CAGE Code 81205

Quality Management System – Supplier Quality Requirements

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All revisions to this document must be approved by the content owner before release.

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1. Introduction

This document outlines quality assurance requirements applicable to suppliers that provide product intended for use under Boeing's Federal Aviation Administration (FAA) issued Production Certificate 700 (PC 700). If applicable, this document is called out or incorporated by reference in Boeing's agreements with the supplier.

The quality requirements specified in this document are in addition to (or, as applicable, provide clarification to) all other applicable quality requirements set forth in the contract, purchase orders, laws, and regulations.

Boeing documents, applications, and forms referenced in this document can be obtained from the Supplier Portal at www.boeingsuppliers.com.

Industry standards can be obtained from SAE International at: http://standards.sae.org.

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2. Terms and Definitions

Drop Ship - Delivery and certification of an article procured under a Boeing purchase document and shipped by a Providing Supplier directly to a Receiving Supplier.

PC 700 - Refers to Boeing's FAA-issued Production Certificate No. 700.

Providing Supplier - The organization that is authorized by Boeing to drop ship product directly to a receiving supplier.

Receiving Supplier – The organization receiving a drop shipped article from a Boeing Contracted Supplier/Providing Supplier.

Supply Chain - The Supplier's subcontractors and Supplier's at all levels that support Supplier's performance under Supplier's respective supply agreement with Boeing.

Work Transfer - The movement or re-location of parts, processes, related tooling, and/or technical services associated with the manufacturing of the parts from one manufacturing location to another. Work Transfers can be permanent or emergent/temporary. It is also considered a Work Transfer when parts/processes are moved between facilities within the same manufacturing location.

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3. General Requirements

The Supplier is responsible for ensuring supply chain flow down and compliance to the requirements in this document.

Documents referenced below may be updated periodically. The Supplier is responsible for ensuring compliance, including its supply chain's compliance, to the latest revision (for example, industry standards, Boeing documents).

Boeing may conduct inspection, assessment, and surveillance activities at the Supplier's and the Supplier's sub-tier facilities for manufacturing and acceptance of PC 700 product to ensure compliance to requirements. This may include, but is not limited to:

- Quality Process Assessment (QPA)
- Manufacturing Process Assessment (MPA)
- Product Audits (PA)
- Requirements Consumption Reviews (RCR)
- Source Inspection (SI)
- Boeing First Article Inspection (BFAI)
- Improvement Plans and Quality Metrics

At Boeing's request, the Supplier and its supply chain must provide quality and engineering information/data, in the English language, on media specified by Boeing.

Revisions to this document and any referenced documents must be integrated into the supplier's Quality Management System (QMS) within 60 calendar days from the date of the revision, unless the Supplier Quality contractual requirements owner specifies or approves an alternate timeframe.

The Supplier's QMS approval status from Boeing can be viewed in the Supplier's profile in the Supplier Quality Information System (SQIS).

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4. Requirements

SQ01 – Boeing quality management system (BQMS)

The Supplier must maintain an accredited Industry Controlled Other Party (ICOP) certification in accordance with the following Aerospace QMS Standards and their international equivalents:
• AS9100 for Suppliers (see Boeing document D6-82479 Appendix A for applicability)
• AS9110 for maintenance and repair (see Boeing document D6-82479 Appendix C for applicability)
• AS9120 for distributors (see Boeing document D6-82479 Appendix D for applicability)

The Supplier must comply, as applicable to the product being provided, with the following standards and their international equivalents:
• AS9103 for variation management of key characteristics (see Boeing document D6-82479 Addendum 1 for applicability)
• AS9115 for deliverable software (see Boeing document D6-82479 Addendum 2 for applicability)

The Supplier must comply with all sections of Boeing document D6-82479 (“Boeing’s Quality Management System (BQMS) Requirements for Supplier’s”).

The Supplier must flow down to its supply chain the requirements stated in Boeing document D6-82479 (“Supplemental Boeing Quality Requirements”) sections 3.1, 3.3, 3.4, 3.9, 3.10, and 3.12.

SQ02 – Quality records retention

The Supplier must maintain quality records traceable to its supplied products for at least ten years from the actual shipment date of each product. These records must be accessible to Boeing and regulatory authorities and, upon request by Boeing or regulatory authorities, must be made available in a reasonable period of time. Before disposing of any records after the retention period, the Supplier must notify Boeing.

Boeing may request the records, and the Supplier must provide them at no extra cost, using the media specified by Boeing.

If record retention requirements are specified in multiple contractually linked documents, the longer retention period takes precedence.

The Supplier must flow this requirement to its supply chain.

SQ03 – Work transfer

The Supplier and its supply chain must obtain Boeing’s written approval before commencing a Work Transfer. To request Boeing’s written approval, the Supplier must fill out and submit Boeing form X35781 (“Supplier Initiated Work Transfer Notification”).

The Supplier must flow this requirement to its supply chain.

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SQ04 – Advanced product quality planning (APQP)

The Supplier and Supplier's supply chain must comply with the requirements in Boeing form X38656 ("Advanced Product Quality Planning (APQP) & Production Part Approval Process (PPAP)") for the part numbers identified in the supply contract or its attachments as subject to APQP requirements.

