

Supply Quality Assurance Manual

Rev 05, September 1, 2015



Platforms & Services

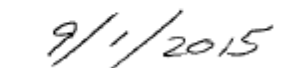
BAE SYSTEMS
INSPIRED WORK

00	11/27/12	New Document Release		06
01	9/3/2013	Addition of amendment A into SQAM document. CDR updates	Tom Frazho	07
02	1/14/14	Change to 8.11; change to 6.1; change to 6.2	Tom Frazho	07
03	2/19/15	Changes/additions/deletions made to the following sections: 2.0; 3.1; 3.2; 3.3; 3.4; 3.5; 4.0; 5.1; 5.2; 6.1; 6.2; 6.5; 7.1.1; 7.1.2; 8.1; 8.2; 8.3; 8.4; 8.5; 8.6; 8.8; 8.10; 9.1; 9.3; 9.4	Tom Frazho	09
04	5/11/15	Added 6.6 Traceability of Specialty Metals	Tom Frazho	11
05	09/01/15	Added 7.1.2.1, revised 9.4, revised 7.2	Tom Frazho	11

Approved By Signature:



Date:



Preface

“BAE Systems is committed to providing its customers with products and services which demonstrate safety, quality, reliability, and innovation. It is our objective to meet all customer requirements with the aim of exceeding their expectations and enhancing customer satisfaction. We monitor our process performance, review our quality objectives, and maintain compliance to the Quality Management System and applicable regulatory requirements. BAE Systems strives to continually improve our products and processes from design to delivery, including employee safety, waste reduction, and pollution prevention to ensure the sustainability of our company”.

We strive to continually improve our process performance by meeting quality objectives, and maintain compliance to the applicable regulatory requirements of our work environment. It is imperative that our business partners operate with the goal of zero defects and 100% on-time delivery and strive to maintain a quality system that ensures continual improvement in the quality and delivery of the product/service. Emphasis should be on defect prevention and the reduction of variation and waste in the supply chain, with the ultimate goal of providing the best product, on-time, and at the best cost in support of the war fighter.

Table of Contents

- 1.0 ACRONYMS 5**
- 2.0 INTRODUCTION..... 6**
- 3.0 CONTRACTS..... 6**
 - 3.1 BUSINESS CONTINUITY PLANNING 6
 - 3.2 E-BUSINESS CAPABILITIES..... 6
 - 3.3 NOTIFICATION RESPONSIBILITIES 6
 - WITHHOLDING OF NEW BUSINESS OPPORTUNITIES 7
 - 3.4 CONFIDENTIALITY 7
 - 3.5 CONTROL OF BAE SYSTEMS-FURNISHED PROPERTY 7
- 4.0 ORDER OF PRECEDENCE 7**
- 5.0 ENGINEERING..... 8**
 - 5.1 REVISION LEVELS..... 8
 - 5.2 REQUESTS FOR INFORMATION/CHANGE/MATERIAL DISPOSITION 8
 - 5.3 TECHNICAL DOCUMENTS/CONFIGURATION CONTROL 8
- 6.0 PURCHASING..... 9**
 - 6.1 SUB-TIER MANAGEMENT..... 9
 - 6.2 SOURCE CONTROLLED DRAWINGS/VENDOR ITEM DRAWINGS..... 9
 - 6.3 QUALIFIED PRODUCTS LIST..... 9
 - 6.4 PROHIBITION ON ACQUISITION OF MATERIALS FROM CHINA..... 9
 - 6.5 BEARINGS..... 10
 - 6.6 TRACEABILITY OF SPECIALTY METALS 11
- 7.0 PRODUCTION 11**
 - 7.1 SPECIAL PROCESSES 11
 - 7.2 PART IDENTIFICATION MARKING 12
- 8.0 QUALITY..... 13**
 - 8.1 SUPPLIER MONITORING AND RATING 13
 - 8.2 QUALITY MANAGEMENT SYSTEM 13
 - 8.3 INSPECTION..... 13
 - 8.4 MEASURING AND TEST EQUIPMENT..... 15
 - 8.5 CERTIFICATE OF COMPLIANCE 15
 - 8.6 NON-CONFORMING MATERIAL 15
 - 8.7 PRELIMINARY MATERIAL REVIEW (PMR) 16
 - 8.8 MATERIAL REVIEW BOARD (MRB)..... 16
 - 8.9 CORRECTIVE ACTION..... 16
 - 8.10 WRITTEN CORRECTIVE ACTION REQUESTS (WCAR) 17
 - 8.11 RIGHT OF ACCESS..... 17
- 9.0 PACKAGING/SHIPPING..... 17**
 - 9.1 CLEANLINESS AND PRESERVATION 17
 - 9.2 PACKAGING FOR ELECTROSTATIC DISCHARGE (ESD) SENSITIVE ITEMS 17
 - 9.3 HAZARDOUS MATERIAL CONTROL 18

