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ALLTEC GENERAL QUALITY CLAUSES DESCRIPTION

QC4 Material Safety Data Sheets: Materials must be supplied in accordance with the latest revision of OSHA's hazard communication standard 29 CFR 1910-1200, OSHA instruction CPL 2-2.38, and WISHA standard 296-62-05413 (Material Safety Data Sheets). Received materials not in compliance with the above requirements are subject to immediate rejection and return at supplier's expense.

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In addition, if supplier is aware of any additional precautions or handling techniques instituted with regard to other customers, you are requested to submit those safeguards with the MSDS. Supplier must send to Alltec a Toxic Substance Control Act (TSCA) certification letter for products purchased on this purchase order including a statement that all chemical components are listed by the Toxic Substances Control Act Inventory (PL 94-94-969).

QC5 Calibration System Requirements: Supplier is required to maintain a calibration system that complies with the general requirements of this document and the requirements of ISO 10012-1. Compliance is subject to audit by Alltec Quality Assurance.

QC6 Certified Test Data: Certified test data is required and must contain quantitative test results versus requirements and permissible tolerance for values measured and must indicate factual information necessary to demonstrate conformance to the requirements reflected on the drawing, specification or purchase order.

QC7 Material Test Reports: A material test report for raw materials is required and must include the following:

- a. name/number of the specification for which the material is in compliance;
- b. lot, batch, or other traceable designation;
- c. actual test results or percentage of each element that makes up the chemical or physical properties of the raw material;
- d. a statement of conformance to the applicable specification.

QC8 Approved Process Requirements: Special processes required by the process specification must be performed by sources approved by the customer (process document owner). The supplier is responsible for assuring that the processing source has in their possession a current customer approval of their processing capability for the process to be performed, prior to performing the process.

QC14 Manufacturing and Inspection of Hardware Produced from Electronic Media: Part is to be manufactured in accordance with customer furnished electronic media normally accessed through ALLTEC File Transfer Protocol site (e.g., Catia model, etc.). Unless otherwise noted, all dimensions are to be within .005 inches of the dimensional feature defined in the electronic model. For each manufactured part all dimensions must exhibit repeatable compliance to the model. In addition to monitoring manufacturing methods, which ensure compliance to the electronic data, inspection of the completed hardware must ensure conformance to all criteria (including dimensional) specified on the engineering drawing.

QC15 FAI of Hardware Produced from Electronic Media: First Article Inspection (FAI) is required to ensure compliance to customer furnished electronic media. FAI of hardware produced from electronic media, such as a Catia model shall consist of verification of

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compliance to electronic data by independent verifiable methods. Acceptable methods of FAI include measurement by Coordinate Measuring Machine (CMM), a fit-check of the completed item to corresponding hardware from the next assembly level, comparison to a transparency or Mylar sketch of the article or other similar methods approved by ALLTEC. In addition, a FAI report must document the methods of verification. The report shall also reference any specific dimensional or other requirements from the engineering drawing and the actual corresponding measurement or value associated with the requirement.

QC100 QUALITY CLAUSES NOT REQUIRED

Non-shippable items and/or none specified by the Customer.

QC101 QUALITY SYSTEM SURVEILLANCE

As an ALLTEC supplier, manufacturing a product requiring Alltec Customer and / or "Federal Aviation Administration" (FAA) approval, the Seller's "Quality Control System" shall be subject to surveillance by ALLTEC and the FAA.

QC102 RIGHT OF ENTRY

Allows ALLTEC, its customers and regulatory authorities the right of access, at any level of the supply chain, *through prior notification*, to determine and verify the quality of work, applicable quality records and materials at all applicable areas of all facilities involved in the order.

QC103 FLOW DOWN REQUIREMENTS

All requirements defined in ALLTEC'S purchase order must flow down to sub-tier suppliers as applicable.

