

Quality Clause Q2A Revision Log

Last Revised: 29 June 2023

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REV	DATE	CHANGES
16	06/29/2023	Major re-write to bring up-to-date with industry AS9102 Rev C changes. Added LM Compliance Matrix requirements where applicable.
15	11/21/2022	Periodic accuracy review of Clause – No Changes
	1-31-2019	Major Re-Write. Reference the FOREWORD for a detailed explanation.
14	12-14-2017	<ol style="list-style-type: none"> 1. Updated Purpose 2. Removed verbiage on cost, price or fee various from paragraphs 3. Deleted paragraph 2.D 4. Updated the definition of Critical Item 5. Updated 4.E on flow down to clarify requirement 6. Updated 4.G to add requirement to review 2GNA00001 for FAI requirement on standard hardware 7. Updated 4.K to clarify “failed” FAI to mean the same as “not complete” 8. Updated 4.M to add Note 9. Deleted 4.N 10. Updated 5.A.1 to allow for alternate to ballooning 11. Added additional detail to 5.A.4 12. Added 5.A.13 on machine-readable part making 13. Added note to 5.B 14. Deleted 5.C.3 as it is a redundant requirement 15. Deleted 5.D.4, 5.D.5 & 5.D.6 and moved to new section 5.E 16. Created section 5.E, making Production Repeatability Demonstration clearly separate from FAI 17. Updated 5.F.1

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13	6-22-2016	<p>Summary of changes:</p> <ol style="list-style-type: none"> 1. Revised para. 2.A to remove applicability of Q2A to lower-level detail parts 2. Revised para. 2.B to fix broken link 3. Moved para. 4.F IV.A and renumbered remaining paragraphs 4. Revised para. 4.E to clarify “applicable” flow down to sub-tiers 5. Revised para. 4.F to replace “delta” with “partial” FAI; added sub-paragraph numbers for clarification 6. Revised para. 4.G.5 to reduce requirements for mandatory partial or full FAI 7. Revised para. 4.G.6 excluding spares from FAI requirements 8. Revised para.4.H to be inclusive of all programs 9. Revised para. 4.J for clarity 10. Revised para. 4.K to add 5 day reporting time 11. Revised para. 4.L to simplify wording to comply with AS9102 forms usage and completion 12. Revised para. 4.M to remove 48 hour requirement 13. Revised para. 5.A.1 and 5.A.12 for clarity 14. Moved para. 5.B.4 to 5.D.4 15. Revised para. 5.D.4 for clarity 16. Revised para. 5.E.1 and 5.E.3 for clarity and deleted 5.E.4 17. Added Q2A Revision Log
12	10-6-2015	<p>Major Re-Write. Summary of major changes: (1) Updated the Scope section and added new definitions to the Definitions section; (2) Required FAI on the first production unit and required the FAI to be defect free; (3) Re-organized Q2A and added an FAI Planning section and Post FAI Sustainability section; (4) Eliminated differences between Buyer-designed and Seller-designed FAI requirements; (5) Changed FAI from 6 pieces to 3 pieces from 3 different lots/batches</p>
11	3-25-2015	<p>Summary of changes:</p> <ol style="list-style-type: none"> 1. Revised J.8 (F-35) and J.9 (C-130) to reference new section Q which defines minimum requirements for product verification. 2. Added new section Q – defines minimum requirements for product verification tools and practices for major aircraft assemblies excluded from AS9102 FAI requirements on F-35 and C-130 programs.

