

**APPENDIX "A"**  
**QUALITY REQUIREMENTS**

**NOTICE TO SUPPLIERS**

Appendix "A", when referenced on the face of the Purchase Order, is an integral part of the Order. Failure by the supplier to conform to all Appendix "A" requirements listed on the Purchase Order shall be cause for rejection and return of articles at the Supplier's risk and expense.

Certification submitted by the Supplier must be in duplicate, bear the signature of the authorized agent, and be legible and reproducible (preferably black and white).

As an AS9100 requirement the Mandatory Minimum Quality Codes are identified with an asterisk \* and should be on all Purchase Orders for PRODUCTION HARDWARE. E.g., **1\*, 4\*, 6\*, 12\*, 23\*, 29\*, 36\*, 97\*, 98\*, 99\***

**NO QUALITY REQUIREMENTS SPECIFIED**

000 There are no quality requirements specified by KETEMA. Material and / or services provided, shall meet the supplier's standard level of quality, and any claims made by the supplier in publish product descriptions or applicable quotation to KETEMA.

**QUALITY SYSTEMS**

1\* The supplier shall provide, document, and maintain a Quality Assurance Program that complies with the requirements of the following codes, Standards or Specifications, selected for this subcontract or purchase order, and shall be subject to review, conditional approval and audit by KETEMA supply chain management.

- |                              |                     |                  |                   |
|------------------------------|---------------------|------------------|-------------------|
| (A) <u>AS9145</u>            | (D) Inactive        | (G) S1000        | (J) Inactive      |
| (B) <u>AS13100 Chapter A</u> | (E) Inactive        | (H) ISO9001:2015 | (K) AS9100        |
| (C) <u>AS13100 Chapter B</u> | (F) Other (Specify) | (I) Inactive     | (L) ISO/IEC 17025 |

2 The Supplier shall maintain an Inspection System in compliance with or meeting the intent of the following publications, standards and specifications selected for this subcontract or purchase order. This system shall provide for early detection, documentation, and timely correction of any conditions considered adverse to Product Quality.

- |                        |                                      |
|------------------------|--------------------------------------|
| (A) Delete             | (D) NAVSHIPS 7-71 (Standard Form 32) |
| (B) NAS NHB5300.4 (2D) | (E) Other (Specify)                  |
| (C) Inactive           |                                      |

3 Inactive

4\* The material supplier shall maintain an Identification and Verification Program to provide traceability of material while under its control.

- (A) Each heat lot shall be separated and identified prior to delivery to Ketema for traceability purposes.

**APPROVED SOURCES**

5 Inactive

6\* All material furnished, or processing performed by a sub-tier supplier under this order must be by a source approved by KETEMA. Contact KETEMA prior to placing sub-tier order. Supplier shall pass on to its sub-tier supplier(s) the applicable requirements of this Purchase Order.

7 Inactive, superseded by Note 6.

8 Inactive

9 Inactive

**APPROVED MATERIALS**

10 Inactive

11 All material supplied under this purchase order shall be in accordance with the latest military specification revision.

12\* Certificates received by KETEMA must be in English and of microfilm or photographically reproducible quality. Supplier must keep all records applicable to this order. Retention time is per end use customer requirements. If there are not retention requirements specified by the end use customer, records shall be retained for a minimum of 10 years. Supplier must obtain Ketema approval prior to destruction of records. If end use customer has not been specified on this order, contact Ketema.

13 Supplier shall submit the original Certified Material Test Report ("CMTR") from the test lab. The CMTR shall provide mill identity and mill tests and analyses of material.

