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Heligear Canada Acquisition Corporation d/b/a
Northstar Aerospace (Canada)

NORTHSTAR AEROSPACE
QUALITY CLAUSES

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AMENDMENT RECORD

(For your convenience, new changes or additions will be marked in red print for each updated revision.)

QUALITY CLAUSES ISSUE #	QUALITY CLAUSES ISSUE DATE	REASON FOR AMENDMENT	ORIGINATOR
ISSUE 24	4 JULY 2014	<ul style="list-style-type: none">Revised quality Clause Q006B, Q006C, Q014 and Q030. added Q095 "Apache AB3 Customer Contract Requirements" (US subcontractors only)	Sohail Akhtar
ISSUE 25	2 FEB 2017	<ul style="list-style-type: none">Added Clause Q096 "Rolls Royce Customer Contract Requirements"	Navneet Jha

Heligear Canada Acquisition Corporation d/b/a Northstar Aerospace (Canada)

FOREWORD

This document has been prepared and issued by Heligear Canada Acquisition Corporation d/b/a Northstar Aerospace (Canada) ("Northstar Aerospace") to provide Northstar Aerospace approved Suppliers with instructions and information necessary to satisfy the quality requirements of Northstar Aerospace and their prime customers.

The term "Supplier" used herein shall mean any company approved to fabricate and/or process aerospace material, parts or assemblies from material supplied by Northstar Aerospace Canada Inc, or from material purchased by the Supplier, or to supply aerospace raw materials, proprietary products or services.

All queries raised by the Supplier regarding the contents of this document shall be addressed to the Procurement Department of Northstar Aerospace Canada, 180 Market Drive Milton, Ontario, Canada, and L9T3H5; Telephone (905) 875-4000, Fax (905) 875 -4082

Approved by: _____

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APPENDIX A:
List of Quality Clauses and Applicabilities

A1.0 LIST OF QUALITY CLAUSES and APPLICABILITIES

Clause Number	CLAUSE	APPLICABILITY
Q001	Government / CSA QA is a requirement of this Purchase Order. Arrangements must be made promptly with the Government/ CSA QA Representative for your area or facility, so that appropriate Government QA can be accomplished prior to release authorization.	Government / CSA QA Orders that are Canadian or United States sources only. RMS FOP Orders are applicable to Government QA Orders that are Canadian sources only.
Q002	Government QA is a requirement of this Purchase Order. You will be notified by the Technical Services Section, Canadian Defense Liaison Staff (1 Grosvenor Square, London, England, W1X 0AB) concerning the Government Agency with whom you must make QA arrangements. Quality Requirements: The Contractor's system for Quality Control or Inspection of the work described herein shall be in accordance with ISO-9000.	Government QA Orders into Europe.
Q003	Subcontractor's final Inspection Report is required with each shipment.	Special Processes and sub-contractor machining operations.
Q004	Authenticated quantitative test reports, showing the degree of compliance with applicable specifications regarding physical property test results, together with certification of chemical compositions, are required with each shipment.	Metals, welding rod and Class 2B and 3 castings.
Q005	Authenticated quantitative test reports showing full degree of compliance with applicable specifications required with each shipment.	
Q005A	This material is destined for General Electric Source Substantiated Parts Program and must be tested and certified to respective specification (physical and/or chemical) per requirements of S-1000. This testing must be accomplished at a GE approved S-400 Laboratory.	

Clause Number	CLAUSE	APPLICABILITY
Q006	<p>Certificate of Compliance is required with each shipment, stating the following:</p> <ul style="list-style-type: none"> • Part Number, quantity and Serial Number(s) (as applicable) • Proper description • Purchase Order Number • A statement that the items were manufactured and tested and conform to the applicable Drawings/ Specifications. • Inspection and Test Records accompanying the shipment, or a statement that these documents are available on file. • Actual signature of Authorized Agent of Manufacturer or Laboratory with identification of signer's designation. 	All procurement of aerospace flight items.
Q006A	<p>Certificate of Compliance is required with each shipment, stating the following, but not limited to:</p> <ul style="list-style-type: none"> • BHT Part Number and Nomenclature. • Drawing Revision Letter including any unincorporated Engineering orders ODS or MEPI, physical changes as applicable. • BPS Spec number and revision level. • BHT Purchase order number and change order level. • Parts destination (i.e., Primary, Critical, and Flight Safety). • Any other applicable special instructions. 	All procurement activities involving Bell Helicopter

Clause Number	CLAUSE	APPLICABILITY
Q006B	<p>Machining: Certificate of Compliance is required with each shipment , stating the following , but not limited to:</p> <ul style="list-style-type: none"> • Part Number and revision • Nomenclature • Quantity good and non-conforming • Serial Number(s)(as applicable) • Proper description • Purchase Order number • Purchase Order Line Item (as applicable) • M# (as applicable) <p>M# Refers to Northstar Chicago's M-Order number that is associated with part or parts</p> <ul style="list-style-type: none"> • Northstar Operation number and rev level • Specification & Rev • PSD- Process Specification Departure (as applicable) • Supplier Nonconformance # (as applicable) <p>Any non-conformances found by supplier or created by supplier. If non-conformance was created by supplier then supplier non-conformance number needs to be listed</p> <ul style="list-style-type: none"> • J-Order Number (as applicable) • A statement that the item were manufactured and tested and conform to the applicable, Drawings/Specifications. • Inspection and test records accompanying the shipment, or a statement that these documents are available on file • Actual Signature of Authorized Agent of Manufacturer or Laboratory with identification of signer's designation 	Machining