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10	11-27-2012	<p>Summary of changes:</p> <ol style="list-style-type: none"> 1. Added a section for "Definition" at beginning of document <ol style="list-style-type: none"> a. Defines "First Article Inspection Planning" prior to first production run parts and includes typical elements of the Planning b. Defines "First Production Run Parts" c. Defines "Digital Production Definition" <ol style="list-style-type: none"> 2. Under Section J – added the following exclusion statement for C130: <p style="margin-left: 40px;">"C-130 Program major aircraft assemblies, to include mid-fuselage panels, forward/aft plug panels, spare center wing assemblies, and the empennage sections, are not subject to FAI, but traditional product verification tools and practices will be conducted to ensure conformance to the engineering and integrity of build processes."</p> 3. Revised the section on FAI Entrance Criteria to include a reference to FAI Planning 4. Added the following bullet to the listing of criteria for declaring an FAI complete for Seller-designed Items "Completion of Safety of Flight and Qualification, with no variances existing for the purchased part"
9	10-17-2012	<p>Summary of changes:</p> <ul style="list-style-type: none"> • Added note to General Requirements to flow FAI requirements to F-35 Program Teammates BAE and NGC • Added paragraph to Section J detailing F-35 Program assemblies not subject to FAI • Section P – clarified Exit Criteria requirements of Q2A
8	9-12-2011	<p>Summary of changes:</p> <ul style="list-style-type: none"> • Applicability of AS9102 and/or Q2A to suppliers and their sub-tiers, per Paragraphs A and D. • Modified exit criteria for Build-to-Print suppliers • Allowance for suppliers to adjust inspection methodology during the FAI process per internal procedures • Clarification regarding the creation and closure of just one FAI report (AS9102 forms or equivalent) for each FAI part number only
7	2-14-2011	<p>Major Re-Write. Summary of major changes: (1) AS9102 FAI forms 1 and 2 must be completed prior to manufacturing start, with form 3 completed when exit criteria met; (2) Defines FAI Entrance and Exit Criteria; (3) Requires SQE Validation Touch Points for all FAIs – Differs slightly between Buyer-design and Seller-design suppliers (3) Risk Score developed for SQE Engagement on Buyer-designed parts - Low, Medium or High Oversight Levels obtained based on score; (4) Ability to re-accomplish FAIs with no added cost to PO based on part performance</p>

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6	7-29-2009	(1) Added Note 3 – denotes applicability of AS9102; (2) Added requirement for FAI documentation to be completed in the English language; (3) Re-write of Para. E; (4) Para. F – (a) Removed from Para. F the requirement that FAI applies to the first Item or lot of end Items, sub-assemblies and detail Items; (b) Removed from list Items not requiring FAI spares for an after-market program; (5) Re-write Para. K; (6) Removed requirement for Seller to obtain written authorization when deviations and/or deferrals of the FAI requirements are beyond the scope of this document.
5	8-14-2008	(1) Updated PQAFE references to Procurement Quality Assurance Supplier Quality Engineer (PQASQE); (2) Added clarification to the requirement for the Seller to perform a partial or full First Article Inspection (FAI) for changes to non-deliverable software and revisions in programming used in numerical controlled machines, test stations, coordinated measuring equipment, etc.; (3) Added clarification for Seller to adhere to AS9102 Para. 5.3.
4	1-16-2008	(1) Updated PQAR references to Procurement Quality Assurance Field Engineer (PQAFE); (2) Added “(including firmware/software)” to Para. F; (3) Minor grammatical revisions
3	8-31-2005	(1) Revised Para. K to add “assigned Procurement Quality Assurance Representative” after “Buyer”. (2) Revised Para. M to better define Seller’s use of document versions
2	8-15-2005	(1) Added new Paragraph C - provides instructions on Seller-Designed items associated with an LM Aero Source Control Drawing and/or Specification Control Drawing (2) Revised Paragraph E (formerly Para. D) to require Seller to contact Procurement Quality Assurance (PQA) Representative prior to creating a FAI plan. Also defines the PQA Representative’s involvement in the FAI process from the inception to the completion of the FAI. (4) Corrected AS9102 references to AS9102A.

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1	6-1-2004	<ul style="list-style-type: none">• Paragraph A – Rewritten to fully align with AS 9102A. This removes the exceptions to AS 9102 Rev Original for certain input blocks on the original forms. Updated forms in AS 9102A fully suffice for LM Aero.• Paragraph B – Added items 8 and 9 as clarification for additional items exempt from FAI as shown below:<ul style="list-style-type: none">8. Items that have been returned by Buyer for either “rework and/or repair.”9. Items procured to a Buyer’s part number where the Buyer has not developed drawings and/or specifications controlling the item’s physical and functional requirements.• Paragraph D – Reworded to better address FAI schedules. This clarifies the need to coordinate FAI schedules for procurement of assemblies and systems.• Paragraph G – Reworded, AS 9102A now clearly defines forms usage & options.• Added Paragraphs:<ul style="list-style-type: none">K – Deferral of FAIL – Added supplier’s ability to use Q2A Revision A in lieu of previously imposed FAI clausesM – Provides applicability of AS 9102A, paragraph 5.3.5 regarding the requirement to perform a new FAI when there has been a lapse in production for two years or as specified by customer. Paragraph 5.3.5 will be applicable, if the supplier performed the initial FAI to Quality Clause Q2A.
Original	7-1-2003	N/A – Issuance of Original Version of Quality Clause Q2A