QC110 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION SENT TO ALLTEC)

FAI's shall be performed on all new or revised production manufactured items by seller at seller's facility. Results will be documented on a report identified as a "First Article Inspection Report" (FAIR). The identified first article unit and the FAIR will be sent to Alltec.

QC111 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION MAINTAINED BY SUPPLIER)

FAI shall be performed on all new or revised production manufactured items by seller at seller's facility. Results shall be documented on a report identified as "First Article Inspection Report" (FAIR). The report will be maintained at the seller's facility, and be available for review by Alltec when requested.

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QC112 FIRST ARTICLE INSPECTION (FAI) BY ALLTEC AT SELLER'S FACILITY

FAI and/or test shall be accomplished at the Seller's facility before the balance of order may be fabricated. ALLTEC will conduct or witness inspections and/or tests and the results will be on a report form identified as "First Article Inspection Report".

QC113 ALLTEC SOURCE INSPECTION

Alltec inspection is required prior to shipment from your facility. Evidence of such inspection must be included in your packing documents accompanying each shipment. You must contact Alltec's purchasing and establish verification arrangements and the method of product release. Drawings, inspection/test documents, and specifications, as applicable, covering material on this order shall be available for inspection at your facility.

QC114 DELEGATION - SUPPLIER VERIFICATION OF ALLTEC PRODUCT

The supplier has met the requirements established by ALLTEC quality organization for the verification of Alltec product. Alltec's receiving inspection will perform quarterly inspections of product from delegated suppliers to ensure continued compliance to the conformance requirements.

QC115 MATERIAL REVIEW BOARD (MRB)

Supplier MRB action is not authorized on any procured parts. Any departure from drawings, specifications, or other purchased order requirements must be submitted to Alltec for disposition.

QC120 CRITICAL DIMENSION CONTROL

The supplier must apply an hourly inspection plan on critical dimensions outlined by Alltec and supply a signed copy of the results with each shipment. The plan must be approved by Alltec Quality Assurance prior to the initial start of fabrication.

QC121 STATISTICAL PROCESS CONTROL

The supplier must apply Statistical Process Control (SPC) to this purchase order. A CPK of 1.33 or greater is required. Each shipment must be accompanied with a signed copy of the applicable SPC Control Plan(s). The Control Characteristic listed in SPC Control Plan shall be approved by Alltec Quality Assurance prior to commencing with production / processing.

QC129 MATERIAL TRACEABILITY AND CERTIFICATION

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Each shipment must be accompanied by positive traceability of the parts by cross-referencing all manufacturing and shipping documents to test reports or certifications for the specific raw material lot from which the parts were manufactured is required.

QC130 CERTIFICATE OF CONFORMANCE

Each shipment shall be accompanied by one (1) legible and reproducible copy of a Certification Document (Certificate of Conformance, Shipper, Packing List, etc.) that includes the identification (signature, electronic signature, stamp, etc.) of the person authorizing release of product, assuring the items ordered were produced in accordance with and conforming in all respects with the contractual requirements including, but not limited to, specifications, drawings, marking requirements, physical item identification and electrical characteristics when applicable. If placed on a separate sheet, this statement must be directly traceable to the shipped product (i.e. via shipment list number, part and/or lot number(s), etc.) When the parts are serialized, serial numbers shall be included on the certification.

QC131 PROCESS CERTIFICATIONS

Each shipment shall be accompanied by one (1) legible and reproducible copy of a certificate that must include the signature and title of the person authorizing release of product certifying all processes used, such as heat treating, welding, NDT, surface preparation and treatment, etc. The certificate shall include the processing used, the specification to which they conform and the name of the agency that performed them if other than the seller (i.e. sub-vendor). When the parts are serialized, serial numbers shall be included on the certification.

QC132 CHEMICAL AND PHYSICAL TEST REPORTS

Each shipment must be accompanied by one (1) legible and reproducible copy of all chemical and physical test reports identifiable with materials ordered. The reports must contain the signature and title of the authorized representative of the agency performing the test and must assure conformance to specification requirements.

