

QUALITY & PURCHASING CLAUSES

RWN Clause	Clause Name	Clause Text
Q1	SOURCE INSPECTION	Customer Quality Representative will perform product verification at the Supplier's facility, prior to each shipment. The supplier shall furnish reasonable access to relative contract, design and specification data, and necessary equipment and space to perform such inspection/test. Supplier will provide required certifications and dimensional data at the time the product is presented. Customer reserves the right to waive source inspection at any time. However, such a waiver shall have no effect whatsoever on the Suppliers' requirements to fully comply with the specifications and all other terms and conditions of the Contract/Purchase Order. The supplier shall notify Rock West Composites, Inc. dba Performance Plastics (RWN) Quality at least 48 hours in advance of source inspection for scheduling. Evidence of RWN Source Inspection shall be indicated on the shipping documentation.
Q1A	GOV. SOURCE INSP.	For Government Source requirement shown on the face of the purchase order. 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.
Q2A	FIRST ARTICLE INSP. (BFAI)	<p>Seller shall perform First Article Inspections (FAI) in accordance with AS/EN/SJAC 9102, Aerospace First Article Inspection Requirement.</p> <p>Seller shall notify Boeing's supplier quality representative for the coordination and planning of the BFAI, prior to start of related procurement, manufacturing, and/or processing. BFAI may include in-process inspections to be accomplished during performance of FAI.</p> <p>At a minimum, Seller shall make available the following in support of the BFAI:</p> <ol style="list-style-type: none"> 1. Applicable purchase document, material/process certifications, manufacturing and inspection records; including inspection plans developed to identify progressive inspection checkpoints for the FAI as a result of coordination and planning with Boeing's supplier quality representative. 2. Applicable design data 3. Applicable documented configuration baseline and configuration summary 4. Applicable material review actions 5. Applicable acceptance and qualification test results 6. Applicable record(s) of Boeing approval for non-Boeing drawing and test procedures

		<p>7. Seller's First Article Inspection Report (FAIR), as defined by AS9102.</p> <p>Seller shall maintain a copy of the closed BFAI record along with Seller's FAIR documentation.</p>
Q3A	FIRST ARTICLE INSPECTION (FAI)	<p>Seller shall perform First Article Inspection (FAI) in accordance with AS9102, Aerospace First Article Inspection Requirement prior to product acceptance and shipment to Customer / RWN. A copy of the First Article Inspection report shall be submitted to Customer / RWN as part of the shipping documentation.</p> <p><u>Rock West Composites, Inc. dba Performance Plastics, FAIR approval does not relieve the supplier of the responsibility and/or liability for full compliance with all contract requirements.</u></p> <p>Discrepant hardware either returned to the manufacturing supplier or sent to an alternate supplier and disposition is rework or repair. Nonfunctional hardware (protective covers, shipping hardware, etc.), unless otherwise specified. Off the shelf sheet stock/items.</p> <p>FAIR packages shall be retained by the supplier for ten years. Rock West Composites, Inc. dba Performance Plastics, reserves the right to request the FAI package at any time.</p> <p>The purpose of Supplier's FAI is to ensure that all design features of a deliverable product and its subcomponents meet all applicable levels of design drawing, material and process specification requirements. In order to ensure clear definition, Vought's FAI requirements are delineated in SQR-011 Supplier Quality Requirements for First Article Inspection. All RWN suppliers will be assessed to SQR-011.</p> <p>Supply Chain shall mean Seller's direct network of suppliers providing material, equipment, information, and services integrated into products and services. Furthermore, where Seller is required to document FAIs in the Net-Inspect software, FAIs of the Seller's supply chain shall also be documented in Net-Inspect.</p>
Q3B	FIRST ARTICLE INSP. DELIVERABLE	<p>FAI is required for unique single run production orders not intended for on-going production, regardless of exclusion in AS9102 (section 1.3 Applicability).</p> <p>Buyer reserves the right to conduct surveillance of the Seller's FAI, referred to as Boeing First Article Inspection (BFAI). BFAI may include in-process inspections to be accomplished during performance of the Seller's FAI. When a BFAI is required, Seller will be notified via the Supplier Quality supplier data system. Seller shall coordinate and schedule BFAI activity with the Buyer's Supplier Quality Representative (SQR) prior to start of related procurement, manufacturing, and/or processing.</p> <p>Seller will deliver with the initial shipment of the FAI item a copy of the First Article Inspection Report (FAIR).</p>

		When a partial or re-accomplished FAI is performed as required by AS9102, Seller will deliver a copy of the FAIR with the shipment of the FAI item.
Q3C	FIRST ARTICLE –AS REQUIRED	<p>The supplier shall perform an initial FAI. After the initial FAI is performed, supplier resubmittals are only required if there has been a lapse in production for more than 12 months. The supplier shall perform a full FAI or partial FAI for affected characteristics, when any of the events outlined under the “Partial or Re-accomplishment of First Article Inspection” Section of AS9102 applies. If the supplier has not had a lapse in production that exceeds 12 months and there have not been any changes to the manufacturing process/product design or any other items noted in AS9102, the supplier must state on a certification that:</p> <ol style="list-style-type: none"> 1. This product has not seen any lapse in production that exceeded 12 months. 2. There have been no changes to the manufacturing process or product design or any other items as noted in AS9102 since the first article was performed. <p>For Pacific Scientific Only: (VIR) Form #2030. The VIR must have concurrence from PSEMC Quality Assurance Material Review Board prior to shipment. Nonconforming material shall be identified by the Vendor Information Form #2030 with shipping documents and must include evidence of PSEMC’s concurrence. Disposition of non-conformances to drawings or specifications shall not be considered as precedence for additional or future dispositions</p>
Q4	CHANGES TO SUPPLIER INFO.	A change in suppliers name, ownership or facility location will subject the supplier’s Quality System to reevaluation by RWN, the supplier shall notify RWN of any of these changes in writing and forward a copy of their updated registration to RWN, RWN will inform suppliers on notification actions and specific forms to submit as necessary
Q5	DIMENSIONAL INSP. CHECK SHEET	<p>Fabricated Details/Assemblies will be progressively verified and documented on a First Article Inspection Form. This form will be the Check Sheet that reflects acceptance to applicable Engineering Drawing and Specification requirements.</p> <p>100% inspection is required to be performed unless otherwise approved by customer.</p>
Q6A	CERTIFICATE OF CONFORMANCE (C OF C)	Each shipment shall be accompanied by one legible copy of a signed and dated Supplier Certificate of Conformance certifying that all requirements of the purchase order, drawing, and specifications have been complied with. The certificate shall identify the part number (with revision and dash number), quantity and the RWN purchase order. The Seller shall maintain supporting documentation at his facility that shall be made available to RWN, for review, upon request.

Q6B	CUSTOMER CERTIFICATE OF CONFORMANCE	Each shipment shall be accompanied by one legible copy of a signed and dated Customer Certificate of Conformance, completed per customer requirements, certifying that all requirements of the purchase order, drawing, and specifications have been complied with. The certificate shall identify the part number (with revision and dash number), quantity and the Customer purchase order. RWN shall maintain supporting documentation that shall be made available to Customer, for review, upon request.
Q6C	DISTRIBUTORS C OF C	<p>The Distributor (a Seller other than the Manufacturer) shall certify that the articles delivered under this Procurement Document conform to the applicable requirements of Buyer's or Manufacturer's specifications for the article ordered. If seller is not a manufacturer (or service provider), in addition to the seller's C of C, the following shall also be included:</p> <p>The Distributor certification of conformance shall include the following information:</p> <ol style="list-style-type: none"> 1. The origin of manufacture 2. Part number 3. Applicable traceability information (date lot code, etc.) 4. Results of testing or special inspection, as required. 5. Dated signature of authorized Seller Representative 6. Items identified by Buyer number shall have complete information as to the original manufacturer and original manufacturer's part number <p>The Distributor shall maintain and provide evidence of material authenticity (chain of custody) back to the OCM/ OEM/ AAM shall be provided. The Certification shall clearly identify the name and location of all of the supply chain intermediaries from the original manufacturer to the final source of the product delivered.</p>
Q7A	MATERIAL CERTIFICATION	Material certification shall include: name of manufacturer, Identity of material, manufacturing date, lot, batch, heat and/or serial number, customer specification, and authorizing signature. A copy of the material manufacturer's certification is required with shipment of material/hardware. Applicable test reports / material test data will be maintained by the supplier for minimum of ten years and shall be made available to RWN upon request.

