

Triumph Actuation Systems - Yakima

<i>Quality Work Instruction</i>	QWI 06.01.02	
	REV R	PAGE 1 OF 31

PURCHASE ORDER QUALITY CLAUSES

Quality Work Instruction		QWI 06.01.02	
		REV R	PAGE 2 OF 31

REV	ISSUE DATE	PREPARED	APPROVED	AFFECTED PARA.	COMMENTS
-	10/18/17	A. Macias	T. Hennessy	All	New issue, prepared for AS9100 Rev D compliance Added QA814 Deleted QA205, QA206 & QA609
A	8/28/18	M. Valko	T. Hennessy	QA101(c), QA105 QA117, QA118, QA120, QA121, QA205, QA206, QA302	Added the word "Obsolete"
				QA101(e)	Revised text to include Group, removed reference to QA101(c)
				QA106	Replaced "Canceled" with "Deleted"
				QA113	Added "and/or Supplier Quality"
				QA119, QA204, QA305, QA610	Added the word "Deleted"
				QA125	Replaced "Sourcing" with "Supplier"
				QA204, QA307, QA404, QA650, QA787	Deleted
				QA309	Added "each" with reference to each shipment
				QA401	Added last sentence (combined QA404 with QA401)
				QA403	Deleted last sentence "All shelf life programs..."
				QA501	Revised Eng. STD 8-0001 document name
				QA506	Added last paragraph
				QA601	Restructured sentence
				QA607	Restructured, added reference to E-SCAR and E-NOE
B	9/27/18	M. Valko	T. Hennessy	QA680	Changed verbiage to address non-DSQAR suppliers
C	3/6/19	M. Valko	T. Hennessy	QA108 QA110 QA116 QA680	Minor changes to add clarity Deleted - Obsolete Restructured Quality Clause DSQAR note updated
D	4/9/19	M. Valko	T. Hennessy	QA815	New – PLR returns
E	6/7/19	M. Valko	T. Hennessy	QA816 References	New – Boeing DPD Process flow-down requirement

Printed Copies Will Not Be Kept Up To Date

Quality Work Instruction		QWI 06.01.02	
		REV R	PAGE 3 OF 31

					Added link to Boeing Web Site (D1-4426)
F	11/20/19	M. Valko	T. Hennessy	QA122 QA403	Revised Q-Note for clarification Removed Buyer and replaced with Supplier Quality Representative
G	1/13/2020	M. Valko	T. Hennessy	QA101 QA127 QA817	New QA101 (h) to address heat lot requirements for shipments Revised QA127 to make it more general Added to address direct shipments to Textron
H	11/5/2020	M. Valko	T. Hennessy	QA101 (j) QA102 QA103 QA607	Supplier to provide full material description on CofC Supplier to include requirement to document SNCR's and serial number on CofC Revised requirements Add text for supplier request for a corrective action extension
J	6/4/2021	M. Valko	T. Hennessy	QA113 QA125 QA131 QA309	Rewrite of Quality Clause QA113 Remove reference to Spec. documents Added Clause to address serial number tracking, serial number log and per shipment notification Revised to add clarity
K	8/18/2021	J. Rieker A. Macias	T. Hennessy	QA107 QA614 QA626	Updated link Corrected Boeing Document Number Added new clause for Commodity 8 (for MIL only)
L	2/21/2022	A. Macias J. Rieker	T. Hennessy	QA140 QA145 QA805 QA806 QA807 QA808 QA809 QA810 QA811	Added Added Consolidated with QA806 through QA811 Consolidated into QA805 & Deleted Consolidated into QA805 & Deleted Consolidated into QA805 & Deleted Consolidated into QA805 & Deleted Consolidated into QA805 & Deleted

Quality Work Instruction		QWI 06.01.02	
		REV R	PAGE 4 OF 31

M	10/3/2022	A. Macias J. Rieker	T. Hennessy	QA623	Removed NAS 412 and replaced with AS9146
N	9/18/2023	A. Macias	T. Hennessy	QA102	Reference Engineering Standard TAS-Y 8-0001 document.
P	11/30/2023	A. Macias	T. Hennessy	QA127 QA401 QA607 QA680 QA690 QA805	Update references. Update standards. Define target timing. Update references. Deleted-Obsolete. Add Point 5.
R	1/7/2025	A. Macias	T. Hennessy	QA115 QA130 QA131 QA303 QA507 QA608 QA625 QA710	Revised to address Assembly FAIR. Deleted, combined into QA608. Define requirement to supplier. Correct grammar. Remove "prior shipment". Consolidated requirement to supplier. Deleted – Obsolete. Specify customer requirement.

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 5 OF 31

TABLE OF CONTENTS

SECTION	PAGE NO.
PURPOSE	6
GENERAL	6
RESPONSIBILITY.....	6
REFERENCES	6
WORK INSTRUCTION.....	6
1.0 List of Quality Clauses	6

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 6 OF 31

PURPOSE

The purpose of this instruction is to identify the “Quality Clauses” used to identify quality requirements on production purchase orders.

GENERAL

Use of “Quality Clauses” is described in QP 8.4.

