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## Purchase Order Clauses

DAS0001 Supplier shall meet the requirements documented in SOP-7-17: Supplier Requirements.  
Link: [SOP 7-17](#)

DAS0002 This purchase order may be subject to prime customer directed sources for fabrication, testing, and special processing. The buyer shall supply the list of directed sources as requested.

DAS0003 The supplier shall conform to and comply with prime customer requirements for control and use of Digital Product Definition. The buyer shall supply the prime customer requirements by request.

DAS0004 Any digital dataset or translation thereof (collectively "data") furnished by DAS is furnished solely as an accommodation to supplier unless specified otherwise. It is the supplier's responsibility to verify such data to the DAS-furnished two-dimensional drawing.

DAS0005 DAS may, at any time, for any reason remove the tooling from supplier's possession, or direct Supplier to use any such tooling or take any other action with respect to such tooling that could be taken by the absolute owner thereof, including without limitation the power to divest supplier of legal title to such tooling and to transfer such title to DAS or to any other party. If any such action taken by DAS pursuant to this paragraph causes an increase in the cost of, or the time required for the performance of any part of the work under any order, an equitable adjustment shall be made in the contract price or delivery schedule, or both.

DAS0006 At minimum, parts shall be identified, separated and segregated by correct lot number and quantity. Parts and materials must be protected in all phases of manufacturing, processing, and transportation to eliminate damage. Parts and materials must be protected from all elements and conditions that could result in damage. This includes, but is not limited to:

- Process contamination (oils, grease, fluids, etc.)
- Handling damage (nicks, dings, scratches, etc.)
- Transportation (damage during transit)
- FOD (Foreign Object Debris/Damage)

DQC001

- 1) The supplier will provide Certificate of Conformance with each shipment.
- 2) The supplier will provide Mill Test Reports for raw material purchases.
- 3) The supplier will ensure proper Preserve and Packaging to preclude damage to the material
- 4) The supplier will provide notification of anomalies, changes in definition, and approval of the suppliers processing
- 5) The supplier will work to the most current revision of all applicable drawings, Parts Lists, Bill of Materials, specifications, etc. It is the supplier s responsibility to request from Ducommun, any revisions they are unable to obtain
- 6) Ducommun reserves the right, upon reasonable notice, for Ducommun employees, Ducommun customers and regulatory authorities to enter supplier facility to determine and verify the quality of work, records and material at any point in the production or manufacturing process.
- 7) The supplier has the requirement to flow down to their sub-tier suppliers all applicable requirements, including key characteristics where required.
- 8) The supplier shall flow-down the requirements of DFARS Clause 252.225.7007 through 7010 Preference for Domestic Specialty Metals shall be invoked unless a special exceptions note is contained within the original purchasing text information.

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DQC002 The Supplier will provide Ducommun AeroStructures a copy of the Mill Test Reports for raw material purchases.

DQC003 The Supplier shall flow-down the requirements of DFARS Clause 252.225.7007 through 7010 "Preference for Domestic Specialty Metals", which shall be invoked unless a special exceptions note is contained within the original purchasing text information.

DQC007 DAS customers (including government representative) reserve the Right-Of-Entry into any DAS supplier facility to determine and verify the quality of work and material at all production stages. Visitation by DAS customers shall be conducted with prior knowledge of, and jointly with DAS and its supplier. Ducommun reserves the right for Ducommun employees, Ducommun customers and regulatory authorities to enter supplier facility to determine and verify the quality of work, records and material at any point in the production or manufacturing process.

DQC009 Any deviation to Ducommun AeroStructures requirements set forth in this purchase order shall be documented and submitted to Ducommun AeroStructures for disposition prior to product shipment from supplier's facility. Non-conforming article is to be identified and segregated.

DQC010 All processing such as welding, heat-treating, plating, etc., shall be accomplished by approved process sources when required by the specification. Records of process sources and approval status shall be maintained and available for review. The Supplier will provide notification of anomalies, changes in definition, and approval of the suppliers processing.