SQ05 – Deliverable (fly-away) software conformity

When the Supplier provides software products intended for inclusion in a Boeing production end item destined for delivery to a Boeing customer, the Supplier must perform a software conformity review, also referred to as first article inspection in accordance with RTCA/DO-178B/C ("Software Considerations in Airborne Systems and Equipment Certification"), Boeing document D6-35071-1 ("BCA Airborne Software Development Standard"), and AS/EN/SJAC 9115 ("Quality Management Systems; Requirements for Aviation, Space and Defense Organizations - Deliverable Software").

SQ06 – Foreign object damage (FOD)

The Supplier must comply with AS/EN/SJAC 9146 ("Foreign Object Damage (FOD) Prevention Program – Requirements for Aviation, Space, and Defense Organizations").

The Supplier must flow this requirement to its supply chain.

SQ07 – Operator self-verification (OSV)

When the Supplier utilizes an Operator Self-Verification (OSV) program, the Supplier must comply with the requirements of AS/EN/SJAC 9162 ("Aerospace Operator Self-Verification Programs").

When the Supplier allows its supply chain to utilize OSV, the Supplier must flow this requirement to its supply chain.

SQ08 – Digital product definition (DPD)

For any Boeing-contracted Supplier location that utilizes Boeing-furnished type design Digital Product Definition (DPD) for manufacturing or inspection or that flows the Boeing-furnished type design DPD to its supply chain for such purposes, the Supplier must comply with D6-51991 ("Quality Assurance Standard for Digital Product Definition (DPD) at Boeing Supplier's") and obtain Boeing DPD capability approval.

SQ09 – Acceptance Authority Media (AAM)

The Supplier must comply with AS/EN/JISQ 9100 and 14 CFR Subchapter A Part 3 Subpart D requirements regarding the application of Acceptance Authority Media.
The Supplier must clearly define within its QMS how the use of AAM provides evidence of manufacturing process control and test/inspection status.
The Supplier must be able to provide evidence upon request of communication and training to its employees that:

- The application of AAM provides evidence of manufacturing process control and test/inspection status
- Any fraudulent, false or misleading use of AAM is considered a violation of federal regulation

The Supplier must maintain compliance to the AAM requirements by assessing its process and supply chain as part of its audit activities.
The Supplier must flow this requirement to its supply chain.

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SQ10 – Product acceptance

The Supplier must guarantee that all products, articles, or services—including components sourced from or provided by subcontractors, Suppliers, or Boeing—meet Boeing's requirements before being shipped to Boeing or Boeing's customers.

The Supplier is responsible for conducting all tests, inspections, and other quality controls of the Product during receiving, manufacturing, and through the Supplier's certification of conformance. The Supplier agrees to provide copies of test, inspection, and other product verification data upon request from Boeing's procurement agent.

Supplier sampling plans must comply with Boeing document D6-87617 ("Quality Requirements for Sampling Inspection Plans"). The Supplier must perform 100% inspection of product characteristics defined in sampling plans until Boeing approves the sampling plan in writing.

SQ11 – Measurement tolerance ratios

Measurement & Test Equipment (M&TE) must maintain a minimum tolerance ratio (TR) of 4:1 or a formal measurement evaluation must be performed, documented, and maintained in accordance with ASME B89.7.3.1-2001 (Guidelines for Decision Rules: Considering Measurement Uncertainty in Determining Conformance to Specifications) to verify equipment capability.

The Supplier must flow this requirement to its supply chain.

SQ12 – Approved process sources – D1-4426

The Supplier must utilize and comply with Boeing document D1-4426 ("Approved Process Sources"), which is available at:
http://active.boeing.com/doingbiz/d14426/index.cfm.

Note: The Supplier must flow the requirements specified in Appendix D to D1-4426 to its supply chain, as applicable.

Where Boeing specifications require the Supplier to use approved processors, the Supplier must flow this requirement to its supply chain.

SQ13 – First article inspection (FAI)

The Supplier must perform FAIs in accordance with AS/EN/SJAC 9102 ("Aerospace First Article Inspection Requirements"). Boeing reserves the right to conduct oversight and/or verification of the Supplier's FAI (commonly known as BFAI).

For FAIs completed on or after January 1, 2024, the Supplier must electronically fill out and complete Forms 1, 2, and 3 utilizing Net-Inspect and make those forms available to Boeing. The Supplier must also submit FAIs within the Net-Inspect software, designating Boeing Commercial Airplanes as the "customer."

For FAIs completed by the Supplier's supply chain on or after January 1, 2024, the Supplier or its supply chain must fill out and complete Forms 1, 2, and 3 utilizing Net-Inspect and make those forms available to Boeing.

The Supplier and its supply chain are not permitted to ship product to Boeing until all applicable FAI requirements have been completed.

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The Supplier must flow this requirement to its supply chain.

SQ14 – Conformity inspection

When the Supplier is authorized to complete FAA form 8130-9 (“Statement of Conformity”) on behalf of Boeing, the Supplier must adhere to the requirements outlined in Boeing document D6-83570 (“8130-9 Conformity Inspection Requirements”) and follow the instructions in FAA form 8120-10 (“Request for Conformity”).