Clause Number	CLAUSE	APPLICABILITY
Q006C	<p>Certificate of Compliance is required with each shipment, stating the following, but not limited to:</p> <ul style="list-style-type: none"> • Part Number and revision • Nomenclature. • Quantity good and non-conforming • Serial Number(s)(as applicable) • Purchase order number and change order level • M# (as applicable) • Northstar Operation number and rev level • Specification number and revision level • Drawing Revision Letter including any unincorporated Engineering orders • Parts destination (i.e., Primary, Critical, and Flight Safety) • Add technique and any other applicable special instructions • Certificate of compliance need to be signed by competent authority • PSD (as applicable) • Supplier Nonconformance# (as applicable) Any non-conformance found by supplier or created by supplier. If non-conformance was created by supplier non-conformance number needs to be listed • J-Order number (as applicable) If purchase order calls out critical of Flight Safety destination then this needs to be added onto Certificate of Conformance as Critical Safety Item or Flight Safety Part • All parts identified as critical characteristic <CC> shall be 100% inspected in accordance with Q 084 and QE-STD-1 	All procurement, processing activities
Q007	Transport Canada certification is required with each shipment.	
Q008	Radiographic plates are required with each shipment from a laboratory, certified in accordance with D-12-020-001/SF-001 or ASTM E1742. NOTE: Radiographic techniques must be submitted to Northstar Aerospace for approval.	
Q009	Two (2) copies of the radiographic technique is to be supplied for registration in accordance with D-12-020-001/SF-002 prior to production.	DND Orders only.
Q010	Northstar Aerospace Source Verification is required at your facility. Notify Northstar Aerospace 48 hours in advance of the time parts are ready for verification, where in-process Heat Treatment is required prior to Heat Treating.	All applicable Subcontractor machining / processes and purchased items not source-released by Customers of Northstar Aerospace.
Q10A	Northstar Aerospace Source Verification is required at your facility. Notify Northstar Aerospace 48 hours in advance of the time parts are ready for verification.	All applicable Subcontractor machining / processes and purchased items not source-released by Customers of Northstar Aerospace.

Clause Number	CLAUSE	APPLICABILITY
Q011	Cure date shall not exceed three quarters at the time of delivery to Northstar Aerospace.	"O"-Ring gaskets, packing seals, bulk hose. NOTE: Applies to natural rubber only. Not applicable to synthetics.
Q012	Date of assembly containing natural rubber, including hoses, shall not exceed three quarters at the time of delivery to Northstar Aerospace.	Rubber parts repaired or assemblies, overhauled aircraft components containing natural rubber components.
Q013	Supplier's Quality Control System must meet the requirements of Northstar Aerospace's Supplier Quality Assurance Specification (QAS-004).	RMS Orders.
Q014	Not more than 10% of shelf life shall have expired at the time of delivery to Northstar Aerospace.	All orders for material having shelf life requirement shall be labeled with lot#, date of manufacture & date of expiration on all containers, drums, bottles, etc
Q014A	Chemical Testing is required at Northstar Aerospace Canada receiving inspection stage. Receiving inspector to quarantine material as applicable and request for work order to prepare for material testing per Bell specification.	All procurement activities for epoxy / adhesive involving Bell Helicopter.
Q015	This is qualified Product and must originate from a qualified Source. Manufacturer's Approval Number must appear either on parts or on documentation.	All qualified products.
Q016	This order affects a Contract over which the Government / CSA has authority. The Government / CSA reserves the right to inspect any or all of the material included in this order at the Supplier's plant.	All Military and NASA Contracts where Government / CSA QA is not invoked.
Q017	All work on this Order is subject to inspection and testing by the Government / CSA at all times (including the period of performance) and places and in any event, prior to shipment. The Government / CSA Representative who normally services your plant shall be notified 48 hours in advance of the time articles or processes are ready for inspection or test.	Government / CSA QA Orders on United States sources only. Purchase Orders with this clause shall be presented to the DND office for validation prior to distribution.
Q018	GE Aircraft Engines' Specification S-1000 applies to this Purchase Order.	Where S-1000 is invoked to Northstar Aerospace on Purchase Orders from GEAE.
Q019	GE Aircraft Engines' Specification S-1002 applies to this Purchase Order.	Where S-1002 is invoked to Northstar Aerospace on Purchase Orders from GEAE.
Q020	Receiving Inspection at Northstar Aerospace by Standards Room.	Measuring equipment.
Q021	Readings before and after calibration are to be supplied along with extent of adjustments made. If repair is such that readings cannot be taken before calibration, the Certificate should state this. The Certification of Calibration Figures shall be signed by the Authorized Inspector of the testing agency, stating that standards are traceable to NRC or equivalent agency.	Any instrument which is sub-contracted for calibration.
Q022	Packing for transit must be sufficient to prevent physical or corrosive damage. Parts shall not be in physical contact with one another. The use of loose fill for dunnage such as foam peanuts, newspaper, etc is strictly prohibited	All procurements of aerospace or flight items.

Clause Number	CLAUSE	APPLICABILITY
Q022A	The protection and packaging of parts must adhere to Rolls Royce SABRe "Protection, Packaging and Labeling" requirements.	All procurement of mechanical hardware in furtherance of Rolls-Royce Corporation's Purchase Orders.
Q023	The Authorized Agency's Calibration Certificate shall include all points of calibration and shall be signed by the Authorized Inspector of the testing facility. Reference must be made regarding the standards used to obtain readings and calibrations are traceable to NRC or equivalent agency.	
Q024	<p>All Special Processes (i.e., Heat Treat, Plating, NDT, etc.) performed as part of this Purchase Order must be accomplished at a prime Contractor's approved source.</p> <p>Supplier to provide objective evidence that approved source was used. Example of objective evidence can be include the name and address of processor(s) in the C of C or attaching copies of the processors C of C to the package.</p> <p>Customer Special Process Requirements: G.E. – Listed on Website Boeing Helicopters – D1-4426 Boeing Mesa -- D1-4426 and Mesa Approved Vendor List (AVL)</p> <p>AgustaWestland – SQA 80 Bell Helicopter – QPS 101 Rolls-Royce – S.A.S.I. (Process Guide) Sikorsky – Approved Source List for Special Processes and Laboratories and where applicable SS9211.</p> <p>NOTE: This requirement is all-inclusive and applicable to Northstar Aerospace Subcontractors and their sub-tier sources.</p>	When this clause is applicable to a Plating (surface finish) requirement, ensure that Class and Type are included in the Purchase Order.
Q025	FAA Certification is required with each shipment.	Civil aircraft components released from U.S. FAA-approved sources.
Q026	Government QA is required at source. Upon receipt of this Order, promptly notify the Government Representative who normally services your plant, so that appropriate planning for Government QA can be accomplished; if subcontracted to the U.S.A., FAA Certification is required in lieu of Government QA.	Purchase Orders placed on Canadian firms who will, in turn, subcontract to a U.S. division of the company.
Q027	Test specimen(s) shall be processed with each production batch and returned to Northstar Aerospace, along with a statement of test results showing full compliance to the Northstar Aerospace specification.	Special Processes, including Heat Treat, Welding, Metal Bonding, Plating and Peening processes.