DQC011 The supplier shall maintain and administer, in accordance with sound industrial practice, a program for the maintenance, calibration, repair, protection and preservation of customer/government owned property to assure that it is use only in the performance of the purchase order. The supplier is responsible for any loss, damage or destruction of customer/government owned property upon delivery to the supplier. Supplier is required to document and report all lost/damaged customer/government property to Ducommun AeroStructures. The Supplier will provide notification of anomalies, changes in definition, and approval of the suppliers processing.

DQC012 The Supplier has the requirement to flow down to their sub-tier suppliers all applicable requirements, including key characteristics where required. Material, supplies and services contracted to a sub-tier supplier must be obtained from DAS approved sources. The DAS supplier shall flow down all the requirements in the DAS Purchase Order to the sub tier supplier.

DQC019 First Article Inspection shall be performed on the first part produced. Any NC tape, configuration or process change, tool rework will also require First Article Inspection. Supplier is to supply FAI report and all substantiating data to Ducommun AeroStructures.

DQC025 In order to prevent corrosion, supplier shall store all raw material and work-in-process in a covered structure, except raw material slab, forgings, castings and extrusions from which subsequent machining or processing will remove 100% of the as forged, cast or extruded surface. Any corroded condition of such material after acceptance by the supplier shall be the supplier's responsibility. Supplier will ensure proper preservation and packaging to preclude damage to the material during storage and shipping.

DQC043 Suppliers will take all necessary steps to ensure titanium does not come in direct contact with tin, zinc, cadmium or chlorinated liquids at any time during manufacturing, storage, or transportation.

a) TIN: The prohibition of pure unalloyed Tin shall include the surface finish on components or parts

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used inside a hermetic cavity or encapsulated within an assembly (i.e. terminations on chip capacitors in hybrids; the potted portion of leads on devices that are encapsulated). Solder-dipped tin alloy finishes shall contain at least 3% lead or at least 3 ½% silver. All other tin and tin alloy finishes shall contain at least 3% lead.

b) ZINC: Un-plated brass (an alloy containing copper and zinc as the main constituents) containing greater than 21% zinc shall be prohibited. Brass with greater than 21% zinc shall be acceptable if the brass is over-plated with a minimum of 50 micro-inches of nickel or 100 micro-inches of either copper or gold. Un-plated alloys other than brass that contain greater than 10% zinc shall be prohibited.

Un-plated alloys other than brass alloys that contain greater than 10% zinc shall be acceptable if they are over-plated with a minimum of 50 micro-inches of nickel or 100 micro-inches of either copper or gold. Zinc or alloys containing zinc that are sealed within a hermetic cavity shall be acceptable.

c) CADMIUM; Un-plated alloys containing greater than 5% cadmium shall be prohibited. Alloys containing greater than 5% cadmium shall be acceptable if they are over-plated with a minimum of 50 micro-inches of nickel or 100 micro-inches of either copper or gold. Cadmium or alloys containing cadmium that are sealed within a hermetic cavity shall be acceptable.

FPOA000 Purchase order quality clauses may appear in more than one location on the purchase order. Supplier is advised to read the entire purchase order to ensure all clauses are noted.

FPOA001 Supplier must purchase raw materials from prime customer approved sources.

FPOA002 All special processes require approval from prime customer and prime customer mandated NADCAP accreditation. This includes sub-tier suppliers to the recipient of this purchase order.

FPOA003 Serial numbers shall be maintained throughout all manufacturing cycles and shall be identified on both the parts and all documentation at time of shipment.

FPOA004 Material and services ordered by this purchase order is for Boeing Aircraft end use. All manufacturing and/or procurement must comply with the requirements of the D1-4426 document current at the time of manufacture/procurement. Unless otherwise stated on the purchase order the supplier shall work to the latest revision of each Boeing process specification. Access to Boeing specifications to determine the latest revision is available via the Ducommun FTP site. Supplier shall provide a Certificate of Compliance for all deliveries that includes the statement that the Supplier 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.