RESPONSIBILITY

Quality and Supplier Quality are responsible for maintaining the Quality Clauses identified in this instruction.

REFERENCES

QP 8.4	Control of Externally Provided Processes, Products and Services
QP 8.4.2	Designated Supplier Quality Assurance Representative
AS9100	Aerospace Quality Management System
Form 8.4.2.1	Supplier Non-conformance Report
Form 7.4.1-1	Process Approval
MEP 0905	Manufacturing Standard
QWI 9.1	Statistical Techniques
SQAM001	Supplier Quality Assurance Manual
D1-4426	Boeing Approved Processor (http://active.boeing.com/doingbiz/d14426/GetAllProcessors.cfm)

WORK INSTRUCTION

1.0 List of Quality Clauses

Note – When QA101 is invoked, apply as applicable below:

QA101 (a)	Raw material certifications (C of C) and test reports (physical & chemical) for each heat lot from the material mill source shall accompany each shipment to Triumph Actuation Systems - Yakima in English language. The material verification test laboratory, used to test the physical and chemical properties, shall be accredited to ISO/IEC 17025.	Applicable when Raw Material and Manufactured Parts (exception “catalogue hardware”)
-----------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 7 OF 31

Additionally, certs from the distributor may be supplied for traceability.

- | | | |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| QA101 (b) | <p>Non-USA materials or Titanium mills -- must be approved on the Boeing D1-4426. This requirement should reference the D1-4426 procedure on Boeing's website, but is the flow down of:</p> <p>"600 series codes identify those metallic raw materials that require Boeing Engineering approval. Approval to these codes is required only for non-U.S.A. raw material suppliers and all titanium ingot suppliers (non-U.S.A. and U.S.A.) for Boeing Commercial Airplane Group products excluding Long Beach Division."</p> | <p>Applicable as on Boeing programs as indicated in D1-4426. Exception – not required for industry standards (e.g., AMS and etc.).</p> |
| QA101 (c) | Deleted - Obsolete | |
| QA101 (d) | <p>On programs other than those mentioned in QA101 (b) above or otherwise contractually noted, Suppliers that are AS9100 shall utilize their own approved supplier list for all raw material sources, but material suppliers shall at minimum have an ISO based Quality Management System certification.</p> | <p>Applicable when AS9100 suppliers procuring material and not subject to QA101 (b).</p> |
| QA101 (e) | <p>Manufactured part suppliers not AS9100 shall procure materials ONLY from whichever of the following is applicable:</p> <ul style="list-style-type: none"> -Triumph Actuation Systems - Yakima Approved Supplier List -Boeing D1-4426 Approved Supplier List (as determined by applicability of "b" above). -A Triumph Actuation Systems UK & IOM SQ-93 or Triumph Group SQAM001 approved supplier list. | <p>Applicable when Non-AS9100 Manufactured Part suppliers procuring materials.</p> |
| QA101 (f) | <p>Validation of Raw Material Test Reports. Additional requirements concerning Boeing Commercial (Reference BCA Q29 / X31764) and Boeing Military (Reference BDS Q831) Programs. When Seller utilizes test reports to accept Seller purchased raw material, the following requirements apply: Test</p> | <p>Applicable to Boeing Commercial and Boeing Military Programs.</p> |

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 8 OF 31

reports shall be checked 100% against Seller's requirements and applicable specifications. Validation test requirement: Seller shall periodically validate test reports for raw material accepted on the basis of test reports. That validation shall be accomplished by Seller or other independent party through periodic, scheduled tests of raw material samples. Schedules for frequency of tests will be established by Seller based on historical performance of the raw material supplier. Seller shall retain test reports provided by the raw material supplier, as well as Seller's validation test results as quality records traceable to the conformance of Goods, as specified elsewhere in this Contract.

QA101 (g)

When Seller utilizes test reports to accept Seller purchased raw material, the following requirements apply: Test reports shall be checked 100% against Seller's requirements and applicable specifications. Validation test requirement: Seller shall periodically validate test reports for raw material accepted on the basis of test reports. That validation shall be accomplished by Seller or other independent party's material testing laboratory that are accredited to ISO/IEC 17025. Seller shall retain test reports provided by the raw material supplier, as well as Seller's validation test results as quality records traceable to the conformance of Goods, as specified elsewhere in this Contract.

Applicable when AS9100 suppliers procuring material and not subject to QA101 (f).

QA101 (h)

For traceability purposes, any raw material purchased under Triumph Actuation Systems – Yakima Purchase Order shall be from one heat lot and shipped in individual containers. Supplier shall insure material is properly identified with TAS-Yakima purchase order number and heat lot number. If material quantity available from one heat lot does not match the purchase order quantity requested by TAS-Yakima, corresponding arrangements should be made to allocate each available heat lot quantity into a separate item listed

Applicable to Raw Material TAS-Yakima suppliers only.

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 9 OF 31

within the PO. Supplier shall not combine material heat lots within the same container when shipping to TAS-Yakima.

