



PURCHASING "QUALITY NOTES"

July 31, 2007
Revision: NC

"Q" Note No.

"Q" Note Description

0001 †

Documented approval scopes issued by VerTechs Enterprises, Inc. Quality are adhered to at all times. When issued, the supplier shall maintain these documents for reference when servicing VerTechs Enterprises, Inc. purchase orders or providing tender in response to requests for quote.

Supplier's facilities, contracted products, procedures and records shall be made available to VerTechs Enterprises, Inc. to verify compliance to purchase order requirements. A representative, familiar with the suppliers operations and systems, shall be provided to assist VerTechs Enterprises, Inc. in conducting surveillance activities. Access shall also be extended to VerTechs Enterprises, Inc. customers and/or regulatory agencies as applicable.

Suppliers shall maintain an effective Quality Operating System that provides for control and identification of material throughout the processing cycles, detection of non-conformance, timely corrective action and disciplines required to produce material that is representative of good workmanship. The Quality Operating System shall be documented by the supplier's quality manual, describing the sub-systems utilized to fulfill these system requirements, including exhibits of various forms, tags and other control documents. Suppliers shall maintain records essential to the effective operation of the Quality Operating System. The Quality Operating System and revisions are subject to VerTechs Enterprises, Inc. review and approval/disapproval depending on the results.

No substitution of material specification, size or any other nature will be allowed except by amendment on the purchase order. All materials shall be those furnished or specified by VerTechs Enterprises, Inc.

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The supplier must maintain a system to document nonconformance, investigate and determine root cause, initiate corrective action and follow-up in order to eliminate causes of nonconformance. Any nonconformance to the purchase order or drawing requirements must be documented on a formal Nonconformance Material Report form. Disposition of nonconformance must have formal approval by the VerTechs Enterprises, Inc. Quality Department and/or the Manufacturing Corrective Action Board, (MCAB). When formal corrective action is required it shall be submitted on VerTechs Enterprises, Inc. Form No.: P-85-02.1 #1, Corrective and Preventive Action. The supplier is liable for any discrepant material received by AeroVision and will be held responsible for replacement free of charges, complete refund, or if repairable to be performed by the supplier at no cost to VerTechs Enterprises, Inc.

The suppliers shall maintain a Quality Operating System in compliance with the requirements of ISO 9001:2000 quality standard. Suppliers shall maintain surveillance of their raw material and process sources. Supplier's sub-tier purchase document shall contain all necessary flow down data such as (quality requirements, approval requirements, drawings, specifications, etc.) to fulfill the applicable VerTechs Enterprises, Inc. requirements and VerTechs Enterprises, Inc. customer requirements. Suppliers are responsible for the quality of purchased materials and services and shall develop plans to assure they are appraised to the extent required. Suppliers may be required by VerTechs Enterprises, Inc. to schedule auditing of their sources of raw material and services to detect possible unauthorized changes to systems, methods, or processes that could affect product quality. Audits may take the form of on-site evaluations; process reviews, documentation review or a combination of these techniques to verify the source is in compliance to VerTechs Enterprises, Inc. purchase order. Audit plans are subject to VerTechs Enterprises, Inc. approval.

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- 0001 cont. Suppliers shall identify all products per drawing and/or purchase order requirements. In the event the hardware produced is an assembly / sub-assembly, part numbers and heat numbers of each component shall be documented. All hardware must be traceable back to its specific material heat number and/or its lot/batch number. Records of Traceability shall be maintained by the supplier as part of this objective evidence of quality control and acceptability.
- 0002~~+~~ The supplier shall maintain a Quality Operating System in compliance with the requirements of ISO 9001:2000.
- 0003 The supplier shall maintain a Quality Operating System in compliance with the requirements of General Electric specification S-1000
- 0004 The supplier shall maintain a Quality Operating System in compliance with the requirements of Pratt & Whitney specification ASQR-01. Articles contained within this purchase order are for Pratt & Whitney end use and must be controlled per applicable purchase order requirements.
- 0005 The supplier must maintain written approval from either Rolls Royce per RR9000: SABRe or VerTechs Enterprises, Inc. approval per VTEQS:9100 (specifically acknowledged, by specification title, in the written approval. Any purchased material or subcontracted services must also be from RR9000: SABRe or SQR: 9001 approved suppliers.
- To satisfy this requirement, copies of the approval letter(S) must be delivered with the first shipment or before. This also applies to any/all sub-tier contractors.
- This quality requirement may apply to raw material suppliers of non-MSRR materials used for the manufacturer of "non-classified" parts only for Rolls Royce. The material however must be fully tested prior to release. This quality requirement also applies to process/services not considered "sensitive" per Rolls-Royce specification / drawings.
- 0006 If software is involved in performance of work for VerTechs Enterprises, Inc., the supplier shall maintain software control procedures that comply with DOD-STD-2166 software quality program requirements.
- Software quality programs are required when digital configuration data is used during realization of the product. This applies to product configuration data, coordinate inspection data, and digital data developed to control automated processes (e.g. CNC machining).
- 0007 The supplier shall maintain a Quality Operating System in compliance with the requirements of VerTechs Enterprises, Inc. document SQR-9001.
- 0008 The supplier must be approved by the National Aerospace and Defense Contractors Accreditation Program (NADCAP) for the process being performed. Certification of conformance must reflect NADCAP approval expiration date.