Clause Number	CLAUSE	APPLICABILITY
Q028	<p>You are requested to notify Northstar Aerospace of any proposed changes in materials, fabrication methods, or processes previously approved, and obtain written approval from Northstar Aerospace before making the change.</p> <p>When a proprietary item is procured, you are required to notify Northstar Aerospace of changes in materials, fabrication methods, processes, or product operational characteristics prior to delivery.</p>	All MSS subsystem hardware / software Purchase Orders.
Q029	<p>Northstar Aerospace special processes specification matrix must be reviewed to ensure the latest spec configuration is on file at your facility. Contact Purchasing Department for a copy if required.</p> <p>For current clauses & customer specs see WWW.NSAEROXNET.COM</p>	All procurement which involve special processes.
Q030	<p>Record Retention (Material Certificate, Manufacturing Planning, Inspection Records, NDT,X-Ray, Liquid penetrant, MPI Etc.) for Parts Supplied under this Purchase Order are subject to the Specific Requirements per Prime Customer Specification:</p> <p>(a) Boeing: D210-11000-1 (b) G.E.: S1000 (c) Sikorsky: ASQR-01 (d) MacDonald Dettweiler: SS-SG-1008 (e) AgustaWestland: QRS01 (f) Bell Helicopter-TEXTRON: QPS-100 (g) Northrop Grumman: SQAR (h) Rolls-Royce: SABRe (i) Columbia Helicopters: 06-RDE-0116-1</p>	
Q031	<p>THIS IS A FLIGHT SAFETY PART</p> <ul style="list-style-type: none"> • Process Per HS15000 Specification. • Handle and Package with Care. • Sequencing of all Sub-Contracted Operations are Frozen. • Frozen Operations cannot be changed without HS approval. • Certification required with parts. 	All Purchase Order for Hamilton Sundstrand Flight Safety parts.
Q032	<p>Certification of Magnetic Particle Inspection in accordance with ASTM E1444 is required with each shipment from a facility certified in accordance with D-12-020-001/SF-001 or NAS-410.</p>	All Purchase Orders for MPI service.
Q033	<p>Certification of Fluorescent Penetrant Inspection in accordance with ASTM E1417 is required with each shipment from a facility certified in accordance with D-12-020-001 / SF-001 or NAS-410.</p>	All Purchase Orders for FPI service.
Q034	<p>Certification of Cleanliness is required with each shipment.</p>	All Purchase Orders for bearings and electrical components / assemblies to be used in space flight hardware.

Clause Number	CLAUSE	APPLICABILITY
Q035	<p>THIS IS A FLIGHT SAFETY PART</p> <ul style="list-style-type: none"> • Process Per Customer Specifications. • Handle and Package with Care. • Sequencing of all Sub-Contracted Operations are Frozen. • Frozen Operations cannot be changed without Northstar Aerospace approval. • Certification required with parts. 	All Purchase Order for Northstar Aerospace Flight Safety parts.
Q035 A	<p>THIS IS A FLIGHT SAFETY PART</p> <ul style="list-style-type: none"> • Parts are to be processed per specification EPB 17-119 • Parts are to be handled and packaged with care. • All Documentation , Processing certificates shall annotate along with HPs & EPBs revision level • Specify the raw material control and traceability (HP 8-8 requirement for FSPs having critical characteristics • Certification must be provided with parts. • Unless otherwise specified in the contract or work order, suppliers shall be responsible for the performance of all inspection requirement as specified • Frozen Operations cannot be changed without Northstar Aerospace and Boeing Mesa approval. 	FLIGHT SAFETY PART BOEING MESA EPB 17-119
Q036	<p>THIS IS A FLIGHT SAFETY PART</p> <ul style="list-style-type: none"> • Process Per SABRe Specifications. • Handle and Package with Care. • Sequencing of all Sub-Contracted Operations are Frozen. • Frozen Operations cannot be changed without Rolls-Royce approval. • Certification required with parts. 	All Purchase Order for Rolls-Royce Flight Safety parts.
Q037	This material is released in accordance with your approval from Rolls-Royce Corporation to the requirements of SABRe. Your Certificate of Conformance must reference SABRe, and indicate that the products conform to Rolls-Royce Corporation's SABRe, and are traceable to Rolls-Royce approved suppliers (stock-lists) and/or sources (manufacturers).	All procurement of mechanical hardware in furtherance of Rolls-Royce Corporation's Purchase Orders.
Q037A	This material is released in accordance with your approval from Rolls-Royce Corporation to the requirements of SABRe. Your Certificate of Conformance must reference SABRe, and indicate that the products conform to Rolls-Royce Corporation's SABRe, requirements.	All procurement of mechanical hardware in furtherance of Rolls-Royce Corporation's Purchase Orders.