QC133 DATED MATERIAL (SHELF LIFE CONTROLLED)

Time sensitive material shall be furnished with a minimum of 80% of its shelf life remaining at date of shipment. Shelf life duration, date of manufacture and date of expiration shall be listed on material certification.

QC134 NON-DESTRUCTIVE TEST/INSPECTION IDENTIFICATION

All parts found to be acceptable by non-destructive testing methods are to be so, identified by placing the proper acceptance test /inspection stamp or label on such

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acceptable parts. All parts found to be unacceptable are to be so identified by placing the proper withholding stamp or label on such defective parts. In those cases where NDT testing is being performed by a lower-tier supplier and his acceptance stamp is obliterated by further processing, a copy of the lower-tier's certification must accompany shipment to ALLTEC.

QC135 ALLTEC APPROVED OSP

Seller shall assure that any process and/or non-destructive test (NDT) requested on this purchase order shall be performed only by sources currently appearing on the ALLTEC's "List of Approved Vendors" for the specific type of work to be conducted.

QC136 ALLTEC OSP MOLD FABRICATION

The supplier must provide Alltec a manufacturing schedule showing Major Tasks and Milestones. The mold design will be owned and must be approved by Alltec prior to start of mold fabrication. Deliverables must include, but not limited to, Mold Design, in electronic data file, printed or both as required by Alltec, any and all electrode designs, and the mold as described in the Alltec Purchase Order. The supplier must perform and submit to Alltec the First Article Inspection Report (FAIR) on all parts produced by the fabricated mold. The mold will not be considered complete or accepted until Alltec approves, in writing, the FAIR for each molded component.

QC140 PRODUCT IDENTIFICATION

Each shipment shall be accompanied by one (1) legible and reproducible copy of a packing slips. The packaging will be marked with Manufacturer or Distributor name, part number, revision letter (if applicable), manufacturing lot number, and quantity contained within the package. Information is to be marked with indelible ink or adhesive label on each individual package.

QC141 IDENTIFICATION OF "DANGEROUS GOODS"

A "Dangerous Goods" decal must be applied to the outer container of the item being shipped and to the associated shipping document (shipper). Also, one copy of the applicable MSDS sheet must be provided with each shipment.

This is in addition to federal & state requirements noted in IATA & DOT CFR. It does not relieve the supplier of their responsibility to comply with any marking & labeling requirements set forth in the IATA & DOT CFR or any other legal documentation that may apply to this shipment.

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QC148 AS9102 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (Documentation Maintained by Supplier): A FAI per AS9102 shall be performed on all new or revised manufactured items by the seller or at the seller's facility. Forms other than as identified in the Appendix of AS9102 **must contain all required and conditionally required information** and use same field reference numbers. Report to be maintained at seller's facility and available for review at Alltec's request.

QC149 AS9102 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (Documentation sent to Alltec): A FAI per AS9102 shall be performed on all new or revised manufactured items by the seller or at the seller's facility. Forms used other than as identified in the Appendix of AS9102 **must contain all required and conditionally required information** and use same field reference numbers. The report will be sent to Alltec.

QC150 PUBLIC LAW 101-592 FASTENER QUALITY ACT

Supplier (Distributor) Certification: A Certification shall accompany each shipment of fasteners/washers, containing the following, as a minimum:
The manufacturer lot number(s) with associates part number(s);
Manufacturers name; ALLTEC p.o. number; and a statement to the effect that the manufactures certification (required by the Section 7 of the "Law") is on file with the distributor.

Supplier (Manufacturer) Certification: A Certification in accordance with Section 7 of the "Law" shall accompany each shipment.

Packaging: Each lot shall be packaged in a manner that ensure there will be no co-mingling of like fasteners from different lots in the same container.

Identification: Each package shall be identified with the lot number, name of the parts, part identification number, P.O. number and name of fastener manufacturer.

QC1501 Notification of Quality Escape

Seller will report to Buyer if a product, article or part has been released from Seller or Seller's subcontractors or suppliers and subsequently found not to conform to the applicable design data.