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- 14 Supplier shall provide the original Certified Chemical and / or Physical Test Report(s) from the test lab, per applicable specifications. The report shall reflect the mill source of material.
- (A) Chemical
  - (B) Physical
  - (C) Inactive
  - (D) Material must be fabricated by an approved source and must be tested by an approved testing house.
  - (E) Material not fabricated by a customer approved source must be subjected to testing by a customer approved testing house.
- 15 Inactive
- 16 Supplier shall submit a certification that includes cure or manufacturing date for material whose acceptability is limited by age. Both the cure date and the shelf life shall be listed on the container and on the document certifying the material. KETEMA will not accept material that has less than 75% of its shelf life remaining upon receipt.
- 17
- (A) Supplier shall provide certifications as to the country of origin of the materials provided.
  - (B) The supplier shall submit with each shipment a certification that any bearing, bearing assembly or any component part thereof, except the raw material (such as bar or rod stock and lubricants) or bearing contained in any item of this order, has been manufactured in the United States or Canada or by an "other authorized manufacturer" as defined in DOD FAR Supplement 52.208-7006.
  - (C) Inactive
- 18 Supplier shall certify that all articles furnished against this order do not contain, nor have they been contaminated with metallic mercury or mercury compounds; nor do they include any mercury-containing devices employing only a single boundary of containment.
- 19 Inactive
- 20 Inactive
- 21
- (A) Supplier shall submit a list of all actual dimensions as machined or manufactured as required by the P.O., O.I.S. or drawing; the list shall reference the drawing by number and revision.
  - (B) Inactive
  - (C) Inactive
  - (D) Statistical Control Plan to provide:
    - (a) Process variance reduction
    - (b) Process limits (statistical control limits)
    - (c) Special and common cause identification
    - (d) Cpk maintain at 1.3 or greater
  - (E) When Feature is designated with CCF or KCP or KCP1 or KCP2 on the drawing and/or Purchase Order, then process capability studies are required per Feature.
    - i) Gage R&R on the measuring instrument that is used to inspect CCF or KPC or KPC1 or KPC2 Characteristics
      - a) % of Gage R&R = 10% then process is acceptable
      - b) 10% < % of Gage R&R = 20% process is barely acceptable
      - c) % of Gage R&R > 20% Process is not acceptable. Corrective Action is required to improve the process.
    - ii) Control plan is required
    - iii) PFMEA (Process Failure Mode Analysis) is required.
    - iv) Flow chart of the process is required
    - v) 100% inspection report is required by each serial number as manufactured during operation for CCF or KCP or KPC1 or KPC2 to perform Process Capability.
  - (F) Supplier shall use Pratt & Whitney Canada Control Plan and Gage R&R Form. (Available upon request from Senior Aerospace Ketema)

**MATERIAL IDENTIFICATION**

- 22 Inactive
- 23\*
- All materials supplied under this purchase order must be identified with:
- (A) Heat / Lot / Batch / Serial Number / Work Order Number information for material and any subsequent Manufacturing Lot Number, e.g., if any additional processing or manufacturing has been performed, including modifying the original physical properties as defined on the mill certification.
  - (B) Specification
  - (C) Grade
  - (D) Slab Number
  - (E) Billet Number

- (F) Alloy and Temper
- (G) Mill Marking including Material Type

24 Inactive

25 Each individual length of weld rod must be "Flag-Tagged" on both ends with material type.

26 Each part shall be marked with a serial number; certifications accompanying parts shall reflect the applicable (same) serial numbers. Marking method shall be as follows:

- |                          |  |
|--------------------------|--|
| (A) Rubber stamp / ink   | (F) Steel tag with wire attachment     |
| (B) Inactive             | (G) Paper tag or "bag and tag"         |
| (C) Electrochemical etch | (H) Supplier's standard method         |
| (D) Steel stamp          | (I) Vibropeen per drawing requirements |
| (E) Inactive             |  |

27 Parts may be identified on package or container

28 The manufacturer of all printed wiring boards supplied to KETEMA shall mark the board(s) in a permanent manner with the Manufacturer's name and 4-digit date code. The date code shall provide the date of manufacture, with the first two digits representing the week of the calendar year, and the last two digits representing the year. Marking shall be applied so as to minimize contact with printed wiring. (Electronics)

29\* KETEMA reserves the right to inspect any or all of the materials included in this order at the supplier's plant. The same right is extended to its customer and the applicable regulatory agency representatives. This includes "right of entry" to the suppliers or suppliers sub-tier facility.