1.0 Acronyms

ADCN:	Advance Drawing Change Notification
ANSI:	American National Standards Institute
APR:	Authorized Purchasing Representative
AQL:	Acceptance Quality Level
CARC:	Chemical Agent Resistant Coating
CDR:	Contract Deliverable Requirement
DCMA:	Defense Contracts Management Agency
DFAR:	Defense Federal Acquisition Regulations
DOT:	Department of Transportation
FAI:	First Article inspection
FAR:	Federal Acquisition Regulations
FAT:	First Article Test
FPI:	First Piece Inspection
ISO:	International Organization for Standardization
ISIR:	Initial Sample Inspection Report
ITAR:	International Traffic in Arms Regulations
IWO:	Interdivisional Work Order
NDE:	Non-destructive Examination
NOR:	Notification of Revision
OSHA:	Occupational Safety and Health Administration
PO:	Purchase Order
PPAP:	Production Part Approval Process
QAP:	Quality Assurance Provisions
QAR:	Quality Assurance Requirements
SAE:	Society of Automotive Engineers
SQAP:	Supplier Quality Assurance Provisions
TDP:	Technical Data Package
UN:	United Nations

2.0 Introduction

This manual is applicable to all PO, Contracts, Subcontracts/Statements of Work (SOW), and IWO in which it is referenced; these documents shall be collectively referred to as "Purchasing Agreements" in this manual. The applicable revision of this manual shall be identified in the body of the Purchasing Agreement. This manual defines the expectations and requirements with which suppliers and their sub-tier suppliers **must** comply when providing material and/or services under this purchasing agreement. **Acceptance of any Purchasing Agreement which references this manual constitutes acceptance of all requirements contained herein.** Some sections of this manual may only apply to specific commodities or situations and will be identified as such.

All communications relative to the requirements of this purchasing agreement, its associated technical data package, or this manual shall be directed to the appropriate BAE Systems APR.

As used in this manual, the terms "Supplier", "Seller", "Vendor", and "Subcontractor" shall have the same meaning and may be used interchangeably.

3.0 Contracts

3.1 Business Continuity Planning

Because of BAE Systems' relationship with its Customer and our sense of responsibility to the war fighter, it is imperative that we deliver quality products in accordance with our customer's schedule. Unforeseen events are a part of our daily life, but our goal is to be as prepared as possible when unforeseen events occur. To this end, BAE Systems requires its suppliers to maintain, and provide upon request, a business continuity plan which will mitigate the risks from events such as floods, fires, earthquakes, and acts of terrorism and permit the Supplier to fulfill their commitments to both BAE Systems and to those who work to protect our freedom.

3.2 E-business Capabilities

The Supplier shall have email, internet access, and document scanning capabilities sufficient to communicate electronically and provide/receive documentation in electronic format. Documentation includes, but is not limited to, inspection reports, test reports, material certifications, and process certifications. It is the Supplier's responsibility to ensure that documentation converted from paper to electronic format is **legible and complete**.

3.3 Notification Responsibilities

The Supplier shall notify their APR in writing in the event that any one of the following occurs:

- Change to/relocation of supplier's facility
- Change in quality systems or operations management
- Any change to the manufacturing process
- Change to Quality Management System registration, including issuance of a new registration certificate

Failure to notify BAE Systems in a timely manner may result in the following:

- On-site inspection by BAE Systems or their representative at the supplier's expense
- Audit of the Supplier's facility at the Supplier's expense

- **Withholding of new business opportunities**

3.4 Confidentiality

When the Supplier has been given access to BAE Systems proprietary information, the Supplier shall take such steps as are necessary to minimize the exposure of that information within its facility and to prevent said information from unintended exposure to third-parties. If the supplier determines that proprietary/confidential information has been or may have been compromised, they shall notify the BAE Systems APR immediately.

