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# ATTACHMENT 1 FOR QAP1.6 PURCHASING QUALITY CLAUSES

Date	Rev	Revision History	Approval
4/23/2015	В	Complete review and revised	John Spiotta
8/26/2015	С	Added QPC-027 NTW Make Complete	John Spiotta
8/28/2015	D	Amended Cage Code Marking Requirements	John Dill
4/4/2016	Е	Added QPC 028	John Spiotta
4/4/2017	F	Review and revised	John Spiotta
6/14/2017	G	Amended QPC-003RI	John Spiotta
4/6/2018	Н	Amended QPC-006, Remove 'NTW make complete' column	John Spiotta
5/9/2018	J	Amended QPC-006, QPC-006A. Deleted QPC-019, QPC-027	John Spiotta
6/12/2018	K	Amended QPC-014A(DQR stamp requirement)	John Spiotta
7/2/2018	L	Amended QPC-003S; Changed ASQR-01 to SSQR-01.	John Spiotta
4/29/2019	M	Amended QPC-006A, Title and #8) Flight safety record retention requirements	John Spiotta
4/15/2020	N	Amended QPC-003G, Changed UTC to Collins, Added Paint And Prime Certification Requirements	John Dill
9/30/2021	О	Amended QPC-003G, 003O and 004 Changed LS-SBU-A001-SQA is now superseded by LS-SBU-A001-SQM	John Dill
3/29/2022	P	Added QPC-003NG-LG For AIM3069, AIM3070, AIM3071, AIM3072 Direct To NGC From AIM.	John Dill
5/10/2023	Q	Updated QPC-003RI removed obsolete website , added curent website: https://utasweb.utc.com/aerostructuresapps/	John Dill
6/14/2023	R	Added QPC-003GKN/ FOK/LG for new customer GKN AEROSPACE / FOKKER LANDING GEAR.	John Dill
8/21/2023	S	Added QPC-003DLA.	John Dill
10/13/2023	Т	Added QPC-029 For Shelf Life Items	John Dill
12/18/2023	U	Added QPC-030 Material cannot be cut from a larger stock thickness or diameter.	John Dill

	2/15/	2024		V		Added QPC-003SAFRAN for SAFRAN LANDING SYSTEMS CANADA INC	John Dill
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			APM PACO	Materia	, 210°C	MRO Hardwate	
				Specif	al Proce	* 15g	
QPC-001	X	X				Note grain direction requirement. Grain must be clearly indicated on the material and on all documentation. Failure to do so may be cause for rejection.	
QPC-002	X	X	X	X		Purchase orders shall be acknowledged / Confirmed with the Air Industries buyer via e-mail or the fax number noted on the purchase order.	

QPC-003V	X	X		X	VOUGHT, This item is being purchased in support of Vought Aircraft. All processing sources must be approved and comply to Vought requirements.	
QPC-003NG	X	X	х	х	NORTHROP/GRUMMAN, This item is being purchased in support of Northrop Grumman Integrated Systems. All processing sources must be Northrop Grumman approved. Any seller-supplied raw material must be compliant with specification GS30BF (Substitution List), when invoked by engineering. Unauthorized substitution is not permitted, and will be cause for rejection. Quality requirements are located within the Northrop Grumman Supplier Quality Assurance Requirements (SQAR) Manual and SQAR supplements, revisions in effect on date of purchase order. A later revision may be utilized at the convenience of supplier without impact to Air Industries. A copy of SQAR and SQAR supplements can be obtained from Air Industries purchasing department.  Verify part marking requirements with Air Industries purchasing department.	
QPC-003NG-LG	X	X	X	X	NORTHROP GRUMMAN, This item is being purchased in support of Northrop Grumman Aerospace Sector.  The Current Design Activity is Collins Aerospace Landing Systems (Cage Code 13002).  This purchase order is subject to Collins Aerospace Landing Systems Document 200 (latest revision) for special processing approved sources, LS-SBU-A001-SQM (latest revision), and ASQR 01 (latest revision). These documents can be obtained from Air Industries purchasing department.  Requirement for any suppliers supplying parts with paint and primer, sealant etc: C of C from Processor with actual C of C of material used (paint, primer, thinners, etc), including lot or batch ID from the actual certification to be stated on the process certification. A copy of the material (paint, primer, thinners, etc) certification must be provided along with the processing certification.  Quality requirements are located within the Northrop Grumman Supplier Quality Assurance Requirements (SQAR) Manual and SQAR supplements, revisions in effect on date of purchase order. A later revision may be utilized at the convenience of supplier without impact to Air Industries. A copy of SQAR and SQAR supplements can be obtained from Air Industries purchasing department.  Verify part marking requirements with Air Industries purchasing department.	
QPC-003S	X	X		X	SIKORSKY, This item is being purchased in support of Sikorsky Aircraft. All processing sources must be approved and comply to Sikorsky requirements. Supplier C of C and certifications must state "These parts are for Sikorsky Aircraft and meet all of the requirements of Sikorsky SSQR-01 Document".	