FPOA005 Material and services ordered by this purchase order are for Israel Aerospace Industries - Commercial Aircraft Group end use. All manufacturing and/or procurement must comply with the requirements of CAG 9000 and the design requirements detailed in the engineering data and purchase order/ contract for the project current at the time of manufacture/procurement.

FPOA006 For cast material or welded parts that require x-ray inspection, two copies of the inspection report must be included with the parts shipped.

FPOA007 Processing to be accomplished in performance of this purchase order is directly related to a Lockheed Martin Aeronautics Company purchase order and must:

1. Be accomplished in accordance with process specification(s) on this purchase order and the revision in effect as of the date of the purchase order of Lockheed Martin Aeronautics Company Appendix QJ. All requirements of such Appendix QJ, QX Table 1, & Q4R shall be accomplished. Appendix QJ and QX can be accessed at the following location:

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<http://www.lockheedmartin.com/aeronautics/materialmanagement/quality/QualityAppendices.html>.

2. Be in full compliance with the below listed DFARS clauses to the extent they are applicable. This includes ensuring flow-down of these clauses to sub-tiers, as applicable:

- 252.225-7007 – Prohibition on Acquisition of United States Munitions List Items From Communist Chinese Military Companies
- 252.225-7009 – Restriction on Acquisition of Certain Articles Containing Specialty Metals
- 252.204-7008 – Requirements for Contracts Involving Export-Controlled Items
- 252.225-7001 – Buy American and Balance of Payments Program
- 252.225-7006 – Quarterly Reporting of Actual Contract Performance Outside the United States
- 252.225-7013 – Duty Free Entry
- 252.225-7016 – Restriction on Acquisition of Ball and Roller Bearings
- 252.225-7021 – Trade Agreements
- 252.225-7033 – Waiver of United Kingdom Levies

FPOA008 Copies of chemical and physical analysis certifications must accompany each shipment of parts for all supplier purchased materials.

FPOA009 Material and services ordered by this purchase order are for Sikorsky end use. All related manufacturing and/or procurement must comply with the requirements of SSQR-01 revision 1. For specification and standard revisions use SS7777 Revision 41.

If you do not have a copy of SS7777 Revision 41 contact the Ducommun buyer.

If you do not have a copy of a specification or standard at the revision required by SS7777 for the performance of the work defined on this purchase order, contact the Ducommun buyer.

FPOA010 Copies of manufacturer's certifications for all finishes (e.g. sol-gel, primers, top-coats, etc.) used on and/or applied to the parts on this order be included with each shipment. Batch numbers from the manufacturer's certifications must be included on and traceable to the Supplier's Certificate of Conformance.

FPOA011 This order is for a fixed quantity government contract; therefore exact quantity shipment is required.

FPOA012 Two copies of the results of lot, batch or item acceptance tests required by the applicable specification must be included with each shipment. Test reports shall include control identity (e.g., heat, lot, batch, serial number) of each material/item tested, actual values when applicable, and shall be signed by the supplier's authorized agent. The report shall establish the quantity of material/items associated with each traceability number shipped. Place one copy with the shipping documentation and one copy on the inside of the shipping container.

FPOA013 Available

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FPOA014 A quality plan must be submitted to DAS, for approval prior to the completion of the FAI.

FPOA015 One hundred percent inspection on all characteristics is required. Use of sampling plans for inspection is prohibited. This supersedes Section 12 of [SOP 7-17](#) (DAS0001).

FPOA016 An Inspection Check List (ICL) is required for each part number, with every shipment. The supplier must identify and document those dimensions checked and the results of that inspection. The preferred document to use when recording the inspection results is the "CHARACTERISTIC ACCOUNTABILITY, VERIFICATION AND COMPATIBILITY EVALUATION" page of the AS9102 First Article Inspection form.