30 This order is subject to KETEMA source inspection. KETEMA must be notified forty-eight (48) hours in advance of the time the articles or processes are ready for inspection or test.

31 The Government and the Customer reserves the right to inspect any or all of the materials included in this order at the supplier's plant. See General Terms and Conditions.

32 Government inspection is required prior to shipment from your plant. Upon receipt of this order promptly notify and furnish a copy to the Government representative normally servicing your plant so that Government inspection can be appropriately planned. If a Government representative does not service your plant, contact the appropriate Government Inspection office in your area. If you cannot locate the Government Inspection office, our purchasing agent should be notified immediately.

33 Inactive

**TOOLING / FIRST ARTICLE INSPECTION**

34 Acceptance of production tooling on this purchase order shall be contingent upon inspection and acceptance by KETEMA. The tooling and dimensional samples produced by this tooling must conform to the tolerance limits of engineering drawings and specifications stated on this purchase order, must be AS9100 or AS9103.

**PREPRODUCTION FIRST ARTICLE INSPECTION**

35 First Article(s) must be inspected and accepted by KETEMA prior to a production shipment unless specifically authorized by the buyer. First article(s) should be tagged or otherwise identified to show the tool used.

**DEVIATIONS / NONCONFORMANCE**

36\* Nonconforming product shall not be shipped to Ketema. Any departure from drawings, specifications, nonconformance or failure to meet other purchase order requirements, must be recorded on KETEMA Supplier Discrepancy Report (SAK-0087). Disposition of these departures must be documented and approved by KETEMA prior to shipment.

Note: If any nonconformance is found after shipment of the product, the supplier shall notify Ketema within 24 hours.

37 Inactive

**SPECIAL PROCESSES**

38 Supplier shall submit a written description of all Special Process performed. Approval by Purchaser is required prior to use.

39 Supplier shall submit a Certification of Heat Treatment, including items below, as / if specified.

- (A) Time/temperature chart for material (entire cycle)
- (B) Time/temperature chart for furnace
- (C) Sketch of thermocouple placement(s) with key to multi-point recording, if utilized.

- (D) A load thermocouple shall be used for all heat treatments. A minimum of one part per furnace load shall have the load thermocouple attached to the thickest portion. The time at temperature shall be based upon this thermocouple.
- 40 Supplier shall submit Welding Certification(s) per applicable specification(s) including items below, as / if specified:
  - (A) Procedure Qualification records
  - (B) Performance Qualification records
  - (C) Determination of ferrite content in deposited weld (Magna-Gage)
- 41 Supplier shall submit Nondestructive Testing (NDT) items as specified below:
 

|   |                                  |
|---|----------------------------------|
| (A) Radiographic Certification          | (F) Leak Test Certification      |
| (B) Magnetic Particle Certification     | (G) NDT Personnel Qualifications |
| (C) Penetrant Inspection Certification  | (H) X-Ray Film                   |
| (D) Ultrasonic Inspection Certification | (I) X-Ray Technique Sheets       |
| (E) Pressure Test Certification         |                                  |
- 42 Supplier shall submit a certification of Forming Process to applicable specification requirements.
- 43 Welding on material to facilitate a forming process is expressly prohibited without prior approval by KETEMA.
- 44 Supplier shall submit a Certification of Plating per applicable specification.
- 45 Supplier shall submit a Certification of Peening process per applicable specification(s).
- 46 Supplier shall submit a certification of the Special Process(es) as indicated below, per applicable specification(s):
 

|                                |                                   |
|--------------------------------|-----------------------------------|
| (A) Surface finish (roughness) | (D) Adhesive Bonding              |
| (B) Coatings                   | (E) Plastic/composite fabrication |
| (C) Treatments                 |                                   |
- 47 Supplier shall submit Certified Electrical Test Data with shipment.
- 48 Supplier is required to package item utilizing standard Anti-Static packaging methods.
- 49 Inactive