In the event that a Non-disclosure Agreement (NDA) is entered into between the Supplier and BAE Systems, the Supplier shall contact BAE Systems prior to passing proprietary information to a sub-tier supplier to determine if a separate NDA is required between BAE Systems and the sub-tier supplier.

3.5 Control of BAE Systems-furnished Property

For any property furnished to the Supplier by BAE Systems (materials, tooling, product, etc.) the Supplier shall perform the following actions:

- Maintain a system to ensure the adequate control and protection of all furnished property
- Plainly mark or otherwise adequately identify furnished property as the property of BAE Systems
- Safely store all furnished property separately and apart from the Supplier's property
- Keep all furnished property in the supplier's possession and/or control in good and serviceable condition (including the performance of calibration and preventative maintenance) and free of liens and encumbrances
- Unless the property is modified as part of the Supplier's normal manufacturing process, property should be returned in the same condition as originally received by the Supplier, reasonable wear and tear excepted.
- All GFM/GFE and BAE Systems Property furnished for this order must be recoverable and returned to BAE Systems when directed
- Any property furnished by BAE Systems shall not be used in the execution of contracts for any other customer without prior written permission from BAE Systems

BAE Systems reserves the right to audit the Supplier's Customer-furnished Property Management System as necessary to ensure compliance to this requirement.

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
- Contract Deliverable Requirements (CDR), 095871

- Supplier Quality Assurance Manual (SQAM), 095870
- Authorized Changes to the Drawing(s) (i.e. ADCN, NOR, etc.)
- Drawing(s)
- Applicable Acceptance and Quality Specifications (Performance Specification, QAP, SQAP, QAR, etc.)
- Specifications cited on the Drawing
- Documents cited within Specifications

5.0 Engineering

5.1 Revision Levels

Unless the Purchasing Agreement specifies usage of an earlier version, the latest revision/ supersession of specifications/standards referenced in the technical data package at the time the purchasing agreement is released applies.

5.2 Requests for Information/Change/Material Disposition

All requests for information/clarification, requests for change, and requests for disposition of nonconforming material should be directed to the APR and respective Supplier Quality representative. VIR, form number UA- 111/097908, is required to formally request the information/change/material disposition and will be available through the Purchasing website. The Supplier is not authorized to incorporate any changes until formal approval is received via a change to the purchasing agreement.

5.3 Technical Documents/Configuration Control

The Supplier shall have available all design records (drawings, specifications, etc.) for the products manufactured including components or details of assemblies and technical standards noted on the drawings. For parts identified as catalog parts, this may consist of functional specifications or a reference to a recognized industry standard. Documents are to indicate the date of the design record and the change level and shall include any authorized engineering change documents used in conjunction with the part drawings.

Those suppliers with design control over their own products shall have configuration management processes in place to manage design changes. Configuration disciplines required include configuration identification, configuration control, configuration status accounting, and configuration audits. These practices shall be subject to audit by BAE Systems. Suppliers not having design control will be required to safeguard our design, ensure the use of the required revision, and return proprietary information upon request.

Specifications and standards referenced in the technical data package may be used to satisfy requirements even after the referenced documents are canceled. Replacement specifications and standards may also be used to satisfy TDP requirements in lieu of the canceled document, but must be noted within the supporting documentation. Acceptance of the replacement specification or standard will be at the discretion of the BAE Systems Quality representative.

Technical data packages may include ITAR-controlled drawings, which are subject to export control laws.

6.0 Purchasing

6.1 Sub-tier Management

The Supplier assumes all responsibility for the end-item deliverables and any associated documentation. In the event that a third party is used in the execution of this purchasing agreement, the Supplier is responsible to:

- manage that sub-tier supplier
- ensure that, where required by paragraph 7.1 and its subparagraphs, that only **suppliers approved by BAE Systems Platforms and Solutions or by an accredited third party, such as NADCAP**, are used for special processes
- flow down the requirements of this manual and all relevant/directed purchasing agreement requirements
- provide sub-tier documentation upon request by BAE Systems
- ensure timely response from the sub-tier supplier if corrective action becomes necessary

At no time will BAE Systems actively engage a sub-tier supplier without first notifying the Supplier.

