

Summary of Changes

095870 Supplier Quality Assurance Manual (SQAM)

Rev 16

This serves as notification that our BAE Systems Supplier Quality Assurance Manual (SQAM) has been updated. Please note that the changes below are listed with the older version first, then the new revision is below it, unless otherwise noted. Please see the following changes/additions/deletions:

Legend:

- Addition
- Change
- Deletion

4.0 Order of Precedence

In the event of a conflict between the requirements contained within this purchasing agreement, the following order of precedence shall apply:

- Authorized changes to the purchasing agreement
- Purchasing Agreement (Note: may include notes attached to the purchase order and/or configuration notes on the CQR, etc.)
- 095871 Contract Deliverable Requirements (CDR)
- 095870 Supplier Quality Assurance Manual (SQAM)
- Authorized Changes to the Drawing(s) (i.e. ADCN, NOR, etc.)
- Drawing(s)
- Applicable Acceptance and Quality Specifications (Performance Specification, QAP, SQAP, QAR, SPS, etc.)
- Specifications cited on the Drawing
- Documents cited within Specifications

Control of the TDP applies to all documents the Supplier provides to their sub-tier Suppliers. The Supplier to BAE Systems, CMS, is fully responsible for the work performed by sub-tier Suppliers. (Note: this includes Suppliers directed by BAE Systems, Suppliers that may be listed on the BAE Systems' Approved Supplier List, or Suppliers selected by the Supplier).

4.0 Order of Precedence

In the event of a conflict between the requirements contained within [the Purchasing Agreement](#), the parties agree that the order of precedence terms set forth in the applicable BAE Systems' terms and conditions, such as [BAEDOC USGOV](#), [NONUSGOV](#), etc. (located [here](#)), in Section 3 Precedence (or any

negotiated replacement of the same) shall apply. As used in therein, the term "special provisions" includes (but is not limited to) the following, in descending order of precedence:

- Notes attached to the Purchase Order and/or configuration notes on the Contract Quality Requirements, etc.
- 095871 Contract Deliverable Requirements (CDR)
- 095870 Supplier Quality Assurance Manual (SQAM)

The phrase "specifications or drawings" means the following, in descending order of precedence:

- Authorized Changes to the drawing(s) (e.g., ADCN, NOR, etc.);
- Drawing(s)
- Applicable Acceptance and Quality Specifications (Performance Specification, QAP, SQAP, QAR, SPS, etc.)
- Specifications cited on the drawing
- Documents cited within specification

Control of the TDP applies to all documents the Supplier provides to their sub-tier Suppliers. The Supplier to BAE Systems, CMS, is fully responsible for the work performed by sub-tier Suppliers. (Note: this includes Suppliers directed by BAE Systems, Suppliers that may be listed on the BAE Systems' Approved Supplier List, or Suppliers selected by the Supplier).

8.2 Quality Management System

The Supplier shall develop, document, implement and maintain a quality system, which ensures compliance to all purchasing agreement requirements. The quality system shall be compliant with ISO 9001-2015 (or latest version), AS 9100, TS 16949, IATF 16949, NADCAP, ISO/IEC 17025 or a quality system approved by an Accredited Third Party Registrar. Certification to ISO 9001/AS9100/TS 16949/IATF 16949/NADCAP/ISO/IEC 17025 by an accredited registered third party is required unless otherwise stipulated within the contract (Purchase Order). Objective evidence shall be on file verifying that such a system exists, is being maintained, and is compliant with the standard requirements. Supplier representatives, upon request, shall make procedures and records available for examination. BAE Systems reserves the right to audit the Supplier at any time with prior notice.

8.2 Quality Management System

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BAE Systems, Phoenix AZ part suppliers are required to comply with AS9100D Clause 8.4.3m. "Information for External Providers" by ensuring that all supplier personnel and sub-tier supplier personnel are "aware of their contribution to product or service conformity, their contribution to product safety and the importance of ethical behavior."