Clause Number	CLAUSE	APPLICABILITY
Q038	This material is released in accordance with your approval from Curtiss-Wright to the requirements. Your Certificate of Conformance must indicate that the products conform to Curtiss-Wright's Quality Requirements, and are traceable to Curtiss-Wright approved suppliers (stock-lists) and/or sources (manufacturers).	All procurement of mechanical hardware in furtherance of Curtiss-Wright's Purchase Orders.
Q039	This material is released in accordance with your approval from Curtiss-Wright to the requirements of Supplier Quality Requirements. Your Certificate of Conformance must indicate that the products have been processed in accordance with Curtiss-Wright's Supplier Quality Requirements and related specifications.	All procurement of mechanical hardware in furtherance of Curtiss-Wright's Purchase Orders.
Q040	Mark Packing Slip with Engineering Revision Level Seller shall record the end item part number, drawing level and engineering changes to which the delivered item has been manufactured on the packing slip.	
Q041	Material, parts or components must be traceable to source of origin. Mill heat number, forging heat number or foundry heat number as applicable. Each mill heat and forging lot shall be traceable to " Individual Ingots From Original Mill Heat ". This is traceability number be reflected on your release documents to Northstar Aerospace (Canada) Inc.	All purchase orders where raw material is procured for Boeing helicopter programs.
Q042	Material, parts or components must be traceable to source or origin by Lot or Batch Number This Traceability Number must be reflected on your release documents to Northstar Aerospace.	All Purchase Orders where raw material is not supplied by Northstar Aerospace, including castings.

Clause Number	CLAUSE	APPLICABILITY
Q046	<p>The supplier shall certify all Inspection, Chemical and Mechanical Tests specified in the material specification, as well as submit test pieces, (2) from each master heat for chemical verification test, and (2) separately cast test bars for each master heat or heat treat lot combination.</p> <p>NOTE: The casting supplier shall ensure that the following data accompany each casting shipment being shipped to Northstar Aerospace:</p> <ul style="list-style-type: none"> • Radiographic ,reader sheets (Radiographic films shall be retained at source as per QO30 • Notarized Certificate of Compliance. • Certification of Non-Destructive Tests (Fluorescent Penetrant or Magnetic Particle Inspection) as applicable. • Hardness Test Results for each casting. • Dimensional Layout Inspection report for First Article Casting. • Test Specimens for chemical composition verification. • Fully heat-treated (separately or integrally) cast tensile test bars. • Details of all heat treatments. • Test Reports. 	Orders for forgings and/or castings.
Q047	<p>Packages or Containers to be Marked: Type I Packages or containers with the "Type I" marking shall not be opened in the Receiving Department area. The containers shall be progressed to the Clean Room Inspection area, as directed by the QA Department, after allocation of the Receiving Slip Number by the Receiver.</p>	Bearings or electrical / electronic components or assemblies to be used in space flight hardware.
Q048	<p>Packages or Containers to be Marked: Type II Packages or containers with the "Type II" marking may be opened in the Receiving Department area and inspected in accordance with Northstar Aerospace's standard procedures.</p>	Space flight hardware to which Q047 is not applied.
Q049	<p>Northstar Aerospace reserves the right to verify quality of any or all materials and services included in this Purchase Order at the Supplier's and their subtier's plant. In addition supplier must provide 'Right Of Entry' to Northstar, their customers and regulatory agencies as required.</p>	All procurements of aerospace flight items.
Q049A	<p>Northstar Aerospace and its Customers reserves the right to verify adherence to D6-51991, any or all materials and services included in this Purchase Order at the Supplier's and their sub-tier's plant.</p>	DPD Recipients.
Q050	<p>First-off part to be Source Verified by Northstar Aerospace QA.</p>	This clause will be applied at QA discretion, where historically warranted or where contractually required by Customer's Purchase Order.

Clause Number	CLAUSE	APPLICABILITY
Q051	<p>Destruct Test Requirements The item(s) on this purchase contract is a destruct test unit. Seller will include on its packing slip a note stating that subject part is destruct test specimen. If item(s) is a process sensitive/critical part, then seller will also include part number(s) and destruct test log number.</p>	
Q052	Bearings or seals supplied under cover of this Purchase Order are to be released in accordance with the General Electric (Lynn) Resident Release Program, and are to be shipped to Northstar Aerospace with a signed GE resident Release Certificate.	All bearing Orders placed on sources listed in GE's Supplier Release Agreement.
Q053	Welders performing work for Northstar Aerospace shall be certified in accordance with SAE AMS-STD-1595 or D-49-001-014 / SF-001.	
Q054	Bearings shall be packaged and marked in accordance with Specification MIL-P-197.	Purchase of aerospace bearings.
Q055	Electrical wire / cable shall meet the requirements of MSC8080 Standard Number 95.	
Q057	<p>“Radiographic Testing for Northstar shall be done by:</p> <ol style="list-style-type: none"> 1) Canadian Supplier with maintain CGSB RT certification per requirement of ISO 48.9712, NAS 410 and additional requirement as set forth by Customer specification. 2) Supplier in other countries RT Certification shall be per NAS-410 & additional Customer requirement as applicable 	
Q058	Radiographic plates are required with each shipment from a laboratory certified in accordance with D-12-020-001 / SF-001 or ASTM E1742.	
Q060	<p>A First Article Inspection in accordance with the requirements of SAE AS9102 shall be performed on a randomly-selected piece of each Part Number produced. The actual measurements of each characteristic generated shall be recorded, and all Drawing Notes shall be verified.</p> <p>First Article Inspection Report must be submitted to Northstar Buyer for Quality approval prior to shipment of parts. Upon receipt of Northstar approval, the part must be tagged and the First Page Of Approved First Article Inspection Report must accompany the initial shipment of each Parts.</p> <p><u>NOTE:</u> Delta FAIR shall be provided when any change to process or method is incorporated and/or any revision to drawing, Part list and or operation sheets is issued. Otherwise FAIR need NOT to be submitted.</p>	All Orders for components / assemblies manufactured to Northstar Aerospace or Customer Specifications / Drawings, which have not been supplied within the previous 2 years or as specified by the customer.
Q062	Item Serial Number shall be listed on Release Notes, Test Reports and Certificates of Compliance.	Subcontract machining or Special Processing of serialized components.
Q063	Vendor shall supply certified Inspection data for verification to Drawing by Northstar Aerospace.	Where documented Inspection Records of actual dimensions are required.