QC151 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

1. When supplier is the fastener manufacturer - Each shipment shall be accompanied by one (1) legible and reproducible copy of a certificate of conformance containing the signature and title of an authorized representative which stated that the fastener has been manufactured in accordance with requirements of the applicable NAS, AN, MS government approved Parts Standard and Procurement Specification; and the chemical

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/ physical test reports required by the government approved Procurement Specification are on file with the manufacturer, and available for review by customer and /or government quality assurance representative upon request.

2. When the supplier is a distributor - Each shipment shall be accompanied by one (1) legible and reproducible copy of conformity to purchase order requirements. The statement of conformity, as a minimum, shall contain Alltec P.O. number, packing slip number; a copy of applicable test records (chemical, physical, processes and NDT) required by the government approved Parts Standard and Procurement Specification are available, or are obtainable upon customer request. The statement of conformity must contain the name of the fastener manufacturer, and shall be signed and dated by an authorized representative.

QC159 HUMAN RIGHTS AND ANTI SLAVERY

In addition to any other provision set forth in this Order or any other applicable agreement, Supplier further commits that any material violation of law by Supplier relating to basic working conditions and human rights, including but not limited to laws regarding slavery and human trafficking, applicable to Supplier's performance under this Order may be considered a material breach of this Order for which Alltec may elect to cancel any open Orders between Alltec and the Supplier, for cause, in accordance with the provisions of this Order or any other applicable agreement, or exercise any other right of Alltec for an event of default under this Order or any other applicable agreement.

QC160 PACKAGING, HANDLING AND LABELING

The supplier shall provide packaging that maintains the quality of the fabricated item and prevents damage, deterioration, substitution or loss in transit. The supplier shall label the exterior of the package to ensure adequate identification of precautions needed to ensure the integrity of the product being shipped. The supplier must specify the handling and shipping methods that ensure proper and on-time delivery without damage to the product, unless otherwise specified on the Alltec Purchase Order. The supplier shall ensure that special labeling requirements shall also be listed in the appropriate shipping documents and on each package.

QC1601 OZONE-DEPLETING SUBSTANCE REQUIREMENTS

Definition. "Ozone-Depleting Substance," as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR Part 82 as—

- (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or
- (2) Class II, including, but not limited to hydrochlorofluorocarbons.

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Supplier shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C 7671j (b), (c), and (d) and 40 CFR Part 82, Subpart E, as applicable:

Warning

Contains *, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

Warning

Manufactured with *, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

*Supplier shall insert the name of the substance(s).

QC162 PREVENTION OF COUNTERFEIT PARTS

Supplier shall plan, implement and flow down to employees and sub-tier suppliers a system for the prevention of counterfeit or suspect counterfeit part use and their inclusion in product(s) delivered to Alltec and/or the Customer

QC163 SUPPLIER DATA SUBMITTAL PROCEDURE

This part/assembly Supplier Data Submittal Procedure whereby design, process, specification and quality plan changes affecting the part are to be submitted for review and approval prior to acceptance into production.

QC164 BOMBARDIER "BUILD TO PRINT" PROGRAMS

It is the supplier's responsibility to ensure the latest revision of Bombardier documents BAPs and BAMS are used in the manufacturing and/or distribution of product shipped to Alltec.

QC165 VENDOR CONTRIBUTION AWARENESS

Supplier shall have a process in place to flow down and ensure its employees are aware of their contribution to product or service conformity, to product safety and the importance of an ethical behavior when performing activities concerned by Alltec contracts or purchase orders.

QC166 PARTS MANUFACTURING APPROVAL MARKINGS

Supplier shall assure no articles (or constituent parts thereof) or the accompanying paperwork (e.g. packages, shippers, etc.) contain any Federal Aviation Administration Parts Manufacture Approval (FAA-PMA) markings, unless otherwise contractually approved by Alltec.