Q7B	MATERIAL CERTIFICATION (CHEMICAL / PHYSICAL)	Material chemical/physical test reports shall include: name of manufacturer, Identity of material, manufacturing date, lot, batch, heat and/or serial number and authorizing signature. The report shall show quantitative test results that indicate the percentage of each element that makes up the chemical composition and the physical properties of the raw material and compliance to the applicable specification. Any outsourcing by the supplier shall accompany a flow down of RWN requirements. A validated copy of the test report(s) shall accompany each shipment with product.
Q7C	SHIPMENT OF MATERIAL / PROCESS CERTIFICATION	Material / Process certification(s) are required to be shipped to Customer with parts. A certificate of conformance and / or equivalent process certificate, signed by an authorized agent of the processor/ seller shall be included with shipping documentation (packing slip, invoice). The certificate shall include purchase contract number, part number (s), trace number (as applicable), process specification number w/revision, processing date (s) and name and address of the processor (s) performing each of the D1-4426 processors.
Q8	PROCESS CERTIFICATION	A certification shall be submitted with each shipment for all processes, such as NDT, heat treating, welding, magnetic particle inspection, penetrant inspection, radiographic inspection, plating, anodizing, chem-film application, etc. The certificate shall show the RWN purchase order number, the name of the process, the applicable specification number, the name of the agency that performed the process, Inspection stamp and quantity processed.
Q9	FABRICATION PLANNING	Supplier is required to submit their completed fabrication planning.
Q10	DELEGATION OF INSPECTION AUTHORITY	Seller is delegated inspection authority for goods procured by Buyer under this contract only. Buyer may revoke delegation at any time by written notice or change order. Seller shall have a documented process defining requirements for performing delegated inspection of goods procured by Buyer. Seller's process is subject to Buyer assessment. Prior to shipment; in addition to requirements defined within Buyer's delegated inspection authority, Seller's authorized Inspector performing the delegated inspection shall apply their acceptance stamp and date to the packing sheet.

Q11	NOTIFICATION & CONTAINMENT OF NCP	<p>The requirements set forth below shall be flowed down by seller to sub-tier suppliers, with the modification that all sub-tier notification shall pass through seller (and not made direct from sub-tier to CUSTOMER). Seller shall notify the customer of all sub-tier escapes and design errors in accordance with respective communication process set forth herein.</p> <p>The notification shall include affected part numbers or process, traceability (lot, serial, and manufacturer numbers), ship dates, quantities, destination, suspect serial numbers or date codes, and a description of the nonconformance.</p> <p>The Supplier is not authorized to perform material review action of nonconforming material, with the intent of delivering such nonconforming materials, without the express written authorization from customer. Disposition of any departures from drawings specifications or other purchase order requirements must be approved by customer's product assurance.</p> <p>Seller performing MRB on Buyer's Government contracts shall promptly notify the Gov. Representative who normally services Sellers facility to provide the opportunity to be included in Seller's MRB process. If Gov. Representative does not normally service facility, Seller shall furnish a copy of this contract to the nearest DCMA office. If no DCMA response, seller shall immediately notify Buy's Authorized Procurement Representative.</p> <p>Cost Recovery**</p> <p>The supplier is responsible for cost that customer incurred as a result of supplier responsible nonconformance.</p>
Q12	CALIBRATION SYSTEM	The Supplier shall meet and maintain a Calibration System in conformance with the requirements of MIL-STD-45662A, ISO 10012-1, or ANSI Z540-1.
Q13	INSPECTION SYSTEM REQUIREMENTS (QUALITY SYSTEM STANDARD)	<p>The Supplier and his subcontractors shall maintain an Inspection system that meets the requirements of MIL-I-45208A, D1-9000, ISO9002, or AS-9100 as required.</p> <p>If customer contract clause Q13 is reference Seller must provide a statement on the packaging sheet certifying its quality assurance department has inspected the parts and they adhere to all requirements, applicable drawings & specifications.</p>

Q14	RIGHT OF ACCESS	<p>RWN, its Customers, and regulatory authorities reserve the right of access to the Supplier's facility at any level of the supply chain. Reason for access may include but not be limited to inspecting any or all the material(s) included in the purchase order or the records associated with the material; or, having given reasonable notice, for auditing the supplier's inspection system.</p> <p>As applicable: During the performance of this contract, Seller's quality system and manufacturing processes are subject to review, verification, and analysis when determined applicable by the Federal Aviation Administration (FAA). FAA inspection or release of product prior to shipment is not required unless otherwise notified. RIGHT OF ENTRY/ACCESS INCLUDES MEETING THE REQUIREMENTS OF THE FAA AND/OR APPLICABLE EQUIVALENT FOREIGN CIVIL AVIATION AUTHORITIES TO PERFORM OVERSIGHT OF THE FACILITY.</p>
Q15	APPROVED SUPPLIER LISTING	<p>Suppliers or Sub-tiers who perform special processes as identified on the Purchase Order MUST be listed on the Customer(s) Approved Supplier's Listing for the process being performed.</p> <p>Boeing programs shall use approved processors as required by D1-4426, "Approved Process Sources".</p> <p>MD Helicopter programs (MDP, MDB, MDM and MHS) shall use approved processors as required by MDHI "Approved Supplier Listing".</p> <p>NGC programs shall use approved processors as required by Oasis A Certificate of Conformance and / or equivalent Process Certificate, shall be maintained by Seller.</p> <p>Articles containing metallic raw material from Foreign sources shall be procured in accordance with Customer requirements. (DMS2201, QPL, D1-4426 (Codes 600-699)).</p>
Q16	RETURN OF ITEM PROVIDED BY RWN	<p>All RWN engineering, tooling, planning and / or specifications provided by RWN, must be returned upon completion of the order</p>
Q17	RWN RECEIVING INSPECTION REQUIRED	<p>RWN Receiving Inspection shall verify material to the applicable Purchase Order, Planning, Engineering drawing, and Q-Clause requirements.</p>

Q18	RECEIPT MATERIAL TESTING	Material received shall be processed for testing per the applicable Customer requirements and RWN Element Work Instructions.
Q19	DIGITAL DATA	Suppliers or Sub-tiers who perform product acceptance using customer digital datasets or dataset derivatives shall meet customer requirements (i.e. Boeing's D6-51991). As applicable Pacific Contours requires for all CAD/CAM/CAI quality requirements: the dataset furnished by Pacific Contours is an authority dataset and May be used as media of inspection. The supplier must have the capability to accept and process this Information directly. No translation of this data is acceptable for inspection of any product on this P.O. Any inspection is to be performed with the original authority dataset or authority dataset printout.
Q20	SUPPLIER IDENTIFICATION NUMBER	Parts and assemblies shall be identified with the designated supplier identification number as noted on customer purchase order or contract i.e...Northrop Grumman 007037.
Q21	REQUEST FOR ASSISTANCE (RFA)	Suppliers requiring assistance for clarification of requirements or resolution of manufacturing, quality, or engineering constraints affecting product quality, shall contact the RWN Purchasing Agent. A detail description of the issue(s) and recommended solution shall be provided in writing via fax or e-mail to the Purchasing Agent. The Purchasing Agent will forward the Suppliers 'Request for Assistance' to the appropriate RWN department to initiate the action for support. In addition, suppliers shall notify RWN of changes in product and / or process definition deviating from purchase order or customer requirements. Suppliers shall obtain RWN approval, where required, prior to implementation of such change and prior to delivery of product to RWN.
Q22	DFARS 252.225-7014 COMPLAINT	Seller requires the following; <ul style="list-style-type: none"> • Special metals must be melted in the United States or a qualifying country. • Material certificate must demonstrate this fact. • Sub tier suppliers must submit DFARS requirements.