6.2 Source Controlled Drawings/Vendor Item Drawings

Drawings identified as "Source Controlled" contain a list of approved source(s) of supply. The Supplier is required to purchase these items from an approved source. Where the approved supplier cannot be used, written authorization from BAE Systems is required prior to purchasing material from an unapproved source.

Drawings identified as "Vendor Item" contain a list of recommended source(s) of supply. The Supplier is recommended to purchase these items from the recommended source(s).

6.3 Qualified Products List

Any items supplied against this purchasing agreement applicable to a Government Qualified Products List/Database as defined by the specification(s), such as paint products, pre-treatment chemicals, electrical connectors, etc., must be manufactured by and traceable to a Government-approved source.

6.4 Prohibition on Acquisition of Materials from China

It is mandatory that the Supplier adhere to the following DFAR requirement. The most recent revision of the DFAR clause is stated below however the Supplier shall adhere to the latest revision as of the issuance of their Purchasing Agreement.

DFAR 252.225-7007 Prohibition on Acquisition of United States Munitions List Items from Communist Chinese Military Companies.

As prescribed in 225.1103(4), use the following clause:

PROHIBITION ON ACQUISITION OF UNITED STATES MUNITIONS LIST ITEMS FROM COMMUNIST CHINESE MILITARY COMPANIES (SEP 2006)

(a) Definitions. As used in this clause-

"Communist Chinese military company" means any entity that is:

- (1) A part of the commercial or defense industrial base of the People's Republic of China; or

(2) Owned or controlled by, or affiliated with, an element of the Government or armed forces of the People's Republic of China. "United States Munitions List" means the munitions list of the International Traffic in Arms Regulation in 22 CFR Part 121.

(b) Any supplies or services covered by the United States Munitions List that are delivered under this contract may not be acquired, directly or indirectly, from a Communist Chinese military company.

(c) The Contractor shall insert the substance of this clause, including this paragraph in all subcontracts for items covered by the United States Munitions List.

(End of Clause)

6.5 Bearings

The Supplier shall adhere to the requirements of DFAR 252.225-7016 for all ball and roller bearings supplied under this Purchasing Agreement. The most recent revision of the DFAR clause is stated below however the Supplier shall adhere to the latest revision as of the issuance of their Purchasing Agreement.

DFAR 252.225-7016 Restriction on Acquisition of Ball and Roller Bearings

As prescribed in 225.7009-5, use the following clause:

RESTRICTION ON ACQUISITION OF BALL AND ROLLER BEARINGS (JUN 2011)

(a) *Definitions.* As used in this clause—

- (1) "Bearing components" means the bearing element, retainer, inner race, or outer race.
- (2) "Component," other than a bearing component, means any item supplied to the Government as part of an end product or of another component.
- (3) "End product" means supplies delivered under a line item of this contract.

(b) Except as provided in paragraph (c) of this clause—

- (1) Each ball and roller bearing delivered under this contract shall be manufactured in the United States, its outlying areas, or Canada; and
- (2) For each ball or roller bearing, the cost of the bearing components manufactured in the United States, its outlying areas, or Canada shall exceed 50 percent of the total cost of the bearing components of that ball or roller bearing.

(c) The restriction in paragraph (b) of this clause does not apply to ball or roller bearings that are acquired as—

- (1) Commercial components of a noncommercial end product; or
- (2) Commercial or noncommercial components of a commercial component of a noncommercial end product.

(d) The restriction in paragraph (b) of this clause may be waived upon request from the Contractor in accordance with subsection [225.7009-4](#) of the Defense Federal Acquisition Regulation Supplement.

(e) If this contract includes DFARS clause [252.225-7009](#), Restriction on Acquisition of Certain Articles Containing Specialty Metals, all bearings that contain specialty metals, as defined in that clause, must meet the requirements of that clause.

(f) The Contractor shall insert the substance of this clause, including this paragraph (f), in all subcontracts, except those for—

- (1) Commercial items; or
- (2) Items that do not contain ball or roller bearings.

(End of clause)

6.6 Traceability of Specialty Metals

All specialty metals used to produce parts for vehicles sold to the US Government shall be traceable to their country of origin. Objective evidence verifying the country of origin, i.e., Material Certificate of Analysis, shall be presented upon request by BAE Systems or the US Government.

Refer directly to DFARS 252.225-7008 and 252.225-7009 for the definitions of specialty metals and the permitted countries of origin.