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QPC-003LM	X	X	X	X	LOCKHEED MARTIN, This item is being purchased in support of Lockheed Martin. All processing sources must be approved and comply to Lockheed Martin requirements. "Processing to be accomplished in performance of this purchase order is directly related to a Lockheed Martin Aeronautics Company purchase order and must be accomplished in accordance with process specification(s) on this purchase order and the revision in effect as of the date of this purchase order of Lockheed Martin Aeronautics Company Appendix QJ, QR,QX . All requirements of such Appendix QJ paragraph 12. a f. shall be accomplished. Appendix QJ,QR,QX can be located at http://www.lockheedmartin.com	
QPC-003G	X	X	X	X	COLLINS AEROSPACE LANDING SYSTEMS, This item is being purchased in support of Collins Aerospace Landing Systems. All processing sources must be approved and comply with Collins Aerospace Landing Systems requirements. This purchase order is subject to Collins Aerospace Landing Systems Document 200, Latest Revision, Titled "Collins Aerospace Landing Systems Document LS-SBU-A001-SQM and ASQR 01 Latest Revision, Titled "Supplier Quality Requirements. "Document 200, LS-SBU-A001-SQM and ASQR 01 can be obtained from Air Industries purchasing department.  Supplier of make complete parts shall mark parts for military programs with Cage Code MFR 6K4C8. Commercial parts do not require Cage Code marking.  "Requirement for any suppliers supplying parts with paint and primer, sealant ect. C of C from Processor with actual C of C of material used: paint, primer, thinners etc."  "To satisfy this requirement Collins LS requires the Lot or Batch # from the actual Paint or Primer Certification to be stated on the processing certification. A copy of the Paint and or Primer Certification must be provided along with the processing certification."	
QPC-003O	X	X		X	ONTIC, This item is being purchased in support of Ontic Engineering and Manufacturing Inc. All processing sources must be approved and comply to Goodrich requirements. This purchase order is subject to Goodrich's Document 200, Latest Revision, Titled "Goodrich Approved Processors" and Goodrich's Document LS-SBU-A001-SQM and ASQR 01, Latest Revision, Titled "Supplier Quality Requirements. "Document 200, LS-SBU-A001-SQM and ASQR 01 and Document LS-SBU-A001-SQM can be obtained from Air Industries purchasing department. Prior to marking parts suppliers must contact Air Industries Machine Quality Department to confirm correct part marking information.	

QPC-003B	X	X		X	<b>BOEING</b> , This item is being purchased in support of the Boeing Company. All processing sources must be approved and comply to Boeing requirements. Approved Process Sources D1-4426 and BAC Specification Revision Index.	
QPC-003L	X	X			LATECOERE, This item is being purchased in support of Latecoere / Boeing All processing sources must be approved and comply to Boeing requirements.	
QPC-003RI	х	X	х	X	GOODRICH AEROSTRUCTURES (ROHR INC.), this item is being purchased in support of Goodrich Aerostructures (Rohr Inc.). All processing sources must be approved and comply to Goodrich Aerostructures (Rohr Inc.) requirement's. This purchase order is subject to Goodrich Aerostructures (Rohr Inc.) ASQR-01, ASQR-01-AA and ASGSQR-003 Latest Revision. Goodrich Aerostructures (Rohr Inc.) ASQR-01, ASQR-01-AA and ASGSQR-003 can be located at https://utasweb.utc.com/aerostructuresapps/. Supplier of make complete parts must contact AIM Quality Department prior to part marking for latest cage codes requirements.  Note: To access the website https://utasweb.utc.com/aerostructuresapps/ each user shall have an LDAP assigned number.	
QPC-003GKN/ FOK/LG	X	X	X	X	GKN AEROSPACE / FOKKER LANDING GEAR, This item is being purchased in support of GKN Aerospace / Fokker Landing Gear. This purchase order is subject to GKN Aerospace / Fokker Landing Gear Supplier Quality Requirements QM002, QM025, QM030, and QM088 Latest Revision as applicable. The latest revision of the documents can be obtained at the following website:  https://www.gknaerospace.com/en/utilities/gkn-aerospace-suppliers/fokker/ All processing sources must be approved and comply with GKN Aerospace / Fokker Landing Gear Approved Source List (ASL). A copy of the ASL can be obtained by request from Air Industries Purchasing Department.  Verify part marking requirements with Air Industries Purchasing Department.	
QPC-003DLA / Collins	X	X	X	Х	<b>DLA AVIATION,</b> This item is being purchased in support of DLA Aviation.  **Any specifications controlled by Collins Aerospace LS shall have the processing sources approved and comply with Collins Aerospace Landing Systems requirements as follows: Collins Aerospace Landing Systems Document 200, Latest Revision, Titled "Collins Aerospace Landing Systems-Approved Processors", Collins Aerospace Landing Systems Document LS-SBU-A001-SQM and ASQR 01 Latest Revision, Titled "Supplier Quality Requirements. "Document 200, LS-SBU-A001-SQM and ASQR 01 can be obtained from Air Industries purchasing department.  Supplier of make complete parts shall mark parts for military programs with Cage Code MFR 2M490	