Q23	QUALITY MANAGEMENT SYSTEM REQUIREMENTS	Suppliers implemented Quality Management System must be compliant to the corresponding Standard:	
		ISO 9001:2008, FAR PART 145, AS9100D, AS9015, NADCAP MIL-I-45208A, D1-9000, D6-82479 or per purchase order requirements.	Manufacturer (Build to Print) Value Added Distributor
		ISO 9001:2008, FAR PART 145, AS9100D, ASA 100, AS9015 MIL-I-45208A, D1-9000, D6-82479 or per purchase order requirements.	Pass-Thru Distributor
		ISO 9001:2008, FAR PART 145, AS9100D, AS9015 MIL-I-45208A, D1-9000, NADCAP AC7004 ANSI-Z540-1, ISO 17025, AS9110, AS9003, ISO 10012-1, D6-82479 or per purchase order requirements.	Processor/Services
		ISO 9001:2008, FAR PART 145, AS9100D, MIL-I-45208A, D1-9000, D6-82479 or per purchase order requirements.	Tooling
		No QMS requirements for Min/Max suppliers. Additionally any quality management system changes (I.e. obtains ISO 9001 or AS9100 or lost of accreditation) the supplier shall notify the customer.	
Q24	RETENTION OF RECORDS	RWN will maintain, and have available on a timely basis, quality records traceable to the conformance of product/ part numbers delivered to customer. RWN will maintain records for +10 years from the date of shipment under each applicable order for all product/part numbers unless otherwise specified on the order. At the expiration date of such period, Customer the right to request delivery of such records. In the event customer chooses to exercise this right, seller shall promptly delivery such records to customer at no additional cost on media agreed to by both parties. Provisions/requirements set forth above be included in Sellers direct supply contracts related to the Products/Part Numbers. Supply Chain shall mean network of material, equipment, information, and services integrated into products and services for the ultimate customer.	

Q25	TRADE SECRET INFORMATION	<p>Buyer and Seller shall each keep confidential and protect from unauthorized use and disclosure all.</p> <p>(a) confidential, proprietary and/or trade secret information</p> <p>(b) tangible items and software containing, conveying or embodying such information and</p> <p>(c) Tooling identified as being subject to this article and obtained, directly or indirectly, from the other in connection with this contract or other agreement referencing this contract (collectively referred to as "Proprietary Information and Materials").</p> <p>Buyer and Seller shall each use Proprietary Information and Materials of the other only in the performance of and for the purpose of this contract and/or any other agreement referencing this contract. However, despite any other obligations or restrictions imposed by this article, Buyer shall have the right to use, disclose and reproduce Seller's Proprietary Information and Materials, and make derivative works thereof, for the purposes of testing, certification, use, sale or support of any Goods delivered under this contract or any other agreement referencing this contract. Any such use, disclosure, reproduction or derivative work by Buyer shall, whenever appropriate, include a restrictive legend suitable for the particular circumstances. The restrictions on disclosure or use of Proprietary Information and Materials by Seller shall apply to all materials derived by Seller or others from Buyer's Proprietary Information and Materials.</p> <p>Upon Buyer's request at any time, and in any event upon the completion, termination or cancellation of this contract, Seller shall return to Buyer all of Buyer's Proprietary Information and Materials and all materials derived there from, unless specifically directed otherwise in writing by Buyer. Seller shall not, without the prior written authorization of Buyer, sell or otherwise dispose of (as scrap or otherwise) any parts or other materials containing, conveying, embodying or made in accordance with or by reference to any Proprietary Information and Materials of Buyer. Prior to disposing of such parts or other materials as scrap, Seller shall render them unusable. Buyer shall have the right to audit Seller's compliance with this article. Seller may disclose Proprietary Information and Materials of Buyer to its subcontractors as required for the performance of this contract, provided that each such subcontractor first agrees in writing to the same obligations imposed upon Seller under this article relating to Proprietary Information and Material. Seller shall be liable to Buyer for any breach of such obligation by such subcontractor. The provisions of this article are effective in lieu of any restrictive legends or notices applied to Proprietary Information and Materials. The provisions of this article shall survive the performance, completion, termination or cancellation of this contract.</p>
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Q26	TIN PLATING	<p>The use of pure unalloyed tin is prohibited in the construction and surface finish of “goods required being deliverable to Buyer under this purchase contract.</p> <p>Construction and finish include solders and plating. Tin is considered to be pure if it contains greater than 97% tin and less than 3% alloying elements.</p>
Q27	LIMITED LIFE & AGE CONTROLLED ITEMS	<p>Upon shipment, shelf life remaining shall meet the minimum shelf life specified on the order. If no shelf life is specified the materials/parts shipped under this order must arrive at the buyer’s facility with no less than 80% shelf life remaining.</p> <p>Products on this Order require submittal documentation of date of manufacture when shelf life is based on date of manufacture, or date of shipment from the manufacturer when shelf life is based on date of shipment, as appropriate, based on specified method of shelf life determination.</p> <p>All shipments of Temperature Sensitive Materials shall include a portable temperature recorder(s) when delivered. Additional portable temperature recorders are required if specified by the applicable specification</p> <p>If material is procured from an outside source, out-time records from the time it left the primary manufacturer to the time of arrival at RWN, shall accompany the shipment.</p>
Q28	KEY CHARACTERISTICS MANAGEMENT	<p>Key Characteristics (KC) for a part, subassembly or system are those selected geometrical, material properties, functional and/or cosmetic features which are measurable, whose variation control is necessary in meeting Customer requirements and enhancing Customer Satisfaction.</p> <p>Data Submittal</p> <p>If Key Characteristics are specified in the engineering drawing, SPC data is required to be submitted with each shipment.</p> <p>Data Analysis</p> <p>The Supplier shall review their accumulated KC performance annually. Unless otherwise specified, all Key Characteristics are to be produced by processes that are, at a minimum, stable and in control $Cpk \geq 1.33$.</p> <p>Suppliers not meeting this KC performance level shall have a Cpk Improvement Plan and track the progress to the plan. These plans should be made available as requested by RWN representatives. Failure to submit data on parts designated as KC’s may result in lot rejections. RWN will evaluate process capability once the supplier has achieved 20 or more in-control points. The supplier is required to submit SPC information during the initial collection of the 20 data points.</p>

Q29A	OUTSIDE SUPPLIER – PACKAGING & HANDLING	The supplier shall use appropriate methods of handling, packaging, and preservation to prevent damage of product in process and during delivery.
Q29B	RWN PACKAGING & HANDLING	<p>At a minimum, in order to prevent damage and deterioration, Seller shall pack the Goods in accordance with D37522-6, "Supplier Packaging".</p> <p>For Boeing jobs as applicable Seller shall provide, with each container shipped under this contract, an Advanced Shipping Notice (ASN). For each container shipped, Seller shall provide two (2) readable copies of the ASN barcode as follows:</p> <ul style="list-style-type: none"> i. One (1) copy is to be securely affixed to the outside of each container. ii. One (1) copy is to be loose inside each container. <p>Supplier shall provide a bar coded shipping label with each shipment that includes the following data identifiers:</p> <ul style="list-style-type: none"> iii. PO Number, Invoice Number, Part number, Quantity, Data type, Date, Batch Number (If Applicable), Lot Number (IF Applicable), QTY per batch/Lot iv. Supplier may use the Kapco Global provided bar code generator found at: http://www.kapcoaero.com/barcode/barcode.php
Q30	PRODUCT OR PROCESS CHANGE NOTIFICATION	The supplier / sub-tier shall notify the customer, in writing of the following, as applicable: changes in product, changes in manufacturing location, or process, changes of suppliers, major changes in the QMS, when required by contract, the supplier shall obtain approval for such changes from the customers.
Q31	FLOW DOWN OF REQUIREMENTS	The supplier shall flow-down to the supply chain the applicable requirements the applicable provisions/requirements of AS/EN/JISQ 9100, including customer requirements (GP1, PO Notes) along with requirements for qualification of personnel, requirements for approval of product, procedures, processes, material, equipment, information, and services integrated into deliverable products by Seller's direct first tier supply contracts and Seller's sub-tier or lower tier supply contracts.
Q32	CORRECTIVE ACTION	<p>The Supplier is responsible for prompt replies to Customer requests for containment and corrective action within 30 calendar days.</p> <p>When Seller disagrees with the determination of fault, seller shall submit a Change of Charge (COC) request to the initiator within 30 calendar days from the date of notification with data analysis.</p>