FPOA017 Supplier shall perform and document the result of the calibration activity in accordance with the specification specified within the purchase order. If the calibration specified within the purchase order cannot be performed as specified, the supplier shall notify the buyer in writing before proceeding with any calibration service.

FPOA018 Government source inspection is required prior to shipment from your plant. Upon receipt of this order, promptly notify the government representative who normally services your plant so that appropriate planning for government inspection can be accomplished.

FPOA019 Available

FPOA020 Available

MP-3 Material certification required domestic source or from source listed "Defense Federal Acquisition Regulation Supplement" (DFAR 252.225-7014)

Q14 The Government has the right to inspect any or all of the work included in this order at the supplier's plant.

Q15 Records of article and material procurement, fabrication, processing, inspections and tests shall be identified to the applicable article or material to facilitate retrieval of data.

Q20 Supplier shall establish and maintain documented procedures for Corrective and Preventive Action. Procedures shall include: effective handling of customer complaints and reports, investigation of cause of non-conformance, determination of corrective action needed to eliminate cause, application of controls to ensure corrective action effectiveness.

QA01A The supplier shall provide and maintain an inspection system adequate to ensure that supplies shipped on this order meet all applicable requirements. The system shall provide for the maintenance of records and data of all inspections and tests performed which shall be available for examination and verification by authorized representatives of buyer or customer personnel, upon request. The supplier's calibration system shall conform to the requirements of ISO 17025 or ANSI/NCSL Z540-1+ in that only current calibrated equipment, traceable to a national or international standard, shall be used for product acceptance.

QA02 The supplier shall provide and maintain a quality system in accordance with any of the listed standards.

QA05 Supplier shall not make any changes to top assembly drawings, which may affect the intended use of the parts/material being procured without prior approval by buyer and buyer's customer, when required. The supplier will work to the most current revision of all applicable drawings, parts lists, bill of

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materials, specifications, etc. It is the supplier's responsibility to request from Ducommun any revisions they are unable to obtain.

QA06 The supplier shall, in the performance of this order, provide and maintain a system of traceability on all material and components. The supplier's system shall effectively control serial numbers, lot numbers, or other suitable methods for ensuring the traceability of material delivered to buyer.

QA09 The initial lot of details, subassemblies, and assemblies in the configuration defined in the purchase order shall be subjected to a first article inspection by the supplier. A completed first article report, in accordance with the AS9102 Form, shall be submitted for review and approval by DAS Quality prior to acceptance of any production parts. Subsequent lots shall require a new first article inspection and report in the event there is a design change that changes the part number of the part or the material or a change in supplier's tooling or method of manufacture.

QA11 Each shipment shall be accompanied by a legible copy of actual physical and/or chemical test reports for the material submitted to buyer for acceptance. These test reports shall ensure compliance to applicable specifications, shall be traceable to the lot or batch submitted, and shall be signed by an authorized representative of the testing agency.

QA12 All parts requiring non-destructive testing shall be processed in accordance with the requirements of the applicable specification. Personnel reading and/or interpreting non-destructive testing indications shall be certified and/or qualified in accordance with the requirements of the controlling specification for the test method used. Customer-approved sources shall be used when required.

QA13 The applicable radiographs and a copy of the inspection report shall be submitted to Buyer with each shipment.

QA14 Each shipment shall be accompanied by a legible and reproducible copy of reports of actual test results identifiable with test parameters, and the products submitted per the applicable drawing and specification. These reports shall contain a signature and title of an authorized representative of the agency performing the test and shall assure conformance to specified requirements. When parts are serialized, the serial numbers shall appear on the test report.

QA15 The supplier shall be responsible for legibly and permanently identifying each part or container with the rubber cure date, date of manufacture, and shelf-life. Assemblies shipped with rubber parts therein shall be marked with assembly date and the cure date of the oldest elastomeric item.

QA16 Materials with limited shelf-life, epoxy, paint, adhesives, etc., shall reflect the date of manufacture, lot number, and applicable specification on the container. Each container must be identified. Unless otherwise agreed upon in writing, all material shall have at least 60% of its shelf-life remaining, at time of receipt.