QPC-003DLA / Boeing	X	X	X		X	<b>DLA AVIATION</b> , This item is being purchased in support of DLA Aviation.  **Any specifications controlled by Boeing shall have the processing sources approved and comply with Boeing requirements as follows: .Approved Process Sources D1-4426 and BAC Specification Revision Index.  Supplier of make complete parts shall mark parts for military programs with Cage Code MFR 2M490	
QPC- 003SAFRAN	X	X	X	Х	X	SAFRAN, This purchase order is for a Safran Landing Systems Contract and the requirements of Safran Landing Systems GRP-0087 and SREQ-SLS-001 apply. All Subcontractors and raw material suppliers must be Safran Landing Systems approved. Hardware with Safran landing systems or Boeing Drawing must be procured from a Safran DK6000 approved supplier. By accepting this purchase order, the production supplier guarantees conformity to all of the Safran Landing Systems' applicable quality requirements which have been defined and transmitted by DK6000. The DK6000 Quality requirements can be reviewed at the following website: https://dk6000.mbd.safran.fr/DK6000/index.do  Verify part marking requirements with Air Industries Purchasing Department.	
QPC-004	X	X	X			Copies of all material (mill certs), processing and test certificates must accompany each shipment of product(s) as required by the engineering drawing and applicable specifications (i.e. C of C). All special processes are to be performed by sources approved by the prime customer, conform to the latest revision level of the process specification and/or unique prime customer specifications (i.e. Northrop/Grumman-GS30BF sub. list, Goodrich LS-SBU-A001-SQM, Boeing D-590 & D1-4426, Latecoere, Sikorsky, etc)	
QPC-005	X	X				This purchase order is being issued for administrative purposes, to facilitate the receipt of consigned material from the customer.	

QPC-006	X	X	X	X	X	Performance of this order is subject to AS9100 Requirements:	
						Information for external providers (AS9100):  A) Air Industries requires that the External Provider shall maintain the proper identification and revision status of specifications, drawings, process requirements, inspection/verification instructions and other relevant technical data.  B) Air Industries reserves the right of final approval of product and services, methods processes and equipment, and the final release of products and services.  C) Air Industries requires that all special processes required by this purchase order must be performed by competent qualified personnel	
QPC-006A	X	X	X	X	X	D) Air Industries reserves the right to identify the requirements for interaction with our external providers including.  1. The use of interactive documentation.  2. The use of email/Fax  3. Documented confirmation methods of all verbal interactions.  E) Air Industries reserves the right to monitor our external provider's performance including.  1. Supplier Risk  2. Quality of product or service delivered.  3. On time delivery of product or service.  F) Air Industries reserves the right to designate requirements for verification or validation activities that we or our customer,	
						intend to perform at the external providers' premises G) Air Industries reserves the right to approve or specify any designs, tests, inspection plans, verifications, criteria for design and development required by Air Industries from an external provider. H) Air Industries reserves the right to approve or specify any special requirements, critical items, or key characteristics. I) Air Industries reserves the right to approve or specify any test, inspection, and verification (including production process verification) J) Air Industries reserves the right to approve or specify the use of statistical techniques for product acceptance and related instructions for acceptance by Air Industries.	

