SUPPLIER QUALITY ASSURANCE REQUIREMENTS (SQAR)

Revision Date: January 13, 2009

Approved

Frank Mariot, Manager
Supply Chain Quality

Suppliers may view this document via the Internet at http://www.voughtaircraft.com/suppliers/quality/qualitysqar.htm

To obtain a hard copy, please notify Vought Aircraft Industries’ Procurement Representative.
REVISION RECORD

The latest issue of this manual may be confirmed by viewing the “Suppliers” web site (address shown on the cover), or by contacting Vought Supplier Relations @ (800) 746-7475.

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Rev. Q summary of changes:

- Added AS9003 to Level 5 and 6 requirements in Table 1
- Added project code “CI” to Table 2
- Added Cessna ASPL requirement to Table 3, deleted F-14 program
- Para. 2.3, added reference to Nucap as an equivalent to Nadcap
- Para. 2.4 revised to reference SQR-005
- Para. 2.5, 3), clarified contact requirements for Vought source inspection
- Para. 2.5 7), deleted P3 exclusions since this should be handled at the PO line item level by the Vought buyer.
- Para. 2.7, 1) e), deleted reference to test reports
- Para. 2.7, 1) f), deleted requirement to provide a copy of nonconformance document based on new SMRR electronic tag process
- Para. 2.7, 5), added second note clarifying requirement for machined/sheet metal minor assemblies
- Para. 2.7, added sub-paragraph 13) to clarify requirements for assemblies
- Para. 2.17, added clarifying statement
- Para. 2.24 deleted 4th bullet item, redundant to bullet #5
- Added paragraph 2.30 for Cessna program specific requirements
DOCUMENT OVERVIEW

SQAR is the Suppliers’ guide to understanding Vought Aircraft Industries, Inc. (Vought) quality requirements and expectations. This document forms a part of Vought’s purchase order, unless otherwise specified herein. It contains Vought’s specific standard quality requirements and helpful general information.

SQAR is broken into 3 major sections as described below:

**Section 1** – This section identifies key information, shown on all Vought purchase orders or change orders, that will be used by the Supplier to determine which requirements in Section 2 of this manual apply to deliverable product.

**Section 2** – This section includes the quality requirements required for all deliverable “flyaway” product, and associated ground support/tooling, procured by Vought.

**Section 3** – This section provides useful general information associated with Vought’s purchase order and related quality subjects.

Questions regarding this document should be directed to Supply Chain Quality, through the supplier’s purchasing representative (Buyer).
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OVERVIEW

This document is applicable to all Vought Aircraft Industries, Inc. (Vought) purchase orders for all contract deliverable production, overhaul, and modification programs including; tooling, ground support equipment and repair stations. Section 2 provides quality requirements with which the Supplier must comply during the life of a procurement. Tables 1 & 2 contain matrices, which are the key to determining the applicability of Vought’s quality requirements to each individual procurement, and shall be used by the Supplier as part of the Supplier’s quality planning function to ensure compliance with Vought’s requirements. The purchasing document (see example in Figures 1 & 2) specifies the applicable inspection location requirement (See Section 2.5), and project identifier (see Table 2). This information is a road map to the requirements for production and delivery of product. Suppliers who receive electronic purchase orders may see a different format than that shown. Please consult your Vought purchasing representative (Buyer), if you have difficulty in locating this key information.

Note: the CPRO PO represented in Figure 1a/b represents all Vought programs other than 787 Purchase Orders originating from the Vought North Charleston Site (NCS). The 787(NCS) program utilizes an SAP based system, Figures 2a/b/c/d represent a typical SAP purchase order. The 787 program also utilizes “Schedule Agreements” which are a PO type but will also include a separate delivery schedule for the life of the agreement.

In addition to the requirements contained in this document, the Supplier shall comply with the quality requirements noted in the Contract Terms & Conditions (T&C) section of Vought’s purchase order. Contact your buyer in the event requirements conflict.

Vought Aircraft Industries, Inc., its customers or Government Regulatory Agencies have the right of entry into the supplier’s facility. The supplier shall include right of entry provisions in any subcontract. These provisions shall allow the supplier, Vought Aircraft and Vought Aircraft customers or Government Regulatory Agencies, to examine and verify the quality of work, records, processes and material at any place, including the plant of the subcontractor.

Any correspondence or data submitted to Vought in support of the requirements contained herein are to be in English.
Figure 1a
### Supplier Quality Assurance Requirements

**Figure 1b**

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<tr>
<th>Item</th>
<th>Part No.</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit Price</th>
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<tr>
<td>001</td>
<td>GB5206G12</td>
<td>BEARING 735310000220</td>
<td>10% PLUS TOLERANCE</td>
<td>10% MINUS</td>
<td>P.O.</td>
<td>1 – Buyer Plant</td>
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<td></td>
<td></td>
<td>RESALE OR EXEMPT</td>
<td>202.50000</td>
<td>14782.50</td>
<td></td>
<td>2 – Pay for source</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>73 EACH</td>
<td></td>
<td></td>
<td>3 – Vought source</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 – Govt &amp; Vought Source</td>
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<tr>
<td></td>
<td>1500 1306</td>
<td>M605223</td>
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<td></td>
<td></td>
<td>5 – See Remarks</td>
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<td>SHIP TO</td>
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<td></td>
<td></td>
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<td></td>
<td>PRIORITY RATING</td>
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<td>7 – Preferd Perf</td>
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**APPLICABLE CONTRACT NUMBERS:**

| G-IV PROGRAM |

---

**SUPPLIER:**

ABC Supplier
123 Someplace Rd.
Neverland, LB 01010
Supplier Quality Assurance Requirements
Rev.Q, Jan. 13, 2009

Supplier Code Number

This could also refer to a “Schedule Agreement Number”

Supplier Code Number

Figure 2a
CLAUSE I871.004: QUALITY REQUIREMENTS INVOKED BY THIS PROCUREMENT ARE LOCATED WITHIN BUYER’S SUPPLIER QUALITY ASSURANCE REQUIREMENTS (SQAR) MANUAL POSTED ON THE BUYER'S WEB SITE AT WWW.VOUGHT.COM/SUPPLIERS (NOTE: THE WEB SITE MUST BE ENTERED USING LOWER CASE CHARACTERS). WHEN A NEW REVISION OF SQAR IS POSTED TO BUYER’S WEB SITE, SELLER SHALL HAVE 60 CALENDAR DAYS FROM THE DATE THE REVISION IS POSTED ON THE WEB SITE TO COMPLY WITH THE REQUIREMENTS CONTAINED WITHIN THE LATEST REVISION OF THE SQAR.

CLAUSE F112.001: UNLESS OTHERWISE SPECIFIED ON THE ORDER, MAKE PER LATEST BLUEPRINT, PRODUCTION PROCESS SHEET AND/OR MANUFACTURING ORDER TRANSMITTAL/INSTRUCTION (MOT/INO) AND SPECIFICATIONS RECEIVED FROM BUYER. IN THE EVENT A LATER REVISION WOULD INVOLVE AN INCREASE IN COST, BUYER’S WRITTEN APPROVAL MUST BE OBTAINED. IF MASTER DIMENSION DATA (“MDD”) IS USED, SELLER SHALL PROVIDE OBJECTIVE EVIDENCE TO ASSURE THAT ADEQUATE QUALITY ASSURANCE ON PART INSPECTION DATA IS GENERATED INDEPENDENT OF THAT USED BY MANUFACTURING. WHENEVER OPTIONAL MANUFACTURING METHODS ARE PERMITTED, SELLER CERTIFICATION MUST IDENTIFY THE METHOD USED AND THE BLUEPRINT REVISION LEVEL.

CLAUSE G246.000

CLAUSE G358.001

CLAUSE T580

THE FOLLOWING TERMS AND CONDITIONS APPLY HERETO:

(1) TERMS T-2 (R 7-00) ENTITLED "PURCHASE ORDER TERMS AND CONDITIONS COMMERCIAL FIXED PRICE SUPPLY;"
(2) PROGRAM ADDENDUM 201 (7-00) ENTITLED "ADDITIONAL GENERAL CONDITIONS (FIXED PRICE) FOR BOEING COMMERCIAL AIRCRAFT PROGRAMS; "AND
(3) TERMS T-13 (R 7-00), ENTITLED "PURCHASE ORDER TERMS AND CONDITIONS (PACKAGING, PACKING, MARKING AND BARCODING)."

CLAUSE S115.001

CLAUSE D111.000

SELLER SHALL PRODUCE THE SUPPLIES AND/OR SERVICES DESCRIBED IN THIS PURCHASE ORDER (PO) IN ACCORDANCE WITH THE ENGINEERING DATA LISTED IN AND TRANSMITTED BY PURCHASE ORDER ENGINEERING TRANSMITTAL (POET) NUMBER(S). THE ENGINEERING DATA LISTED THEREIN IS HEREBY INCORPORATED IN THIS PURCHASE ORDER AND BY THIS REFERENCE MADE A PART HEREOF. SELLER SHALL PROMPTLY ACKNOWLEDGE RECEIPT THEREOF. IF ANY DISCREPANCIES ARE NOTED IN THE DATA RECEIVED, SELLER PROMPTLY NOTIFY BUYER’S ENGINEERING LIAISON REPRESENTATIVE AT PHONE NO. (972) 946-5406 OR FAX NO. (972) 946-4283.

ADDITIONAL PROVISIONS:

1. OFFER AND ACCEPTANCE: THIS ORDER IS BUYER’S OFFER TO SELLER AND ACCEPTANCE BY SELLER IS EXPRESSLY LIMITED TO ITS TERMS AND ANY CHANGES OR ADDITIONAL PROVISIONS OF SELLER ARE HEREBY OBJECTED TO AND ARE NOT BINDING UNLESS ACCEPTED IN WRITING BY BUYER, SELLER’S BEGINNING PERFORMANCE, SHIPPING ANY GOODS, OR RETURNING THE SIGNED ACCEPTANCE COPY SHALL CONSTITUTE ACCEPTANCE OF THIS ORDER.

2. ROUTING, SHIPPING, AND PACKING INSTRUCTIONS MUST BE STRICTLY FOLLOWED AS REFERENCED IN THE ORDER.

3. INVOICES ARE SUBJECT TO PROVISIONS OF THIS ORDER.

By: John Q Buyer

Vought Aircraft Industries, Inc.