7.0 Production

7.1 Special Processes

Special processes include, but may not be limited to, any of the following:

- Bonding
- Casting
- Destructive/Non-destructive Testing
- Heat Treating
- Painting/Coating
- Plating
- Soldering
- Welding/Brazing

7.1.1 General Special Process Requirements

For suppliers providing items which require special processing, the Supplier shall:

- Maintain training/certification documentation for operators and inspectors in support of the special process being performed and make those records available to BAE Systems upon request. Operators/Inspectors performing NDE, soldering, and/or welding/brazing shall be certified to the proper level as identified in the specifications called out in the TDP of the purchase agreement.
- Maintain special process procedures/work instructions with revision control
- Maintain objective evidence of product compliance to the relevant specification(s) governing that special process

Additional requirements for certain special processes may be applicable through the purchasing agreement.

7.1.2 Chemical Agent Resistant Coating (CARC) Processing of CARC-finished parts/assemblies shall be performed only by a BAE Systems approved supplier. Parts received which are not finished by an approved supplier may be rejected and may be subject to rework by an approved supplier at the supplier's expense.

7.1.2.1 - The Supplier shall provide a copy of all test and inspection documentation for BAE Systems' review upon request as follows:

- Name and address of the finisher
- Part number
- Purchasing Agreement number
- Signature, printed name, and title of the Supplier Representative
- Certification date
- List of specifications used in the processing of the paint
- Paint thickness of a sample of actual parts for the primer
- Paint thickness of a sample of actual parts for the top coat
- Material lot/batch number(s)
- Material expiration date(s)
- A Certificate of Conformance

7.2 Part Identification Marking

The Supplier shall ensure that Items are legibly marked in accordance with drawing requirements and the requirements of the Purchasing Agreement. Identification is required for any part that does not have an identification requirement referenced on either the drawing/specification. The identification method is to be determined by the supplier, must contain part number and change level and the identification process cannot affect form, fit or function of the part. Marking shall be legible after all finishing processes are completed.

8.0 Quality

8.1 Supplier Monitoring and Rating

BAE Systems rates and monitors the performance of its suppliers. A supplier's rating is based upon:

- Product quality rating
- On time delivery
- Supplier's responsiveness to issues
- Corrective action responses

Suppliers who fall below a determined level of performance may be subject to various activities including, but not limited to, audit by BAE Systems, request for a corrective action plan, and/or prohibiting the supplier from receiving new business.

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 9001-2008 (or latest version), AS 9100, TS 16949, or a quality system approved by BAE Systems. Certification to ISO 9001/AS9100/TS 16949 by a registered third party is preferred. Objective evidence shall be on file verifying that such a system exists, is being maintained, and is compliant with the standard requirements. Procedures and records shall be made available for examination by authorized BAE Systems representatives upon request. BAE Systems reserves the right to audit the Supplier at any time with prior notice.

8.3 Inspection

The Supplier will inspect the first piece 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 (Note: If product under this purchasing agreement has been in continuous production and has not been changed since last order, the first piece requirement may be waived.):

- Supplier's name and the manufacturing address
- Purchasing agreement number and line number
- Item 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)
- First Article Test 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/Specification requirements, with requirements 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 (Ex. ballooned drawing (all characteristics, including drawing notes, numbered)

- For assemblies, verification of all component-level drawing notes, dimensions, and associated QAP/QAR/SQAP/Specification requirements, with requirements and measured values recorded.

Variable data shall be recorded with actual values measured for each sample

- Inspector's name, signature, and date

This First Piece/First Article Inspection report will be submitted to BAE Systems as required by this 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.

Following the First Piece/First Article Inspection, the Supplier shall have a process in place which assures that all supplied product is compliant to all Purchasing Agreement requirements. This process may consist of a C=0 sampling plan (when required by contract), SPC, or any other method which assures that the final shipped product is compliant. If required by contract supplier may be required to submit plan to BAE for approval by the Supplier Quality Manager. Record of plan approval shall be kept on file with the first piece acceptance documentation.

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

- Visual weld inspection 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.
- Recognized fastener quality assurance requirements shall be followed.

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 seven (7) years 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.

8.4 Measuring and Test Equipment

The Supplier shall establish and maintain a documented calibration system to verify conformity of all measuring and test equipment (M&TE) such as gages, tools, jigs, fixtures and dies used to verify conformity to requirements. This system shall be compliant with ISO 9001:2008 (or latest version), AS 9100, TS 16949, or shall be approved by BAE Systems.