Q33	ITEM IDENTIFICATION & VALUATION	<p>DOD far supplement 252.211-7003 is incorporated herein and made a part hereof. In accordance with DFARS 252.211-7003, the supplier shall provide unique item identification (UID) marking, or a DOD recognized unique identification equivalent (if one is not already marked), for the items identified in this order.</p> <p>Required supplier data as delineated within the DFARS clause is to be uploaded utilizing the UID drop located at the following web site: https://oasis10.northropgrumman.com/uid/fileupload.aspx.</p> <p>For those suppliers requiring additional information regarding UID, please visit the UID page of Northrop Grumman's oasis web site at https://oasis.northgrum.com/contract/uid.htm or the department of defense' UID website at http://www.acq.osd.mil/dpap/pdi/uid/index.html</p> <p>Items requiring UID will be identified by application of this standard note to the applicable line item on the order or as identified herein</p> <p>Northrop Grumman Marking Requirements:</p> <p>Supplier shall mark all deliverable products as required by the purchase order, engineering drawing and manufacturing planning. In addition, products with SQAR codes C, E, H, I, J, L, N, R and W shall also be identified with the eight (8) digit Northrop Grumman supplier code or CAGE code traceable to the supplier.</p> <p>Unless otherwise stated in the engineering requirements, the Supplier shall apply the 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.</p> <p>Examples of traceable information may include, but are not limited to:</p> <p>Note 1: For Project IDs JSTAR and TSSRX, the revision level is not to be marked on the parts.</p> <p>Note 2: FAA parts are excluded from this requirement.</p> <p>For Cubic Defense Applications parts procured to CDA drawings, the purchase order identifies the appropriate revision letter for each part number. The identification method of marking a part shall be as described on the drawing along with the part number including applicable dash number & part revision letter.</p>
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Q34	COUNTERFEIT PARTS	<p>All fasteners and/or electrical, electronic and electro-mechanical parts delivered and/or used in the manufacture of deliverable products shall be from the Original Component Manufacturer (OCM)/ Original Equipment Manufacturer (OEM) or their franchised dealer or an authorized distributor chain. Parts shall not be used or reclaimed and misrepresented as new. Parts shall not be acquired from independent distributors or brokers unless specifically authorized in writing by the buyer.</p> <p>The supplier shall verify the procurement source and associated certifying paperwork. Appropriate inspection and/or test methods shall be used to detect potential counterfeit parts and materials.</p> <p>The supplier shall flow this requirement down to all sub-tier suppliers to prevent the inadvertent use of counterfeit parts and materials.</p> <p>Supplier shall specify on their purchase order to the sub-tier suppliers that they shall only procure fasteners and/or electrical, electronic and electro-mechanical parts from the original manufacturer of the part or the original manufacturer's authorized distributor or authorized franchised dealer only.</p> <p>Seller shall permit Buyer to review and audit Seller's Counterfeit Electronic Part Detection and Avoidance System procedure, practices, process and related documents to determine whether Seller's system meets the requirements of DFARS Clause 252.246-7007.</p>
Q35A	VOUGHT SHIPPING & DOCUMENTATION REQUIREMENTS	<p>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 Aerospace Electronic Document system, to which Vought subscribes and funds. Access the Aerospace website from the following URL: http://www.aerospac.com/aerospac_files/page0001.htm</p> <p>Supplier shall provide a packing sheet for each separate shipment. Packing sheets</p> <p>Minimum Requirements (All Suppliers and Distributors; All Products)</p> <ol style="list-style-type: none"> Supplier's company name and address Vought's purchase order number, change order number and applicable P.O. line item(s) and part numbers. Denote applicable design drawing revision and applicable engineering changes (ADCN, EO, etc.), as stated in Vought's purchase order, or later revision. 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.

		<p>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</p> <p>Machined Part Suppliers, Sheet Metal Part Suppliers, Composite/Nonmetallic Part Suppliers, Casting & Forging Suppliers, and Raw Material Manufacturers.</p> <p>Supplier shall provide via the Aerospace 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. All chemical analysis and physical test certifications shall also be provided for castings and forgings. <i>Note: Suppliers using Vought provided material may provide evidence of Vought consignment in lieu of raw material certifications</i></p>
Q35B	BOEING ENGINEERING CHANGES	Seller agrees to process all applicable engineering changes and initiate change classification recommendations, in accordance with the requirements of Boeing Document D8-0776 and to deliver to Buyer supporting documentation in accordance with the schedules stated therein.
Q36	PROCUREMENT CONTROL DATASET/DRAWING INFO. VARIABLE	<p>The procurement control dataset/drawing (envelope, source control or specification control drawing, as applicable) and its revision level listed below, including parts list when applicable, is the authority for the manufacture and inspection of the goods or services ordered on this contract. Seller shall ensure goods conform to specified engineering documents and associated revision.</p> <p>Seller will contact Buyer's Authorized Procurement Representative for resolutions of differences between configuration of Goods and the Contract specified engineering documents and associated revisions.</p> <p>Seller shall ensure resolutions of configuration differences in advance of Seller's request for Buyer verification (when</p>

		<p>required) and in any case prior to shipment.</p> <p>Note: The digital file and its revision level are the electronic equivalent of the drawing and shall be recorded as identified below.</p> <p>In addition, when shipping, sellers shipping documents shall identify applicable dataset/drawing revision levels, and the serial number(s) of items being shipped.</p>
Q37	TEST DATA SHEETS DELIVERABLE	<p>Seller is required to deliver with each shipment, the completed applicable test data sheet(s) identifiable to each item.</p>
Q38	BOEING DIRECT SHIP AUTHORIZATION	<p>The seller will place the following statement on all Boeing Shipments: the statement may be printed, stamped or attached as a label or sticker.</p> <p>"Seller hereby acknowledges that the parts and/or materials being shipped under this order are intended for use under Boeing's Federal Aviation Administration (FAA) issued Production Certificate 700 and no articles (or constituent parts thereof) or the accompanying paperwork (e.g., packages, shippers, etc.) contain any Federal Aviation Administration- Parts Manufacturer Approval (FAA-PMA) markings."</p> <p>Customer requires that the provisions/requirements set forth above, as determined are to be applicable, be included in Seller's direct supply contracts as well as the obligation that they be flowed to the sub-tier supply chain. For purposes of this note, Supply Chain shall mean Seller's complete network of material, equipment, information, and services integrated into products and services. It focuses on direct and all lower-tier suppliers.</p>
Q39	AUTHORIZED RELEASE CERTIFICATE	<p>This article requires an authorized release certificate executed by the Sellers country airworthiness authority or their authorized designee.</p> <p>Seller shall contact the airworthiness authority representative that normally services the Sellers facility to arrange for the application of the authorized release certificate.</p> <p>It is the Sellers responsibility to meet any special import requirements of the country to which the part is shipped. Seller may contact the Boeing procurement agent for further assistance as required.</p>

Q40	NOTIFICATION OF DIRECT SHIP INFORMATION	<p>On the day of shipment, supplier will notify Boeing of direct ship information.</p> <p>Notification shall include the following as applicable:</p> <ol style="list-style-type: none"> 1. Part number and description 2. Customer purchase order number 3. Customer code 4. Ship date 5. Quantity shipped 6. Boeing purchase order number 7. Pack sheet and/or invoice number 8. Airway bill and carrier name 9. Sis number 10. Serial number <p>The supplier must enter shipping information for all orders into the direct ship application of spares supplier link (when entering URL - please do so in lower case letters only): (https://bpn.boeing.com) or contact the Boeing procurement representative directly by phone.</p>
Q41	REWORK, REPAIR ORDER, OVERHAUL OR CONFIGURATION UPGRADE DELIVERABLE	<p>Upon receipt for repair/rework of the material that is the subject of this contract, Seller shall immediately acknowledge such receipt including any evidence of damage in shipment, and promptly advise Buyer. Seller is authorized to inspect the material, including disassembly if necessary, and start repairs under the terms of this clause.</p> <ol style="list-style-type: none"> 1. Identify additional provided property (e.g. equipment, special test equipment, special tooling) required for performance of this purchase contract by completing and returning Form X36080, "Supplier Property Identification Checklist". The X36080 form will be provided by the Procurement Agent upon Seller request. Under no circumstances is use of additional provided property authorized for this purchase contract until properly identified as specified herein and authorized for use in accordance with E000. 2. When proposed, all property acquisition costs shall be priced separately from other non-recurring and recurring (parts) costs. Pricing must be clearly presented in a format the Procurement Agent can separately distinguish the special tooling from equipment/special test equipment costs. Costs for supplier fabricated or acquired shop aids; general purpose, perishable or portable tools that do not fit the definition of special tooling, equipment or special test equipment must be funded by the supplier or otherwise be treated as accountable special tooling. \