SQ15 – Delegated product release verification

When the Supplier delegates product verification, the Supplier must comply with the requirements of AS/EN/SJAC 9117 (“Delegated Product Release Verification”).

When the Supplier allows its supply chain to delegate product release verification, the Supplier must flow this requirement to its supply chain.

SQ16 – Drop shipment of product

When the Supplier is contractually required to Drop Ship articles on Boeing’s behalf, the Supplier must comply with Boeing document D6-83720 (“Drop Ship Certification of Conformance Requirements for Boeing Suppliers”).

SQ17 – Certificate of conformity

With all shipments of product and processes delivered to Boeing, the Supplier must provide certificates of conformity in accordance with AS9163 (“Certificate of Conformity Requirements”).

The Supplier must flow this requirement to its supply chain.

SQ18 – Pack slip requirements for shipments to Boeing

The Supplier must include the following statement on the pack slip on all shipments to Boeing:

> “Seller hereby acknowledges that the parts and/or materials being shipped under this order are intended for use under Boeing’s Federal Aviation Administration (FAA) issued Production Certificate 700.”

It is allowable to replace “Seller” with the company name or “We.”

When parts or materials are being shipped to Boeing by an authorized sub-tier supplier on behalf of the contracted Supplier, the Supplier must flow this requirement to the authorized sub-tier supplier.

SQ19 – Pack slip requirements for direct shipments to Boeing customers

For direct shipments to a Boeing end-item customer, the Supplier must include the following statement on the pack slip:

> “It is hereby certified that (A) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Certificate No. 700 issued to The Boeing Company and (B) such parts and/or materials are new and in an airworthy condition.”

Where the Supplier has not been granted delegated inspection authority, Boeing source

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acceptance is required, and the Boeing Supplier Quality Representative must sign and date the above statement.

Where the Supplier has been granted delegated inspection authority, the Supplier must include the following statement, in addition to the above, with a dated signature of the Supplier's Quality Assurance representative:

"Delegated Boeing inspection authority has been granted for this Supplier."

When direct shipment is authorized, the Supplier must flow this requirement to its supply chain.

SQ20 – Nonconformance "use-as-is" and "repair" dispositions

To apply "use-as-is" or "repair" dispositions to nonconforming products, the Supplier must be granted Material Review Authority (MRA) in accordance with Boeing document D-13709-4 ("Material Review Requirements for Boeing Commercial Airplanes Build to Print Suppliers") or Boeing document D-13709-5 ("Material Review Requirements for Boeing Commercial Airplanes Suppliers with Design Responsibility").

SQ21 – Nonconformance submittal for Boeing disposition

If the Supplier is not granted MRA, or a nonconforming condition exceeds the scope of the supplier's delegated MRA, the Supplier must submit the nonconformance to Boeing for disposition in accordance with Boeing document D6-84111 ("Quality Assurance Requirements").

Boeing disposition must be provided to the Supplier prior to modification of the nonconforming product.

SQ22 – Nonconformance "use-as-is" and "repair" dispositions on customer sensitive items (CSI)

The Supplier must assess and process "use-as-is" or "repair" dispositions in accordance with Boeing document D6-86587 ("Boeing Commercial Airplanes (BCA) Customer Sensitive Items and Aesthetic Acceptance Criteria").

SQ23 – Excess inventory

When fulfilling an order with product from excess inventory, for which the Supplier was the original manufacturer, the Supplier must be able to demonstrate traceability to the original Boeing purchase document that authorized manufacture of the product.

The Supplier must not provide product from excess inventory that was previously rejected or returned by Boeing without prior written authorization from Boeing.

SQ24 – Casting and forging test reports

When the Supplier provides a casting or forging as a final product to Boeing, the test report for the casting or forging must accompany the packing sheet and include the purchase order number, the revision of the engineering drawing, and any Advance Drawing Change Notices (ADCNs) incorporated into the product, in accordance with the applicable specification.

Additionally, the Supplier must provide a copy of the test report to Boeing's procurement agent on or before the day of product shipment.

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SQ25 – Nonconformance escapement notifications

The Supplier must notify Boeing within 3 business days from the day of discovery of a potential or known nonconformance escape. If Boeing Engineering deems the condition to be potentially safety-critical, submit all available information immediately.

The Supplier must flow notification of potential of known nonconformance escape requirements to its supply chain.

For the 787 program, the Supplier must comply with the requirements in Boeing document D012Z026-01 (“787 Partners/Suppliers: Process Responsibilities for Nonconformances and Corrective Action”). For all other models, the Supplier must comply with the requirements in Boeing document D6-84111 (“Quality Assurance Requirements”).

SQ26 – Nonconformance corrective action

When Boeing notifies the Supplier of a detected nonconformance, the Supplier must immediately take action to eliminate the nonconformance on all products in Supplier’s control. Supplier must also maintain verification that root-cause corrective action has occurred and has resolved the subject condition.