**SUPPLEMENTAL TESTING**

- 50 Supplier shall submit, along with shipment and certifications, test samples, as specified, representative of the processed part.
- 51 Inactive
- 52 Supplier shall subject representative sample(s) of material to impact testing. Specimens tested must be of the same heat or lot of material, and in the same condition as production item(s). Tests and reporting shall be in accordance with the requirements on the face of the Purchase Order. Supplier shall submit Certified Impact test results along with shipment and other certifications as / if applicable.

**CERTIFICATION OF CONFORMANCE**

- 53 Supplier shall submit, with each shipment of items covered by the order, a Certificate of Conformance ("C of C")  
 This certificate must list all of the drawings and/or specifications that formed the Purchase Order, as well as the amendment revision level of each document named.

This "C of C" must be dated, signed by authorized quality personnel, include the following statement (or an equivalent statement):

(Note: Supplier's pre-printed "C of C" may be acceptable if it includes all of the requirements of this clause.)

**(FOR SUPPLIERS OF MATERIALS, ONLY)**

- (A) Materials supplied conform in all respects to the requirements of the Purchase Order.

**(FOR SUPPLIERS PERFORMING A PROCESS, ONLY)**

- (B) Processes utilized in the performance of this order were performed in accordance with, and the results conform to, all of the requirements of the Purchase Order.

Supplier shall include a written statement on the C of C as follows: "Only materials furnished by KETEMA were used in the fabrication of items supplied on this order."

**(FOR SUPPLIER OF MATERIALS, WHICH ORDER INCLUDES PROCESSING THERETO)**

- (C) Materials supplied, and processes performed, conform in all respects to the requirements of the Purchase Order.

- (D) Certificate of Conformance must identify manufacturing source and the date of manufacture.
- (E) "C of C" must report the current Rolls Royce First Article Inspection Report (FAIR) approval date.
- (F) "C of C" must report the current Fixed Process Approval (FPA) number and approval date.
- (G) "C of C" must report the current approved Method of Manufacture, "MoM", number used and its revision level and date.
- (H) "C of C" must report part classification.
- (J) "C of C" must report the current data card number used and its revision.
- (K) Material supplied shall be guaranteed to meet NDT requirements as defined by the end use customer drawing.

**(FOR FASTENERS)**

- (L) For fasteners (i.e., nuts, bolts, and washers) the supplier shall include the original certification of conformance supplied by the fastener OEM (Original Equipment Manufacturer) as part of their Certification package.