Seller's Copy

COMPUTER GENERATED SIGNATURE

REPRINT

Figure 2b
CLAUSE F111.001: UNLESS OTHERWISE SPECIFIED ON THE ORDER, MAKE PER LATEST BLUEPRINT AND/OR LATEST SPECIFICATIONS RECEIVED FROM BUYER. IN THE EVENT A LATER REVISION WOULD INVOLVE AN INCREASE IN COST, BUYER'S WRITTEN APPROVAL MUST BE OBTAINED. IF MASTER DIMENSION DATA ("MDD") IS USED, SELLER SHALL PROVIDE OBJECTIVE EVIDENCE TO ASSURE THAT ADEQUATE QUALITY ASSURANCE ON PART INSPECTION DATA IS GENERATED INDEPENDENT OF THAT USED BY MANUFACTURING.

WHENEVER OPTIONAL MANUFACTURING METHODS ARE PERMITTED, SELLER CERTIFICATION MUST IDENTIFY THE METHOD USED AND THE BLUEPRINT REVISION LEVEL.

CLAUSE 1874.000: PROJECT IDENTIFICATION "J0" REFERENCED IN TABLE 2 OF BUYER'S LATEST REVISION OF SQAR IS APPLICABLE TO THIS PURCHASE ORDER.

CLAUSE G248.000
CLAUSE G356.000
CLAUSE G391.000
CLAUSE G392.001
CLAUSE P713.000
CLAUSE P715.000
CLAUSE T580

THE FOLLOWING TERMS AND CONDITIONS APPLY HERETO:

(1) TERMS T-2 (R 7-00) ENTITLED "PURCHASE ORDER TERMS AND CONDITIONS COMMERCIAL FIXED PRICE SUPPLY;"
(2) PROGRAM ADDENDUM 201 (7-06) ENTITLED "ADDITIONAL GENERAL CONDITIONS (FIXED PRICE) FOR BOEING COMMERCIAL AIRCRAFT PROGRAMS; "AND
(3) TERMS T-13 (R 7-00), ENTITLED "PURCHASE ORDER TERMS AND CONDITIONS (PACKAGING, PACKING, MARKING AND BARCODING)."

TARGET CORE SIZE 11" LONG X 10" O/D

ADDITIONAL PROVISIONS:

1. OFFER AND ACCEPTANCE: THIS ORDER IS BUYER'S OFFER TO SELLER AND ACCEPTANCE BY SELLER IS EXPRESSLY LIMITED TO ITS TERMS AND ANY CHANGES OR ADDITIONAL PROVISIONS OF SELLER ARE HEREBY OBJECTED TO AND ARE NOT BINDING UNLESS ACCEPTED IN WRITING BY BUYER. SELLER'S BEGINNING PERFORMANCE, SHIPPING ANY GOODS, OR RETURNING THE SIGNED ACCEPTANCE COPY SHALL CONSTITUTE ACCEPTANCE OF THIS ORDER.

By: John Q Buyer

VOUGHT Aircraft Industries, Inc.

2. ROUTING, SHIPPING, AND PACKING INSTRUCTIONS MUST BE STRICTLY FOLLOWED AS REFERENCED IN THE ORDER.

3. INVOICES ARE SUBJECT TO PROVISIONS OF THIS ORDER.

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Figure 2c
Inspection Requirement

Types are:

- 01 – Vought Site – Receiving Inspect
- 02 – Vought Site – Special Instructions
- 03 – VAII Source – Source Inspect Plus Receiving Inspect
- 04 – VAII Source – No Receiving Inspection
- 05 – Inspect Per PO Remarks by Sampling
- 06 – Inspect per PO Special Instructions
- 07 – No Receiving Inspection
- 08 – P3 Program – Plus Receiving Inspection
- 09 – P3 Program – No Receiving Inspection

P.O. Line Item

Inspection Type: VAII Source - No Receiving Inspect

Customer Part Number N0001234
Type 30
Grade 100
Class 7
Material Specification 208-8-206
Form 3
Composition 2

Length: 0.000 IN
Width: 0.250 IN
Height: 0.000 IN

Please deliver to:
Vought Aircraft Industries, Inc.
3455 Air Frame Dr. BLDG 100, Bldg 300
Vought Freezer
North Charleston SC 29419

Tax: Raw Materials and Products Resale or Exempt

ADDITIONAL PROVISIONS:

1. OFFER AND ACCEPTANCE: THIS ORDER IS BUYER’S OFFER TO SELLER AND ACCEPTANCE BY SELLER IS EXPRESSLY LIMITED TO ITS TERMS AND ANY CHANGES OR ADDITIONAL PROVISIONS OF SELLER ARE HEREBY OBJECTED TO AND ARE NOT BINDING UNLESS ACCEPTED IN WRITING BY BUYER. SELLER’S BEGINNING PERFORMANCE, SHIPPING ANY GOODS, OR RETURNING THE SIGNED ACCEPTANCE COPY SHALL CONSTITUTE ACCEPTANCE OF THIS ORDER.

2. ROUTING, SHIPPING, AND PACKING INSTRUCTIONS MUST BE STRICTLY FOLLOWED AS REFERENCED IN THE ORDER.

3. INvoices ARE SUBJECT TO PROVISIONS OF THIS ORDER.

By: John Q Buyer
Vought Aircraft Industries, Inc.

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Figure 2d
<table>
<thead>
<tr>
<th>Quality System Level</th>
<th>Applicable Minimum Quality System Document</th>
<th>Supplier Description</th>
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<tr>
<td><strong>Level 1</strong>&lt;sup&gt;(3)&lt;/sup&gt;</td>
<td>AS9100, EN9100 or, JISQ9100</td>
<td>Manufacturer with design authority (Major Assemblies, Source/Spec. Control Product); Engineering Services with design/release authority</td>
</tr>
<tr>
<td><strong>Level 2</strong>&lt;sup&gt;(3)&lt;/sup&gt;</td>
<td>AS9100&lt;sup&gt;(1)&lt;/sup&gt;, EN9100&lt;sup&gt;(1)&lt;/sup&gt; or, JISQ9100&lt;sup&gt;(1)&lt;/sup&gt;</td>
<td>Manufacturer (Build-to-Print) Value Added Distributor, JIT Suppliers, Inspection Services (e.g., CMM)</td>
</tr>
<tr>
<td><strong>Level 3</strong>&lt;sup&gt;(4)&lt;/sup&gt;</td>
<td>EN9120 AS9120 or, ASA100</td>
<td>Pass Through Distributor</td>
</tr>
<tr>
<td><strong>Level 4</strong>&lt;sup&gt;(2)&lt;/sup&gt;</td>
<td>Nadcap AC7004, or AS9003</td>
<td>Processor</td>
</tr>
<tr>
<td><strong>Level 5</strong>&lt;sup&gt;(4)&lt;/sup&gt;</td>
<td>Vought SQR-008, AS9100&lt;sup&gt;(3)&lt;/sup&gt;, AS9003, or ISO9001&lt;sup&gt;(3)&lt;/sup&gt;</td>
<td>Tooling with design authority</td>
</tr>
<tr>
<td><strong>Level 6</strong>&lt;sup&gt;(4)&lt;/sup&gt;</td>
<td>Vought SQR-008, AS9100&lt;sup&gt;(3)&lt;/sup&gt;, AS9003, or ISO9001&lt;sup&gt;(3)&lt;/sup&gt;</td>
<td>Tooling (Build-to-Print)</td>
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<tr>
<td><strong>Level 7</strong>&lt;sup&gt;(5)&lt;/sup&gt;</td>
<td>NONE</td>
<td>Commercial, Off-The-Shelf (COTS), Technical Service Providers, CFE/CFM/PMI&lt;sup&gt;(6)&lt;/sup&gt;</td>
</tr>
<tr>
<td><strong>Level 8</strong>&lt;sup&gt;(5)&lt;/sup&gt;</td>
<td>ISO 10012-1or, ISO 17025 or, ANSI Z540-1or, A2LA, or NVLAP</td>
<td>Calibration</td>
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<td><strong>Level 9</strong>&lt;sup&gt;(5)&lt;/sup&gt;</td>
<td>FAA FAR Part 145/21</td>
<td>Repair Stations</td>
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**Note**

1. Less the “Design” requirements of the standard
2. Requirement is Nadcap/Nucap Process Approval
3. “Other Party” certification required
4. “Other Party” certification required, Approval to AS9100 will also satisfy this requirement
5. Service Providers may require other audits like SQR-004 if Vought is to transmit Digital Data
6. CFE/CFM/PMI: Customer Furnished Equipment/Material; Partner Managed Inventory (787 Program)

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**Table 1 - Quality System Requirements**
## Table 2 – Project Codes

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<td>LC</td>
<td>LTA SETUP COMMERCIAL</td>
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2.0 GENERAL AND PROJECT SPECIFIC REQUIREMENTS

QUALITY PROGRAM PLAN (QPP)

For new suppliers to Vought, the supplier shall develop a QPP that will form a cross-reference between the line items of this document (SQAR), and the supplier's procedures. The QPP shall be submitted to Vought in conjunction with Vought’s Form PO-F003. The submittal shall consist of:

1. The cross-reference matrix per Appendix 1.
2. An Organizational Chart that depicts the Quality Organization and its functional relationship to Inspection activities.

If a given line item is not applicable for the products intended to be supplied, then it shall be so stated in the matrix. All line items of SQAR must be addressed. Items which are determined to be unacceptable to Vought, will be resolved prior to the adding the supplier to the Vought Approved Supplier Directory (ASD).

NOTE: Should conflicts arise between this document and the applicable governing specification, the specification shall take precedence.

2.1 QUALITY SYSTEM REQUIREMENTS

Supplier shall implement and maintain a quality management system in accordance with the respective Quality System Standard listed in Table 1 of this document, as appropriate for the type of product being delivered to Vought.

To determine the applicable Quality System requirements, the following questions apply:

a) Is the product being procured airborne, non-airborne or special?

   **Airborne** – Airborne products are those procurements intended for contract deliverable flyaway aircraft and their associated sub-systems including non-metallic material applied to aircraft. Product that has contractual Engineering and/or Quality requirements that affect the end item deliverable product.

   **Non-airborne** – Non-airborne products are those products procured for non-flight applications such as; production tooling, ground support equipment, test laboratories, etc.

   **Special** – Special requirements include procurements for; repairs from FAA Repair Stations, Commercial off the Shelf (COTS), Purchases of Labor from Calibration Laboratories, and technical service providers.

b) Does supplier have design authority?
c) Does supplier build or distribute product?