Clause Number	CLAUSE	APPLICABILITY
Q064	All mechanical testing of materials (including weldments) at normal or elevated temperatures (i.e., Stress Rupture, Tension, Compression, Bending or Notched bar types, etc.) shall be accomplished at sources approved by Northstar Aerospace or, where appropriate, Customers of Northstar Aerospace.	
Q065	Chemical and spectrochemical analysis of materials shall be accomplished at sources approved by Northstar Aerospace or, where appropriate, Customers of Northstar Aerospace.	
Q066	A Northstar-approved Lot-by-Lot Inspection Plan shall be developed for each Part Number fabricated. This Plan shall verify characteristics of the finished part prior to shipment. A completed Lot-by-Lot Inspection Report must accompany each lot shipment.	This clause is to be applied at QC discretion or where contractually required.
Q067	<p>Authenticated quantitative test reports showing the degree of compliance with applicable Specifications regarding chemical composition and material physical condition after Casting and final Heat Treatment are required with each Heat Lot of material.</p> <p>Quantities of two (2) test bars are to be submitted at the beginning of each production run.</p> <p>NOTE: Test bars from the same material and heat are to be poured at the same time as the initial production run.</p> <p>NOTE: A production run will be that which is covered by a single Purchase Order.</p> <p>NOTE: The casting Manufacturer shall ensure that the following data accompanies all items shipped to Northstar Aerospace:</p> <ul style="list-style-type: none"> • Radiographic reader sheets (Radiographic films shall be retained at source as per QO30) • Authenticated quantitative test reports • Certificate of Penetrant Inspection • 100% hardness check • Dimensional Layout Inspection Report for First-off casting. 	Castings from companies subject to Casting Manufacture Test Bar Submission Audit.
Q068	All material and services supplied under this Purchase Order are subject to the requirements of Northstar Aerospace's Supplier QA Requirements Specification (QAS-004), ISO-9000, AS9100, or any specific Military Specification, as applicable.	All procurement of aerospace flight items, or other applicable materials, subcontract manufacturing and services and bought-out proprietary items.

Clause Number	CLAUSE	APPLICABILITY
Q069	Release Documents Material is to be released for shipment, using a Certificate of Inspection Release (Form CF1280) or a release document meeting the requirements of DND. The CF1280 or release document shall be prepared by the Contractor and, when properly completed and signed, distributed as directed in the Contract.	All DND material shipped directly from Canadian Subcontractors to DND Consignees.
Q070	Release Documents Material is to be released for shipment using a Material Inspection and Receiving Report (Form DD250). Form DD250 shall be prepared by the Contractor and, when properly completed and signed, distributed as directed in the Contract.	All DND material shipped directly from U.S. Subcontractors to DND Consignees.
Q071	It is a requirement of this Purchase Order that a Statistical Process Control (SPC) system is in operation and will be applied in the manufacture of items subject in this Purchase Order.	
Q072	Source Substantiation is required with this shipment, as per Customer Drawing requirements. All requirements are to be met per Customer specifications.	Where Source Substantiation is contractually required.
Q073	All software used in the Manufacture and/or Inspection of deliverable products is to be controlled to ensure its integrity and assure compliance of the hardware produced. (Ref.: Military Standard DOD-STD-2168).	Components / assemblies manufactured or inspected with the aid of software.
Q075	This material is released in accordance with your AgustaWestland approval to the requirements of SQA-50. The supplier (stockist) and original manufacturer (mill source) must be approved by AgustaWestland, and listed in Appendices I and II of the latest issue of SQA-50. Mill source certification must also be supplied, and referenced on the supplier's Certificate of Conformance.	All procurement of metallic raw materials in furtherance of Agusta-Westland Helicopters Purchase Orders (excluding castings and forgings).
Q076	All castings, forgings and composite materials purchased for Sikorsky Aircraft must comply with "Direct Procurement" requirements of ASQR-01. Sources used for testing must be listed or approved for listing in Sikorsky's Approved List for specific test(s) required. All material procurement must meet Sikorsky Supplier Test Plan Requirements, and referenced on suppliers certificate of conformance.	All material for Sikorsky Contracts. All Special Processes MUST BE SUBCONTRACTED from Sikorsky-approved sources.

Clause Number	CLAUSE	APPLICABILITY
Q077	<p>This part is classified Vital Part and purchased in accordance with SQA-55.</p> <p>This material is released in accordance with the applicable approved WA1954 form and the requirements of WHPS 700 [Control Procedure for Vital and Category "F" Parts].</p> <p>Running totals for frequency qualification "cut-ups" shall be controlled by the foundry/forgemaster and monitored by AgustaWestland's Materials Laboratory via the WA1954 form.</p> <p>Your Certificate of Conformance must reference SQA-55 and specify applicable WA1954 form serial number(s).</p>	All procurement of metallic raw materials (forgings) in furtherance of Agusta Westland Helicopters Purchase Orders.
Q078	This material is released in accordance with your approval from AgustaWestland to the requirements of SQA-85. Your Certificate of Conformance must reference SQA-85 and QRS01, and indicate that the products conform to AgustaWestland's "Requirements for Suppliers", and are traceable to AgustaWestland-approved suppliers (stockists) and/or sources (manufacturers).	All procurement of mechanical hardware in furtherance of Agusta Westland Helicopters Purchase Orders.
Q079	<p>This part is classified as Vital and/or Category "F" part by AgustaWestland Helicopters. Control of the Integrity of these parts at all stages is essential because by definition the failure of Vital and/or Category "F" part in service can cause a catastrophic event such as loss of the aircraft, serious injury or loss of life.</p> <p>All controls and practice related to the manufacture of these parts must comply with AgustaWestland Helicopters' WHPS 700 specification [Control Procedure for Vital and Category "F" Parts].</p>	Procurement of material, machining and/or processing of vital and/or Category "F" parts.
Q080	AgustaWestland-assigned serial numbers must be applied to this part, in accordance with AgustaWestland's drawing requirements. A listing of the specific serial numbers applicable to this order appears in the body of the purchase order.	Procurement of vital / identifiable forgings and/or hardware for AgustaWestland Helicopters, which require serialization per QOP-C12-2.