- 54 Inactive
- 55 Inactive

**MANUFACTURING, INSPECTION AND TEST CONTROL**

- 56 (A) The Supplier shall submit to Ketema a product flowchart, which defines the operational sequence, initial acceptance and testing points, and process control points, with sufficient description to identify the system. The factory inspection and test plan must be submitted prior to fabrication on this order and is subject to approval by KETEMA.
- (B) The Supplier shall submit a Quality Inspection Plan which provides a complete list of drawing features and characteristics, as well as a description of how those items are to be verified, e.g., Caliper, O. D. Micrometer, Visual Reference Std., Coordinate Measuring machine, etc. (Characteristic Accountability).
- (C) Characteristic Accountability: The Quality Inspection plan must be approved prior to shipment of items by the Supplier. Accordingly, it should be submitted within thirty (30) days after receipt of order or two (2) weeks prior to completion of items, whichever is earlier.
- (D) Supplier shall submit to Ketema process instructions and any subsequent changes that provide a detailed step-by-step description of how to do each process performed by the supplier or its sub-tier suppliers. Each process instruction shall be assigned a unique control number and shall contain the following subsections: Scope, Materials, Equipment, Safety, Instructions, Certification and/or Qualification of Personnel (if applicable) and Quality Assurance.
- (E) Supplier process instructions and any changes shall be validated. Ketema shall determine if validation will be by documentation review or by demonstration. Validation by demonstration consists of reviewing the implementing instruction against the Process Specification and witnessing the actual processing of a production-like piece of hardware to the applicable implementing instruction. Process validation shall be performed by a Ketema Quality Assurance representative and, when applicable, the End Use Customer Quality Assurance representative. The supplier shall notify Ketema of the time and place for validation. Advance notification shall be in sufficient time to allow for planning.
- 57 Supplier shall inform the Purchaser of all manufacturing processes and procedures used to produce parts. Once these practices are established and approved, they shall not be changed without Ketema Processing Engineer and Quality Department approval.
  - (A) Upon notification by Ketema buyer that approval of supplier's processing documentation is granted, supplier shall consider all documents frozen. Any change to supplier processing and/or documentation must be submitted to Ketema and approved prior to incorporation. A change is defined as "any change, up to and / or including personnel, equipment, material, tooling, etc., subsequent to start of production." See specific customer requirements for further definition.
  - (B) Processes and Procedures considered frozen must be controlled by a Process or Procedure number, Revision and Date. The Process or Procedure must be listed on C of C submitted with each shipment.
  - (C) Must immediately notify the Ketema in writing, of any change to the manufacturing facilities that may affect the inspection, conformity, or airworthiness of its product or article.
- 58 Process and Procedure Sheets are required for source substantiation per General Electric specification P1TF17. Supplier shall submit Process and Procedure Sheets for each individual item under this Order. In the event that the processes are complex and/or questions arise as to adequate description of those activities, the Supplier is encouraged to contact KETEMA Quality Assurance, through the Buyer, for assistance
- 59 Inactive
- 60 Inactive
- 61 Inactive, superseded by Note 53
- 62 Other requirements: As noted in narrative form on the face of the Purchase Order.
- 63 Supplier must maintain a calibration system for measuring and test equipment that complies or meets the intent of the requirements of ANS/NC SLI 540-3 and / or ISO-10012-1. In addition, ISO/IEC 17025 must be applied when equipment for Material Testing is calibrated. Calibration sources shall be accredited by a member of the **ILAC** Mutual Recognition Agreement (MRA) or a national metrology institute of calibration service provider verified as competent by the AB or **ILAC**.

Calibration certificates must clearly state that the service, if applicable, was performed per ISO 10012, ANSI/NCSS Z540-3 and ISO/IEC 17025 (when applicable) using equipment traceable to N.I.S.T. and must list the actual temperature and humidity conditions under which calibration was performed. All accuracy requirements must meet the manufacturer's recommended standards.

- 64 Supplier of calibration services or supplies shall perform calibration of M&TE in accordance with ANSI/NCSS Z540-3, ISO 10012-1, and ISO/IEC 17025 as applicable.

Calibration certificates must clearly state that the service, if applicable, was performed per ISO 10012, ANSI/NCSS Z540-3 and ISO/IEC 17025 (when applicable) using equipment traceable to N.I.S.T. and must list the actual temperature and humidity conditions under which calibration was performed. All accuracy requirements must meet the manufacturer's recommended standards.

#### **PACKAGING/PROTECTION**

- 65 Sheet stock shall be protected by appropriate material interleaved between individual sheets and on top and bottom surfaces of material.
- 66 Supplier shall individually wrap or box items to prevent damage in transit.
- 67 Supplier shall package items for shipment so as to prevent metal- to-metal contact of machined surfaces. No staples shall be used in packaging or sealing of bags.
- 68 Protective devices accompany materials or items when shipped to supplier; Supplier shall maintain protection during processing and return all such items with return shipment.
- 69 Inactive