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- 0009 The supplier shall maintain a Quality Operating System in compliance with the requirements of AS 9100.
- 0010 The seller shall not disclose (oral, visual, written or otherwise) or provide such drawings, specifications and other technical data or goods to any person(s) (including but not limited to sellers employees, sellers subcontractors, etc) or other firms or institutions without first obtaining authorization from VerTechs Enterprises, Inc.
- Some or all of the processes in the production of this item are considered proprietary processes or parts. These processes are proprietary and were developed by VerTechs Enterprises, Inc. and/or our customer.
- 0011 The supplier shall maintain a Quality Operating System in compliance with the requirements of Rolls-Royce corporation Supplier Quality Manual.
- 0012 Any purchased raw material or subcontracted services under this order must be from Rolls-Royce corporation external laboratories approved suppliers. Independent laboratory verification of raw material shall be in accordance with Rolls-Royce corporation supplier Quality Manual.
- 0013 Suppliers shall maintain current third party certification to ISO 9001:2000 Quality Management System.
- 0014 Supplier shall maintain current third party certification to AS9100 Aerospace Standard.
- 0015 All material supplied or processing performed under this purchase order must be by a source approved by General Electric.
- 0016 All material supplied or processing performed under this purchase order must be by a source approved by Pratt & Whitney.
- 0017 All material supplied or processing performed under this purchase order must be by a source approved by SNECMA.
- 0018 All material or processing performed under this purchase order must be by a source approved by Rolls-Royce per RR9000:SABRe. Any purchased material or subcontracted services must also be from RR9000:SABRe approved suppliers. To satisfy this requirement, copies of the approval letter(s) must be delivered to VerTechs Enterprises, Inc. Quality Manager prior to delivering the first shipment of goods. This also applies to any sub-contractors.

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- 0019 The supplier shall submit to VerTechs Enterprises, Inc., prior to production, a manufacturing plan, identified with a unique number and revision level detailing all materials, operations, processes and tooling required to produce the hard ware. Plan shall include any sub-tier's manufacturing plan. Manufacturing plan shall show evidence of quality review and shall include inspection steps necessary to ensure quality. Once submitted to VerTechs Enterprises, Inc., no changes in sequence or methods are permitted without written approval from VerTechs Enterprises, Inc.
- 0020 \neq The supplier shall maintain an effective system for tracking Material Safety Data Sheets (MSDS) for all products supplied to VerTechs Enterprises, Inc. An appropriate MSDS will be provided to VerTechs Enterprises with the first delivery of a purchase order, for all products required by 20 CFR 1910 to have MSDS.
- The supplier shall provide the MSDS information unless a written waiver has been received from VerTechs Enterprises, Inc. Failure to provide the required MSDS may result in a rejection of the material and subsequent return by our shipping and receiving and/or possible disqualification of your company as a supplier.
- 0021 Distributors shall meet the applicable requirements of SAE STD AS 7103, Level C – "Requirements For Accreditation of Pass Through Distributors" or AS 7104 – "Requirements For Accreditation of Full Distributors" and/or applicable portions of SAE STD AS 9000 – "Aerospace Basic Quality Operating System Standard".
- The distributor shall assure Traceability of all purchased products to the source of manufacture and their related acceptance documents. The actual source of all material shall be identified. The distributor shall not modify, rework, or repair material in-house or by subcontracting unless approval is obtained from the Purchaser or the work is performed by the actual manufacturing source of the material.
- 0022 \neq Documentation of raw material certifications (chemical and mechanical properties) and variable inspection (including laboratory testing) data are required for 100% of the items fabricated under this purchase order. The supplier shall keep these documents on file for 30 years from the delivery date. Copies of these certifications shall be sent to VerTechs Enterprises, Inc. with each shipment of material.
- 0023 Raw material procured in the fulfillment of the purchase order must include the original mill sources certified measured test report providing mill identity and mill chemical and mechanical properties defined by the specification and furnished to VerTechs Enterprises, Inc. for each heat lot number.
- 0024 An analysis from an independent laboratory not associated with the producer of the material shall confirm raw material certifications of chemical and mechanical properties. Testing shall be to the extent required to verify full compliance with the material specification. (e.g. AMS, DMD, acceptance stands / specifications) Obtain written approval from VerTechs for any laboratory planned for use.