Cross-reference the information obtained in a, b, and c above in Table 1 to determine the appropriate Quality System requirement.

Initial and subsequent periodic review of Supplier’s quality system may be performed at the option of Vought. Objective evidence of Supplier’s compliance, either by submittal of requested evidence, or evidence of “Other Party” evaluation, may be acceptable for the purpose of re-survey to Vought.

Supplier name changes, changes in ownership, facility changes or changes in senior Quality management may subject Supplier’s Quality System to reevaluation by Vought. Supplier shall notify Vought’s Procurement Representative of any aforementioned changes in writing. Vought will instruct Supplier on formal notification actions and specific forms to submit, if necessary.

The Quality Management Systems identified in table 1, shall be the quality system standards used in determining eligibility for the Vought Approved Suppliers Directory (ASD). An “other party” quality system certification is required for those standards noted in table 1. Vought will recognize all “Other Party” certifications issued by an accredited Certification/Registration Body (CRB). The accredited CRB’s can be found on the SAE web page: www.sae.org/oasis.

Suppliers shall make available, a copy of their certifications to Vought. Any changes to the certification such as a change of the CRB, update, withdrawal or disapproval must also be forwarded to Vought immediately.

**Note:** "Other Party" - A registrar that has their accreditation body participate in the IAQG/AAQG quality system certification oversight process. An "Other Party" quality system certification would be one issued by an accredited registrar that participates in the aerospace industry's IAQG/AAQG oversight process. Vought Aircraft Industries, Inc. suppliers are authorized to share Vought Aircraft Industries, Inc. survey results with other aerospace companies.

**E-8C Repair Station Suppliers Only**

Vought shall recognize the following Quality System Standards for the E-8C program as follows:

1) FAA FAR Part 21 (Certification Procedure Products and Parts) – Suppliers of FAA parts shall establish and maintain a Quality System in conformance with Federal Aviation Regulation FAR 21.

2) FAA FAR Part 145 (Repair Stations) – Suppliers of overhauled or repaired FAA parts shall be a FAA FAR 145 approved repair station and shall maintain a Quality System which complies with Federal Aviation Regulation FAR 145.

3) E-8C Modification Phase Parts – Suppliers manufacturing E-8C Modification
Phase Parts (MODS) shall be a Vought Aircraft Industries, Inc. approved Level 1 or 2 per Table 1.

**ADDITIONAL QUALITY SYSTEM REQUIREMENTS**

In addition to the Quality system requirements identified in Table 1, unless otherwise specified, the following additional documents and appendices are imposed on all Purchase Orders. These documents can be found under the “Quality” tab at the following URL: [http://www.voughtaircraft.com/suppliers/](http://www.voughtaircraft.com/suppliers/).

- **SQR-002** – Supplier Advanced Quality Requirements; SQR-002 is applicable when “Key Characteristics” have been identified on the engineering drawing, specification or as part of the configuration requirements on the purchase order. **Approval to SQR-002 is required before a supplier can receive a formal purchase order that involves Key Characteristics.**
- **SQR-003** – Nonconformance Reference Handbook for Suppliers; Applicable to all purchase orders.
- **SQR-004** – Supplier Quality Requirements “Control and Use of Digital Product Definition”; SQR-004 is applicable if part design and/or configuration is defined via a released digital dataset (e.g., CATIA, UNIGRAPHICS, MEDs, IGES, etc.). Approval to SQR-004 is required before a supplier can receive Digital Data from Vought Aircraft Industries, Inc. This does not apply during the Request for Proposal/Quote phase, **however approval must be obtained prior to acceptance of formal purchase order and release of engineering**
- **SQR-008** – Requirements for Supplier Fabricated Tooling; Applicable on all tooling purchase orders. **Note:** To be replaced by ISO9001 or AS9003 on future requirements and audits.
- **SQR-009** – Quality Assurance Acceptance Sampling Requirements for Suppliers; Applicable to all purchase orders where the supplier performs sampling inspection unless a sampling plan is already defined in the governing specifications.
- **SQR-010** – Hardness and Conductivity Requirements.; Applicable to all purchase orders for metallic parts (i.e., sheet metal and machined)
  **Note:** For Global Hawk program (codes GH & GL) all aluminum fabricated parts require 100% conductivity inspection after fabrication. Conductivity ranges shall be per AMS 2658.

**2.2 PRE-PRODUCTION REVIEW / CONFORMITY ASSESSMENT**

Vought reserves the right to perform with the Supplier a review of Vought’s purchase order and deliverable product(s) key/critical elements. Vought will evaluate supplier quality processes and product compliance using the Vought
Conformity Assessment. The assessment will cover specific areas of the supplier’s QA system; build package flow down, control of tooling, digital data and products that Vought procures from the supplier. Subject review will be performed to the extent necessary to verify mutual understanding of purchase order requirements, and ensure that Supplier’s production planning activities address all applicable key/critical elements.

2.3 SPECIAL PROCESS REQUIREMENTS

When special processes listed in Vought “Approved Special Processors List” (ASPL) are required by drawing, specification, Purchase Order, or other media, the Supplier shall ensure that the processing source for these requirements, including those performed by the supplier, are listed on the Vought ASPL prior to any processing of hardware.

As a prerequisite for Vought ASPL approval, Special Processors require Nadcap/Nucap accreditation. Vought subscribes to Nadcap for the following process categories:

- Nondestructive Testing
- Heat Treating
- Material Testing Laboratories
- Chemical Processes
- Coatings
- Welding
- Non Conventional Machining & Surface Enhancement – Shot Peening
- Composites

Vought reserves the right to validate Nadcap compliance to any processes that are unique to Vought or outside the scope of normal industry practice and/or Nadcap general audit practice. This requirement also applies to the first-tier suppliers with internal process capabilities. In addition, if the supplier utilizes any external special process sources, this requirement must be flowed down to the processing sources. All costs associated with Nadcap/Nucap accreditation is to be borne by the processor.

The Performance Review Institute (PRI), a nonprofit affiliate of the Society of Automotive Engineers (SAE), must perform Nadcap/Nucap accreditation audits. Detailed information regarding the Nadcap/Nucap accreditation process, including the audit schedule can be obtained from PRI at (724) 772-1616 or from the PRI Website: http://www.pri.sae.org

When processes listed in Vought’s Customer Approved Processor List, (i.e., Boeing D1-4426, Lockheed Martin QCS-001, Airbus Digest, etc.), are required by drawing, specification, or purchase order, the supplier shall ensure that the processing
source for these processes, including those performed by the supplier, are approved by the Vought customer prior to any processing of hardware.

Processor purchase orders to Vought “Approved Sources” should contain the following statement: “Work to be accomplished in performance of this purchase order is directly related to a Vought Aircraft Industries, Inc PO”. The project name for the end item to be delivered should also be flowed down to the processor (e.g. F/A-18, 747, E2C etc.) The supplier and their sub tiers shall use the appropriate Vought or Customer ASPL per Table 3, page 16, for all Vought procurements.

Approved processor listings can be accessed via Vought’s Internet Web Site at: [http://www.voughtaircraft.com/suppliers/quality/appspepro.htm](http://www.voughtaircraft.com/suppliers/quality/appspepro.htm)

Supplier shall use the current specification revision in effect on the date of the purchase order or a later revision of a process specification shown on Vought's Internet website, provided the following requirements are met:

- There are no Vought initiated engineering orders associated with the process specification that the author of the specification has not incorporated in the later revision.
- There is no cost or schedule impact to deliverable hardware under contract; If an impact does exist as a result of using a later process specification revision than that shown on Vought’s website, Supplier shall contact Vought for disposition instructions.

**Note:** Suppliers with Design authority may approve their own sub tier process source(s). However, they are encouraged to subscribe to Nadcap and require Nadcap accreditation by their processors. Subcontracted processes of components of Supplier design must be performed by supplier-approved facilities whose capabilities and performance are supported by objective evidence of control such as: surveys and/or test results. A listing of all facilities being used must be available for review by Vought which reserves the right of disapproval of those facilities not considered satisfactory. Suppliers shall not substitute their own process specification for the Vought or customer process specifications without prior written approval from Vought Engineering.

Listing in the ASPL does not assure or imply that the work performed by the ASPL processor is acceptable, nor does it compel the listed processor to accept the work. When processes are procured, it is the responsibility of the Supplier to verify all processes are performed in accordance with the specification requirements. Additionally, the processor shall review, perform, inspect and certify to the process specification as required by the purchase order. Any departure from specification requirement requires the prior written approval of the Vought engineering group responsible for the specification.

The ASPL processor (at all tiers) shall also comply with the Vought Program unique
requirements such as submission of test coupon, written approval of the processor's detail procedure, use of specific chemicals and/or concentration, and witnessing of first part processing and etc., when required by the process specification.
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Table 3

ASPL Cross Reference

E-8C (Project Code JS)
When special processes are performed in conjunction with an E-8C Overhaul, the Repair Station shall ensure that processes are performed by a source approved under their FAA license, or a Vought Aircraft Industries, Inc. approved source (ASPL) or by the Original Equipment Manufacturer (OEM) approved source for that process.

**Product Associated with Secured Programs Only**

For Security Access Restriction “SAR” Items, Supplier must contact Vought for process approval status.

**CH-60 (Project Code SK)**

Sikorsky document SS7777 M&P process specification Index must be adhered to as applicable. Special Processes are identified by a “Q” code in SS7777. The supplier shall also comply with the Sikorsky Aircraft raw material test plan requirements noted in the Approved Source List for Special Processes and laboratories.

### 2.4 NONCONFORMING MATERIAL CONTROL

Nonconforming material must be identified, documented, evaluated, segregated (where practical), and dispositioned.

**Disposition Authority**

The supplier’s disposition authority of nonconformances is limited to rework, return to supplier and scrap; unless the supplier has been granted MRB authority (reference SQR-005). These terms are defined as follows:

**Rework** - A process applied to a nonconformance, entirely within the confines of the drawing specifications, that will completely eliminate it and result in a characteristic that conforms completely to the drawings, specifications, and contract requirements.”

Under the provisions of this definition, rework is authorized if the governing specifications referenced within the bounds of the associated drawing provide the necessary rework instructions. Suppliers must document the nonconformance(s) and provide detail rework instructions as part of their manufacturing planning process. This is considered a part of the supplier’s approved Quality System relative to the control, documentation, and disposition of nonconforming material. Any rework that will alter the chemical or mechanical properties of the affected part final engineering configuration must be submitted to Vought MRB for disposition.