		<p>3. Seller may commence repair/rework of the items if the estimated repair and/or rework charges will not exceed fifty percent (50%) of the current replacement costs for a new item of the same description or \$100,000, whichever is less. In the event Seller requires the use of additional provided property for performance of this repair/rework, as identified in paragraph 2 above, use must be authorized in E000 of this purchase contract, before additional provided property can be used.</p> <p>4. Seller shall promptly furnish in writing, a complete failure report for repair/rework, suggested corrective action, estimated time for accomplishing the necessary repair/rework effort and a firm price quotation for such work. The quotation shall include a detailed cost breakdown including labor hours and rates, material costs including repair/replacement parts list, overhead and profit.</p> <p>5. The above requested firm price quotation must be submitted promptly and before Seller expends forty percent (40%) of the estimated costs of the repair/rework charge.</p> <p>Orders referencing Q219L. Seller determines a nonconformance exists or is suspected to exist on goods and /or services already delivered to Buyer under this contract, Seller shall notify Buyer's Authorized procurement Representative and submit Buyer's form MD-1898, "Request for Deviation / Waiver" with all required information within three (3) business days of when nonconformance was determine. However, if the nonconformance affects safety of flight or is mission critical: Seller shall immediately provide all available information.</p> <p>When Seller identifies nonconforming conditions which affect fir, form, function, safety, weight, maintainability or appearance (where a factor) , of goods or services not yet delivered under this contract, Seller shall notify buyer's Authorized Procurement representative and submit buyer's form MD-1898, Request for deviation/ Waiver to request Buyer's disposition of any proposed "repair" or " Use As IS" disposition, or similar disposition.</p>
Q42	PRODUCTION DATASET/DRAWING INFORMATION (VARIABLE)	<p>The design baseline listed below (dataset/drawing/part list revision levels and SPEC "O" change levels) is the authority for the manufacture and inspection of the goods or Services ordered on this contract. This includes buyer part number subassemblies dataset/drawing/parts list when applicable.</p> <p>Note: The digital file and its revision level are the electronic equivalent of the drawing and shall be recorded as identified below.</p>

		In addition, when shipping, the sellers pack sheets and/or data packages shall identify applicable dataset/drawing, including each applicable parts list(s)/sheet number(s) including DCN levels, ADCNS/ADRNS, SPEC "O" change levels, and the serial number(s) of items being shipped.
Q43	QUALITY REQUIREMENTS FOR BOEING-HERITAGE ARTICLE	<p>Seller shall comply with the requirements of Form X31764. "Boeing Quality Purchasing Data Requirements". To ensure Seller is performing to the latest Boeing Form X31764, Seller shall access this form by selecting "Supplier Quality" from the menu bar of "Doing Business with Boeing" home page located at the following URL address: http://www.boeingsuppliers.com/. When entering the URL, use lower case letters only. Seller shall flow-down to its Supply Chain the provisions/requirements of X31764.</p> <p>At the expiration of such period, Boeing reserves the right to request delivery of such records. In the event Boeing chooses to exercise this right, Seller shall promptly deliver such records to Boeing at no additional cost on media agreed to by both parties.</p>
Q44	CSCAN TEST & SONDICATOR TEST REQUIREMENT	<p>RWN is required to perform two inspections on the subject hardware during manufacturing: CSCAN Test and a Sondicator Test.</p> <p>The CSCAN test can be performed at Mitchell Laboratories (Mitchell-lab.com, 562-949-7584). The CSCAN test is to be performed after the .875-inch diameter bores are made in the panel and prior to click patch installation.</p> <p>The Sondicator test can be performed by Boeing labs and paid for by Boeing. The Sondicator test is performed after the bore holes are sealed with a click patch.</p> <p>The Process Specification for these tests are:</p> <p>PTPCT01-A - Inspection, Ultrasonic Procedures for Composite Laminates and Bonded Assemblies</p> <p>5PTPCT05-C - Inspection, Acceptance Criteria, for Composite Parts and Assemblies</p>
Q45	SOURCES OF SUPPLIERS	Seller shall procure all fasteners and/or electrical, electronic and electro-mechanical parts delivered to Buyer and/or used in the manufacture of deliverable Buyer hardware directly from the manufacturer or authorized manufacturer's distributor, e.g., licensed or franchised distributor.

Q46	SELLER SEIALIZATION	<p>If D210-13613-1, Part Marking for Unique Identification with Machine-Readable Information for Labels and Nameplates or D210-13613-2, Direct Part Marking for Unique Identification with Machine-Readable Information is specified on the engineering design; parts shall be serialized in accordance with those documents. The serialization scheme shall be approved in writing by Buyer's Authorized Procurement Representative.</p> <p>Prior to shipment, the Seller will be responsible to enter all pertinent data for these part number(s) into "PHILADELPHIA ROTORCRAFT: UID REGISTRATION" accessed via the Boeing Partners Network (BPN) Secure Logon Screen.</p> <ul style="list-style-type: none"> • Log onto: http://www.boeing.com <ul style="list-style-type: none"> • Select: "Secure Logon" in the top right corner of page • Select "Portal Logon" • Input: User-ID (BEMSID) and Password, click "Submit" • Under "My Products", select "SMAP Philadelphia" • Under "My Products, SMAP Applications", select SM&P Applications" • Select "UID Registry" <p>Note: A comprehensive user guide can be accessed on the "SM&P Applications" screen by selection <User Guides/Training> under the "Information Links" heading.</p>
Q47	FINAL INSPECTION REQUIREMENTS- BAC5650/BAC5946	<p>If goods include materials covered by BAC 5650 then 100% hardness inspection to BAC 5650 is required. If goods include materials covered by BAC 5946 then 100% conductivity inspection to BAC 5946 is required.</p> <p>Seller's final inspection must include an end item level 100%-dimensional inspection.</p>
Q48	MARK PACKING SLIP WITH ENGINEERING REVISION LEVEL	<p>Seller shall record, the end item part number, drawing level and engineering changes to which the delivered item has been manufactured to, on the packing slip and shipping container.</p>

Q49	PO-F165 CERTIFICATE OF CONFORMANCE	Suppliers of SQAR codes C and E (NGC Contracts) shall complete the latest revision of form P0-F165, the latest revision of the form can be accessed on OASIS. This form shall be retained on file by the supplier and submitted to Northrop Grumman upon request.
Q50	EXPORT CONTROL	<p>In performing the obligations of this Agreement, all Parties involved will comply with United States export control and sanctions laws, regulations, and orders, as they may be amended from time to time, applicable to the export and re-export of goods, software, technology, or technical data ("Items") or services, including without limitation the Export Administration Regulations ("EAR"), International Traffic in Arms Regulations ("ITAR"), and regulations and orders administered by the Treasury Department's Office of Foreign Assets Control (collectively, "Export Control Laws").</p> <p>RWN requires that the provisions/requirements set forth above be included in Sellers direct supply contracts as well as the obligation that they be flowed to the sub-tier supply chain.</p>
Q51	APPROVED STATISTICAL SAMPLING PLANS	When the Seller uses sampling inspection as a means of product acceptance, the plan shall be statistically valid and appropriate for use. The plan shall preclude the acceptance of known defectives in the lot.
Q52	QUALITY REQUIREMENTS REVIEW	<p>Buyer's Supplier Quality Representative will conduct a Quality Requirement Review (QRR) with Seller to establish confidence that Seller understands quality requirements imposed on this contract.</p> <p>Buyer's Supplier Quality Representative will coordinate with Seller to schedule the QRR as an early involvement activity, intended to be performed prior to start of manufacturing of goods.</p> <p>Seller shall make records of contract requirements review readily available at time of QRR. Buyer reserves the right to review Seller's flow-down of quality requirements to Seller's subcontractor(s).</p>
Q53	SPECIAL TOOLING REQUIREMENTS	<p>a. For BDS owned tooling seller is required to maintain a special tooling management process that complies with the requirements of IDS Terms and Conditions Guide E000 "SELLER ACCOUNTABILITY REQUIREMENTS FOR GOVERNMENT/BUYER-OWNED PROPERTY" as well comply with the requirements of D950-11059-1, "BDS Seller Special Tooling Requirements."</p> <p>Buyer reserves the right to conduct surveillance at Seller's facility to determine whether Seller's special tooling management process meets the requirements of this clause. A copy of D950-11059-1 can be obtained at the following URL address:</p>

