Items designated “LM Aeronautics ACCEPT AT SOURCE”, the LM Business Unit shall obtain final acceptance (signature or stamp), at their facility, by LM Aeronautics representative. When LM Business Unit has been delegated end item acceptance authorization, LM Business Unit Quality representative shall sign and/or stamp and date shipping document on behalf of LM Aeronautics to indicate acceptance of Item(s) being shipped.
- 1.5.2** – Prior to shipment of Items designated “LM Aeronautics and Government ACCEPT AT SOURCE”, LM Business Unit shall obtain final acceptance (signature or stamp), at its facility, by LM Aeronautics representative. When LM Business Unit has been delegated end item acceptance authorization, LM Business Unit Quality representative shall sign and/or stamp and date shipping document on behalf of LM Aeronautics to indicate acceptance of Item(s) being shipped. In addition, LM Business Unit shall obtain final acceptance from the assigned Government representative. LM Business Unit shall reference such acceptance in the shipping document, where applicable.
- 1.6 Control and Processing Nonconforming Material and Corrective Action:**

1.6.1 – LM Business Unit shall implement and maintain a documented quality system that provides for identification, documentation, and disposition of nonconforming material. LM Business Unit shall ensure effective corrective and preventive action is taken to prevent, minimize, or eliminate nonconformances.

1.6.2 – LM Business Unit shall maintain records of all nonconforming material, dispositions, assignable causes, corrective and preventive actions, and effectiveness of corrective actions for the period specified in this IWTA.

1.7 Material Review Authority:

1.7.1 – LM Business Unit has Material Review Authority (“MRA”) for Items of its design, except for nonconformances that affect a parameter controlled by LM Aeronautics drawing or specification, where form, fit or function, interchangeability, Critical Safety Characteristic (“CSC”) related to Critical Safety Item (“CSI”) service life or reliability is affected. Upon request by LM Aeronautics, LM Business Unit shall provide LM Aeronautics with LM Business Unit’s MRB disposition information related to LM Aeronautics’ Item(s).

1.7.2 – Disposition authority for Items of LM Aeronautics design is limited to scrapping of Items, eliminating the nonconformance by rework to engineering, or returning to vendor. LM Business Unit shall submit all other nonconformances to LM Aeronautics for material review (“MR”) dispositions as required by this IWTA. LM Business Unit shall not continue processing Item(s) or incorporating any nonconformances into any Item, process, procedure or data that affects a parameter controlled by LM Aeronautics drawing or specification or affects form, fit or function, interchangeability, service life or reliability unless and until LM Business Unit has received prior written approval from LM Aeronautics. Upon prior written approval from LM Aeronautics, LM Business Unit’s continued processing shall be limited to subsequent operations that do not hide, alter or limit the ability to inspect, disposition or repair the Item.

1.7.3 – When LM Aeronautics customer has delegated oversight/surveillance of work to an on-site Government representative at LM Business Unit’s facility, LM Business Unit shall submit all material review dispositions for LM Aeronautics related work to the on-site Government representative for concurrence.

1.7.4 – LM Aeronautics and its customers shall each have the right to refuse to accept any LM Business Unit’s nonconformances.

1.8 QCS-001 Requirements for LM Aeronautics-Designed Items:

1.8.1 – QCS-001 sets forth both the controlled processes and the process sources that require LM Aeronautics approval, prior to use by LM Business Unit for Items delivered under this IWTA.

1.8.2 – LM Business Unit shall require and ensure all levels of sub-tiers be approved and listed in QCS-001 for those processes covered by QCS-001.

1.9 QCS-001 Requirements for LM Business Unit-Designed Items: LM Business Unit has the authority and responsibility to approve and control its processing sources including in-house processes.

- 2.0 Federal Aviation Administration Requirements For LM Business Unit.** When Items delivered under this IWTA are subject to FAA conformity, LM Business Unit shall have a quality system approved by the Federal Aviation Regulations Part 21, and acknowledges that its quality system is subject to Federal Aviation Administration (“FAA”) audit without notice. When Items delivered under this IWTA are subject to FAA certification, LM Business Unit shall obtain FAA conformity by an authorized FAA designee on first production Items as specified by LM Aeronautics. LM Business Unit shall ensure Items requiring FAA conformity are accompanied by a properly authorized “FAA 8130-3” air worthiness approval tag.
- 2.1 First Article Inspection (FAI)** – LM Business Unit shall establish and maintain internal processes for the accomplishment of each First Article Inspection (“FAI”). For F35 Program IWTA’s FAI shall be accomplished in accordance with Quality Clause Q2A
- 2.2 Foreign Object Debris/Damage Prevention** – LM Business Unit shall maintain a Foreign Object Debris/Damage (“FOD”) prevention program in accordance with Quality Clause Q4R
- 2.3 Software Quality Assurance** – LM Business Unit shall establish and maintain, as part of the quality system, a Software Quality Assurance program, acceptable to LM Aeronautics for both deliverable and non-deliverable software products in accordance with Appendix Q6R.
- 2.4 Metrics Reporting** – LM Business Unit shall provide quality performance metrics to the LM Aeronautics upon request. The content and frequency of quality metric performance will be determined and agreed to by LM Aeronautics and LM Business Unit. For F35 Program IWTAs the LM Business Unit shall comply with requirements of Quality Clause Q30.
- 2.5 Packaging and Shipping** – LM Business Unit shall utilize the most current revision of LM Aeronautics document PM-5010 for packaging and shipping. See paragraph titled Document Links to locate this specification.
- 2.6 Document Links** – LM Business Unit may obtain LM Aeronautics-unique documents (e.g., Q2A, Q30, TMS-MC-015, etc.) mentioned in and part of this IWTA from LM Aeronautics’ website at: <http://www.lockheedmartin.com/aeronautics/materialmanagement/quality/index.html> LM Business Unit may obtain copies of Aerospace Standards (AS/EN documents) from the Society of Automotive Engineers at: <http://www.sae.org>.
- 2.7 Facilities Access** – LM Business Unit shall provide or obtain for LM Aeronautics, LM Aeronautics’ customers and regulatory agency personnel, access to any and all facilities where Work is being performed or is scheduled to be performed, including those facilities of LM Business Unit’s subcontractors at every tier, in order to perform Item inspections, surveys or system/process surveillance as part of verification of conformance to the requirements of this IWTA. LM Business Unit’s denial of any such access may result in discontinuance of IWTA work. LM Business Unit shall flow down this Appendix QI facility access requirement to its subcontractors with instructions that it is to be flowed down to subcontractors at every tier.