Those Nonconformances that fall outside the original rework provisions and the
supplier feels that a rework or repair can be applied, should be submitted to Vought MRB in accordance with SQR-003 for subsequent disposition.

**Return To Supplier** - Return of subcontractor product found to be discrepant for subsequent rework or replacement.

**Scrap** - Permanent removal from production and timely destruction of product found to be unfit for use. Scrapped product shall be conspicuously and permanently marked until destroyed.

All other dispositions of nonconforming material shall be submitted to Vought MRB in accordance with SQR-003. The quantity of parts submitted to MRB shall be limited to the APORS RAP line item quantity/schedule.

**MRB Dispositions for Supplier Designed Hardware**

Suppliers of product that retain design authority to a Source/Specification Control Drawing (SCD) may use dispositions of use-as-is or repair as long as the nonconformity does not result in a departure from the requirements of the SCD/Customer Specification. This includes suppliers that produce products of proprietary design, and products to military and industry standards.

The supplier MRB shall not perform any disposition on any nonconformance to customer requirements that affect form, fit, function, weight, interchangeability, reliability or safety. These nonconformances shall be submitted to Vought MRB through the electronic SMRR (Supplier Material Review Record) process accessed via the Vought Supplier Portal as defined in SQR-003. As required in SQR-003, the supplier shall include root cause and corrective action following the 5-point method defined therein.

**2.5 PRODUCT RELEASE**

Product(s) associated with this purchase order are subject to Vought’s inspection. Vought’s inspection requirement is stated in the body of the purchase order for each respective line item (Figure 1b or 2d). Vought’s inspection options and descriptions are shown below:

1) **Buyer Plant or SAP PO 01)- 02) Vought Site**

   Vought shall inspect deliverable product(s) upon receipt at Vought’s facility.

2) **Pay for Source**

   Supplier required to contract with a Vought approved service provider. The list of approved service providers can be found on the Vought Supplier web site url: [http://www.voughtaircraft.com/suppliers/](http://www.voughtaircraft.com/suppliers/) under the "Quality" tab. This requirement is normally used for new suppliers, suppliers who have been removed from Vought’s delegation program based on quality performance issues, or can be applied at the Purchase Order line item level for individual part
numbers that have had repetitive quality escapes.

3) **Vought Aircraft Industries, Inc. Source or SAP PO 03) – 04) VAll Source**

Deliverable product(s) are subject to Vought Aircraft Industries, Inc. Source Inspection. Unless otherwise specified by the Vought Buyer, Vought source inspection shall be performed by Vought’s Approved Service Providers as identified on the Vought Supplier Web Site.


4) **Vought Aircraft Industries, Inc. and Government Source**

Deliverable product(s) are subject to Vought and U.S. Government’s source inspection or surveillance in accordance with the provisions stated above for each respectively.

5) **See Remarks or SAP PO 05) – 06) Inspect per PO Remarks by sampling/Inspect per Special Instructions**

Vought’s inspection requirement is noted in the “remarks” section of the purchase order. Supplier shall refer to this section for Vought inspection instructions.

6) **None or SA PO 07) No Receiving Inspection**

No Vought inspection is required for deliverable items in this purchase order. Note: Exceptions will be source inspection items noted in Item 7 below.

7) **Preferred Performer Program or SAP PO 08) – 09) P3 Program**

Vought Aircraft Industries, Inc. P³ suppliers are authorized to perform inspection functions and acceptance of product and associated paperwork on behalf of Vought Aircraft Industries, Inc. Vought Supplier’s P³ authority is defined in the purchase order agreement, at the P.O. line item level (see fig. 1b or 2D).

P³ suppliers shall perform inspection and acceptance of product in accordance with Vought document VWI 7.4.051M located on the Vought “Suppliers” Website

http://www.voughtaircraft.com/suppliers/quality/ppdocs/7-4-051.pdf

P³ Suppliers that lose their delegated source inspection status due to quality performance reasons shall contract and pay for source inspection through a Vought approved service provider*. The P³ supplier may regain their delegated status when all the following conditions are met:

1. Successful Corrective Action resolution of the issue/event causing removal of delegation.

2. Three (3) consecutive deliveries with no recurrence of the issue/event
involved in the loss of delegation if the loss was based on a single issue/event.
3. Positive nonconformance improvement trend for the latest quarter quality performance metrics
4. A minimum of Ninety days loss of delegation.
   * Vought Approved Service providers can be located on the “Suppliers” website at:

P³ supplier FAI requirements are as defined in this document (refer to Sections 2.8). Vought retains the right to impose inspection requirements independent of the supplier’s P³ authority. P³ Suppliers DO NOT have inspection authority for items listed below. These items require mandatory Vought Aircraft Industries, Inc. Source Inspection regardless of whether they are details, or details contained within kits or assemblies. Source inspection for accountable tooling shall be requested directly through the Vought Buyer in lieu of the Vought Approved Service providers.

2.6 PART MARKING REQUIREMENTS

Supplier shall mark all deliverable products and documents in accordance with the purchase order, manufacturing planning, or engineering drawing in that order of precedence.

Note: In the event there is a conflict between the requirements defined below and the engineering drawing and/or specification, the drawing/specification take precedence.

In addition, supplier shall apply the actual date of manufacture, date code(s) or other control identifier number (see examples below) to all deliverable hardware. Information must be applied adjacent to the hardware’s identification markings and must be traceable to Supplier’s build documentation. Hardware produced in lots, batches, groups, etc., shall have traceable control information applied. When size of hardware, or Supplier’s automated stamping process, does not permit data application to individual hardware (such as standard parts), the information shall be similarly placed on bags, tags, or labels as applicable examples of traceable information may include, but are not limited to:

a) Date of Manufacture
b) Serial Number
c) Lot Number
d) Control Number
2.7 SHIPPING & DOCUMENTATION REQUIREMENTS

Note: Supplier's shall not return Vought furnished material without written direction of Vought buyer. Material returned to Vought must include copies of Vought shipping documents.

Note: "Shipping documentation other than the packing slip and CD-4020b (if applicable) must be transmitted electronically in lieu of paper copies. Electronic transmittal of shipping documentation must be submitted via the Aerospac Electronic Document system, to which Vought subscribes and funds. Note: there will not be any licensing cost or recurring fees to the supplier for access and use of the Aerospac process. Access the Aerospac website from the following URL:
Supplier shall provide a packing sheet for each separate shipment. Packing sheets or attachments shall include the following information:

1) **Minimum Requirements (All Suppliers and Distributors; All Products)**
   
a) Supplier’s company name and address  
b) Vought’s purchase order number, change order number and applicable P.O. line item(s) and part numbers.  
c) Denote applicable design drawing revision and applicable engineering changes (ADCN, EO, etc.), as stated in Vought’s purchase order, or later revision.  
d) A “Certificate of Conformance (C of C)” document that provides written assurance that all work performed in connection with Vought’s purchase order conforms to purchase order requirements. This can be a separate document from the packing sheet, or included on the packing sheet. Note: The original signature and/or stamp of Supplier’s authorized Quality representative is required. Secured computer-generated signatures are acceptable.

   Note: If submitting Form CD-4020 a separate Certificate of Conformance is not required.

   e) Form CD-4020, Supplier Certificate of Compliance  

   Note: When special processing is performed, Suppliers manufacturing detail end item parts, shall list on Vought form CD-4020 the order in which special processing was performed, the supplier that performed the process, the processor’s special process approval number and the Certificate of Conformance number from the special processor.

   Form CD-4020 can be obtained from Vought’s website at:  
   [http://www.voughtaircraft.com/suppliers/forms/forms_quality.htm](http://www.voughtaircraft.com/suppliers/forms/forms_quality.htm)

   Suppliers approved for Vought’s “Preferred Performer Program” do not require Submission of the CD-4020 form except for product in support of the Boeing 787 Program (project ID’s ‘IN’ and ‘IO”). However, a “Certificate of Conformance” must still accompany all shipments.

   f) Vought -dispositioned nonconformance document number(s), as applicable shall be noted on the packing slip and CD-4020 as applicable.

   g) Form CD-4020b, Supplier Certificate of Compliance (as required)

   This form is required when shipment has been authorized and the deliverable contains an open rejection tag (i.e., work or further evaluation is
required at Vought). Form CD-4020b can be obtained from Vought’s website at:

http://www.voughtaircraft.com/suppliers/forms.forms_quality.htm

2) Deliverable Documents.
Supplier shall apply the actual date of manufacture, date code(s) or control number(s) to the shipping document and/or “Certificate of Conformance”, signed by the Supplier’s designated Quality representative. Note: Supplier must clarify the type of information being provided by typing the words “Date Code,” “Control Number,” etc. next to the information provided. When the shipment of deliverable items includes multiple date codes, control numbers, etc., each must be listed on the “Certificate of Conformance” document.

Note: For Boeing Commercial “Designated Parts”, each shipment certification shall include the Boeing approval memo number and the date and/or the revision level of the designated manufacturing plan used to produce the Designated Parts.

3) Sub-tier Supplier/Processor Certifications.
If Supplier is not the original fabricator, processor or assembly source of the product(s) which make up the deliverable end item(s), supplier shall obtain and retain on file Sub-tier Supplier/Processor certifications and test results. Supplier’s Sub-tier Supplier/Processor certifications and test results shall be made available to Vought upon request.

4) Additional Requirements as applicable:
   a) Serial Number
   b) Interchangeable and Replaceable (I&R) designated control numbers.
   c) Required parts traceability forms associated with Section 2.10, 2.12, and 2.26.
   d) Traceable Records. Supplier shall maintain parts traceability records as required per applicable drawing requirements. Supplier’s Certificate of Conformity package shall include parts traceability data (see Sec. 2.7 Para. 3 &
   e) Global Hawk: For Fracture Critical items, supplier certification must include the date and/or revision level of the manufacturing plan used and the Northrop Grumman PO-005 survey/RCI number approving the plan.

5) Machined Part Suppliers, Sheet Metal Part Suppliers, Composite/Non-
metallic Part Suppliers, Casting & Forging Suppliers, and Raw Material Manufacturers.