QPC-006A (Continued)	X X	X	X	Information for external providers (AS9100)(Continued)  K) Air Industries reserves the right to require the need from External providers to:  1. Implement a Quality Management System and we reserve the right to review and approve the External Providers Quality Management System.  2. Require that the External Provider uses customer-designated or approved external providers, including process sources (e.g., special processes)  3. Require the External Provider to notify Air Industries of nonconforming product or services immediately upon discovery, and obtain Air Industriesal approval for nonconforming product disposition.  4. Wherever applicable Air Industries reserves the right to require external providers to show evidence of processes to prevent the use of counterfeit parts.  5. The External Provider is required to: Notify Air Industries of changes in product and/or process, changes of suppliers, and changes of manufacturing facility locations, Air Industries reserves the right to approve such changes.  6. All External Providers are required to: Flow down to the supply chain the applicable requirements including customer requirements.  7. Air Industries reserves the right to require External Providers to provide test specimens for design approval, inspection/verification, investigation, or auditing.  8. Air Industries requires that all External Providers are to retain all records associated with the purchase orders for a minimum of 10 years, (40 years for flight safety purchase orders) or as required by contract. Air Industries requires the disposition of such documents to be controlled in accordance with the requirements of applicable QMS's.  L) Air Industries reserves the right of access by our representatives, our customers, and any regulatory authorities to the applicable areas of all facilities, at any level of the supply chain, involved in the order and to all applicable records  M) Air Industries reserves the right to require and request evidence of External Providers ensuring that their personal are aw	
QPC-006B	X	X		When a key characteristic is required by the engineering drawing, operation sheet and/or purchase order, the key characteristic shall be placed under statistical process control (SPC) utilizing a form. The data and charts must be forwarded to Air Industries Quality Assurance Department for analysis with each shipment of parts. If a supplier does not have the ability to perform SPC, contact the Air Industries buyer immediately prior to starting any manufacturing process.	

QPC-007			• Except as noted below, all ball and roller bearings and ball and roller bearing components (including miniature and instrument ball bearings) delivered under this contract either as end items or components of end items, shall be wholly manufactured in the United States, its outlying areas, or Canada. Unless otherwise specified, raw materials, such as preformed bar, tube or rod stock and lubricants, need not be mined or produced in the United States, its outlying areas or Canada.  • This restriction does not apply to ball or roller bearings that are acquired as components if the end items or components containing ball or roller bearings are commercial items; or the ball or roller bearings are commercial components manufactured in the United Kingdom.  • The commercial item exception in paragraph above does not include items designed or developed under a Government contract if the end item is bearings or bearing components.  • The contractor shall retain records showing compliance with this restriction until 3 years after final payment and shall make the records available upon request of the Contracting Officer.  • The contractor shall insert the substance of this clause, including this paragraph, in all subcontracts, except those for (1) commercial items other than ball or roller bearings; or (2) items that do not contain ball or roller bearings	
QPC-008	X	X	DFARS 252.225-7014, Preference for Domestic Specialty Metals, is incorporated into this purchase order by reference.  • Definitions. As used in this clause  (1) "Qualifying end country" means any country listed in subsection 225.872-1 of the DFARS.  (2) "Specialty metals" means -  a) Steel with a maximum alloy content exceeding one or more of the following limits: manganese, 1.65%, silicon or copper,  0.60% or containing more than 0.25% of any of the following elements: aluminum, chromium, cobalt, columbium, molybdenum, nickel, titanium, tungsten, or vanadium.  b) 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;  c) Titanium and titanium alloys  d) Zirconium and zirconium base alloys.  • Any specialty metals incorporated in articles delivered under this contract shall be melted in the United States or its outlying areas.  • This clause does not apply to specialty metals melted in a qualifying country or incorporated in an article manufactured in a qualifying country. In accordance with DFARS 225.872-1, qualifying countries are: Australia, Belgium, Canada, Denmark, Egypt, Federal Republic of Germany, France, Greece, Israel, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom of Great Britain and Northern Ireland.  • The Contractor shall insert the substance of this clause, including this paragraph (d), in all subcontracts for items containing specialty metals	