8.3 Inspection

The Supplier will inspect the First Piece (FP) / First Article Inspection - FAI manufactured for this Purchasing Agreement to all drawing characteristics, drawing notes and Purchasing Agreement requirements and will maintain on file a report which includes the following elements:

- Supplier's name and the manufacturing address
- Purchasing agreement number and line number
- Item number/Part Number, description, and revision as they appear on the purchasing agreement
- Lot quantity
- Certificate of compliance for the delivered item (as defined by paragraph 8.5)
- Material certificates/ballistic firing records (where applicable)
- Special process certifications (where applicable)
- Inspection Report
- Balloon Drawing
- Picture of identification marking
- First Article Test/Inspection reports (where applicable)
- Production test reports (where applicable)
- Date of last control test and next control test, and, if a control test was performed on the current lot, a copy of the control test report (where applicable)
- Verification of all drawing notes, dimensions, and associated QAP/QAR/SQAP/SPS/ Specification requirements, with the requirement and measured values recorded. **Variable data shall be recorded with actual values measured for each sample.** The Supplier shall provide traceability from the measured value to the drawing characteristic; e.g. ballooned drawing (all characteristics, including drawing notes, numbered)
- For assemblies, verification of all component-level (those components identified on the top-level drawing or are identified in the BOM listed on the top level drawing) drawing notes, dimensions, and associated QAP/QAR/SQAP/SPS/ Specification requirements, with the requirement and measured values recorded. **Variable data shall be recorded with actual values measured for each sample**
- Inspector's name, signature, and date (electronic or digital signatures are acceptable)

The First Piece/First Article Inspection report will be submitted to BAE Systems as required by the Purchasing Agreement. BAE Systems reserves the right to request additional copies of First Piece/First Article and In-process inspection records at any time. Requests for records shall be fulfilled within five (5) business days.

(Note: If product under this purchasing agreement has been in continuous production and has not been changed since the last order, an additional first piece requirement is not required. Continuous production is defined as no break in production or process in excess of twenty-four (24) months, unless otherwise directed)

Following the First Piece/First Article Inspection, the Supplier shall have a process in place, which ensures that all supplied product is compliant to all Purchasing Agreement requirements. This process shall consist of a C=0 sampling plan, SPC, or any other method which ensures that the final shipped product is compliant. If required by contract the Supplier may be required to submit a plan to BAE Systems for

approval. Record of the plan approval shall be kept on file with the first piece acceptance documentation. If the first piece fails to meet the functional, dimensional or TDP requirements, a new first pc must be generated, tested and measured. Likewise, if the manufacturing process or design of the part changes, new parts are to be obtained that represents this new process/design and a delta First Piece/First Article inspection is required.

Inspection requirements for certain special processes, testing, and fasteners:

- Visual weld inspection sample shall be 100% or per applicable specification requirements
- Verification/validation of finishing processes shall be performed on each manufacturing lot unless a higher frequency is required by the relevant specification
- Non-Destructive Evaluation (NDE) / Non-Destructive Testing (NDT) as required by specification/contract.
- Frequency-based testing such as sample/quantity or sample/time period shall be followed unless a higher frequency is required by the relevant specification.
- Documented/specified fastener quality assurance requirements shall be followed.
- All visual inspection and NDT on armor and low alloy steel (100KSI tensile strength or greater) shall be completed no earlier than 48 hours after completion of welding.

Parts for which the design is proprietary to the Supplier, or their sub-tier Supplier, and which are ordered to the Supplier/Sub-tier Supplier's part number shall only require a certificate of conformance from the manufacturer.

The Supplier shall maintain records documenting product compliance to all applicable purchasing agreements, drawings, specifications, and standards for a period of ten (10) years for Phoenix orders and seven (7) years for all other sites after order completion. At the end of this period, if the Supplier desires to dispose/destroy the records, the Supplier shall contact BAE Systems and request disposition instructions, which may include authorization to destroy the records or instructions to forward the records to a BAE Systems facility.