Supplier shall provide via the Aerospac process the raw material certification, which was provided by the original mill. Mill certifications shall include conformance with the applicable material specification as noted on Vought’s purchase order, material description, alloy and condition, physical properties, chemical analysis, and heat lot number. If the raw material was purchased from a distributor, include the distributor’s certificate of conformance along with the mill certification (Recertification by any means other than by the original mill is not authorized). Castings and forgings procured in support of Vought Purchases of Machined parts must have documented evidence of Vought/Customer qualification acceptance prior to production (See Section 2.17). All chemical analysis and physical test certifications shall also be provided for castings and forgings.

**Note:** Suppliers using Vought provided material may provide evidence of Vought consignment in lieu of raw material certifications.

**Note:** This category also applies to machined-sheet metal assemblies where the assembly consists of the machined-sheet metal part and standard hardware such as bearings, bushings, nutplates, and/or sleeves.

### 6) Distributors of Standard Parts/Hardware/Raw Materials

- a) Vought does not accept raw materials from pass through distributors (Level 3) that have not been procured directly from the manufacturer, unless certified copies from the original mill are available or without prior written approval from Vought. Purchases of recertified raw material or raw material that has departed from direct control of the manufacturer is prohibited. Attempts to make such sales to Vought shall be grounds for disqualification.

- b) Vought approved distributors of raw material shall provide certified copies of manufacturer’s test reports with each shipment.

- c) Vought classifies a supplier as an approved distributor for a specific manufacturer when the distributor has written authorization from the manufacturer to procure and distribute specific products produced by manufacturer. It is the Distributor’s responsibility to provide a copy of the manufacturer’s authorization letter to Vought upon request.

- d) Distributors shall ensure that Std. Parts/hardware/material is marked in accordance with specification requirements. Original mill marking shall be affixed and legible on raw materials and shall not show signs of tampering or altering.

- e) Vought does not accept standard hardware or other items from pass through distributors (Level 3 Quality System approval) unless they are procured directly from the manufacturer or a copy of the original
manufacturer certification/test report is provided. In addition, hardware or other items that have been altered by a pass through distributor will not be accepted without prior written permission by Vought. Distributors wishing to provide "Value Added" services shall be approved to Vought's Supplier Quality System Survey Level 2 (AS9100 Less Design; See Table 1).

f) (F/A-18, B-2, Global Hawk and F-5 Programs Only) Standard and Purchase parts Distributors shall comply with the requirements of Northrop-Grumman’s Quality Assurance Test Procedure (QATP). Copies of this document are available via the Northrop-Grumman website at: https://oasis.northgrum.com/contract/contract.htm.

g) CH-60 Program only: Sikorsky standard parts index shall apply.

Note: For elements 5 and 6 above Non USA suppliers of raw Materials may not be used without written approval from Vought Quality, unless the supplier is listed as an approved manufacturer in the respective procurement specification. Requests for consideration/ deviation can be submitted via the E-SIR process through the Supplier Portal.

7) Suppliers of Age-Sensitive Materials
Provide original manufacturing/cure date, lot number(s), expiration date or length of shelf life (if indefinite, so state), and any special storage/handling instructions. Note: For age-sensitive rubber products, Supplier’s “expiration date” or “length of shelf life” data is not required if the cure date and applicable specification number are stamped on the deliverable hardware. Supplier is responsible to determine if acceptance test report submittal is required in accordance with applicable material specification.

8) Rework/Repair/Replacement/Modified Items
Supplier’s Certification of Conformance and/or packing sheet (if it contains the C of C statement) document shall reflect the following requirements for rework, replacement, repair or modification of items returned to Supplier, including work performed by Supplier at Vought’s facility.

a) The item(s) have been reworked, repaired, replaced, or modified (as applicable), in accordance with respective nonconformance documents or Purchase Order.

b) The item(s) meet the requirements of the engineering document(s).

c) The original configuration and qualification status of the item(s) remains in effect (as applicable).

d) All applicable nonconformance document numbers or other references to insure traceability.
9) Overhaul/Repair/Modified Items – FAA Repair Stations
Supplier shall provide a completed serviceable tag with Maintenance Release Statement, FAA Form/Tag 8130-3 in accordance with FAR, Part 43. Any Airworthiness Directives (AD’s) or Service Bulletins (SB’s) required by contract or the FAA shall be documented on the 8130-3, including level of compliance. When applicable, the supplier shall provide FAA Form 337, *Major Repairs and Alteration Statement*, and or FAA Form 8110-3, *Statement of Compliance with Federal Aviation regulations, and Alternate Method of Compliance*. Work must be performed by a FAA FAR 145 approved repair station. When requested by VOUGHT, supplier shall provide a completed copy of the final inspection work order, which details the entire scope of work, performed.

10) FAA FAR, Part 21 (Certification Procedure for Products and Parts)
Suppliers of new FAA products/parts shall provide documented evidence of traceability to FAR Part 21, Quality System Requirements, with each shipment. Suppliers of approved serviceable replacement parts shall provide with each shipment documented objective evidence of traceability to FAA FAR 21 as outlined by Advisory Circular No. 20-62 latest revision. Supplied parts shall be airworthy and acceptable for aircraft/aeronautical installations to all specifications called out contractually.

11) Qualification Certification
*This section does not apply to E-8C Overhaul Items, Project Code “JS”.*
When Vought’s drawing, procurement specification or purchase order requires deliverable items to be re-qualified, Supplier shall ensure that deliverable item(s) have identical components to those parts originally qualified to the applicable specification/control drawing. In addition, Supplier shall ensure that materials, parts and/or assemblies were inspected and/or tested to Vought-designated specification control drawings (both Vought and Supplier originated), and indicate revision level of engineering drawings, specifications, and applicable design/specification changes as stated in Vought’s purchase order. Vought shall view supplier’s Certification of Conformance (C of C) document and/or packing sheet (if contains C of C) as Supplier’s indication of compliance with this requirement. End items delivered prior to completion of qualification testing shall be allowed only by Vought’s written consent.

12) Kitted parts
All deliveries must be accompanied with a legible Certificate of Compliance (C of C) or equivalent with each kit. The supplier must certify that all material/parts have been processed, inspected, and tested in accordance with the purchase order and engineering requirements. The supporting data is on file and will be
made available for Vought review upon request.

Any deviations/waivers associated with material/parts in the kit is to be listed on the packing slip/C of C along with the affected part number.

A first article inspection (per section 2.8) is required against the kit part number as well as each individual part within the kit.

Note: Any additional Data package requirements will be itemized on the respective Purchase Order and/or planning configuration sheet (e.g., MOT/MOI).

13) Assemblies/sub-assemblies

All deliveries must be accompanied with a legible Certificate of Compliance (C of C) or equivalent with each kit. The supplier must certify that all material/parts have been processed, inspected, and tested in accordance with the purchase order and engineering requirements. The supporting data is on file and will be made available for Vought review upon request.

Any deviations/waivers associated with material/parts in the assembly is to be listed on the packing slip/C of C along with the affected part number.

A first article inspection (per section 2.8) is required against the assembly part number as well as each individual part within the assembly. Note: Only the assembly level FAI is required to be entered in Net-Inspect. Detail parts within the assemblies require FAI’s in accordance with AS9102 however use of the Net-Inspect process is optional.

Note: Any additional Data package requirements will be itemized on the respective Purchase Order and/or associated planning configuration sheet.

2.8 FIRST ARTICLE INSPECTION (FAI) & DESIGN / PROCESS CHANGE VALIDATIONS

The purpose of Supplier’s FAI is to ensure that all design features of a deliverable product and its sub components meet all applicable levels of design drawing, material and process specification requirements. FAI is a process imposed on detail parts (Including Castings, Forgings, material cut to size, etc.) and assemblies. An acceptable first article product is a representation of those planned, capable, and repetitive manufacturing processes and proven tooling which produced it. Supplier must be able to demonstrate to Vought, upon Vought’s request that the intent of FAI was successfully accomplished, and show objective evidence thereof. All Vought procurements require an acceptable FAI. If the Supplier has existing FAI
documentation on file for the same configuration of products noted in Vought’s P.O., and no subsequent changes to Supplier’s manufacturing processes have occurred, a new FAI is not required.

When the engineering is based on Digital Product Definition the following guidelines shall be taken into account: All features that are defined by the 3d model must be included in the product acceptance plan and accounted for as part of the FAI documentation. When dimensional characteristics are not defined by either a standard linear tolerance or GDT feature control frame on the face of the model, these features are defined in the parts list and/or notes of the drawing. Examples of un-dimensionalized part characteristics include but not limited to, gage thickness, surface locations, and part periphery. The FAI shall account for the entire engineering dataset (i.e., the general/flag notes, parts list, all features/characteristics per defined tolerances).

Note: The development of a product acceptance plan assists the supplier in identifying all of the part characteristics that require validation and documentation of values on the FAI report. This also supports the “unique identifier” requirement contained within the AS9102 FAI process.

The FAI requirement shall continue to apply even after initial compliance. Partial or complete re-accomplishment of the FAI for affected characteristics is required for the following events:

- A change in the design affecting form, fit or function of the part.
- A change in manufacturing source(s), processes, inspection method(s), location, tooling or materials with the potential of affecting fit, form or function.
- When required as part of corrective action for a part number with repetitive rejection history (typically, a part with three repeated rejections or as required by customer).
- A change in numerical control program or translation to another media.
- A natural or man-made occurrence, which may adversely affect the manufacturing process.
- A lapse in production for two years or as specified by customer.

The supplier shall perform and document First Article Inspections in accordance with SAE Aerospace Standard AS9102, this document can be found and purchased at: [http://www.sae.org/products/standards/hotaero.htm](http://www.sae.org/products/standards/hotaero.htm). The Net-Inspect process is AS9102 based and compliant. If the supplier’s First Article Inspection System is based on AS9102, Supplier equivalent forms are acceptable providing they address all the elements of the AS9102 form.

All suppliers are required to utilize the Vought web based Net-Inspect FAI process. If the supplier is currently utilizing an electronic AS9102 based FAI process or is still utilizing a paper AS9102 form then you may include these as attachments after initiating and completing Form 1 in Net-Inspect in lieu of completing the Net-Inspect Forms 2 & 3. This requirement shall apply to the
line item deliverable part number only, unless the deliverable is a kit then it
applies to the details that comprise the kit (this requirement does not apply to
FAI’s for details contained within an assembly). Access Net-Inspect website from the following URL:

http://www.net-inspect.com/

Note: The following items/documents (as applicable) shall become a part of the
electronic record and shall be referenced and attached to the electronic FAI file
for the applicable part number.