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0025	The supplier shall provide sufficient material per heat lot for complete testing by VerTechs Enterprises, Inc. (chemical and mechanical properties testing). Materials supplied shall bear identification to distinguish it as the same heat lot number as the material supplied. This is required to support the testing requirements of the applicable specifications.	
0026	The supplier shall certify that only VerTechs Enterprises, Inc. furnished material was used in the fabrication of the product. The supplier's certification must list applicable heat/lot or serial numbers that apply. Certification must include a statement that the material has not been subjected to any processes which may have chemically or metallurgically altered the material, except as allowed by purchase order, specification or drawing.	
0027	If the supplier is a PWA approved LCS supplier, reports shall include the statement "Material/parts have been controlled to P&W requirements for LCS per PWA MCL Manual Section F17 and PWA 300". Note: "Laboratories requesting testing from other approved laboratories must request certification to MCL Manual Section F-23".	
0028	A laboratory that has been approved to GE S-400 must perform any laboratory testing of material for General Electric. All certifications for laboratory testing must state; "GE S-400 Approved Lab"	
0029 ≠	If revision levels of any specification(s) relevant to this order are not specified, the latest revision(s) shall be applied and noted on all documents as required.	
0030	Supplier must include with its certification package, test reports provided from an independent "NADCAP" approved materials testing laboratory. A laboratory's NADCAP certification number and expiration date must be listed on the test report or copy of current NADCAP certification must be included in the package.	
0031	Documented inspection data (Inspection Report) is required for 100% of the items manufactured under this purchase order. Documents shall be kept on file at the supplier's facility and copies of this inspection data shall be forwarded with each shipment to VerTechs Enterprises, Inc.	
0032	This order is subjected to VerTechs Enterprises, Inc. source inspection. VerTechs Enterprises, Inc. quality department must be notified forty-eight (48) hours in advance of the time and articles or processes will be ready for inspection or testing.	

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- 0033 A First Article inspection shall be performed with variable data recorded for all drawing characteristics and referenced specifications. First Article parts or processes are to be approved by VerTechs Enterprises, Inc. prior to release for production. A copy of the First Article Inspection Report must accompany the first shipment and the packing slip must vividly indicate that this shipment is the "First Article". First Article requirements apply to all revisions affecting hardware configuration for 100% if the affected characteristics.
- 0034 A "Certification of Conformance" shall be submitted with each shipment of items covered by this purchase order. The "C of C" shall state that all material, processes, and dimensional requirements meet the applicable drawings, specifications, or operation sheets cited in the purchase order.
- The "C of C" must reflect the revision level of all drawings and/or specifications referenced by the purchase order. If work is performed per operation sheet requirements, only the applicable operation sheet and revision level is required to be listed. A responsible representative of the organization must sign the "C of C". (Quality Representative)
- When subcontract activity involves VerTechs Enterprises, Inc. furnished materials the supplier shall certify that only VerTechs Enterprises, Inc. furnished materials were used in the fabrication of the product. The supplier's certification of conformance must list applicable heat/lot or serial numbers.
- 0035 The suppliers shall submit certifications with procedure number(s) and revision levels, for thermal treatment and/or testing including items as specified in "Q" note 0036 as applicable. This would include any additional items added to the purchase order.
- 0036 Provide the following documentation with each part number delivered:
- A. Furnace Load Charts, (time & temp)
 - B. C of C stating:
 - 1) Braze Temperature
 - 2) Braze soak time
 - 3) Cool down temp/time
 - 4) Sketch of thermocouple placement
 - 5) Part number/PO number / operation revision level
- 0037 Supplier shall submit NDT test results (performed by a certified NDT facility) identified with acceptance requirements as specified in one or all of the following "Q" notes, 0038 and/or 0039 as applicable. This would include any additional items added to the purchase order.
- 0038 Penetrant Inspection certification.
- 0039 Leak testing certification.

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| 0040 † | <u>"Right of Entry"</u> Acceptance of this P.O. is considered authorization by the supplier as a right of entry by VerTechs Enterprises, Inc., our customers, and/or other regulatory agencies to any of your facilities to determine compliance to the purchase order and verify quality of product, records and materials. This also includes any sub-tier supplier's facilities. |
| 0041 | No quality notes apply to this purchase order. |
| 0042 | Documentation of raw material certifications (chemical composition and applicable properties) and variable inspection (including laboratory testing) data are required for 100% of the materials on this purchase order. The supplier shall keep these documents on file for 30 years from the delivery date. Copies of these certifications shall be sent to VerTechs Enterprises, Inc. with each shipment of material. (Braze Material) |
| 0043 | Raw Material (honeycomb foil) is to be spooled into tight coils with no overlapping material; no burrs, no tape or glue to be in contact with the raw material foil. These spools shall be of the type eliminating overlapping of the foil. (Pancake, Academy ID Core, Dispack, etc.) |
| 0044 † | "Testing performed in accordance with PWA-MCL Manual Section F-23". This statement must appear on all certifications of test performed for Pratt & Whitney. |