Clause Number	CLAUSE	APPLICABILITY
Q081	<p>The U.S.A. Fastener Quality Act (Act), (Pub. L. 101-592 as amended by Pub. L. 104-113), requires that certain fasteners sold in commerce conform to the standards and specifications to which they are represented to be manufactured and have been inspected, tested and certified. Such inspection and testing shall be performed by a Laboratory Accredited under National Institute of Standards and Technology (NIST) Accreditation Body Evaluation Program (ABEP) by National Voluntary Laboratory Accreditation Program (NVLAP) in accordance with procedures and conditions specified in Section 6 of the Act. Lab reports designated to accompany all fasteners is not required, but the Certificate of Compliance from the vendor certifying that the vendor will retain a copy of the Lab Report from an accredited laboratory (NIST, ABEP, NVLAP) in accordance with procedures and conditions specified in Section 6 of the U.S.A. Fastener Quality Act (Act)).</p>	<p>- A screw, nut, bolt or stud or a load bearing washer or washer covered by specification applicable to screw / nut / bolt / stud.- Fastener made from metal.- Uniformly heat treated.- Greater than 5 mm or 0.25 inch diameter, or marked with grade ID mark.- Produced to design or specification published by CSO.- Manufactured after 27-May-1997.- Sold as a fastener in its own right, i.e., not embodied into a product.</p>
Q082	<p>This part is classified as Critical / Flight Safety / Safety Critical or Significant.</p> <p>Control of the integrity of these parts at all stages is essential as a failure of critical part in service can cause a catastrophic event such as a loss of aircraft, serious injury or loss of life.</p> <p>All controls and practice related to the manufacture of these parts must comply with applicable customer's specification. Refer to NAGT QAS 004 [Quality Assurance Requirement Specification for details of controlling specifications].</p>	<p>Procurement of material, machining and/or processing of Critical / Flight Safety / Safety Critical or Significant parts.</p>
Q083	<p>WARRANTY PERIOD The warranty time period following buyer final acceptance of the goods delivered shall extend for a one year period.</p>	<p>All procurement of components such as pumps or other complete sub-assemblies.</p>

Clause Number	CLAUSE	APPLICABILITY
Q084	<p>THIS IS A CRITICAL SAFETY ITEM/FLIGHT SAFETY PART AND/OR CONTAINS CRITICAL OPERATIONS</p> <ul style="list-style-type: none">• Parts are to be processed per QE-STD-1 / QE-STD-2 specification:• Parts are to be handled and packaged with care.• Sequencing of all Sub-Contracted Operations are Frozen• Frozen Operations cannot be changed without Northstar Aerospace and AMCOM approval.• Frozen Manufacturing Plans must be reviewed yearly (minimum).• Evidence of yearly Frozen Manufacturing Plan Review must be submitted to Northstar Aerospace for review and approval.• Certification must be provided with parts.• All parts identified as critical characteristic shall be 100% inspected in accordance to QE-STD-1	All Purchase Order for AMCOM parts.

Clause Number	CLAUSE	APPLICABILITY
Q085	<p>PREFERENCE FOR DOMESTIC SPECIALTY METALS (June 2005) "Buy American Act – Trade Agreements", FAR 52.225.9.</p> <p>(a) Definition: As used in this clause –</p> <ol style="list-style-type: none"> 1) "Qualifying country" means any country listed in subsection 225.872-1 of the Defense Federal Acquisition Regulation Supplement. (2) "Specialty metals" means – <ol style="list-style-type: none"> (i) Steel – (A) With a maximum alloy content exceeding one or more of the following limits: manganese, 1.65 percent; silicon, 0.60 percent; or copper, 0.60 percent; or (B) Containing more than 0.25 percent of any of the following elements: aluminum, chromium, cobalt, columbium, molybdenum, nickel, titanium, tungsten, or vanadium; <ol style="list-style-type: none"> (ii) Metal alloys consisting of nickel, iron-nickel, and cobalt base alloys containing a total of other alloying metals (except iron) in excess of 10 percent; (iii) Titanium and titanium alloys; or (iv) Zirconium and zirconium base alloys (b) Any specialty metals incorporated in articles delivered under this contract shall be melted in the United States or its outlying areas. (c) This clause does not apply to specialty metals – <ol style="list-style-type: none"> (1) Melted in a qualifying country or incorporated in an article manufactured in a qualifying country; or (2) Purchased by a subcontractor at any tier. <p style="text-align: center;">(END OF CLAUSE)</p> <p>ALTERNATE I (April 2003) As prescribed in 225.7002-3(b)(2), substitute the following paragraph (c) for paragraph (c) of the basic clause, and add the following paragraph (d) to the basic clause:</p> <ol style="list-style-type: none"> (c) This clause does not apply to specialty metals melted in a qualifying country or incorporated in a qualifying country. (d) The Contractor shall insert the substance of this clause, including this paragraph (d), in all subcontracts for items containing specialty metals. 	<p>Applicability– Procurement of specialty metals for all Military Contracts.– This applies to all components, hardware, bar stock, casting and forging for Military Contracts.– Specialty Metals identified in the clause, including titanium and stainless steel.– If a distributor or other sub-tier supplier is the source of material, ensure that this clause is flow down to sub-tier supplier.</p>