		<p>http://www.boeing.com/companyoffices/doingbiz/supplier_portal/index_general.html</p> <p>b. For Boeing owned tooling seller is required to maintain a special tooling management process that complies with the requirements of D33200-1, “Boeing Suppliers’ Tooling Document.”</p> <p>c. Government Property Seller acknowledges that all Government property for use on this Contract is subject to the requirements of Federal Acquisition Regulation (FAR) 52.245-1 or the Government property clause incorporated in the customer contract as referenced in the CCR.</p> <p>d. For Northrop owned tooling seller is required to maintain a special tooling management process that complies with the requirements identified in the Supplier Tooling Manual found in the Oasis website. Address: https://oasis-specs.myngc.com/specs/technical/tooling/Tlmgman.PDF</p> <p>e. GKN suppliers are authorized to use special tooling and /or test equipment identified herein. Such tooling and / or equipment are considered the property of GKN. In the performance of this contract the Supplier shall be responsible for all periodic, inventory checks, inspections, maintenance and refurbishment or replacement required to manufacture, test and deliver the items ordered under this purchase agreement. .</p> <p>f. For St. Louis Seller is additionally required to establish and maintain an inspection system in conformance with Buyer’s location unique documents as specified below. The applicable Buyer’s location unique document is determined by the location (address) of Buyer’s Authorized Procurement Representative administering this contract.</p> <p>In addition, for purchase contracts issued in support of Buyer’s St Louis site, B0622, “Requirements for Sellers of Special Tooling to the Boeing St. Louis Tooling Center” which may be amended from time to time is incorporated in and made a part of this purchase contract by reference. Buyer reserves the right to conduct surveillance at Seller’s facility to ensure conformance with the requirements. A copy of B0622 can be obtained at the following URL: http://www.boeingsuppliers.com/supplier/B0622.pdf</p> <p>BCA special tooling requirements set forth Form DAC 26-807, Supplier Accountability Requirements. Seller hereby agrees to comply with the requirements of Form DAC 26-807 unless specifically modified or restricted under the terms of a particular purchase order/ contract/ (see Boeing commercial Airplanes (BCA) Terms and conditions for copies of the forms. This agreement applies to all Boeing, Long Beach Division special tooling while in seller’s possession, custody or control, or in the possession, custody or control of seller’s subcontractors.</p>
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Q54A	TOOLING INSPECTION & REPORTS	Complete inspection of tools under this purchase order/contract shall be accomplished by Seller and quantitative inspection results will be recorded on a report form approved by RWN/Boeing's Tooling Inspection and/or RWN/Boeing's Purchasing representative. Copies of the inspection report shall accompany each shipment. RWN/Boeing's Tooling Inspection will maintain surveillance of Seller's tool fabrication and inspection to verify inspection points and results of inspection.
Q54B	OUTSIDE VENDOR: TOOLD SUPPLIED BY RWN (SUB-TIERS)	Vendor to inspect tooling and advise RWN of any damage, wear or other issues prior to producing parts.
Q54C	TOOLING INSPECTION AT SELLER'S FACILITY	Inspection by Seller's Tooling Inspector is required at Seller's facility prior to shipment or use of tooling. Notify Seller's Tooling Inspection and/or Purchasing representative at least 48 hours in advance of the time tooling is ready for inspection so that necessary arrangements can be made.
Q54D	SPECIAL TOOL CONTROL	<p>All Buyer or Government owned Special Tools that are fabricated, reworked or repaired by Approved Tooling Sellers, and Buyer, Government or Seller owned Special Tools that are used as media of inspection (MOI) for the acceptance of goods fabricated for Buyer or its Buyer's Customer shall be controlled in accordance with D658-10024-1. "Supplier Fabricated/Held/Owned Special Tools Inspection, Acceptance and Control". This document defines quality assurance requirements for acquisition and utilization of special tools, tooling Seller surveys, tool design reviews, first article inspections, tool routines, release status control, tools inspections, shipping/ receiving screening inspection, and tool discrepancy control.</p> <p>Seller is to contact Buyer's Authorization Procurement Representative to obtain relevant sections of D658-10024-1 as determined appropriate for this tooling procurement.</p>
Q55	BOEING PHILADELPHIA MATERIAL SUBSTITUTIONS	In accordance with process doc no. D210-12501-1, process document departure number 8-50, it is allowed to use Chromic Acid Anodize Class 3 per VF-3.46 as a substitute or equivalent for Boric-Sulfuric Acid Anodize per BAC5632 Class 5.

Q56	COUNTERFEIT GOODS	<p>Seller shall not furnish to Buyer any Goods under this contract that are “Counterfeit Goods,” defined as Goods or separately-identifiable items or components of Goods that: (I) are an unauthorized copy or substitute of an Original Equipment Manufacturer or Original Component Manufacturer (collectively, “OEM”) item; (ii) are not traceable to an OEM sufficient to ensure authenticity in OEM design and manufacture; (iii) do not contain proper external or internal materials or components required by the OEM or are not constructed in accordance with OEM design; (iv) have been re-worked, re-marked, re-labeled, repaired, refurbished, or otherwise modified from OEM design but not disclosed as such or are represented as OEM authentic or new; or (iv) have not passed successfully all OEM required testing, verification, screening, and quality control processes</p> <p>If Seller becomes aware or suspects that it has furnished Counterfeit Goods to Buyer under this contract, Seller promptly shall notify Buyer and replace, at Seller’s expense, such Counterfeit Goods with OEM or Buyer-approved Goods that conform to the requirements of this contract.</p> <p>Seller bears responsibility for procuring authentic Goods or items from its subcontractors and shall ensure that all suppliers’ subcontractors comply with the requirements of this article.</p>
Q57	MATERIAL SUBSTITUTION PROHIBITION	<p>Unauthorized material substitutions are not permitted on Buyer’s Goods. Unauthorized material substitution includes any deviation from the engineering definition of a raw material. Engineering definition includes Buyer design drawing and applicable specifications, product specification, form, size, shape, chemistry, melt method, origin, temper/condition, product testing or surface finish.</p> <p>Contact Buyer’s Authorized Procurement Representative for details regarding deviations to authorized materials. Seller agrees and understands that such deviations only apply to this purchase contract, and only as indicated in the Buyer’s authorized document.</p>
Q58	SELLERS NOTIFICATION OF ESCAPEMENT	<p>When a nonconformance is determined to exist or is suspected to exist on goods, services and or engineering on product already delivered to customer. Written Notification shall include:</p> <ul style="list-style-type: none"> • Affected process or product numbers and name . • Description of NC and the affected engineering requirement (IS and SB) • Quantities, Shipping Dates, Purchase Order and Destination of Delivered Shipment • Suspected/ Affected Serial Number or date codes, lot numbers, or other part identifiers and airplane line unit when applicable. <p>Notification is required to be submitted within (3) business days to Procurement Rep. and Supplier Quality Rep.</p>

		Seller shall notify Customer of all sub-tier escapes and design errors in accordance with respective communication process set forth herein. For purpose of this note, supply chain shall mean seller's complete network of material, equipment, information, and services integrated into products and services.
Q59	LAMSCO TERMS & CONDITIONS	See Lamsco Procurement Quality Requirements.
Q60	VALIDATION OF RAW MATERIAL	Test reports shall be checked 100% against Seller's requirements and applicable specifications. Validation test requirements: Seller shall periodically validate test reports for raw material accepted on the basis of test reports. That validation shall be accomplished by seller or other independent party through periodic, schedule test of raw material samples. Schedules for frequency of test will be established by Seller based on historical performance of the raw material supplier. Seller shall retain test reports provided by the raw material supplier, as well as Seller's validation test results as quality records traceable to the conformance of goods, as specified elsewhere in this contract. Buyer and customer furnished raw material is not subject to the validation test requirement.
Q61	OUTSIDE SUPPLIER- NON-FAA-PMA PARTS	This contract is controlled under Boeing's federal Aviation Administration (FAA) issued Production Certificate 700 Quality System Supplier Control Program. During the performance of this contract, Seller's quality system and manufacturing processes are subject to review verification, and analysis when determined necessary by buyer and / or regulatory agency. Unless explicit direction is given by Buyer to the contrary in writing, no articles (or constituent parts thereof) ordered by Buyer shall contain any "Federal Aviation Administration – Parts manufacturer Approval (FAA- PMA) "markings: this includes the accompanying paperwork (e.g. packages, shippers, certificates of conformance (C of C). Seller shall also flow this requirement in the direct supply contracts, long term agreements, and to their sub-tier supply chain. Seller shall perform receiving inspection to ensure their supply chain's compliance with this requirement and final inspection to ensure product compliance prior to shipment.
Q62	ENGLISH LANGUAGE	Seller shall make specified quality data and / or approved design data available in the English language.
Q63	EXCESS INVENTORY	Seller shall strictly control all inventory of Customer proprietary product that is in excess of contract quantity in order to prevent product from being sold or provided to any third party without prior written authorization from Customer.
Q64	MRB AUTHORITY BY SUPPLIERS	Seller shall not use dispositions of use-as-is or repair on Products unless customer has granted Seller materials review board (MRB) authority.