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- Inspection Report
- Balloon Drawing
- Picture of identification marking
- First Article Test/Inspection reports (where applicable)

- Production test reports (where applicable)
- Date of last control test and next control test, and, if a control test was performed on the current lot, a copy of the control test report (where applicable)
- Verification of all drawing notes, dimensions, and associated QAP/QAR/SQAP/SPS/ Specification requirements, with the requirement and measured values recorded. **Variable data shall be recorded with actual values measured for each sample.** The Supplier shall provide traceability from the measured value to the drawing characteristic; e.g. ballooned drawing (all characteristics, including drawing notes, numbered)
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Coated Parts Requirements:

The following applies to items which are coated or contain coated components. For this provision, coating is defined as a layer of material deposited onto the surface of another material to enhance the surface properties for corrosion and wear protection including but not limited to paint, electroplate, anodize and chemical film deposition.

The Supplier shall measure dimensions in accordance with the drawing notes for the coated item.

For parts without drawing notes specifying when dimensions apply, the Supplier shall use the following criteria:

- Organic Coatings (CARC and non-CARC painting): Supplier shall measure dimensions prior to coating.

- Inorganic Coatings (electro and electroless plating, anodize, chemical film, dry lubricant):
Supplier shall measure dimensions after coating.

Inspection requirements for certain special processes, testing, and fasteners:

- Visual weld inspection sample shall be 100% or per applicable specification requirements
- Verification/validation of finishing processes shall be performed on each manufacturing lot unless a higher frequency is required by the relevant specification
- Non-Destructive Evaluation (NDE) / Non-Destructive Testing (NDT) as required by specification/contract.
- Frequency-based testing such as sample/quantity or sample/time period shall be followed unless a higher frequency is required by the relevant specification.
- Documented/specified fastener quality assurance requirements shall be followed.
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Parts for which the design is proprietary to the Supplier, or their sub-tier Supplier, and which are ordered to the Supplier/Sub-tier Supplier's part number shall only require a certificate of conformance from the manufacturer.

The Supplier shall maintain records documenting product compliance to all applicable purchasing agreements, drawings, specifications, and standards for a period of ten (10) years for Phoenix orders and seven (7) years for all other sites after order completion. At the end of this period, if the Supplier desires to dispose/destroy the records, the Supplier shall contact BAE Systems and request disposition instructions, which may include authorization to destroy the records or instructions to forward the records to a BAE Systems facility.

9.5 BAE Systems, Phoenix, AZ – Additional Quality Requirements**9.5.1 Dock-to-Stock Part Shipments**

Dock to Stock (DTS) Supplier: Designated Quality Representative (DQR) Certified shipments require a Certificate of Compliance (C of C) only. All other documentation identified with the part Contracts Deliverable Requirements (CDR's) must remain on file at your facility. Note: All certification and test documentation must accompany a First Article Shipment.

9.5.2 Supplier Documentation Retention

The Supplier shall maintain records documenting product compliance to all applicable purchasing agreements, drawings, specifications, and standards for a period of ten (10) years after order completion. At the end of this period, if the Supplier desires to dispose/destroy of the records, the Supplier shall contact BAE Systems and request disposition instructions, which may include authorization to destroy the records or instructions to forward the records to a BAE Systems facility. This requirement supersedes all document retention length requirements stated elsewhere in the SQAM.

9.5.3 REACH Compliance

Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), is a regulation of the European Union (EU), adopted to improve the protection of human health and the environment from the risks that can be posed by chemicals. For contracts with REACH requirements for products being

exported to the EU, a declaration needs to be submitted with the initial product delivery identifying any substances that are included in the Substances of Very High Concern (SVHC) list published by the European Chemicals Agency (ECHA). The components supplied to BAE Systems may be included in assemblies that are exported to the EU either directly or through US-based customers. The supplier shall identify any substances present in the article (component) produced that are included in the SVHC list. This includes any surface treatments (plating, coating, painting, etc.) performed by sub-tier suppliers. The supplier shall submit a REACH Assessment with each purchase order listing the identified substances found on the current SVHC list. If available, the Chemical Abstracts Service (CAS), identification number of the SVHC substance shall be included in the REACH Assessment. If there are no SVHC substances present in the article, the supplier's REACH Assessment should state "Article supplied does not contain SVHC". The REACH Assessment shall include the date of the assessment along with the PO number and the part number.

The SVHC list can be found at this link: <https://echa.europa.eu/candidate-list-table>. New substances are regularly added to the SVHC list, so the assessment against the current list is required for each purchase order.