SQ27 – Supplier funded source inspection (SFSI)

Supplier Funded Source Inspection: The Supplier must maintain 99.55% or greater quality acceptance rate for BCA as shown in Enterprise Supplier Performance Measurement (ESPM). If the Supplier does not maintain 99.55% or greater, the Supplier may be subject to Supplier Funded Source Inspection (SFSI).

SQ28 – Metallic raw materials

For procurements made after November 1st, 2025 outside of the Boeing Raw Materials Strategy (BRMS), the Supplier must comply with SAE AS6279 (“Standard Practice for Production, Distribution, and Procurement of Metal Stock”) for procurement, distribution, and production of all Boeing D042T601 (“Requirements for Engineering Approval of Metallic Raw Material Suppliers”) controlled metallic raw materials as listed in D1-4426 (“Approved Process Sources”). Supplier will maintain a documented chain of custody on these materials.

A chain of custody is an unbroken chain of documentation, that:
a) Maintains full traceability of the material’s unique identity with all heat, lot, and batch information from the original producer, through intermediate processing, distribution, and on to the consuming supplier.
b) Shows each AS/EN/SJAC/IA 9100 or AS/EN/SJAC/IA 9120 accredited Distributor or intermediate producer taking possession of the materials, with documentation traceable to the original mill producer’s certification.
c) Contains certifications of conformity and pack list documents with the physical manufacturing and distribution address locations clearly identified; listing the “received from” and “ship to” location addresses, and date(s) of transfer.
d) Certifications of conformity and chain of custody evidence will be verified to be acceptable and kept as a documented information requirement by the purchaser.

The Supplier must flow this requirement to its supply chain.

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SQ29 – Periodic test requirements

Supplier will conduct metallic material periodic testing for procurement of all D042T601 Engineering-approved metallic raw materials as listed in D1-4426; and for all: Aluminum alloys, Titanium alloys, Nickel-based alloys, and Steel alloys produced to SAE specifications or BMS7-series Boeing Material Specifications.

When the metallic material specification has defined acceptance criteria, the periodic tests shall be performed on the following properties:

- **Aluminum alloys**
  - Composition, Tensiles, Hardness, Conductivity, Compression, Bend.
- **Titanium alloys**
  - Composition, Tensiles, Microstructure, Macrostructure, Grain Size, Surface Contamination, Bend.
- **Steel & Nickel-based alloys**
  - Composition, Tensiles, Microstructure, Macrostructure, Average Grain Size, Decarburization, Microhardness, Hardness, Bend.

When the applicable specification contains no specified purchaser or periodic test frequency, test intervals shall be defined and documented by the Supplier based on a risk assessment performed under AS/EN/SJAC/IA 9100 for each Producer source of material specification, product form, alloy, class, and grade.

Note: These periodic test requirements are in addition to the requirements of D6-82479, and to any Purchaser acceptance requirements in the raw material specification. When applicable, Aluminum alloy chemistry/composition on wrought intermediate or final product forms, may be tested within the sampling guidelines of ASTM B985.

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5. References

Aerospace Standards Publications

The following aerospace standards are referenced in this document:

AS6279 “Standard Practice for Production, Distribution, and Procurement of Metal Stock”

AS9163 "Aerospace Series – Certificate of Conformity Requirements”

AS/EN/SJAC 9100 "Quality Management Systems – Requirements for Aviation, Space and Defense Organizations"

AS/EN/SJAC 9102 “Aerospace First Article Inspection Requirement”

AS/EN/JISQ 9103 "Variation Management of Key Characteristics"

AS/EN/JISQ 9110 “Quality Management Systems – Requirements for Aviation Maintenance Organizations”

AS/EN/SJAC 9120 "Quality Management Systems - Requirements for Aviation, Space and Defense Distributors"

AS/EN/SJAC 9115 "Quality Management Systems – Requirements for Aviation, Space and Defense Organizations – Deliverable Software"

AS/EN/SJAC 9162 “Aerospace Operator Self-Verification Programs”

AS/EN/SJAC 9138 “Aerospace Series – Quality Management Systems Statistical Product Acceptance Requirements”

AS/EN/SJAC 9117 “Delegated Product Release Verification”

AS/EN/SJAC 9146 “Foreign Object Damage (FOD) Prevention Program – Requirements for Aviation, Space, and Defense Organizations”

ASME B89.7.3.1-2001 “Guidelines For Decision Rules: Considering Measurement Uncertainty In Determining Confirmation To Specification”

ASTMB985 “Standard Practice for Sampling Aluminum Ingots, Billets, Castings and Finished or Semi-Finished Wrought Aluminum Products for Compositional Analysis.