Q65	NGC-FIRST PIECE INSPECTION FOR DIE CUTTING & FORGINGS	In accordance with applicable material specifications as called out on the engineering drawing or purchase order and prior to initial production, Northrop Grumman designed casting or forgings require a first Piece Inspection. The die or pattern must be qualified per the requirements established in SP-G-02. Actual dimensions are to be recorded on the required form per SP-G-012. The form shall be submitted to your Northrop Grumman assigned QFE for validation. The form is then to be forwarded to your NGC buyer to obtain the applicable Program approval. Shipment is to be withheld pending die or pattern dimensional approval from program.
Q66	INSPECTION PLAN & REPORT	<p>The Supplier shall complete, sign and date the supplied Inspection plan & report (IP&R) or Receiving Inspection Operation Sheet (RIOS) to the specified AQL (Acceptable Quality Level) or submit documentation that includes all the requirements of the supplied IP&R or RIOS.</p> <p>Inspection Plan AQL's provided in these plans are for sample size determination only. There is no implied or permissible reject quantity allowed for deliveries to PSEMC based on AQL table accept/reject allowances.</p>
Q67	AMMO DATA CARD TRACEABILITY	The supplier shall include with each shipment a completed for (Form #2775). All fields on the form shall be filled out with the pertinent information of the item being shipped. No fields can be filled "N/A" or "None". This form does not replace any other certification requirement outlined in this document.
Q68	SUBCONTRACTING WITHOUT WRITTEN APPROVAL	Subcontracting all or substantially all of the order without written consent of customer's quality or purchasing approval is prohibited.
Q69	FURNISHED MATERIAL	<p>Heat lot traceability must be maintained by the supplier when the material is supplied by customer. No heat lot substitution or co-mingling of heat lots is allowed unless written permission is granted by customer.</p> <p>Seller agrees:</p> <ol style="list-style-type: none"> (1) not to substitute any other material in such fabrication without Buyer's written consent (2) that title to such materials shall not be affected by incorporation in or attachment to any other property and (3) that all such material or replacement material furnished at Buyer's expense will be returned in the form of products (except that which become normal industrial waste) or unused material. <p>Accountability of all Buyer-furnished material at Seller's facility is mandatory. Accordingly, all Buyer-furnished material determined by your quality control organization and/or Buyer Inspection and/or Buyer's Engineering to be nonconforming must be accounted for as follows:</p> <ol style="list-style-type: none"> a. If the total quantity of nonconforming parts is within the material allowance or the amount of material provided for set-up pieces (as indicated in this contract), Seller will disposition and dispose of the material at its facility. SELLER WILL INDICATE ON THE PACKING SHEET FOR DELIVERABLE PRODUCT THE DISPOSITION OF SUCH MATERIAL. b. If the total quantity of nonconforming parts exceeds the material allowance or the amount of material provided for set-up

		<p>pieces (as indicated in this contract), Seller will notify Buyer and disposition such material in accordance with Buyer's instructions.</p> <p>If shipment of material furnished by Buyer has sustained transit damage, Seller shall mark Buyer and carrier copy of the freight bill accordingly and obtain carrier's inspection. Forward Buyer's copy of the freight bill and the carrier's inspection report to Buyer's Traffic Department. Seller shall prepare a material review record for all items damaged in transit and forward to the Buyer's Procurement Agent with one copy to the Buyer's Traffic Department.</p>
Q70	SUPPLIER DATA TRANSMITTAL	<p>Unless otherwise allotted/directed by ULA, CONTRACTOR shall submit Quality Clause Data Item(s) to ULA electronically via SDT. For contracts subject to QC002, this submission will be completed prior to the schedule date for final ULA source inspection; for all other contracts, submission will be completed prior to shipment of Work. Each document submitted must be compatible with Microsoft Office products or Adobe Acrobat and shall be entered into SDT as a separate line with a separate file identified with the following information:</p> <ol style="list-style-type: none"> 1) Procured Part Number (ULA part number or supplier part number from PO), including applicable Serial Number and Lot Number 2) Purchase order number 3) Document number with revision level 4) Title of document with reference to applicable ULA quality clause <p>ULA's system will issue a SDT number; CONTRACTOR shall record this number within the body of the shipping document.</p>
Q71	SERIAL NUMBER TRACEABILITY	<p>This code requires that the Sellers process each item as a separate identifiable item. The Commercial and Government Entity (CAGE) code and serial number(s) shall be documented on the packaging sheet or attachment to the packing sheet. Each serialized item shall be individually packaged with the complete serial number noted on the package. Each date lot code shall be limited separately on the packing sheet to prevent date lot code co-mingling.</p> <p>Note: CAGE N0. - The manufacturer's code identification number as listed in the Commercial and Government Entity Publication H4/H8.</p>

Q72	FOD/DAMAGE PREVENTION	<p>Seller shall maintain a FOD prevention program in accordance with NAS-412, Foreign Object Damage/Debris.</p> <ul style="list-style-type: none"> a. Whenever/ wherever FOD entrapment or foreign objects can migrate, seller shall ensure that all requirements are flowed down to subcontractors at every tier. b. Prior to closing inaccessible or obscured areas and compartments during assembly, Seller shall inspect for FOD materials and ensure no FOD barriers remain embedded. Seller shall ensure tolling, jigs, fixtures and test or handling equipment are maintained in a state of cleanliness and repair sufficient to prevent FOD. <p>Boeing sellers are required to establish and maintain an FOD prevention program per D6-85622.</p>
Q73	MATERIAL SAFETY DATA SHEETS	<p>Seller is required to include one copy of the M.S.D.S and it shall be identifiable with each shipment of the items furnished under this order.</p> <p>Seller shall notify Buyer of any hazardous, toxic materials, chemicals substances or mixtures or any combination thereof that may produce a hazardous environment, or any potentially dangerous process intended for use on a Government or Customer installation. The submittal will include the safety or control measures Seller proposes to implement. Seller shall not deliver any such material to a Government or Customer installation until so authorized by Buyer. This clause will be included in any subcontract issued for work on this contract.</p>
Q74	RESOURCE MANAGEMENT	<p>Personnel performing the job under this order shall be qualified and certified in accordance to the applicable specification requirements</p>
Q75	OZONE DEPLETING SUBSTANCES	<p>The required Federal wording for the warning is:</p> <p>"Ozone-depleting substance," as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR Part 82 as--</p> <ul style="list-style-type: none"> (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or (2) Class II , including, but not limited to hydrochlorofluorocarbons. <p>Seller shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), and (d) and 40 CFR Part 82, Subpart E, as applicable:</p> <p>Warning</p> <p>Contains *_____, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.</p> <p>Warning</p>

		<p>Manufactured with * _____, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.</p> <p>* Seller shall insert the name of the substance(s).</p> <p>Boeing requires that the provisions/requirements set forth above be included in Seller's direct supply contracts as well as the obligation that they be flowed to the sub-tier supply chain. For the purpose of this note Supply Chain shall mean Seller's direct and indirect suppliers performing value-added activity on the products and services. It focuses on direct and lower-tier suppliers.</p>
Q76	SPACEFLIGHT FASTENER REQUIREMENT NASA-STD-6008	Spaceflight Fasteners (installed and/ or uninstalled): Seller shall assure all Spaceflight fasteners provided to Buyer under this purchase contract meet the requirements of NASA-STD-6008. Seller shall send Buyer's Authorized Representative a signed or stamped certification stating that delivered Spaceflight fasteners (installed and/ or uninstalled) under this purchase contract comply with the stated requirements of NASA-STD-6008.
Q77	ACCEPTANCE AT DESTINATION	Work ordered under this Contract is subject to final acceptance at ULA's facility as set forth on the face of the Contract.
Q78	EMBEDDED OR HIDDEN DATA	Any data provided electronically to the Buyer by the Seller or any of its subcontractors must be reviewed for embedded or hidden data prior to submittal. The submittals should be accomplished by a statement that the Seller or its subcontractors have checked the submittal, and that the submittal contains no embedded or other hidden data (links, overlays, etc.) except for that specifically listed in the accompanying statement.
Q79	MDHI DESIGN PARTS –BUY PLAN REQUIREMENTS	<p>For MDHI designed parts the contract references a buy plan revision level. The Buy Plan includes information on:</p> <ul style="list-style-type: none"> • Configuration Management - all applicable drawings with revision level and all issued EO's. • Tooling – The use of manufacturing and inspection tooling by the supplier is optional provided that either the intent of the tooling is complied with, or the drawing / specifications invoked provide adequate definition. • Specifications with revision levels-these supersede the specifications on the drawing, but the current revision level of all MD controlled specifications is defined by the MDHI website. Use the revision in effect on the date of the purchase order unless a specific specification revision is called out in the purchase order. A revision issued after the