Clause Number	CLAUSE	APPLICABILITY
Q085A	Specialty metal that is melted in a non-qualifying country, must be tested and certified to respective specification (physical and/or chemical), by an independent laboratory from U.S.A. or qualifying country. (For GE's Program, see Clause Q005A).	See Q085 above.
Q086	Rolls-Royce, supplier advanced business relationship, SABRe, requirements applies to this Purchase Order. Access SABRe online at : http://www.suppliermanager-online.com/sabre/default.html	Where SABRe is invoked to Northstar Aerospace Canada on purchase orders from Rolls-Royce.
Q087	A paint colour standard shall be required with every new paint order.	First order for paint where a paint colour standard is not available at Cambridge Chemical Lab.
Q088	Unless otherwise a technical plan is previously approved for the same part(s), Vendor must create a technical plan for this part to be submitted and approved by Northstar prior to processing of these parts.	Applicable to sub-contracted special processes (i.e., Heat Treat, NDT, Painting, Coating, EDM, Welding, Shot Peen, etc.).
Q089	THIS IS A FLIGHT SAFETY PART <ul style="list-style-type: none"> • Process Per Sikorsky Aircraft Specifications (SS9211). • Handle and Package with Care. • Sequencing of all Sub-Contracted Operations are Frozen. • Frozen Operations cannot be changed without Sikorsky Aircraft approval. • Certification required with parts. 	All Purchase Order for Sikorsky Aircraft Flight Safety parts.
Q090	All materials and services supplied under this purchase order are subject to the requirement of Rolls-Royce RRES 90000 "Engineering Control of manufacturing source and method	All Rolls-Royce Classified parts or Critical parts
Q091	APPROVED MATERIALS SUBSTITUTION LIST If any of the materials required by a Boeing drawing not available, Seller may refer to drawing number IG50100, Approved Substitute or Alternate list for Materials and Process (ASAL), to determine if there is an authorized equivalent material. Unless specified otherwise elsewhere in this contract, drawing number IG50100 is Buyer's authorization for Seller to use the authorized equivalent material. If there is no authorized equivalent or if additional clarification is desired Seller should contract buyer's Authorized Procurement Representative	This applies only if this contract incorporates any of the Buyer's Boeing production design drawings with the following basic part numbers: IGxxxxx,-4Gxxxxx

Clause Number	CLAUSE	APPLICABILITY
Q092	Parts being processed and during storage are subject to the corrosion protection requirements of Rolls- Royce Specification EMS17.	All Rolls-Royce Corporation parts.
Q092A	Parts being processed and during storage are subject to the corrosion protection requirements of Rolls- Royce Specification RPS367.	All Rolls-Royce PLC parts.
Q093	The requirements of UTC Aerospace specifications ASQR-01 and HSM-19 are applicable to this purchase order.	All suppliers and subcontractors that provide UTC Aerospace materials or special processing.
Q094	Supplier Quality Control System must meet the requirement of Boeing BDS seller special tooling requirement D950-11059-1	Applicable to sub-contractor in possession of Boeing supplied/owned tooling

Q095

Apache Customer Contract Requirements (US Subcontractors only)

10.24.13



Apache AB3 Customer Contract Requirements (US subcontractors)

W58RGZ-09-C-0147, W58RGZ-09-C-0161, W58RGZ-12-C-0113, W58RGZ-12-C-0055, W58RGZ-12-C-0089, W58RGZ-13-C-0106

FAR/DFAR Clause	Clause Description
252.203-7001	Prohibition on Persons Convicted of Fraud or Other Defense-Contract-Related Felonies
252.203-7004	Display of Fraud Hotline Poster(s). ^(a)
252.204-7000	Disclosure of Information
252.204-7008	Requirements for Contracts Involving Export-Controlled Items
252.211-7000	Acquisition Streamlining
252.211-7003	Item Identification and Valuation.
252.223-7002	Safety Precautions for Amunitions and explosives
252.225-7006	Quarterly Reporting of Actual Contract Performance Outside the United States
252.225-7007	Prohibition on Acquisition of United States Munitions List Items from Communist Chinese Military Companies. ^(a)
252.225-7009	Restriction on Acquisition of Certain Articles Containing Specialty Metals
252.225-7013	Duty-Free Entry.
252.225-7016	Restriction on Acquisition of Ball and Roller Bearings
252.225-7025	Restriction on Acquisition of Forgings
252.226-7001	Utilization of Indian Organizations, Indian-Owned Economic Enterprises, and Native Hawaiian Small Business Concerns
252.227-7013	Rights in Technical Data--Noncommercial Items
252.227-7014	Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation
252.227-7015	Technical Data--Commercial Items
252.227-7016	Rights in Bid or Proposal Information
252.227-7019	Validation of Asserted Restrictions--Computer Software
252.227-7037	Validation of Restrictive Markings on Technical Data
252.227-7038	Patent Rights—Ownership by the Contractor (Large Business). ^(a)
252.228-7001	Ground and Flight Risk
252.228-7005	Accident Reporting and Investigation Involving Aircraft, Missiles, and Space Launch Vehicles
252.229-7011	Reporting of Foreign Taxes – U.S. Assistance Programs
252.235-7003	Frequency Authorization
252.244-7000	Subcontracts for Commercial Items and Commercial Components (DoD Contracts). ^(a)
252.246-7003	Notification of Potential Safety Issues
252.247-7023	Transportation of Supplies by Sea
252.247-7024	Notification of Transportation of Supplies by Sea
52.203-12	Limitation on Payments to Influence Certain Federal Transactions
52.203-13	Contractor Code of Business Ethics and Conduct.
52.203-15	Whistleblower Protections Under the American Recovery and Reinvestment Act of 2009
52.203-6	Restriction on Sub Contractor Sales to Government
52.203-7	Anti-Kickback Procedures
52.204-2	Security requirements
52.204-9	Personal Identity Verification of Contractor Personnel
52.208-4700	Wood Packaging and Material Requirements
52.209-6	Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment
52.215-12	Subcon certification of Cost price data
52.215-14	Integrity of Unit prices
52.215-15	Pension adjustment and Asset Reversion
52.215-18	Reversion or adjustment for plans for post retirement (non-pension)
52.215-19	Notification of Ownership Changes.
52.222.20	Walsh-Healey Public Contracts Act.
52.222.21	Prohibition of Segregated Facilities.
52.222.26	Equal Opportunity
52.222.35	Equal Opportunity for Veterans
52.222.36	Affirmative Action for Workers with Disabilities
52.222.37	Employment Reports on Veterans
52.222.40	Notification of Employees Rights under the National Labour Relations
52.222-50	Combating Trafficking in Persons.
52.222-54	Employment Eligibility Verification.
52.222-99	Notification Of Employee Rights Under The National Labor Relations Act. (DEVIATION 2010-00013) (JUN 2010) ^(a)
52.223-11	Ozone Depleting substances
52.223-18	Encouraging Contractor Policies to Ban Text Messaging While Driving.
52.224-6	Subcontracts for Commercial Items.
52.225-13	Restrictions on Certain Foreign Purchases
52.227-1	Authorization and Consent
52.227-11	Patent Rights - Ownership by the Contractor
52.227-2	Notice and Assistance Regarding Patent and Copyright Infringement.
52.230.2	Cost Accounting Standards
52.230-6	Administration of Cost Accounting Standards.
52.234-1	Industrial Resources Developed Under Defense Production Act Title III
52.243-1	Industrial Resources Developed Under Defense Production Act Title III.
52.244-6	Subcontracts for Commercial Items.
52.245-1	Government Property
52.247-63	Preference for US Flag Air Carrier
52.247-64	Preference for Privately Owned U.S.-Flag Commercial Vessels
52.219-9	Small Business Subcontracting plan