#### **CHARACTERISTIC ACCOUNTABILITY**

- 70 All supporting documentation must be furnished with shipment unless written permission is obtained from Buyer.
- (A) Completed copy of First Article router/process sheet. All operations and sub-tier supplier processes sheets must be included. The first article shall conform to AS9102.  
Data must include method of appraisal for all features.
  - (B) Completed characteristic accountability sheets as provided by Supplier or KETEMA. Supplier Characteristic sheets (alternate format) are acceptable provided all characteristics are clearly identified and have been accounted for on a similar format.
  - (C) Any Supplier Discrepancy Report (SDR's) referenced for nonconforming characteristics.
  - (D) Exhibits referenced on completed characteristics accountability sheets, e.g. raw material certifications, test reports, penetrant certifications, heat treat certifications, GT193 / Nadcap approvals, etc.
  - (E) 100% inspection required. Sampling plan (copy of supplier controlled/numbered document(s) that justify less than 100% inspection, i.e., sampling plan, periodic evaluation, SPC) used must be approved by Senior Aerospace Ketema.
  - (F) Planning/operation sheets for part marking operation.
- 71 No production sample inspection allowed. 100% inspection required unless given written approval to perform sampling inspection.

#### **MATERIAL OVERCHECK**

- 72 Material furnished under this order must have a material test report as required in Quality Code 14. Material furnished must conform to all specified requirements. Material furnished must conform to overcheck requirements contained in AS9100 Verification of Purchased Product Section. Seller must have evidence of verification plan on file and available upon request.
- (A) Material test report under this order must be generated from a certified GE S400 lab.
  - (B) Material furnished under this order must have an independent lab overcheck by a NADCAP certified lab.
  - (C) Material furnished under this order must have an independent overcheck by an approved Customer lab.
- 73 Material furnished is subject to braze-ability test requirements, per KETEMA procedures. KETEMA Receiving Department shall contact the M&P Lab to determine if the lot number has a braze-ability test on file. NOTE: If the lot number has not been tested, contact the Planner to issue a braze-ability test router.
- 74 Supplier or its sub-tier suppliers must be approved by Nadcap for special process being performed.
- 75 **General Electric Aircraft Engines**  
The articles included in this Purchase Order and C of C must state end use customer.  
All material furnished, or processing performed under this order must be by a source approved by General Electric (online). This also applies to all sub-tier suppliers. Certification of conformance must reflect GT-193 approval expiration.

A) Products and processes provided by the supplier must conform to the current revision of General Electric S-1002.

76 **Rolls Royce**

The articles included in this Purchase Order and C of C must state end use customer.

- (A) All material furnished, or processing performed under this order must be by a source who meets Rolls Royce SABRe source approval requirements for the material or process being supplied. This also applies to all sub-tier suppliers.
- (B) Rolls-Royce SABRe and or RRES 90000 quality requirements apply to this P.O. Review SABRe process documents. <https://suppliers.rolls-royce.com/GSPWeb/appmanager/gsp/guest>
- (C) The articles included in this Purchase Order are for Rolls-Royce end use.
- (D) NDT site and processes must be Nadcap approved
- (E) RRES90000 requirements apply to this purchase order.
- (F) FAIR package required per SABRe requirements and AS9102.
- (G) All documents must contain Part Number, Revision, Serial Number, Lot Number, PO Number, Rolls-Royce Corporations Supplier Code Number (if applicable), Process Specification Number (including Type, Class, Sensitivity, Method, and so on), Revision of Specification, Quantity and a Special note of Drawing and Purchase Order, as applied. Additionally , certificate shall contain the following information, when applicable:
  - i) The statement "This is a critical part"
  - ii) Fixed Process Number with the revision.
- (H) RRES90002 requirements apply to this order.
- (J) Supplier must have a Quality strategy Driving towards Zero Defects, supported by a vision and clear road map of how the strategy will be delivered to achieve continual improvement in Quality.

77 **Boeing Company**

The articles included in this Purchase Order and C of C must state end use customer.