		<p>PO date may be used if it offers a benefit to the supplier or processor.</p> <ul style="list-style-type: none"> • Electronic Data when officially released by MDHI. Electronic Data not listed on the buy plan is reference data and the configuration is controlled by drawings, Mylar's and tooling. • For synthetic part numbers the buy plan defines the "less than" or "more than" condition compared to the drawing requirements. • Clarifying notes to aid manufacturability. • Right of Access – MDHI reserves the right of access with 48 hour notice for itself as well as representatives of: • Notification of organizational changes – The supplier shall provide notification to MDHI Supplier Quality by email, fax or mail of any changes to: <ol style="list-style-type: none"> 1. Ownership 2. Senior Quality Management or Quality Contact Information 3. Changes to the physical location 4. Changes in capability that effect current approvals of parts, processes and quality systems. <p>Notification may be made to: Email: supplierquality@mdhelicopters.com Fax: (480) 346-6242 Attn: Supplier Quality Mail: Attn: Supplier Quality MD Helicopters Company 4555 East McDowell Road Mesa AZ 85215</p>
Q80	MIL-HDBK-454 GUIDELINE 9 REQUIREMENTS	Workmanship for items supplied on this purchase order shall comply with the requirements of Military Standard MIL HDBK 454, Guideline 9 entitled "Standard General Requirements for Electronic Assemblies, Workmanship".
Q81	APPROVED MATERIAL SUBSTITUTION	<p>1. Process Standards/Specifications Supersession List, Authorized Equivalent Parts List and Approved Material Substitution List</p> <p>If any of the process standards/specifications incorporated in this Contract have become obsolete, or materials required by Boeing drawing are not available, Seller may refer to drawing number 1G50100, Approved Substitute or Alternate List for Materials and Processes (ASAL), for a list of superseding standards/specifications and authorized equivalent materials. Unless specified otherwise elsewhere in this Contract, drawing number 1G50100 is Buyer's authorization for Seller to use the listed superseding process standards/specifications or authorized equivalent materials.</p>

		<p>If an obsolete process is not listed, Seller should contact Buyer's Authorized Procurement Representative to submit a Supplier Information Request (SIR) to obtain authorization to use a superseding standard/specification. If there is no authorized equivalent material in the ASAL or if additional clarification is desired, Seller should contact Buyer's Authorized Procurement Representative. If any of the parts required by a Boeing drawing are not available, or if additional clarification is desired, Seller should contact Buyer's Authorized Procurement Representative.</p> <p>2. Change Notification - - Huntington Beach Part Numbers 1Gxxxxx, 4Gxxxxx</p> <p>a. Seller agrees to advise Buyers Authorized Procurement Representative of any change, initiated by Seller, to the design, form, fit or function of the goods furnished under this Contract. Furthermore, any change involving a substitution of material, changes in Seller's manufacturing and/or acceptance processes, or changes in manufacturing location will be submitted immediately in writing to Buyer's Authorized Procurement Representative for processing and review. Buyer will, within 15 days after receipt of the written notice, notify Seller of acceptance, rejection, or other status of such changes. In no event will Seller incorporate such changes without Buyer's written approval. All goods to be delivered will incorporate all changes and revisions that are approved by Buyer under this clause, commencing with the agreed effectivity of such changes.</p> <p>b. Nothing contained in this clause will excuse Seller from performing in strict compliance with the terms, conditions, delivery schedule, specification, or any other provision of this Contract.</p> <p>c. Noncompliance with this change notification requirement may result in subsequent rejection of delivered items and actual and/or consequential damages.</p>
Q82	D6-84111 REQUIREMENTS	<p>This note only applies to non-unitized, non-conforming parts approved to ship as an open-nonconformance per D6-84111. Applicable to 737/747/767/777 (excludes 787).</p> <p>Seller will be required to attach a defective part tag to the nonconforming part(s) when shipping open non-conformances. The tag shall adhere to the following specifications:</p> <ul style="list-style-type: none"> - Overall Size (WxL): No smaller than 2-3/8" x 4-3/4" - Color: Red - Type/Grade: Tagstock, no smaller than 10 PT - Punch: <ul style="list-style-type: none"> --Quantity 1 --Diameter, 3/16" --Double Side Grommet reinforcement - Language: English - Font Color: Black <ul style="list-style-type: none"> --Shall contain the following title 'Defective Part Tag' -- Shall contain the following information: <ul style="list-style-type: none"> --Part Number

		--Part Name --Nonconformance number --Date - Fastener Type: Wire or Zip tie --Wire: No smaller than 26 gauge wire --Zip Tie: No smaller than 0.10" thickness
Q83	DROP SHIPPED	When RWN products drop shipped from a supplier (not delivered directly from RWN) the receiving supplier will act as RWN Receiving Inspection to ensure received parts are not damaged and comply with documentation, configuration and identification requirements. If the receiving supplier suspects a nonconformance, prior to any processing, the receiving supplier will notify RWN Purchasing as soon as possible and prior to processing. The subject order may only be processed after written approval from RWN Purchasing. All Suppliers are expected to maintain 100% conformance and control over all product released from their facility.
Q84	AS9100 REQUIREMENT	The supplier shall have and maintain a Quality System certified by a certification body and accredited by IAQG. Their Quality Management System (QMS) shall comply with the requirements of IAQG standard 9100.
Q85	NDT PROCEDURE / TECHNIQUE SUBMITTAL REQUIREMENT	The NDT Processor is responsible to provide evidence of NDT procedure approval (when required) to the supplier. Only applicable to Boeing St. Louis contracts and / or Purchase Order Memo 9800-1 NDT can be found on the following website: http://www.boeingsuppliers.com/supplier_portal/bdsSiteReqs.html
Q86	CUSTOMER SURVEILLANCE	Work under this order is subject to customer surveillance at supplier's plant. Customer quality control representative may elect to conduct inspection either on a random basis or to the extent of 100 percent inspection. Supplier will be notified if inspection is to be conducted on specific shipments. No shipments are to be held for inspection unless notification is received prior to, or at time of, material being ready for shipment.
Q87	CUSTOMER PRODUCT VERIFICATION	Customer Quality Representative is required to perform product verification at RWN, prior to each shipment. PV activities are based upon flow down of requirements, such as the Prime Contract, potential risk, supplier performance and other factors.
Q88	WORK TRANSFER	Supplier are not permitted to transfer work or subcontract.
Q89	ENVIRONMENTAL REQUIREMENTS	Supplier shall implement an environmental management system to manage the environmental issues related to its activities. Where applicable, supplier shall give necessary information for restricted substances as per REACH regulations.

Q90	NATIONAL QUALITY AUTHORITIES REQUIREMENTS	The Supplier shall make arrangements that allow the National Quality Assurance Authorities (NQAA) and / or National Quality Assurance Representatives (NQAR) to make investigations, necessary to determine compliance of the Goods and processes with requirements of the Contract. The investigations may include; audits, enquiries, questions, discussions and explanations, monitoring, witnessing, inspections and checks. The arrangements shall give positive assistance to the NQAA and / or NQAR. The Supplier shall cooperate in performing the investigation by giving full, free and unconditional access to the Supplier's information and facilities and the Supplier shall implement at its cost and forthwith any recommendations given by the NQAA and / or NQAR.
Q91	D1-4426 SPECIAL PROCESS REQUIREMENTS	When special process is referenced in the Engineering data for articles specified on this purchase document or listed within D1-4426, Manufacturing planning shall be approved by customer prior to commencing manufacture. Upon approval, Seller shall not change the manufacturing planning without first submitting changes to Customer for re-approval.
Q92	RISK MANAGEMENT REQUIREMENTS	The supplier shall plan, implement, and control the processes needed to assure product safety during the entire product life cycle, as appropriate to the organization and the product such as, assessing hazards and management of associated risk, management of safety critical items, analyze and report any occurred event affecting safety of the product, communication of these events and training of persons. Supplier shall be aware of the importance of ethical behavior and maintain and Ethics Policy for employees as it relates to their contribution to product or service conformity and product safety.
Q93	DPAS REQUIREMENTS	This order is a Government rated contract. Federal law requires these orders to take preference over all unrated orders as necessary to meet required delivery dates. Persons receiving rated orders must give them preferential treatment as required under Government Regulations DPAS 15CFR700.
Q94	REVISION REQUIREMENTS	The supplier shall work to the latest process and material revision level unless otherwise specified in RWN purchase orders.