Web links for FAR and DFAR clauses:

The DFARs website is: <http://www.acq.osd.mil/dpap/dars/dfars/html/r20110916/tochtml.htm>The FARs website is: <http://www.acquisition.gov/far/>

Q096

Rolls-Royce Customer Contract Requirements

Clause	Clause Description
52.202-1	Definitions
52.203-3	Gratuities
52.203-5	Covenant against Contingent Fees
52.203-6	Restrictions on Sub-Contractor Sales to the Government
52.203-7	Anti Kickback Procedures
52.203-8	Cancellation, Rescission and Recovery of Funds for Illegal or Improper Activity
52.203-10	Price or Fee Adjustment for Illegal or Improper Activity
52.203-11	Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions
52.203-12	Limitation of Payments to Influence Certain Federal Transactions
52.204-10	Reporting Executive Compensation and First-Tier Subcontract Awards
52.208-9	Contractor use of Mandatory Sources of Supply
52.209-5	Certification Regarding Responsibility Matters
52.209-6	Protecting the Government's Interest when Subcontracting with Contractors Debarred, Suspended or Proposed for Debarment
52.211-5	Material Requirements
52.211-16	Variation in Quantity
52.214-34	Submission of Offers in the English Language
52.215-2	Audit and Records-Negotiation
52.215-6	Place of Performance
52.215-10	Price Reduction for Defective Cost or Pricing Data
52.215-11	Price Reduction for Defective Cost or Pricing Data - Modifications
52.215-12	Subcontractor Cost or Pricing Data
52.215-13	Subcontractor Cost or Pricing Data Modifications
52.215-14	Integrity of Unit Prices
52.215-15	Pension Adjustments and Asset Reversions
52.215-16	Facilities Capital Cost of Money
52.215-18	Reversion or Adjustment of Plans for Post Retirement Benefits (PRB) other than Pensions
52.215-19	Notification of Ownership Changes
52.215-20	Requirements for Cost or Pricing Data or Information Than Cost or Pricing Data
52.215-21	Requirements for Cost or Pricing Data or Information Than Cost or Pricing Data - Modifications
52.215-22	Limitations on Pass-Through Charges - Identification of Subcontract Effort
52.215-23	Limitations on Pass-Through Charges
52.217-7	Option for Increased Quantity - Separately Priced Line Item
52.222-1	Notice to the Government of Child Labor Disputes
52.222-19	Child Labor - Cooperation With Authorities and Remedies
52.222-29	Notification of Visa Denial
52.223-3	Hazardous Material Identification and Material Safety Data
52.223-7	Notice of Radioactive Materials
52.223-11	Ozone-Depleting Substances
52.225-7	Waiver of Buy American Act for Civil Aircraft and Related Articles
52.225-8	Duty-Free Entry
52.225-13	Restrictions on Certain Foreign Purchases
52.227-1	Authorization and Consent
52.227-2	Notice and Assistance Regarding Patent and Copyright Infringement
52.227-6	Royalty Information
52.230-4	Consistency in Cost Accounting Practices Extras
52.232-11	Extras
52.234-1	Industrial Resources Developed under Defense Production Act Title III
52.242-1	Notice of Intent to Disallow Costs

52.242-15	Stop-Work Order
52.244-6	Subcontracts for Commercial Items
52.245-2	Government Property Installation Operation Services

52.246-2	Inspection of Supplies - Fixed Price
52.246-4	Inspection of Services - Fixed Price
52.246-11	Higher-Level Contract Quality Requirement
52.246-16	Responsibilities for Supplies
52.246-23	Limitation of Liability
52.246-24	Limitation of Liability -- High Value Items
52.246-25	Limitation of Liability -- Services
52.248-1	Value Engineering
52.249-2	Termination for Convenience of the Government
52.253-1	Computer Generated Forms

The following clauses from the US "Department of Defense FAR Supplement" are incorporated herein by reference:

252.201-7000	Contracting Officer's Representative
252.203-7001	Prohibition on Persons Convicted of Fraud or Defense-Contract-Related Felonies
252.204-7000	Disclosure of Information
252.204-7003	Control of Government Personnel Work Product
252.205-7000	Provision of Information to Cooperative Agreement Holders
252.209-7004	Subcontracting with Firms that are Owned or Controlled by the Government of a Terrorist Country
252.211-7003	Item Identification and Valuation
252.215-7000	Pricing Adjustments
252.217-7028	Over and Above Work
252.225-7028	Exclusionary Policies and Practices of Foreign Governments
252.225-7033	Waiver of UK Levies
252.225-7041	Correspondence in English
252.227-7013	Rights in Technical Data -- Non Commercial Items and Alternate I
252.227-7016	Rights in Bid or Proposal Information
252.227-7027	Deferred Ordering of Technical Data or Computer Software
252.227-7037	Validation of Restrictive markings on technical Data
252.229-7008	Relief from Import Duty
252.231-7000	Supplemental Cost Principles
252.243-7001	Pricing of Contract Modifications
252.246-7001	Warranty of Data
252.246-7003	Notification of Potential Safety Issues
252.247-7023	Transportation of Supplies by Sea