- Material certifications
- Process certifications
- Test reports/results
- CMM reports when the FAI reflects “see CMM report” and actual
  values have not been recorded on the FAI form. Point map and set-
  up instructions (origin, datum, and alignment)
- Copy of the shop traveler that represents the manufacturing process.
- Copy of the Vought furnished MOT/MOI

- Bubbled drawing/sketch (unique identifier)
- Photos (as applicable)
- Sketches (as applicable)
- Casting/forging approvals (as applicable)
- Manufacturing plan approvals (as applicable)

When Supplier chooses to procure subassemblies and parts, these FAI
requirements shall be imposed by the supplier upon the sub-tier supplier. These
requirements in no way limit, supersede, or abrogate any contractual obligations
specified in Vought’s procurement document.

If the supplier is furnishing kits to Vought, a FAI must be performed and
documented by the supplier for each item in the kit, as well as the kit level part
number.

For product procured in support of Airbus UK programs, Airbus UK FAI validation is
required prior to shipment. Supplier shall contact Vought procurement to schedule
appropriate FAI review by Vought / Airbus UK personnel.

Note: SUPPLIER SHALL NOT CONTACT AIRBUS UK REPRESENTATIVE
DIRECTLY. VOUGHT SOURCE INSPECTION SHALL PRECEDE AIRBUS UK FAI
INSPECTION UNLESS OTHERWISE DIRECTED.

FIRST ARTICLE REVIEW

Vought’s first article review shall be performed on all parts at non-delegated suppliers and on procured items identified under P3 exclusions per Section 2.5, item 7. The Vought FAI validation is required at the Purchase Order line item level. The cognizant Quality Representative shall validate that the supplier has performed the FAI’s on all detail components below the line item level where applicable. The supplier shall make available any detail FAI as requested by the QA representative.

Supplier shall notify Vought in advance of the need for first Article review. It is the responsibility of the Supplier to coordinate and schedule Vought’s first article review as early during P.O. execution as practical. In addition to Vought’s first article review, Vought’s engineering drawing or Vought’s written instruction may require an Engineering first article evaluation. When required, Supplier shall schedule and support this requirement similar to first article review.

Note: Production of deliverable items prior to Vought’s acceptance of first article will be at Supplier’s own risk.

2.9 INTERCHANGEABILITY AND REPLACEABILITY (I&R) REQUIREMENTS

Supplier shall review Vought’s purchase order and associated drawing(s) to determine if Interchangeability & Replaceability (I&R) features apply to Supplier’s deliverable hardware and/or statement of work.

I&R records shall be maintained by Supplier and made available for Vought’s review upon request. Supplier’s packing sheets and/or attachments must include the Vought designated I&R control numbers as specified in this purchase order’s configuration statement of work.

F/A-18 Program Only. The Northrop Grumman document NOR 97-310 (Supplier Interchangeability and Replaceability [I&R] Requirements F/A-18 Program) addresses the basic guidelines for controlling Interchangeable and Replaceable components for the F/A-18 program. The requirements contained therein address all levels of production from detail part fabrication to completion of installation, at either the Supplier’s or Vought’s facility. The document addresses Supplier responsibilities, documentation and coordination requirements between Vought and Supplier. Requirements addressed in this document shall be imposed on sub-tier suppliers who fabricate I&R components. Copies of this manual can be obtained by contacting Vought’s procurement representative.

2.10 NON-DESTRUCTIVE TEST (NDT) SUBMITTAL REQUIREMENTS

1) F/A-18, B-2, and Special Projects (e.g., Space Program) Suppliers Only
Supplier shall review this purchase order and associated drawings/drawing notes and related documents to determine if NDT is required. Submittal of NDT general procedures and part-specific techniques to Vought is required prior to production testing. NDT Procedures & Techniques shall be submitted to Vought for review and approval through the Supplier Information Request (SIR) Process; Exceptions are noted below. Guidelines for the minimum content of general procedures/techniques are provided in the respective NDT process specification. After initial approval, any changes to subject documents must be resubmitted to Vought for approval.

2) F/A-18 and B-2 Major Subcontract Suppliers (with Design Authority)

NDT technique submittal is required for the following items only:

a) Critical Parts
b) Class 1 and 2 castings (in accordance with MIL-STD-2175)
c) Pyrotechnics
d) Composites
e) Adhesive Bonded Assemblies
f) When specifically designated in Vought’s purchase order, drawing, etc.

3) Suppliers Using Outside (Subtier) NDT Sources

Relative to (1) and (2) above, Suppliers employing outside sources for NDT shall ensure that the selected NDT sub-tier has Vought’s approval for the NDT procedure/technique used.

4) Suppliers Utilizing In-house or Outside (Subtier) Sources for Radiographic Inspection.

Radiographic Techniques on all programs shall be established to assure freedom from detrimental defects in the casting or finished part and approved by Vought Level 3 prior to delivering the hardware.

2.11 MANUFACTURING PLAN SUBMITTALS FOR CRITICAL PARTS

Note: “Critical Parts” are parts identified on the engineering drawing as Fracture, Durability, Fatigue, Maintenance, as well as Designated parts, Flight Safety Critical, and Identifiable parts.

Manufacturing plans requiring Vought and/or Vought’s Customer approval per specification/purchase order requirements shall be submitted to Vought at least 30 days prior to start of production, or as required by applicable specification. Manufacturing plans shall be submitted to Vought for review and approval through the Supplier Information Request (SIR) Process.

The manufacturing plan shall contain fabrication, processing, processor name,
and inspection steps in the sequential order required by the applicable process specification(s) and/or engineering drawing(s). This shall also include all sub-tier associated manufacturing and/or process plans.

Upon approval of Supplier’s manufacturing plan, Supplier shall control all manufacturing, processing, testing and inspections as stated in the approved plan. No deviations’, including Supplier’s sub-tier suppliers/processors, is permitted without Vought’s written authorization.

Delivery of product is not permitted until Supplier has received Vought approvals.

Supplier shall ensure compliance with the following additional requirements:

1. **Alpha Prefix/Suffix Codes.** With regard to “Fracture Critical,” “Fracture Critical Traceable,” and “Durability Critical” parts, designated alpha prefix/suffix codes (for traceability purposes) may be provided to Supplier by Vought. If not provided within the purchase order, Supplier shall contact Vought immediately to determine the applicability of prefix/suffix codes.

2.12 **TOOLING REQUIREMENTS**

The Vought “Supplier Tooling Manual” (STM), delineates requirements for suppliers who have purchase orders that require manufacture or rework of Special Tooling (ST) or Special Test Equipment (STE). These requirements are applicable to all procurements unless specifically stated otherwise in the purchase order. Suppliers will flow requirements identified in the STM to their sub-tier suppliers that fabricate, rework or design tooling on their behalf. The STM can be accessed via the Vought website at [http://www.voughtaircraft.com/suppliers/](http://www.voughtaircraft.com/suppliers/). Copies of materials referenced in STM can be obtained by contacting a Vought procurement representative.

**Vought Furnished Tools**

Tooling furnished by Vought or Vought’s Customer does not relieve the Supplier of responsibility of proving the adequacy of all tooling. Any anomalies found in such tooling must be immediately reported to Vought Procurement. If Vought furnishes tooling to Supplier requiring a Tool Prove, Vought’s acceptance will be based on verification of Supplier’s first article part and/or assembly documentation.

The Supplier is responsible for periodic calibration of all Vought furnished Precision Measuring Equipment (PME), if PME is contained within the Vought purchase order or its affiliated documents (MOT/MOI, CAPP, etc.), unless otherwise negotiated with the responsible Vought Procurement Representative. The Supplier shall induct all Vought furnished PME into their calibration system and control it in accordance with their written calibration procedures. PME is defined as any device used to measure, gage, test, inspect or otherwise determine compliance with prescribed
technical/engineering requirements. PME includes, but is not limited to, calipers, micrometers, linear scales, pin gages, thread gages, spline gages, custom gages, optical comparators, coordinate measuring machines, hardness & conductivity testing equipment, optical flats, roughness testers, torque wrenches, tensiometers, protractors, sine bars and angle blocks.

2.13 GOVERNMENT QA REQUIREMENTS

NOTE: Vought source inspection shall precede government source inspection.

UNCLASSIFIED PROGRAMS
Supplier shall determine applicability of this requirement via the “Government Source” requirement shown on the face of the purchase order (see Figure 1a), at the purchase order line item level, or within the purchase order “post notes” section. If applicable, Supplier shall promptly notify the government representative normally servicing Supplier’s facility. Supplier shall furnish a copy of the purchase order to the respective government office.

If the government representative/agency cannot be identified, notify Vought procurement immediately.

CLASSIFIED PROGRAMS
Supplier shall determine applicability of this requirement via the “Government Source” requirement shown on the face of the purchase order (see Figure 1a), at the purchase order line item level, or within the purchase order “post notes” section. When applicable, Supplier is specifically instructed not to contact the Government Representative normally servicing Supplier’s plant. Supplier shall contact Vought procurement that will advise through Vought security channels of the Government Representative accessed and designated for this contract.

2.14 REQUESTS FOR CORRECTIVE ACTION AND NOTIFICATION OF ESCAPES
Corrective Action Requests

Responses for corrective action will be directed to the Supplier’s Quality representative. Unless otherwise defined in other applicable flow-down documents, Suppliers are required to respond, within 30 calendar days, to all formal requests for cause and corrective action unless otherwise noted on individual requests for C/A. Response must include all requested information that may be provided on Vought furnished form or the supplier’s own letterhead (Reference SQR-003). Suppliers will direct their response to the originator of the request.

Note: Corrective action extensions must be requested in writing prior to the due date.

Notification of Escaped Defects

When the supplier identifies or becomes aware of a suspect product/service that has escaped from the supplier’s facility to Vought, the supplier shall notify Vought within 48 hours. The Notification shall be in writing, addressed to Vought, on the supplier’s own letterhead.

Notifications of escape shall be sent via e-mail to the following address (Note: a courtesy copy shall also be forwarded to the cognizant, Vought buyer):

mtosystemstech@voughtaircraft.com

The notification shall at a minimum contain the following information:

(a) Supplier Name
(b) Vought Supplier Code number
(c) Description of the defect.
(d) All affected part number(s)
(e) P.O. number(s)
(f) Quantities and Dates delivered.
(g) Manufacturing date (M-Day)
(h) Notification to Vought source representative.
(i) Method of Discovery (discovered by supplier insp., Vought Audit, etc)
(j) Traceability information (serial number, heat lot number, batch number, request for transfer number, etc....see Section 2.6).
(k) Attachment of all test/inspection data.
(l) Information regarding rejection and the impoundment of all work-in-process.
(m) Root cause and corrective action or ECD for submittal (ref. SQR-003 for examples). Vought may require additional detail information to support internal investigations and/or customer requests.