RTCA/DO-178B/C "Software Considerations in Airborne Systems and Equipment Certification"

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6. Boeing Documents and Forms

The following Boeing documents and forms are referenced in this document:

D012Z026-01 “787 Partners/Suppliers: Process Responsibilities for Nonconformances and Corrective Action”

D042T601 “Requirements for Engineering Approval of Metallic Raw Material Suppliers”

D-13709-4 “Material Review Requirements for Boeing Commercial Airplanes Build to Print Suppliers”

D-13709-5 “Material Review Requirements for Boeing Commercial Airplanes Suppliers with Design Responsibility”

D1-4426 “Approved Process Sources”

D6-35071-1 “BCA Airborne Software Development Standard”

D6-51991 “Quality Assurance Standard for Digital Product Definition (DPD) at Boeing Suppliers”

D6-82479 “Boeing Quality Management System Requirements for Suppliers”

D6-83570 “8130-9 Conformity Inspection Requirements”

D6-83720 “Drop Ship Certification of Conformance Requirements for Boeing Suppliers”

D6-84111 “Supplier Nonconformance Management Requirements”

D6-86587 “Boeing Commercial Airplanes (BCA) Customer Sensitive Items and Aesthetic Acceptance Criteria”

D6-87617 “Quality Requirements for Sampling Inspection Plans”

X35781 “Supplier Initiated Work Transfer Notification”

X38656 “Advanced Product Quality Planning (APQP) & Production Part Approval Process (PPAP)”

Revision Record

Release/Revision	**New**
Contract Number (if required)	N/A
Limitations	None
Description of Change	Original Release
Authorization for Release	

AUTHOR:	Patrick Whitehouse	1701704
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	66-CT-6E30	08/22/2022
	Organization Number	Date
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	Organization Number	Date
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	9M-ST-EUA0	August 31, 2022
	Organization Number	Date

Release/Revision	**A**
Contract Number (if required)	N/A
Limitations	None
Description of Change	8.4.2 Type and Extent Control Remove Supplier has been granted inspection delegation authority. 8.5.1 Control of Production and Service Provision Removed “objective” evidence. 8.5.1.2 Validation and Control of Special Processes Removed:

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All composite raw materials listed in D1-4426, "Boeing Approved Process Sources" Must be shipped or manufactured by sources specified therein. All metallic raw materials listed in D1-4426, "Boeing Approved Process Sources" Must be supplied by sources therein or a United States source. If you are not presently on distribution for the document, a copy may be obtained by contacting the procurement representative whose name appears on the face of this order. Supplier will use D1-4426, "Boeing Approved Process Sources", and D6-87282 38 of 47 BOEINGPROPRIETARY–EXPORT CONTROLLED –ECCN: 9E991 REV D furnish test reports and processor certification with each shipment.

8.7 Control of Nonconforming Outputs. BOEING ESCAPEMENT NOTIFICATION FOR NONCONFORMANCE (Section 1) AND NONCOMPLIANCE (Section 2) language revision.

Mandatory updates due to Regulatory Requirements. Clarity regarding what data points are required to be provided to Boeing by Seller within 3 Business days and which data points are required to be provided within 10 Business days.

Authorization for Release

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	Organization Number	Date

Release/Revision	**B**
Contract Number (if required)	N/A
Limitations	None

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Description of Change

Added: Number subsections (ie 1.0, 1.1 ect.)

8.1 Operational Planning and Control Revised:

1.3 When directed by Boeing, Supplier will comply with and flow down to its supply chain the requirements of Boeing Form X38656, “Advanced Product Quality Planning (APQP) & Production Part Approval Process (PPAP).

Revised the Product Applicability language of the APQP/PPAP language: Applicable for any Contract awards after July 1st 2023 Requirement for APQP will be identified in attachment 1 of the Procurement Agreement by part number.

8.1 Operational Planning and Control Revised:

1.0 ‘Work-Transfer’ is defined as movement or re-location of work to be performed, either by Seller or Seller’s Supply Chain, from one facility to another (including from one location at a facility to another location at the same facility), from Seller to a Supplier in Seller’s Supply Chain, from a Supplier in Seller’s Supply Chain to Seller, or from one Supplier in Seller’s Supply Chain to another Supplier in Seller’s Supply Chain. Seller will not and will ensure supply chain will not, Initiate a Work Transfer without Boeing’s prior written approval. Seller will complete and submit Boeing form X35781 “Supplier Initiated Work Transfer Notification” (including required implementation plans).

Seller acknowledges the Work-Transfer approval process. May take 120 M- days, depending on: (i) complexity of the Work-Transfer; (ii) Seller’s, including Seller’s Supply Chain, as applicable, cooperation and timeliness in the process; (iii) completeness of plan(s) and/or submittals; and (iv) regulatory notifications and approvals, if any.

Seller agrees the Work-Transfer process may not occur according to Seller’s schedule.

Boeing reserves the right to deny a Work-Transfer.

8.1.4 Prevention of Counterfeit Parts Added:

PC700 Products For BGS-C Unique Quality Purchasing Data Requirements (applies to McDonnell Douglas (MD) Heritage part numbers)

8.2.1 Customer Communication Added:

1.1 Regulatory Approvals: For aircraft regulated by Civil Aviation Authorities, regulatory approval may be required for Seller to make direct sales (does not include "direct ship" sale through Boeing) of modification or replacement parts to owners/operators of type-certificated aircraft. Regulatory approval, such as FAA Parts Manufacturer Approval (PMA), is granted by Civil Aviation Authorities. Seller agrees not to engage in any such direct sales of Products or Services under this Agreement without appropriate regulatory approval. For Seller proprietary parts, Seller agrees to notify Boeing of application for regulatory approval and the subsequent approval or denial of same. Upon receipt of proof of applicable regulatory approval, Boeing may list

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Seller in the illustrated parts catalog as seller of that part. Unless explicit contractual direction is given to the contrary, no articles (or constituent parts thereof) ordered by Boeing Commercial Airplane Co. purchased under this agreement shall contain any Federal Aviation Administration- Parts Manufacturer Approval (FAA-PMA) markings and the accompanying paperwork (e.g., packages, shippers, etc.) shall not contain any FAA-PMA markings.