Outside calibration and inspection/test services used shall maintain a system in accordance with a recognized standard such as ISO 10012, ANSI/NCSL Z540, or ISO 17025 and shall address the criteria described in the selected standard.

8.5 Certificate of Compliance

The Supplier, when required by the purchasing agreement or upon request by BAE Systems, shall generate and provide a Certificate of Compliance. The instructions for submitting the Certificate of Compliance shall be as defined by CDR. This certificate, signed by an authorized representative, shall contain the following information:

- Supplier's name and address
- BAE Systems' purchasing agreement number and line number
- BAE Systems' item number, description, and revision as specified on the purchasing agreement
- Quantity
- A statement that the product/service meets all of the requirements of the purchasing agreement and its technical data package at the prescribed revision level.
- Exceptions, including waivers and deviations (as applicable)
- Signature, printed name, and title of signer
- Date

8.6 Non-conforming Material

The Supplier is responsible for establishing controls to ensure that products not conforming to the Purchasing Agreement are identified, segregated, dispositioned and controlled to prevent inadvertent use. All costs associated with non-conforming material, including freight, handling, material replacement, inspection, rework, etc., may be charged back to the Supplier.

When non-conforming items are to be returned to the Supplier, the Supplier shall provide a Return Material Authorization (RMA) number within 24 hours of notification. Failure to provide the RMA number within the specified time authorizes BAE Systems to return the items at its discretion.

In the event that the Supplier identifies a non-conformance which they are not authorized to correct (i.e. repair or use as-is dispositions), the Supplier shall provide written notification, through submission of a VIR, to the appropriate BAE Systems APR within 24 hours of discovery and provide complete traceability information for all known or suspect nonconforming product shipped, including but not limited to identification of batch/lot number, purchase order, part identification, and dates of shipment. The non-conforming items shall be quarantined at all BAE Systems/Supplier's facility until BAE Systems provides disposition instructions.

Where non-conforming items pose a risk to BAE Systems' production schedule, BAE Systems reserves the right to request the Supplier provide on-site support to screen for and/or correct the issue. Upon request, the Supplier shall arrange for on-site support within 24 hours of receipt of the request. Failure to provide on-site support authorizes BAE Systems to contract third-party support at the Supplier's expense.

8.7 Preliminary Material Review (PMR)

The Supplier is authorized to rework, scrap, or return to their sub-tier supplier items which are non-conforming, where these dispositions are subject to the following definitions:

- Rework: the correction of a non-conformance resulting in full compliance to the TDP requirements
- Scrap: disposal/destruction of the non-conforming item(s)
- Return to sub-tier supplier: returning the item/component to its supplier/manufacturer

8.8 Material Review Board (MRB)

The supplier may not repair non-conforming items or determine that the item may be used as-is unless written authorization is incorporated into the purchasing agreement. These dispositions are defined as follows:

- Repair: correction of the non-conformance resulting in a functional item, but where the item does not meet all of the requirements of the TDP
- Use As-is: the determination that the non-conformance does not impact the form, fit, or function of the item even though it does not meet all of the requirements of the TDP

8.9 Corrective Action

The Supplier is responsible for implementing systems capable of resolving problems adversely affecting quality. The Supplier shall:

- Contain all discrepant parts whether they are completed, in-process, in inventory, in-transit, previously shipped or in the field.
- Determine root cause of the issue, why it wasn't detected in their system and what systemically failed to allow the deficiency.
- Identify impacts to similar items that use the same process/material/equipment and which may be affected by this discrepancy
- Implement corrective action to correct the deficiencies
- Implement preventative actions to preclude future occurrences of the issue(s)

Records which document the above actions shall be maintained and made available to BAE Systems upon request; these records may be in the Supplier's format as long as they address all requirements specified in this document.

In the event that a non-conformance is discovered by BAE Systems, BAE Systems may issue either a notification of nonconformance or a Supplier Corrective Action Request (SCAR).

A notification of nonconformance informs the Supplier that a non-conformance was identified but does not require a formal response from the Supplier. The Supplier is still responsible and shall correct the identified non-conformance in their process and document the actions taken in accordance with their internal corrective action procedures.