2.15 KEY CHARACTERISTICS

When Vought’s drawing, specification, and/or purchase order, includes “key characteristic” requirements, Supplier shall employ Variability Reduction/Statistical Process Control (VR/SPC) methods to ensure “key characteristic” integrity. VR/SPC related records shall be retained at Supplier’s facility and provided to Vought’s representative, upon request, for compliance review.

The definition of “Key Characteristic” shall be those Key Characteristics called out on engineering drawings and/or purchase order/manufacturing notes. Supplier shall establish control plans for applicable Key Characteristics and strive to achieve a Cpk of 1.33 or better. If not achievable, contact Vought’s Procurement Representative for direction.

Note: Suppliers’ who accept purchase orders with “Key Characteristics” must be SQR-002 approved.

2.16 RAW MATERIAL TYPE AND TEMPER

All metallic details, prior to the first fabrication operation, the supplier is required to verify the correct material type and temper to engineering. Evidence of verification shall be on the supplier’s shop traveler, work order, planning paper or other inspection status documentation.

2.17 QUALIFIED DIE FOR CASTINGS & FORGINGS PROCURED TO A ENGINEERING DRAWING (PART NUMBER)

Prior to initial production, the die or pattern must be qualified per the requirements of the blueprint specifications, The Supplier of the castings or forgings shall perform first piece inspection. Actual dimensions are to be recorded on the First Article Inspection SAE AS9102 Form. Supplier equivalent forms are acceptable providing they address all the elements of the AS9102 form. To clarify, when the forging or casting is to be procured to an engineering drawing, the FAI along with the qualification package (as defined by governing specifications) shall be submitted to Vought for review and approval through the Supplier Information Request (SIR) Process.
2.18 SOFTWARE CONTROL (End-Item deliverable)

If the supplier is providing software supporting a procurement, the Supplier shall establish and maintain a Software Quality Assurance (SQA) program in accordance with ISO 9001, utilizing ISO 9000-3 as a guideline for the development, supply and maintenance of software and any associated Data Item Description (DID) for writing an SQA plan.

2.19 CONTRACT CONFIGURATION

Unless otherwise specified in the contract agreement, manufacturing and inspection shall be performed to the latest Vought released planning/engineering. Supplier is authorized to work to the drawing revision level noted on Vought supplied planning (where applicable) or to a more current revision of released engineering supplied by Vought. If a drawing change notice or drawing revision changes the configuration of the part and is not called out on the purchase order or planning control sheet, the Vought buyer should be notified immediately for written authorization.

2.20 QUALITY RECORDS

Records shall be readily available for review by Vought, its customers, and Government regulatory agencies. Prior to destruction of any quality records related to a Vought procurement, submit an SIR for disposition.

Records are those as defined in AS9100 or other governing Quality Management System specifications and shall be retained in hard paper, film media, and/or electronic as defined by the suppliers Quality Management System.

2.21 USE OF NON-USA SUPPLIERS ON COMMERCIAL PROGRAMS

The use of suppliers or sub-tier suppliers in countries that maintain a bilateral agreement with the United States, as listed in FAA Advisory Circular AC 21-23, will require a routine validation of the product / service supplied upon receipt or at source. This may be in the form inspection or test as determined for the type of product and must be documented. The validation of the product or service may be accomplished by the Foreign Civil Aviation Authority, and evidenced by an Airworthiness Tag supplied by that agency accompanying the shipment.

The use of suppliers or sub-tier suppliers in countries that do not maintain a bilateral agreement with the United States must have a plan presented in advance for approval by Vought Quality Assurance. The plan must delineate how the supplier will control the product or service to assure conformance with all the approved design data. Secondly, the plan must incorporate how the foreign
supplier's Quality Assurance Organization will specifically control their operations and any foreign sub-tier suppliers to assure conformance of the product / service to the approved plan.

The use of a supplier in a country that does not have a bilateral agreement with the United States is also predicated upon both that country's government and the supplier's documented assurance that the FAA will not be inhibited, in any manner, from performing a physical evaluation of the supplier.

2.22 SPECIFIC REQUIREMENTS - E2C PROGRAM

In addition to the Quality System requirements identified in Table 1, the following additional Northrop Grumman documents and appendices apply to all Purchase Orders with the project codes; EA, EC, ET. (See Table 2 for project code descriptions).

- QOS-0033 – Inspection Guidelines
- QOS-0021A – Seller Requirements for Temper Inspection by Electrical
- QOS-0040 – Prime Mission Equipment
- QOS-0042 – Inspection Guidelines for Composite Parts & Assemblies

2.23 SPECIFIC REQUIREMENTS – E-8C PROGRAM

In addition to the Quality System requirements identified in table 1, the following additional Northrop Grumman documents and appendices may be imposed on all Purchase Orders with the project code JS. (See Table 2 for project code descriptions).

- QES-MLB-100 E-8C Quality Requirements for Refurbishment and Repair of Aircraft Component Parts and Assemblies
- QES-MLB-102 Vought Aircraft Industries, Inc. Joint Stars Quality Requirements for the Refurbishment Inspection of Boeing 707 Aircraft

(Note: If the requirements in SQAR and the requirements in the documents referenced in the paragraphs above conflict, the requirements in the referenced documents take precedence.)

2.24 SPECIFIC REQUIREMENTS – C-17 PROGRAM

The following requirements are unique to the C17 Program and the supplier should
pay particular attention to these areas to ensure compliance:

- Assignment of serial numbers is handled by Vought Aircraft Industries for Category A parts – there are no exceptions.
- Where a Government or Industry Standard is shown on an engineering drawing in addition to the Boeing DPS/DMS standards, the use of the Boeing standards is mandatory for suppliers fabricating or assembling parts per Boeing design requirements.
- When DPS 4.747 is invoked per the drawing, NDI procedures must be submitted and approved by Vought NDI Level 3 prior to performing NDI.

2.25 SPECIFIC REQUIREMENTS – F-22, C-130 & P-3 PROGRAMS

Seller shall ensure all Seller sub-tier purchase orders and/or associated purchase order documents for Lockheed Martin-controlled processes include the following data elements, statements, or the statement in the Note after f:

- a. Seller’s unique LM Aero identification number (“vendor code”) and all LM Aero unique “process codes” for each Buyer-controlled process to be performed,
- b. a statement with the words, “Processing to be accomplished in performance of this purchase order is directly related to a Lockheed Martin Aeronautics Company purchase order and must be accomplished in accordance with process specification(s) on this purchase order and Lockheed Martin Aeronautics Company Appendix QJ”,
- c. a statement that Seller’s supplier must file and maintain a copy of all purchase orders containing the above statement and make these available for review by Buyer, upon request,
- d. a statement that Seller’s supplier must submit a Certificate of Conformance (“CoC”) with a unique certification number containing the following information:
  1. title and specification number (including revision letter) of the process,
  2. name and address of the process or non-destructive testing (“NDT”) facility,
  3. Seller’s supplier’s unique LM Aero identification number (“vendor or processor code”),
  4. date the CoC was issued,
  5. purchase order part number,
  6. quantity of parts (to include quantity accepted/ rejected),
  7. signature and title of authorized quality agent of Seller, and
  8. fracture durability classification or serialization, when required.
- e. a statement to ensure Seller’s sub-tiers suitably wraps, boxes or racks parts to guard against shipping damage and to apply rust or corrosion protection, and
- f. a statement requiring Seller’s sub-tier to identify specification(s) title, specific
revision level(s) and drawing(s) requirement(s) to be performed by a QCS-001 source.
i. If processor is utilized based on a Nadcap approval, a statement to the effect “Source utilized based on current Nadcap accreditation” shall be included,

Note: Seller can also use the following statement in lieu of the above statements a. – f. to meet the requirements of this paragraph:

Include Seller’s unique LM Aero identification number (vendor code) and a statement with the words, “Processing to be accomplished in performance of this purchase order is directly related to a Lockheed Martin Aeronautics Company purchase order and must be accomplished in accordance with process specification(s) on this purchase order and the revision in effect as of the date of this PO of Lockheed Martin Aeronautics Company Appendix QJ. All requirements of a. - f. shall be accomplished.

Seller shall review testing lab CoC to ensure all required testing has been accomplished and meets all requirements of the applicable testing specification.

a) Upon Buyer’s request, Seller shall provide objective evidence of Seller’s review . Seller shall submit all requests for additional QCS-001 process approvals in writing to Buyer.

In addition the seller shall also provide for the following:

1) NDT Certifications for Fracture Critical parts must include LMC approved NDT technique identification number, revision letter and date of approval.
2) Supplier shall be responsible for ensuring that supplier or QCS-001 sources have the appropriate revision level of the process standards/specifications prior to performing work in connection with the Items.
3) Supplier shall maintain objective evidence that each LMC-approved process source, selected by Supplier, is being monitored to assure compliance with all applicable process specifications. Supplier shall provide objective evidence of such compliance to Buyer upon request.
4) Supplier shall ensure process controls are established and required process control tests are accomplished at required intervals to ensure continued compliance to process specifications. Records for all process control tests, e.g. monthly or by lot, and inspection of processed items performed by a QCS-001 Source shall be made available and maintained for at least seven (7) years after completion of this PO.
5) Suppliers are not relieved from the obligation to assure suppliers/processors are in full compliance with applicable specifications and deliver acceptable hardware in compliance with the purchase order.
6) Supplier shall maintain activity data on each LMC-Approved process source
utilized by supplier, if any, compile quarterly report, and submit via SIR within five calendar days of the end of each calendar quarter. The report shall contain the following information:

a) QCS-001 source name;
b) LMC’s assigned QCS-001 source number;
c) Process specification used by specification number; and
d) Quarterly frequency of use.

7) Seller shall ensure compliance with LMCO PPH *(Preferred Parts Handbook)*

Whenever and/or wherever FOD entrapment or foreign objects can migrate, Seller shall make provisions for a FOD prevention program:

Seller’s FOD prevention program shall include the review of design and manufacturing processes to identify and eliminate foreign object entrapment areas and paths through which foreign objects can migrate. Seller shall ensure work is accomplished in a manner preventing foreign objects or material in deliverable Items. Seller shall maintain work areas and control tools, parts and materials in a manner sufficient to preclude the risk of FOD incidents. Seller shall document and investigate each FOD incident and ensure elimination of the root cause of each such incident.