QC170 RECORD RETENTION

Supplier shall maintain verifiable objective evidence of all inspections and test performed, results obtained and dispositions of non-conforming articles. These records shall be identified to associated articles, including lot number of materials, unit of lot serialization and made

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available to Alltec, its customer and / or government representatives upon request and shall be retained in a safe, accessible location for a period of 10 years. Records held for the required retention period shall not be destroyed without Alltec's and / or its customers written approval. These requirements shall flow down to all levels of sub-suppliers. Suppliers that are in danger of / or in the process of bankruptcy or closure of business, are required to contact Alltec to arrange shipment of all retained records in their possession.

QC171 NOTIFICATION OF CHANGE OF QUALITY PROGRAM OR FACILITY

Supplier shall notify Alltec in writing of any adverse change in the status of their quality control system, including change in quality assurance organization or procedures which affects conformity verification of provided product and or services. Supplier shall also notify Alltec of any location change or transfer of supplier manufacturing operations, including those of sub-tier suppliers.

QC172 QUALIFICATION OF PERSONNEL

Supplier shall ensure that all activities regarding Alltec's contract and/or purchase order are performed by a skilled and trained staff, including temporary employees. Supplier shall identify any critical skills that require special competencies, and/or performed by single station operator, required for fulfillment of the contract or purchase order and develop a multi-skill competency. All final tests and inspections are to be carried out by operators authorized by the supplier's Quality department or an equivalent Management representative. If a special process(es) is carried out (I.E. nondestructive tests, welding, etc.), operators shall be certified or qualified in accordance with AS9100 standards. A cross reference list of skills required by product or activity shall be implemented and updated accordingly.

QC173 QUALITY MANAGEMENT SYSTEM (QMS) REQUIREMENTS

Supplier shall implement, document, maintain, and be certified through an Accredited Certification Body in accordance with ISO 9001 standard, or AS9100 standard and any additional requirements specified in this Purchase Order. The Quality Management System shall be appropriate to the product and shall cover all activities concerned by Buyer contracts or purchase orders. Depending on the nature of the products or services ordered, the Buyer reserves the right to request the Supplier to be 9100 series certified and to be registered in OASIS data base. The Supplier shall accept to grant view access to Alltec Integrated Manufacturing Inc. in the OASIS data base for the certification audit report.

QC174 RoHS COMPLIANCE

Supplier to provide a statement regarding the product's compliance to Restriction of Hazardous Substances ("RoHS") directives 2002/95/EC, 2011/65/EU, and all applicable amendments. This

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statement must be directly traceable to the shipped product (i.e. via shipment list, lot number(s), etc.) Identification of RoHS compliance will be made in addition to, not in place of, applicable material traceability requirements.

QC175 CALIBRATION CERTIFICATE

Supplier to provide a certificate of calibration for each device listed on the Purchase Order. The certificate must include the date of calibration, listed uncertainties, calibration due date, identification of testing equipment/standards used in the calibration, and a statement that the testing equipment/standards are traceable to the National Institute of Standards and Technology (NIST). The certificate must also include a clear indication of pass/fail results, and reference either the serial number, or unique ID number, of the device being calibrated. Calibrations must be conducted in accordance with the requirement of ISO17025 and/or ANSI Z540-1.

ALL GOVERNMENT AND FEDERAL AGENCIES QUALITY CLAUSES:

QC900 FABRICATION INSPECTION SYSTEM (FIS) FAR21.303

The supplier, shall maintain a FIS in compliance with the requirements of FAR 21.303 (h). The FIS shall be approved and subject to audit by Alltec, FAA, or its representative at any time.

QC901 FAA-PMA /TSOA

As an ALLTEC supplier, manufacturing an article or component for which ALLTEC holds an FAA Parts Manufactures Approval (PMA) or Technical Standard Order Authorization (TSOA), your inspection system shall be subject to inspection by ALLTEC and /or FAA at a level commensurate with criticalness of the article or component.