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QPC-009	X		X		The Supplier shall notify Air industries within 24 hours of any changes in product and/or process definition and, where required, obtain organization approval.	
QPC-010	X		х		NOTE REGARDING SUBCONTRACT MACHINING: If the supplier is being contracted or ordered by AIR INDUSTRIES MACHINING and does not have the qualifications needed to perform the work, Supplier is not authorized to subcontract any portion of the work scope without written authorization from the cognizant AIM purchasing agent. This restriction includes grinding operations, which may be source-controlled or prohibited by the prime Customer.	
QPC-011	X		X		All special processes of the purchase order are to be performed by sources approved by the prime customer, and to the latest revision level of the process specification. Copies of all material, processing and test certificates must accompany each shipment of parts.	
QPC-012	X	X	X	>	When AIR INDUSTRIES MACHINING notifies the supplier of a non-conformance detected on a delivered product, the supplier shall immediately take actions to (1) identify the root cause and (2) eliminate the non-conformance on all products still in the supplier's facility. When the supplier is requested to submit a corrective action report, they will submit its response within 48 hours after receipt of such request unless an extension is provided by AIR INDUSTRIES MACHINING. Format to be specified by AIR INDUSTRIES MACHINING	
OPC-013	X	X	X	>	Suppliers are required to complete and return within 14 days upon receipt Air Industries "Vendor/Supplier Quality Systems Survey" as requested every year	
QPC-014				>	Standard hardware (MS, NAS, BAC, AN etc.) shall be manufactured to the latest revision specification, and will require certificate of compliance indicating original hardware manufacturer.	
QPC-014A				>	All Sikorsky Aircraft SS hardware shall be delivered with a C of C, material/processing certifications traceable to the manufacturing lot number and Inspected by the OEM. Manufacturers Certification's must have a Sikorsky DQR Stamp.	
QPC-015	X	X	X	>	Air Industries will rate their suppliers performance for quality and delivery of product and/or services on a monthly basis.  Supplier ratings are calculated by the Quality Department reviewing total lots received, against total lots accepted. When quality objectives have not met for two consecutive quarters, the supplier will be notified and placed on probation for 90 days. If quality and/or delivery improvement's have not been made in this time frame, the supplier will be listed as disapproved. This report is available upon request from Air Industries.	
QPC-016 Rev V I0	X 2/15/20	X 1241 I	X	Quality M	representative(s) with assigned responsibility and authority for the suppliers quality system.	

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QPC-017	X	X	X	X	The supplier shall promptly notify Air Industries Machining Corp., in writing, of any change to the Manufacturing/Processing facility location of the contracted product, part number or assembly.	
QPC-018	X	X	X		Parts shipped to Air Industries Machining Corp. must be accompanied with a Certificate of Conformance to ensure that all specifications have been met, inspected 100% and accepted by the supplier. Any rework performed by Air Industries will result in a debit from the suppliers invoice.	
QPC-020	X		X		For close tolerance holes (.0015" or less) GO and NO GO gauging techniques are not acceptable. Acceptable techniques: Dial Bore or Air Gauging.	

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QPC-022	X	X				Prior to the delivery of goods or services, the supplier should receive or request an ATS (Authorization to Ship) from Air Industries Machining. Product shall not be shipped or invoiced prior to the purchase order ship date without authorization from the Air Industries Buyer. All deliveries must have an ATS on the container and attached to the pack list. Air Industries reserves the right to refuse any or all shipments from its suppliers, if the shipment does not conform to these requirements.	
QPC-023	X	X				Access to Air Industries Customer Special Process requirements can be located on the Air Industries web site.	
QPC-024	(AR)		(AR)			GOVERNMENT SOURCE INSPECTION (GSI) is required prior to shipment from your plant. Upon receipt of this order, promptly notify the government representative who services your plant so that appropriate planning for government source inspection can be accomplished. FAR clause 52.246-02 Applies to this order.	
QPC-025		X				No Flame Cutting of Materials Allowed	
QPC-026	X	X	X		X	ACCESS CLAUSE: FAR clause 52.246-02 Applies to this order. Record retention requirements per AS9100 are imposed during performance on this order. Your quality control system, manufacturing processes, products and/or test data are subject to review, verification, examination, test and/or analysis by authorized government representatives. Government inspection and/or release of product prior to shipment is NOT REQUIRED unless otherwise notified.	
QPC-028	x	х	x	x	х	All purchased product must conform to AS6174 "COUNTERFEIT PARTS PROGRAM" Requirements.  Counterfeit Product means product that is, or contains items mis represented as having been designed and or produced under an approved system or other acceptable method.  All Material utilized under the contract shall be traceable to the time and place of production. Records of material shall provide the degree of traceability required to enable verification, at any point from raw material to final product, of all aspects of material utilization and disposal.	
QPC-029	x	Х		x	X	All Goods with an applicable Shelf Life requirement must be freshly manufactured, and thus have maximum possible shelf life. Goods with a maximum possible shelf life shall have at least 80% of shelf life remaining when delivered.	

		QUALITY CLAUSES	
QPC-030	X	Material cannot be cut from a larger stock thickness or diameter without prior authorization from Air Industries machine Corp. This requirement does not apply to length or width.	