8.3.2 Design and Development Planning Added:

PC700 Products For BGS-C Unique Quality Purchasing Data Requirements (for McDonnell Douglas (MD) Heritage part numbers)

1.1Where Boeing specifications and/or processes are listed within the detail design, specification control, or envelope drawing, incorporated by this purchase document, Seller shall adhere to the latest revision of the Boeing specification and/or process, unless otherwise specified in the purchase document.

8.4.2 Type and Extent Control Removed:

Boeing source acceptance is required. Source acceptance may include in-process activities such as processing, fabrication, witness testing in addition to final inspection. Supplier must notify the Boeing Supplier Quality Representative (SQR) that services your facility via the Supplier Quality Information System (SQIS) immediately upon demand issued. The Supplier must coordinate with the SQR an acceptable date for source acceptance and provide all requested information as may be required. Supplier must provide the necessary use of the Supplier’s facility and equipment to perform the inspection. In the event you are unable to access Supplier Quality Information System (SQIS) contact the Boeing Field Representative, or Boeing Procurement Agent for assistance.

8.5.1 Control of Production and Service Provision Removed:

Special Supplier stamping instructions for the Boeing Production Record of Acceptance

Note: Applies to operations with Coordinate Measuring Machine (CMM) operations.

a.) If bench and CMM operations exist and Supplier does not use a CMM for Product inspection, Supplier's quality inspector will inspect all features at the bench and must stamp/date the bench operation. Supplier's quality inspector must also stamp/date the CMM operation and write "See Over" next to the CMM acceptance stamp. A statement is then written on the back of the page stating, "Full D6-87282 41 of 47 BOEINGPROPRIETARY–EXPORT CONTROLLED –ECCN: 9E991 REV D inspection performed; CMM not required." Supplier's quality inspector then places another stamp impression and the date next to the statement.

b.) If only a CMM operation exists and Supplier does not use a CMM for Product inspection and there is no bench inspection operation, Supplier's quality inspector will inspect all features at the bench and must stamp/date the CMM operation and write "See Over" next to the

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CMM acceptance stamp. A statement is then written on the back of the page stating, "Full inspection performed; CMM not required." Supplier's quality inspector then places another stamp impression and the date next to the statement. Note: In cases where a CMM operation exists and the Supplier possesses and utilizes a CMM, normal Supplier Quality stamping practices must be followed.

8.5.1 Control of Production and Service Provision Removed:

Enclose evidence (I.E. Certified metallurgical or physical test reports, where required by controlling specifications), along with dimensional data and functional test data, as applicable, with the first shipment only of drop shipped product to another Boeing supplier. Enclose the recorded/required data on appropriate first article inspection report/forms.

8.5.1 Control of Production and Service Provision Revised:

1.0 Seller must inspect or otherwise verify that all products, articles, or services, including those components procured from or furnished by subcontractors, suppliers, or Boeing, conform to Boeing's requirements, prior to shipment to Boeing or Customer. Seller shall be responsible for all tests, inspections, and other controls of the Product during receiving, manufacture and through Seller's certification of conformance. Seller agrees to furnish copies of test, inspection, and/or other control data upon request from Boeing's Procurement Representative

8.5.1 Control of Production and Service Provision Revised:

1.1 Seller shall comply with requirements of document AS9138 "Aerospace Series – Quality Management Systems Statistical Product Acceptance Requirements", as may be amended from time to time, whenever applying statistical sampling methods as a means to ensure product, article, or service conformance. Seller's statistical sampling procedure/plan must include the following to be compliant:

• Minimum protection levels as defined within AS9138 Table A1

• C=0 criteria as defined within AS9138 Section 3.11

• Sampling restrictions as contained within AS9138, Section 4.3 Safety/Critical Characteristics, and

• Sampling requirements and/or prohibitions contained within the approved part/product Design

Buyer reserves the right to disallow a supplier's statistical methods for product acceptance for specific sites/programs, parts or characteristics, and to conduct surveillance at Seller's facility to assess compliance to the requirements of AS9138 and/or part/product Design Data sampling requirements.

Aerospace standards such as AS9138 can be obtained from SAE International at: http://standards.sae.org

8.5.1.1 Validation and Control of Special Processes Added:

PC700 Products For BGS-C Unique Quality Purchasing Data Requirements (for McDonnell Douglas (MD) Heritage part numbers)

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1.1 McDonnell Douglas (MD) Heritage Spares – Seller parts containing metallic raw material from foreign sources shall be procured in accordance with DMS2201, Procurement from Foreign Sources - Metallic Raw Materials QPL (Qualified Product List) and D1-4426 Approved Process Sources Metallic Raw Materials – Non-USA & Titanium Ingot (All) - process codes 600-699. Seller shall maintain on file a certification traceable to each product listing the material and the foreign sources' name and address.

