

Q2A – First Article Inspection (FAI) – AS9102

* Revised ** Added

NOTE: A hard copy of this document may not be the document currently in effect. The current

GENERAL REQUIREMENTS:

- A. All elements of this clause are applicable to the PO line item(s) referenced on Buyer's PO. Any lower-level detail parts which comprise the top level PO line item (if applicable) will comply with the First Article Inspection requirements as stated in AS9102. Seller may obtain copies of AS9102 from the Society of Automotive Engineers at: www.sae.org. Forms can be obtained at: <http://www.sae.org/aaqg/publications/AS9102-faq.htm>. References to AS9102 in this document refer to the revision in effect at the time of the PO, or Seller may work to a more current version of AS9102, if desired, at no additional cost, price, or fee of the PO.

NOTE: F-35 Program Teammates BAE and NGC shall perform FAIs in accordance with AS 9102, including flow down of AS9102 for procured products, except those that meet the requirements of Paragraph J.

- B. Buyer reserves the right to require Seller to perform an FAI, at Buyer's request, at no additional cost, price, or fee of the PO.
- C. Seller shall document completion of the FAI in the English language.
- D. All elements of this clause are applicable to the Seller's facility address referenced on Buyer's PO. If Seller's Item manufacture, processing, acceptance, and shipment will be performed at or from a location other than the contracted PO address, the entrance / exit requirements outlined below must flow to those sub-tiers suppliers and/or manufacturing sites.
- E. For "Buyer-Designed Items", Sellers procuring or manufacturing Items requiring AS9102 compliance shall contact Buyer's assigned Supplier Quality Engineer a minimum of 5 days prior to Seller procuring Items or beginning any manufacturing activity for the PO. Buyer's assigned Supplier Quality Engineer may elect to review or participate in Seller's FAI process at any time throughout the FAI process based on the complexity/criticality of the Item and Seller's performance to Buyer's requirements.
- F. Distributors that procure Buyer-designed Items shall ensure that the manufacturer has performed FAI and that documentation is available upon request.
- G. For "Seller-Designed" Items associated with Buyer-released engineering definition (i.e. Buyer Source Control Drawing, Buyer Specification Control Drawing, Seller Interface Control Drawing), Seller, at a minimum, shall meet Buyer's FAI requirements. Seller shall document the results in the FAI report. Buyer shall have the right to request additional verification of the FAI process as may be required by Buyer's Program or other quality requirements. Seller shall contact Buyer's assigned Supplier Quality Engineer a minimum of 5 days prior to Seller procuring Items or beginning any manufacturing activity for the PO. Buyer's assigned Supplier Quality Engineer shall participate in the FAI process at any time from inception until the FAI is complete. The degree of Buyer's Supplier Quality Engineer participation will be dependent on the complexity/criticality of the Item and Seller's performance to Buyer's requirements.
- H. If and when Seller incorporates any engineering change (including special processing, software, or firmware) that has the potential to affect form, fit, function, safety, or reliability, Seller, without further direction from Buyer, shall perform partial or full FAI as required by AS9102. Seller shall perform partial or full FAI, at no increase in the cost, price, or fee of the

- K. Seller shall ensure that discrepancies and non-conformances, if any, discovered during the FAI are documented and dispositioned by the appropriate Material Review Board ("MRB") actions, (i.e., Seller's MRB for Seller's design and Buyer's MRB for Buyer's design).
- L. Seller shall comply with the forms usage and completion requirements stated in AS9102. Seller shall complete all fields, but may mark a field as not applicable by indicating "N/A", if appropriate.
- M. For subsequent lots, Seller shall present FAI documentation records for validation to Buyer's assigned Supplier Quality Engineer, if requested by such Supplier Quality Engineer.
- N. Seller shall maintain documentation of FAI results on each deliverable end Item for the period specified by the PO. Seller shall provide to Buyer, within 48 hours of a request by Buyer, a complete copy of FAI reports at no increase in the cost, price, or fee of the PO.
- O. Seller may use the latest revision of Quality Clause Q2A to meet FAI requirements in any other PO with prior versions of Quality Clause Q2A imposed between Buyer, acting for and through Lockheed Martin Aeronautics Company, and Seller, provided that Seller does so at no increase in price, cost, or fee of the PO.
- P. Seller shall use internal processes / procedures, as defined in Seller's Quality Management System, to verify product conformance to the FAI Exit Criteria requirement of Q2A (5 Items for Buyer-designed or 2 Items for Seller-designed), once AS9102 forms have been completed for one (1) part.

DETAILED REQUIREMENTS:

FAI Entrance Criteria

- A. Buyer-designed items: FAI documentation requirements (AS9102 forms or equivalent) begin once FAI planning is complete and production of deliverable parts begins with released, baseline engineering. Only one FAI report (AS9102 forms or equivalent) will be required.
Note: Exceptions or deferrals will be per Buyer's direction.
- B. Seller-designed items: FAI documentation requirements (AS9102 forms or equivalent) begin once FAI planning is complete and production of deliverable parts begins with released baseline engineering, approved Acceptance Test Procedure(s)(ATP), or approved variances (i.e., for yet to be approved ATPs) and Buyer's Supplier Quality Engineer has been notified. Only one FAI report (AS9102 forms or equivalent) will be required.
Note: Exceptions or deferrals will be per Buyer's direction.

- Manufacturing of a minimum of (6) consecutive parts,
- Internal rework quantities equal to 66 internal rework defects per thousand inspection points,
- Initiation of no more than two (2) Seller-responsible SQAR documents requiring MRB action for the minimum (6) consecutive parts,
- Completion of the FAI report created during the FAI Entrance phase,
- Documented evidence of adherence to PM-5010 "Supplier/Seller Shipping Instructions" and PM-801 "Seller Packaging, Handling, Storage and Transportability Instructions for Direct Shipment of Items to the U.S. Government via Wide Area Work Flow" (when applicable), and
- Documented evidence of adherence to Appendix QJ, including plans for validating conformance of Special Processes performed in-house or subcontracted.

Note: Exceptions or deferrals will be per Buyer's direction.

B. **Seller-designed items:** FAI will be declared complete upon:

- Validation of each element of the applicable time-bound FAI package (to include process controls for key parameters) with supporting objective evidence,
- * • Completion of Safety of Flight and Qualification, with no variances existing for the purchased part,
- Successful completion of first-pass final ATPs for item / system on (3) consecutive production units,
- Completed sub-tier FAI documentation, as applicable,
- Validation of sub-tier assembly/detail FAI(s) with supporting objective evidence, including validation of conformance of subcontracted Special Processes,
- Completion of the FAI report created during the FAI Entrance phase, and
- Documented evidence of adherence to PM-5010 "Supplier/Seller Shipping Instructions" and PM-801 "Seller Packaging, Handling, Storage and Transportability Instructions for Direct Shipment of Items to the U.S. Government via Wide Area Work Flow" (when applicable).

Note: Exceptions or deferrals will be per Buyer's direction.