QA18 The supplier shall submit in writing with each lot, a document, which certifies that material furnished by buyer is contained within the parts or assemblies, submitted and that substitute material was not used for those parts. The certification must be signed by an authorized representative of the Supplier and list those items supplied by buyer by part number, nomenclature, and serial number (if applicable). In the event the supplier has used material supplied from other sources, the material certifications indicating conformance to the engineering and purchase order requirements must be included in the certification documents.

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QA19 This purchase order requires test specimens for lab analysis by buyer unless otherwise specified. The specimens shall be from the same lot, batch, or heat of material and shall have been processed with the represented parts. Specimens must be identified as to which process lot they represent.

QA21 Sheet stock shall be identified with heat lot number, gauge and the applicable material specification.

QA22 Each container of product shall be labeled to clearly display the product name, product number, DAS Trace ID number, and any other information required by the purchase order.

QA24 Quality records shall be retained for a minimum of ten (10) years after completion of purchase order, or as directed by DAS Customer's Quality Requirements. Records shall be identified and stored in a manner that allows them to be easily retrievable and adequately protected.

QC10 The supplier's Quality Management System is subject to initial survey and approval by DAS and its customer. Surveys or audits, including sub-tier suppliers and processors may be conducted before or after issuance of a purchase order. The supplier shall be notified of deficiencies and shall follow-up and ensure that deficiencies are promptly corrected. Corrective actions shall be subject to review and approval by DAS Quality Assurance. Subsequent surveillance or periodic review of the system may be accomplished as deemed appropriate for the articles being purchased.

QC11 Manufacturing and inspection processes used in the performance of this purchase order must be accomplished by sources approved by DAS and/or its customer.

QC15 Supplier is responsible for processing and certifying to the latest specification revision unless otherwise noted on purchase order. Supplier is to provide DAS with a Certificate of Conformance. Supplier shall certify to all specifications and special instructions required by purchase order.

QC20 Supplier shall have documented process for the control and use of inspection and process stamps. The design of supplier stamps shall be such that process and inspection stamps are distinctly different. Inspection stamps shall be designed to identify the supplier and the supplier's inspector who affixes the stamp.

QC23 Management of process variation using SPC is required per AS9103 (latest revision unless specified otherwise). Supplier is to submit an SPC Control Plan and sketch for DAS approval. Key characteristics shall be identified on purchase order. SPC data is to be provided with each shipment of product.

QC26 Supplier is to return all unused/scrap material to DAS for accountability.

QC28 Each individual article on this purchase order shall have temporary identification applied/maintained prior to shipment to DAS. Any one of the following methods of identification may be used:

1. Vibro-etching of part/serial number on tool tab, or in excess areas of no tool tab is present
2. Tag tied to part indicating part/serial number
3. Attach label to the outside of each individually wrapped, boxed or bagged part
4. Lot tag indicating part number and quantity.

QC31 Supplier shall conduct training, personnel certification and recertification as necessary to assure effective accomplishment of special processes and inspection operations.

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QC32 Supplier shall maintain in Environment, Health & Safety Programs applicable to their operations, facilities and equipment, which includes identification, elimination and/or control of hazards in employee and environmental accident prevention in accordance with Federal, State and local standards and regulation.

QC34 Supplier shall have a written system for the prevention of Foreign Object Debris (FOD). This system must show evidence of a written practice, effective employee training and a corrective action system when FOD is detected. This system must demonstrate employee awareness and be audited on an on-going basis. Supplier shall certify in their Certificate of Conformance (C of C) that parts are free from FOD.

MP-3 Material certification required domestic source or from source listed "Defense Federal Acquisition Regulation Supplement" (DFAR 252.225-7014)

T-3 All tooling tolerances are one third of normal engineering tolerances (example: +/- .030" engineering tolerance = +/- .010" tooling tolerance)