Whenever and/or wherever FOD entrapment or foreign objects can migrate, Seller’s FOD prevention program shall include Seller’s periodic self assessment of its internal FOD prevention practices, including each respective subcontractor’s FOD prevention program at every tier to measure effectiveness of program compliance to requirements.

Seller’s FOD prevention program shall provide initial and periodic FOD training to Seller’s employees.

Seller shall provide records of such self assessment and training to Buyer, upon request.

Prior to closing inaccessible or obscured areas and compartments during assembly, Seller shall inspect for foreign objects/materials. Seller shall ensure that tooling, jigs, fixtures, and test or handling equipment are maintained in state of cleanliness and repair sufficient to prevent FOD.

By delivering Items to Buyer, Seller shall be deemed to have certified to Buyer that such Items are free from any foreign materials that could result in FOD.

The FOD prevention program at a minimum shall include the following:
1. Design and manufacturing process review
2. Performance measurement
3. Training
4. Material handling and parts protection
5. Housekeeping
6. Tool accountability
7. Hardware accountability
8. Lost items search and documentation process
9. Physical entry control into FOD critical areas
10. FOD focal point(s)

Note. Seller shall document EPS/EMAP compliance on FAI and production inspection records.

2.26 SPECIFIC REQUIREMENTS - AIRBUS UNITED KINGDOM (AUK)

The Seller shall assure that all goods supplied are supplied in conformance with the quality requirements of Airbus UK’s “Quality Management Requirements for Externally Procured Supplies and Services”, (AUK/SA-001-1, 001-2, or 001-3), CAA, or MOD APPROVAL as applicable. Airbus UK work associated with Vought Purchase Orders is in furtherance of Airbus UK Projects.

Sellers approved for the Airbus UK program must also comply with relevant Airbus Supplier Instructions (ASI’s) as distributed by the Airbus UK Quality Manager at Filton.

Sellers approved to AUK/SA/001-1 or –2 shall only utilize Airbus UK approved sources for externally procured material or processes.

CERTIFICATE OF CONFORMANCE

All deliveries must be accompanied by a legible Certificate of Conformity, which states the Seller’s Airbus UK, CAA, or MOD approval number and a statement of conformance such as:

- Manufacturers - “(Seller) certifies that the whole of the supplies detailed hereon have been manufactured, inspected, tested and unless otherwise stated above conform in all respects to specification(s), drawing(s), and contract/order relative thereto and the requirements of AUK/SA/001-1 or BAE/AG/QC/SC1, Part 1.”

- Distributors – “(Seller) certifies that the whole of the materials and/or parts covered by this certificate have been received under cover of the release
certificates quoted hereon, are in the same condition as when received and are re-issued in accordance with the requirements of AUK/SA/001-2 or BAE/AG/QC/SC1, Part 2.” A copy of the manufacturers original release documentation should be included with the delivery when seller is a distributor. The original manufacturers AUK, CAA or MOD approval number is not required on their release documents, unless the manufacturer’s product is produced to a specific AUK specification.

**SPECIAL PROCESSING**

When an Airbus approved technique sheet (Reference ASI 5-05) is required for processing of a part, the technique sheet must be submitted to Vought Aircraft for review and approval prior to submittal to Airbus. Vought Aircraft will advise the supplier of approval and authorize submittal to Airbus. Upon receipt of Airbus approval, Supplier must submit a copy of their approval to Vought Aircraft for our records. Any changes to the technique sheet must be submitted to Vought Aircraft prior to submittal to Airbus for approval.

**“AS PLANNED” PART NUMBERS**

In the case that the part number on the Purchase Order differs from that shown on the engineering (Aside from part issue suffix), the change in identification indicates an “As Planned” or “Condition of Supply Information” applies. The condition of supply information will be noted in the Purchase order text or in Vought provided planning (referenced in the Purchase Order).

**SUPPLIERS PROVIDING KITS**

Supplier shall submit a Certificate of Conformance (C of C) form 8500-9, or equivalent, with each kit shipped. The C of C will contain the following statement:

“(Supplier) Certifies that the materials or supplies furnished on this Order have been manufactured, processed, inspected, and tested in accordance with the engineering drawing, specifications, and instructions thereto. Supporting data for manufacturing, processing, inspection, and testing is on file at this facility and is available for Vought Aircraft upon request. I further certify that the supplies or services are of the quality specified and conform in all respects with the contract requirements, including specifications, drawings, preservation, packaging, packing, marking requirements, and physical item identification (part number) and are in the quantity shown on this document. The Quality Management Systems meet the requirements of AUK/SA/002-1, -2, OR -3 OR BAE/AG/QC/SC1 part 1, 2, or 3 (As Applicable to our Airbus UK approval) The Quality management System meets the requirements of _____________.”
ANY DEVIATIONS ASSOCIATED WITH ANY PART IN THIS KIT ARE TO BE INDIVIDUALLY LISTED ON THE C OF C ALONG WITH THE REPRESENTATIVE PART NUMBERS AFFECTED.

MEASUREMENT & INSPECTION

Airbus UK articles procured under Vought Aircraft Purchase Orders shall be inspected utilizing inspection equipment manufactured and designed to measure in the same measurement system defined by the engineering drawing. The use of conversion factors cannot be used as an alternative.

2.27 SPECIFIC REQUIREMENTS - AIRBUS GERMANY (DA)

For Airbus Germany related procurements, where applicable, parts shall be manufactured and certified in accordance with the German specifications called out or the latest approved alternative, Permit for Alternative (PFA).

MEASUREMENT & INSPECTION

Airbus Germany articles procured under Vought Aircraft Purchase Orders shall be inspected utilizing inspection equipment manufactured and designed to measure in the same measurement system defined by the engineering drawing. The use of conversion factors cannot be used as an alternative.

APPROVAL OF SUBCONTRACTORS

Seller shall not change subcontractors on Deutsche Airbus Technology parts (Billets, Castings, Composite Materials or Parts, or Forgings) without Deutsche Airbus approval and re-qualification testing. Seller shall promptly notify buyer’s purchasing representative of any planned change in subcontractors and shall not make any such change without prior written approval of buyer’s Quality Assurance organization.

2.28 SPECIFIC REQUIREMENTS – CH-60 PROGRAM (SIKORSKY)

The requirements of Sikorsky Aircraft document ASQR-01 is applicable in its entirety.
The latest revision posted by Sikorsky at the time of Purchase Order acceptance will apply. The document is available at the following URL:

http://suppliers.utc.com/sqd/ASQR/index.htm

2.29 SPECIFIC REQUIREMENTS – 787 PROGRAM (BOEING)

In addition to the Quality System requirements identified in Table 1, the following additional requirements apply to all Purchase Orders with the project code “IO”, “QG” and/or “IN” (ref. Table 2 for project code descriptions).

During initial program test phase and/or product/process development phase, where conflict exists between Test Program Requirements and SQAR; Test Program and/or product/process development phase requirements shall govern (i.e., FPCM direction).

All test phase shipments (PDT prefix), nonP3, and P3 exclusions, shall require Vought Aircraft Source Inspection prior to shipment.

ETM’s and Suppliers to Vought Aircraft shall be capable of CATIA 5 data transfer and conversant in GD&T dimensional tolerancing. Unless contractually stated otherwise, the ETM’s and Suppliers to Vought Aircraft shall be responsible for creating the necessary tools and media for manufacturing and inspection from the data transferred engineering model.

Suppliers shall acceptance stamp each part or assembly adjacent to the part marking.

Note: Vought’s SQR-004 (Supplier Quality Requirements - Control and Use of Digital Datasets) document meets the intent of Boeing’s D6-51991 document.

2.30 SPECIFIC REQUIREMENTS – CESSNA PROGRAMS

Suppliers are required to use Cessna approved processors for the processes requiring Cessna approval. The list of processes requiring approval can be found at www.supplier cessna.com

Suppliers must be aware that certain Cessna raw material specifications have a qualified parts list. Material procured to these specifications must be procured from approved sources.

First Article Inspection (FAI) data shall be entered into Net-inspect. Reference paragraph
2.8 of this document for further FAI instructions.

The Columbus program has FAA certification requirements. All parts/assemblies shall be accompanied with FAA form 8130-9. This form is to be provided with all part/assembly deliveries until the Columbus gains a Production Certificate. Additionally, Vought may choose to perform FAA Conformity inspections at the supplier’s facility during the certification phase of the Columbus program. The form can be found at: http://forms.faa.gov/forms/faa8130-9.pdf

Suppliers with delegation programs for procured product must meet the requirements of AS9015, Supplier Self Verification Process Delegation Programs. This standard must be flowed down to all levels of the supply chain.

3.0 GENERAL INFORMATION

3.1 PURCHASE ORDER TERMS AND CONDITIONS

Vought’s “Contract Terms and Conditions” information which describe Vought’s purchase order “boilerplate” requirements are available on Vought’s Internet home page at: http://www.voughtaircraft.com/suppliers/. Under the “Contracts” tab.

3.2 INTERNET ACCESS

Vought has established a supplier Web page on the Internet to provide suppliers a quick on-line link to this SQAR document. Vought’s web site can be accessed at: http://www.voughtaircraft.com/suppliers/quality/qualitysqar.htm.

Click on the appropriate revision of SQAR as invoked by Supplier’s purchase order via the “I871” clause. Suppliers do not need a password to access the SQAR document; however, a password is required to access certain “Technical Data.”

Note: Contact Vought procurement for access.

In addition to SQAR, the supplier web page has links to other information resources. It provides quick access to Purchase Order Terms & Conditions, Standard Notes, APOR (Automated Purchase Order Reschedule), Process Specifications, and Approved Supplier Sources for Process Specifications (including those requiring Customer approval).

3.3 PROCESS VARIABILITY REDUCTION

Vought encourages Suppliers to institute programs that will continuously improve processes and eliminate/minimize special causes of variation throughout their
facility.
Appendix 1

Quality Program Plan Matrix

This matrix will form a cross-reference between the line items of SQAR, and the supplier's procedures. If a given line item is not applicable for the products intended to be supplied, then it shall be so stated in the matrix.

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QA Mgr. Name __________________________________________________________

Signature ____________________ Date ___________________