A SCAR requires that the Supplier provide formal written analysis of the root cause and documented corrective and preventative actions. The formal response from the Supplier must be received on or before the response due date or the Supplier's performance and/or risk rating may be impacted. BAE Systems will, based on the supplied SCAR response, determine what follow up actions are required, if any, and completion of the follow up actions will be required before the SCAR can be closed.

8.10 Written Corrective Action Requests (WCAR)

In the event that the Supplier receives a WCAR related to or similar to product or processes provided to BAE Systems from the Defense Contract Management Agency (DCMA), the Supplier is required to notify their BAE Systems APR of the WCAR record and the scope of the issue, regardless of the perceived impact to parts or services supplied to BAE Systems.

8.11 Right of Access

BAE Systems and its Customer reserve the right to perform inspection of product, witness testing, and/or review manufacturing and inspection processes/procedures at the Supplier's facility or their sub-tier supplier's facility at any point during the execution of this purchasing agreement at no additional cost.

In support of these on-site activities, the Supplier shall make available any area of the facility or any individual relevant to the subject of the on-site visit. The Supplier shall also make available any required inspection equipment, records, drawings/technical data, and/or process documentation.

9.0 Packaging/Shipping

9.1 Cleanliness and Preservation

The Supplier shall furnish parts/components which are free of mill scale, rust, carbon deposit, weld spatter, or any surface contaminant that would be detrimental appearance or functional performance (i.e. would prevent proper adhesion of coatings). Unless otherwise specified, bare metal surfaces, ferrous and non-ferrous, shall be protected from corrosion for a minimum of sixty (60) days from the date of shipment. Technical information regarding the preservative used shall be maintained on file by the supplier and made available to BAE Systems upon request.

Any openings on components, such as electrical connectors, hydraulic/pneumatic fittings/ports, bare machined holes, and fuel ports, shall be properly plugged or capped to prevent internal contamination.

9.2 Packaging for Electrostatic Discharge (ESD) Sensitive Items

All Class 1, Class 2 and Class 3 parts, assemblies, and equipment, as defined by MIL-STD-1686, are to be packaged in accordance with Paragraph 5.8 of MIL-STD-1686 (MIL-E-17555). External shipping packaging for Class 1, Class 2, and Class 3 devices shall be identified with the ESD symbol. All other components with solderable leads and which are considered non-ESD sensitive per MIL-STD-1686 shall be packaged

in material that meets the requirements of MIL-B-81705, Type II or Type III. Bare printed wiring boards are to be packaged in heat-sealed non-static-generating poly bags that meet the requirements of MIL-B-81705 and MIL-HDBK-263.

9.3 Hazardous Material Control

In order to assure the proper storage, handling, use, and disposal of hazardous or potentially hazardous materials, every container shall be clearly marked with the following, as a minimum:

- Product Name
- Manufacturer's Name
- Manufacturer's Part Number
- Manufacturer's Batch Number or Lot Number
- Date of Manufacture
- Expiration Date, per manufacturer's specification
- Federal Hazardous Chemical Label (OSHA 1910, 1200 Compliant)
- BAE Systems Purchasing Agreement Number
- BAE Systems Item Number
- Applicable DOT/UN Placard/Labels

In addition, all products containing Volatile Organic Compounds (VOCs), such as paint, must be labeled by the manufacturer in accordance with applicable state and/or federal codes.

A copy of the Material Safety Data Sheet (MSDS) shall accompany each shipment.

9.4 Age Sensitive Materials

For elastomeric products (such as natural and synthetic rubbers), potting compounds, shrinkable tubing, epoxies, adhesives, sealants, paints, and other like product which have a manufacturer-specified shelf life, the following requirements apply:

- Permanently mark the product (or packaging if marking the product would damage it), in a manner that is not detrimental to its form, fit, or function, with the date of expiration or "best if used by" date and lot traceability information (i.e. lot number, date of manufacture, batch number, etc.) The method of marking is optional unless otherwise specified
- The product must be received by BAE Systems with a minimum of 50 % of its shelf life remaining or as directed by contract.
- For kits containing age-sensitive materials, the outside of the kit's container shall be marked with "Earliest Expiration Date" and the earliest expiration date of the materials contained in the kit (ex. Earliest Expiration Date 04/2015)

Assemblies containing age sensitive materials, where those materials are fully consumed, shall not be subject to age control marking unless otherwise specified