QC902 GOVERNMENT SOURCE INSPECTION (GSI)

Government inspection is required prior to shipment from your plant. Evidence of such inspection must be indicated on the packing sheet accompanying each shipment. On receipt of this Purchase Order, promptly contact the Government Representative who normally services your plant, or if not available, or the representative or office cannot be located, ALLTEC's purchasing should be notified. Drawing(s), test document(s) and specifications, as applicable, covering material on this order shall be available for inspection at your plant.

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QC903 REQUIREMENT FOR AIRWORTHINESS CERTIFICATION

FAA/Foreign Civil Airworthiness Authority (FCAA) Conformity Certification is required for articles specified on this purchase document. Include with each shipment, a true copy of FAA Form 8130-3, Release Certificate Approval Tag, for Airworthiness. Foreign government equivalent to FAA Form 8130-3 is acceptable for imported articles.

QC904 FLAMMABILITY TEST

Test reports showing actual results of flammability test which meet the requirements of FAR 25.853(a) and signed by a responsible party shall accompany this shipment.

QC905 FLAMMABILITY TEST

Flammability Test reports showing actual results of flammability test(s). Reports must show Fire Worthiness resistance shall be such that the requirements of FAR 25.853 (a), Amendment 25-116 (60-Second Vertical Bunsen Burner Test). Appendix F, Part I will be met, or the latest revision of the Aircraft Materials Fire Test Handbook (DOT/FAA/AR-00/12).

QC906 FLAMMABILITY TEST

Flammability Test reports verifying Smoke emission shall be such that the requirements of FAR 25.853 (d) Amendment 25-116. Appendix F, Part V will be met, or the latest revision of the Aircraft Materials Fire Test Handbook (DOT/FAA/AR-00/12). Reports must include a brief description of the sample and mounting.

QC907 FLAMMABILITY TEST

Flammability Test reports verifying Heat release capability shall be such that the requirements of FAR 25.853 (d), Amendment 25-116. Appendix F, Part IV will be met, or the latest revision of the Aircraft Materials Fire Test Handbook (DOT/FAA/AR-00/12). Reports must include a brief description of the sample and mounting.

QC908 FLAMMABILITY TEST

Flammability Test reports showing actual test results of flammability tests which meet the requirements of FAR 25.856 (a) and AC25.856-1 or the latest revision of the Aircraft Materials Fire Test Handbook (DOT/FAR/AR-00/12)

BOEING SPECIFIC QUALITY CLAUSES:

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QCB100 BOEING PROCESSING

Seller shall assure that any process works to be performed on Boeing design and/or part numbers by the Seller or its suppliers, shall be performed only by sources noted in the latest published Boeing Document Number D1-4426.

QCB101 BOEING MATERIAL CERTIFICATION

Material must be received with certification documenting acceptance to all requirements of the applicable Type and Class of the BMS (Boeing Material Specification).

QCB102 BOEING DIGITAL PRODUCT DEFINITION

Seller shall follow the requirements noted in the latest published Boeing Document Number D6-51991, "Quality Assurance Standard for Digital Product Definition at Boeing Suppliers".

QCB103 BAE REQUIREMENTS

Returning product certifications shall contain the following statement:
"The products herein certified in accordance with the terms of BAE approval and work category. Further, right of access is granted to BAE, BAE customers and applicable aviation authorities." Letter of Authority No.LOA/PWK/160B

QCB104 DFARS CLAUSE 252.225-7014

DFARS Clause 252.225-7014, Preference for domestic specialty metals, prohibits the contractor (E. G. the Boeing Company) from incorporating into military aircraft "Specialty Metals" (Such as Titanium and Stainless Steel) which have been melted outside the United States, unless certain limited exceptions set forth in the clause apply. Even if one of the exceptions applied, the source for specialty metals melted outside the United States must also be listed in the qualified products list (QPL) of Douglas Material Specification (DMS) 2201, Procurement from Foreign Sources – Metallic Raw Material.