



## **BOEING QUALITY / CONTRACT CLAUSES**

The following Quality / Contract Clauses will be identified on GKN Aerospace-Orangeburg Purchase Orders or Purchase Schedules as applicable.

### **QA-BOE: BOEING**

List of applicable programs:

- 737 Max Winglet
- 787 Section 47 Floor Grids

#### **Control of Digital Data:**

Boeing document D6-51991 "Quality Assurance Standard for Digital Product Definition at Boeing Suppliers" is applicable as defined below:

Digital Product Definition (DPD), Model Based Definition (MBD).

If the Supplier receives, downloads and or uses Boeing DPD / MBD geometry in any format then Supplier shall conform to Boeing document D6-51991 and obtain Company approval as DPD / MBD Capable.

If the Supplier provides Boeing DPD/MBD geometry to sub-tiers, the Supplier shall impose Boeing document D6-51991 as a requirement and is responsible for the sub-tier's conformance.

#### **ITAR/ EAR Controls:**

Specific ITAR or EAR restrictions and controls are flowed down via Manufacturing License Agreements (or similar) or notices attached to the applicable Data Transfers Records (DTR).

#### **Materials & Processes:**

The Supplier is to maintain compliance with D1-4426 Boeing Approved Process Sources.

D1-4426 defines the approved sources for special processing, composite raw materials, composite products, aircraft bearings, designated fasteners, and metallic raw materials.

D1-4426 shall be reviewed regularly for changes in the approval status of process sources. If a processing source, used in support of this contract, loses its Boeing D1-4426 approval, then the Company must be informed immediately.

The Suppliers Certificate of Conformity shall include Process specification number with revision status, processing date(s) and name and address of processor(s) performing each of the D1-4426 process(es).

Tooling:

Any Boeing or Government owned accountable tooling is to be controlled per Boeing Specification D33200-1 Boeing Suppliers Tooling. Any issues relating to the accountable tooling and or the requirements of D33200-1 are to be directed to GKN-Orangeburg Quality Manager.

Inspection:

Sampling plans based on statistical analysis if used in lieu of 100% inspection for on-receipt, in-process or final inspections shall conform to the requirements of Boeing Document D1-8007.

Sampling plans for engineering defined Safety or Critical characteristics are not permitted unless prior written acceptance of the plan is obtained (via the Company) from the Boeing design authority, that is unless the design documentation specifically defines a method of acceptance.

Validation of Raw Material Test Reports

Test reports shall be checked 100%.

Concessions Applications

Concessions will be submitted to GKN Orangeburg.

Do not deliver the affected product until any required further work identified by the Engineering disposition has been complete, and or you are in receipt of a completed concession, or have otherwise been authorized by the Company Permission to Ship (PTS) process to deliver the product with an open concession application.

When delivering a product that is subject to a concession or an assembly that contains a conceded part, it shall be delivered under cover of a separate Certificate of Conformity (i.e. not included on the same C of C as other conforming products being delivered at the same time). The Company or Boeing concession number must be referenced on the Supplier's Certificate of Conformity.

A red warning label must be attached to the deliverable product; this warning label must reference the conceded product part number and the applicable Company or Boeing concession number, and shall have a statement saying that the label is not to be removed until the product is assembled by GKN on the Winglet.

Notice of Escape:

The Supplier shall notify the Company in writing when a non-conformity or potential non-conformity is discovered for product that has already been delivered to the Company; this notification must be within 3 days of the Supplier becoming aware of the escape. If there is the potential for the escape to affect flight safety, then the Company must be notified immediately.

#### Delegation of Product Verification:

If the Supplier delegates product verification to a sub-tier, then Supplier shall conform to the requirements of AS9015 "Supplier Self Verification Process Delegation Requirements". The Company (and Boeing) reserves the right to conduct surveillance at Supplier's facility to determine conformance to the requirements of AS9015. The delegation of product verification does not relieve the supplier of its obligation under this contract.

#### US Federal Clean Air Act

Definition. "Ozone-depleting substance," as used in this clause, means any substance the US 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.

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).

#### Excess Inventory

The Supplier shall control all inventory of Company or Boeing proprietary product that is in excess of contract quantity in order to prevent product being sold or provided to any third party without prior written authorization from the Company.

#### Certification Statement

The supplier's statement of conformity shall include the following statement:

"Seller [it is acceptable to replace "Seller" with the Company name or "We"] 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".

The statement may be printed, stamped or attached as a label or sticker).

#### FOD Prevention Program

Effective from 1<sup>st</sup> January 2016 Suppliers shall establish and maintain a Foreign Object Debris/ Damage (FOD) prevention programme in accordance with Boeing document D6-852622 "Foreign Object Debris / Foreign Object Damage (FOD) Prevention Requirements for Boeing Suppliers".

### Operator Self Verification Program

Effective from 1<sup>st</sup> April 2016 if Supplier uses an Operator Self-Verification (OSV) programme, Supplier shall comply with the requirements of Boeing document D6-85748 "Aerospace Operator Self-Verification Programs". Note upon release of the SAE industry standard AS9162 "Aerospace Operator Self-Verification Programs", the Boeing document D6-85748 is to be cancelled and Suppliers shall comply with the requirements of AS9162.

### Flow-down of Requirements

All provisions of the requirements set forth in the Contract, Purchase Order and related Clauses are to be flowed down to the Supplier's sub-tier supply chain.

### Change in Manufacturing Facility Location/ Work Transfer:

Work planned to be transferred (per AS9100C 7.1.4 ..... *from one organization facility to another, from the organization to a supplier, from one supplier to another*) and or any change to the manufacturing facility location of contracted part or assembly requires to be notified to the Company.

The Supplier shall notify the Company within 5 days of knowing:

- Details of work being transferred
- 'To-be' supplier's name & address
- 'To-be' supplier's Quality contact details
- First production target date

The Company may require Supplier to complete Boeing Form X36219 "Supplier Initiated Work Transfer Questionnaire" to support the Company's application to Boeing (the Company would supply a copy of the questionnaire if required).

Written approval from the Company/Boeing is required prior to the commencement of manufacture by the 'To-be' supplier.

### Records:

Manufacturing quality records to be maintained per PUR 1.1.2.

FAI records are to be retained for a minimum of 10 years after date of last shipment.

No quality records are to be disposed of unless authorized by the Company.

### Regulatory Approval

For aircraft regulated by the Civil Aircraft Authorities, regulatory approval may be required for Seller to make direct sales of modification or replacement parts to owners/operators. Seller agrees not to engage in such direct sales of products or services without prior GKN, Boeing or regulatory approval.

Unless explicit contract direction is given to the contrary, no articles (or constitute parts thereof) ordered by Boeing Commercial Aircraft (via GKN) shall contain any Federal Aviation Administration- Parts Manufacturer Approval (FAA-PMA) markings and the accompanying paperwork (eg shippers etc) shall not contain any FAA-PMA markings.

First Article Inspection

Boeing reserves the right to conduct surveillance of the Seller's FAI, referred to as Boeing FAI (BFAI). BFAI may include in-process inspections. Suppliers will be notified via GKN, and Supply will coordinate with GKN the schedule for such BFAI activity. Supplier shall make available for review all related FAI supportive information.

All FAI reports, completed per AS9102, shall be uploaded into Net-Inspect.