All processing performed under this order must be by a source approved by Boeing Company per D1-4426. This also applies to all sub-tier suppliers. Suppliers and sub-tiers are responsible to verify approval status through Boeing website: <http://www.boeing.com/companyoffices/doingbiz/d14426/index.html>

78 **Pratt & Whitney**

The articles included in this Purchase Order and CofC must state end use customer.

- (A) All processes performed under this order must be by a source approved by Pratt & Whitney. Certification of conformance must reflect the P&W assigned 1 code. This also applies to all sub-tier suppliers.
- (B) The articles included in this Purchase order are for Pratt & Whitney end use
- (C) Pratt & Whitney Aerospace Supplier Quality Requirements (ASQR-01) Applies to this Purchase Order. ASQR-01 is available at [www2.pratt-whitney.com/procurement/tphome.htm](http://www2.pratt-whitney.com/procurement/tphome.htm).

79 Inactive, superseded by Note 87

80 Inactive, superseded by Note 78

81 **DELETED**

82 Inactive, superseded by Note 81

83 Inactive, superseded by Note 76

84 Inactive, superseded by Note 76

85 Inactive, superseded by Note 78

86 Inactive, superseded by Note 76

87 **United Launch Alliance**

- (A) Articles in this purchase order apply to ULA end customer use.  
All processing performed under this order must be by a source approved by United Launch Alliance, Ref. ULA Quality Code QC014. ULA Directory of Processors can be found at: <http://suppweb.ulalaunch.com/AppProcWeb/>
- (B) Government priority rating DX-A2 applies to this order.

88 Inactive

89 All products shipped internationally from the United States for Senior Aerospace Ketema, must comply with all laws requiring Heat Treated wood. Products placed on non-compliant skids or containers may be held up and incur transfer cost that will be billed back to the supplier if the shipment is to be found non-compliant by U.S. Customs.

90 DFARS 252.225-7009 applies to this order. Compliance options include:

1. A statement of "conformity per DFAR 252.225-7009" on the Certificate of Compliance or associated paperwork.
2. Certification to the Country of Melt
3. Copy of original mill certification to validate Country of Melt

- 91 This is a rated order certified for National Defense Use; supplier is required to follow all the provisions of the Defense Priorities and Allocation System Regulation (DPAS 15-CFR-700)
- 92 **SpaceX**  
Articles in this purchase order apply to SpaceX end customer use. All processing performed under this order must be by a source approved by SpaceX.
- 93 **DELETED**
- 94 Supplier will adhere to the directions provided in executive order (EO) 13224, Executive order on terrorist financing - blocking property and prohibiting transactions with persons who commit, threaten to commit, or support terrorism, effective 09/24/2001 and any subsequent changes made to it. Supplier further agrees to include this requirement in lower-tier Purchase orders or subcontracts hereunder. To view the contents of the EO, please access the following website:  
<http://www.state.gov/j/ct/rls/other/des/122570.htm>
- 95 **Pratt & Whitney Canada**  
Articles in this order apply to Pratt & Whitney Canada end customer use.  
(A) Suppliers must be approved by Pratt & Whitney Canada. Contact Senior Aerospace for listing of approved sources.  
(B) All documents must contain Part Number, Revision, Serial Number, Lot Number, PO Number, Pratt & Whitney Canada Supplier Code Number, Process Specification Number (including Type, Class, Sensitivity, Method and so on...), Revision of specification, Quantity and a Special note of Drawing and Purchase Order as applied)
- 96 Supplier shall comply with the most current export control and sanction laws, regulations, and orders applicable at the time of export, re-export, transfer, disclosure or provision of Goods, Software, Technology or Services, including, without limitation, the:  
i) Export Administration Regulations ("EAR") administered by the Bureau of Industry and Security, U.S. Department of Commerce, 15 CFR. parts 730-774; International Traffic in Arms Regulations ("ITAR") administered by the Directorate of Defense Trade Controls, U.S. Department of State, 22 CFR parts 120-130;  
ii) Foreign Assets Control Regulations and associated Executive Orders administered by the Office of Foreign Assets Control, U.S. Department of the Treasury, 31 CFR parts 500-598; and (iv) laws and regulations of other countries (collectively, "Export Control Laws")
- 97\* Supplier shall have a formal Counterfeit Prevention program in accordance with AS5553, AS6174, AS9120 and AS9100 guidelines and ensure products supplied are not counterfeit parts.
- 98\* Supplier shall ensure that their employees are aware of their contribution to product or service conformity and their contribution to product safety and the importance of ethical behavior.
- 99\* Supplier shall establish and maintain an effective FOD prevention program that meets the requirements of AS9146.