8.5.1.3 Production Process Verification Revised:

1.0 Supplier must perform First Article Inspections (FAI) in accordance with AS/EN/SJAC 9102, Aerospace First Article Inspection Requirement Boeing reserves the right to conduct surveillance of the supplier’s FAI, referred to as Boeing First Article Inspection (BFAI)

Supplier shall utilize, document completion and submit FAI within the Boeing licensed Net-Inspect software.

Furthermore, where Supplier is required to document FAIs in the Net-Inspect software, FAIs of the Supplier's Supply chain shall also be documented in Net-Inspect.

Supplier and Supplier’s Supply chain are not permitted to ship product to customer until all applicable FAI requirements have been fulfilled.

8.5.1.3 Production Process Verification Added:

1.2 Requirement Consumption Review (RCR): RCR is used to Established confidence that Seller understands contractual and Engineering requirements imposed on this contract. The goal of the RCR is to deploy a collaborative tool for earlier Supplier engagement to ensure the successful execution of contract and/or technical requirements.

If an RCR is deemed required by Buyer, Buyer’s Supplier Quality Representative/Engineer and/or Procurement Agent will communicate and coordinate with Seller to schedule the RCR as an early involvement activity, intended to be performed prior to start of manufacturing and/or servicing of goods. RCR may be conducted at Buyer’s discretion on existing production to identify and mitigate risks in the Supplier requirement consumption process.

Seller shall make records of contract requirements review, production planning, training and any other applicable records readily available at time of RCR. Buyer reserves the right to review Seller’s flow-down of contracts and engineering requirements to Seller’s subcontractor (s).

10.2 Nonconformity and Corrective Action Added:

1.2 Acceptance/Rejection of Seller's Root Cause/Corrective Action: Boeing reserves the right to reject any root cause and/or corrective action determination provided by the Seller and may request subsequent investigation and/or corrective action to either Boeing or Seller-initiated corrective action requests. If the Seller is late in responding to corrective action requests by Boeing, or if Boeing

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requires subsequent corrective action, Boeing reserves the right to withhold acceptance of shipments either at source or destination until Seller corrective action is submitted to Boeing's satisfaction.

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Release/Revision **C**

Contract Number (if required) N/A

Limitations None

Description of Change

8.1 Operational Planning and Control.

Removed: (including from one location at a facility to another location at the same facility)

1.0 ‘Work-Transfer’ is defined as movement or re-location of work to be performed, either by Seller or Seller’s Supply Chain, from one facility to another, from Seller to a Supplier in Seller’s Supply Chain, from a Supplier in Seller’s Supply Chain to Seller, or from one Supplier in Seller’s Supply Chain to another Supplier in Seller’s Supply Chain (including to any affiliate of Seller).

Seller will not and will ensure Supply Chain will not, Initiate a Work Transfer without Boeing’s prior written approval. Seller will complete

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and submit Boeing form X35781 “Supplier Initiated Work Transfer Notification” (including required implementation plans).

Seller acknowledges the Work-Transfer approval process. May take 120 M-days, depending on: (i) complexity of the Work-Transfer; (ii) Seller’s, including Seller’s Supply Chain, as applicable, cooperation and timeliness in the process; (iii) completeness of plan(s) and/or submittals; and (iv) regulatory notifications and approvals, if any.

Seller agrees the Work-Transfer process may not occur according to Seller’s schedule.

Boeing reserves the right to deny Work-Transfer.

8.5 Product and Service Provision

Added: Flow-Down Applicability

Must be flowed-down to Supply Chain

1.0 THE SUPPLIER WILL PLACE THE FOLLOWING STATEMENT ON THE SHIPPING DOCUMENTATION OF ALL SHIPMENTS TO BOEING:

"Seller hereby acknowledges that the parts and/or materials being shipped under this order are intended for use under Boeing's Federal Aviation Administration (FAA) issued Production Certificate 700 and no articles (or constituent parts thereof) or the accompanying paperwork (e.g., packages, shippers, etc.) contain any Federal Aviation Administration- Parts Manufacturer Approval (FAA-PMA) markings."

THE PREFERRED LOCATION FOR THE STATEMENT IS ON THE SHIPPING DOCUMENT, NEXT TO, OR FOLLOWING, THE CERTIFICATE OF CONFORMANCE (C of C). THE STATEMENT MAY BE PRINTED, STAMPED OR ATTACHED AS A LABEL OR STICKER TO THE SHIPPING DOCUMENTATION. IT IS ALLOWABLE TO D6-87282 45 of 47 BOEINGPROPRIETARY–EXPORT CONTROLLED – ECCN: 9E991 REV D REPLACE "Seller" WITH THECOMPANY NAME OR "WE"

Product Applicability: PC700 Products in support of FAA approved manufacturing and quality control systems as set forth in FAA PC700 Certificate issued to Boeing.

Flow-Down Applicability: Must be flow-down to Supply Chain.