**Supplier End User Links:**

United Launch Alliance  
<http://www.ulalaunch.com/suppliers.aspx>

General Electric Aviation  
<https://www.supplychainwebcenter.com>

Rolls Royce  
<https://suppliers.rolls-royce.com>

SpaceX  
<http://www.spacex.com/legal>

Boeing  
<http://active.boeing.com/doingbiz/d14426/GetAllProcessors.cfm>

Pratt & Whitney  
<https://portal.pw.utc.com>

**APPENDIX "A" - QUALITY REQUIREMENTS (Continued)**

| Revision  | Quality Clauses   | Description of Revision   | Date                     |
|---|---|---|--------------------------|
| Details of previous revisions are available in Document Control Archives. |   |   |                          |
| AJ  | Addendum 1  | <b>Administrative Change: Added Addendum 1</b>  | 6/26/14<br>M. Murphy     |
| AK  | 12 & 53<br><br>21, 53, 75, 76, 87<br>91 thru 96<br>Pg 8<br>Addendum 1 | Moved retention note from 53 to 12 and revised to meet customer requirements.<br>Revised to add additional customer/government requirements<br>Added additional customer/government requirements.<br>Added Honeywell, Hamilton Sundstrand, SpaceX to end users<br>Removed Addendum 1 (incorporated throughout SAK-0011) | M. Murphy<br>10/21/14    |
|   | 56E   | <b>Administrative Change:</b><br>Changed Lockheed Martin to The End Use Customer  | T. Robichaux<br>12/16/15 |
|   | 79, 80, 83, 84, 86  | <b>Administrative Change:</b><br>Added supersession notes.  | M. Murphy<br>1/4/16      |
|   | 2<br>76 g)  | <b>Administrative Change:</b><br>Delete 2 a)<br>Added if applicable   | T. Robichaux<br>11/29/16 |
|   | 21F, 95A & 95B  | <b>Administrative Change:</b><br>Changed reference from Hamilton Sundstrand to Pratt & Whitney Canada<br>Removed Hamilton Sundstrand Supplier End User link   | K. Boyd<br>4/5/2017      |
| AL  | ALL   | Re-write to AS9100 Rev. D incorporation.<br>Identified mandatory flow down quality code requirements as noted with an *   | Len L.<br>7/18/18        |
| AM  | Pg 1<br>23A<br>90   | Added "AS9100<br>Revised 23A to include S/N or WO#,<br>Added DFARS compliance notes   | L. Locken<br>4/11/19     |
| AM  | Pg 1  | Administrative change. Added "PRODUCTION HARDWARE" to clarify mandatory q-codes customer end use P.O. Ref. DRA6169  | L. Locken<br>1/27/2020   |
| AN  | 1, 76, 99   | Changed 1A, 1B, 1C from "Inactive" to:<br>1A) AS9145<br>1B) AS13100 Chapter A<br>1C) AS13100 Chapter B<br>Add 76J, 99   | B. Barrow<br>3/9/2023    |
| AN  | ALL   | Administrative change to add 99 to header on page 1   | M. Murphy<br>9/11/2023   |
| AP  | 1   | 1H - ISO 9001:9002 changed to ISO 9001:2015   | S.D.02/07/2025           |

**NOTIFY IT OF ANY REVISION CHANGES**