1.1 THE SUPPLIER WILL PLACE THE FOLLOWING STATEMENT ON ALL SHIPPING DOCUMENTS:

It is hereby certified that (A) The parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Certificate NO. 700 issued to The Boeing Company and (B) Such parts and/or materials are new and in an airworthy condition. (SIGNED) SUPPLIER QUALITY ASSURANCE (TITLE) IF SUPPLIER HAS BEEN DELEGATED INSPECTION AUTHORITY PLACE

FOLLOWING STATEMENT ON PACKSLIP: "Delegated Boeing inspection authority has been granted for this supplier".

Product Applicability: PC700 Products (Direct Ship of product where Boeing has authorized source acceptance delegation)

Flow-Down Applicability: Must be flow-down to Supply Chain

8.5.1.3 Production Process Verification

Revised: Product Applicability to add “for PNs”

Product Applicable: PC700 Products: Applicable for any FAI after September 30, 2022 or where required earlier than September 30, 2022 when supplier received a Q48 P.O. Note Required use of Net-Inspect for PNs identified in attachment 1 of the procurement agreement.

1.0 Supplier must perform First Article Inspections (FAI) in accordance with AS/EN/SJAC 9102, Aerospace First Article Inspection Requirement Boeing reserves the right to conduct surveillance of the supplier’s FAI, referred to as Boeing First Article Inspection (BFAI) Supplier shall utilize, document completion and submit FAI within the Boeing licensed Net-Inspect software.

Furthermore, where Supplier is required to document FAIs in the Net-Inspect software, FAIs of the Supplier's Supply Chain shall also be documented in Net-Inspect.

Supplier and Supplier’s Supply Chain are not permitted to ship product to customer until all applicable FAI requirements have been fulfilled.

8.5.1.3 Production Process Verification

Added: Made Requirement plural added “s”

Revised: Flow-Down Applicability to N/A

1.2 Requirements Consumption Review (RCR)

8.5.2 Identification ad Traceability

Removed: 1.2 Supplier must rubber stamp raw material requiring a test sample with a verification mark across the cut-line prior to cutting the sample from the stock. Approximately one half of the impression is to be on each side of the cut line. The Supplier code must be stamped D6-87282 46 of 47 BOEINGPROPRIETARY–EXPORT CONTROLLED –ECCN: 9E991 REV D within the verification stamp. The purchase order number, Supplier code and heat lot number must be applied to the raw stock and the sample of the stock from which it was cut.

8.6 Release of Product and Services

Removed: 1.0 Remove Drop Ship Requirements for Boeing Suppliers: When Supplier is contractually required to Drop Ship articles on Boeing’s behalf, Supplier must adhere to the requirements contained within Boeing Document D6-83720, “Drop Ship Requirements for Boeing Suppliers”.

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Release/Revision **D**

Contract Number (if required) N/A

Limitations None

Description of Change

8.5.1 Control of Production and Service Provision

Added **1.2** FOD Requirement back into document.

1.2 Supplier is required to establish and maintain a FOD prevention program compliance with AS8EN/JAC 9146 Foreign Object Damage (FOD) Prevention Program – Requirements for Aviation, Space, and Defense Organizations.

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Contract Number (if required)	N/A
Limitations	None
Description of Change	Document rewrite
Authorization for Release	

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Release/Revision	**F**
Contract Number (if required)	N/A
Limitations	None

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Description of Change	**3. General Requirements** Revised QPA, MPA and added Product Audits (PA) **SQ28 Metallic raw materials** Replaced shall with must. Minor formatting updates to entire document.

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Release/Revision	**G**
Contract Number (if required)	N/A
Limitations	None
Description of Change	**4. Requirements** **SQ10 – Product Acceptance** Revised D6-87617 document name to “Quality Requirements for Sampling Inspection Plans” **6.0 Boeing Documents and Forms** Revised D6-87617 document name to “Quality Requirements for Sampling Inspection Plans”

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Release/Revision	**H**
Contract Number (if required)	N/A
Limitations	None
Description of Change	**3. General Requirements** Removed “in the document” and adds clarification. **4. Requirements** SQ04 - Added clarification on when APQP applies. **SQ09 – Acceptance Authority Media (AAM)** Update CFR reference: 14 CFR Subchapter A Part 3 Subpart D. **SQ10 – Product Acceptance** Replaced the word “Seller’s” with the word “Supplier’s” **SQ11 – Measurement Tolerance Ratios** Rewrote the requirement to clarify what is needed when Suppliers are unable to meet the 4:1 tolerancing ratio. Added flow down to the Supply Chain.

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SQ13 - First Article Inspection (FAI)

Removed verbiage requiring all the supply chain to submit FAIRs to BCA as the customer in Net-Inspect, and clarification that FAIRs submitted prior to Jan 1, 2024 are allowed to be in PDF format in Net-Inspect.

SQ25 - Nonconformance escapement notifications

Added required submission immediately if found to be potentially safety-critical. Added flow down to the Supply Chain.

SQ28 - Metallic raw materials

Added "outside of the Boeing Raw Materials Strategy (BRMS)".

SQ29 - Periodic test requirements

New requirement.

5. References

Added: AS9163, ASME B89.7.3.1-2001, and ASTMB985

6. Boeing Documents and Forms

Added D6-84111 to the document list.

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