QA101 (j) Supplier of raw material to Triumph Yakima, supplier's Certificate of Conformance (CofC) shall contain Triumph Actuation Systems – Yakima full description of raw material as stated on Triumph Actuation Systems – Yakima Purchase Order. Applicable to Raw Material TAS-Yakima suppliers only.

QA102 Supplier Certificate of Conformance shall accompany each shipment to Triumph Actuation Systems – Yakima and shall be legible and in the English Language (Note: Materials on this order shall be manufactured, process, inspected and tested in accordance with blueprints, specifications, and instructions thereto. Specification revision reference to TAS-Y Document Engineering Standard 8-0001. Revision definition includes any/all applicable ADCN, CID, PSD, or other revision document levels involved. The Certificate of Conformance shall have Quality Assurance authorized signature or approval certifying parts have been inspected and adhere to all requirements, applicable drawings/specifications, evidence of company of issuance, and country of origin.

Supplier Certificate of Conformance shall list the serial number(s) of the component(s) as required by SNCR and/or the Engineering Drawing requirements.

QA103 The following note applies to raw material, fabricated and/or machined parts only (excludes catalogue items or standard hardware). Special processing certifications, (i.e. rough machining, thread rolling, heat treat, surface preparation/treatment, hard and soft coatings, NDT, or any other manufacturing special process performed) shall accompany each shipment to Triumph Actuation Systems – Yakima. If a special process is performed by the tier one supplier to TAS-Y, the process shall be listed on the corresponding Certificate of Conformance.

QA104 Return Triumph Actuation Systems - Yakima supplied blueprint(s) upon completion of this order.

QA105 Deleted – Obsolete

QA106 Deleted (superseded by QA125)

QA107 The following statement applies **ONLY** for Lockheed Martin build to print components and must be defined on suppliers PO's utilized for sub-contractors "Processing to be accomplished in performance of this purchase order is directly related to a Lockheed Martin Aeronautics

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 10 OF 31

Company purchase order and must be accomplished in accordance with process specification(s) on this purchase order and the revision in effect as of the date of this PO of Lockheed Martin Aeronautics Company Appendix QJ. All requirements of such Appendix QJ is located at <https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/aeronautics/quality-requirements/quality-appendices.html>.

QA108 Triumph Actuation Systems - Yakima Suppliers (except catalogue hardware or supplier's not subject to designed work scope manufacture or supply) shall maintain an approved supplier list in accordance with AS9100 requirements and are fully responsible for the monitoring and the performance of their supply base. The baseline for sub-contractor selection is AS9100 accreditation or a third-party accreditation respective to the process / commodity (e.g., AC7004, ISO 17025, etc.). Exceptions to accredited sub-contractors use would be sub-contractors with significant historical performance to the supplier or to Triumph Actuation Systems - Yakima (or its customers) and with AS9100 compliant systems as assessed by the supplier or Triumph Actuation Systems - Yakima. Sub-contractors used under this non-AS9100 historical performance exception, shall be under additional oversight by the supplier including:

- The supplier shall limit the non-AS9100 sub-contractors supply chain to the suppliers approved supplier list.
- The supplier shall review and approve the non-AS9100 sub-contractor's planning/methods.
- The supplier shall specify inspections and assure inspection equipment is under calibration at the non-AS9100 sub-contractor.

Where Triumph Actuation Systems - Yakima utilizes Non- AS9100 approved suppliers based on historical performance and site audits to assure AS9100 compliance, the non-AS9100 supplier shall only use Triumph Actuation Systems - Yakima approved sources for sub-contracting (exception, special processors NADCAP or Boeing Aircraft Company document D1-4426 in accordance with Q-Note, QA125).

When an AS9100 accredited supplier has major changes in their Quality Management System (QMS) (loss, suspension, or probation of their AS9100 status), Triumph Actuation Systems – Yakima Supplier Quality reserves the right to remove the supplier from their Approved Supplier List (ASL). When Triumph Actuation Systems – Yakima Supplier Quality authorizes the supplier to continue manufacturing the product under contract, the supplier may continue to utilize their mature supply base, but new supplier qualifications or significant planning changes will be subject to Triumph Actuation Systems - Yakima Supplier Quality approval until the QMS is restored and assessed as effective. Triumph Actuation Systems - Yakima may also invoke source inspection at the supplier's expense or other means of product release.

QA110 Deleted – Obsolete

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 11 OF 31

QA111 Processing must be performed by Triumph Actuation Systems - Yakima approved suppliers & Menasco approved suppliers per QUASP004-2.

QA112 For Third Party Drop shipments: Send applicable quality documents direct to Triumph Actuation Systems – Yakima Buyer.

QA113 Suppliers (exception to MRB language, catalogue suppliers per QA122) shall not “**repair**”, “**modify**”, “**use as is**” or ship to Triumph Actuation Systems – Yakima (TAS-Y) any product which fails to conform to the drawing specification and/or purchase order requirements without prior approval by TAS-Y Material Review Board (MRB).

Non-conforming product may be submitted through TAS-Y Purchasing Department and/ or Supplier Quality, on Form 8.4.2.1 Supplier Non-conformance Record (SNCR) in English language.

If any non-conforming condition can be reworked back to meet drawing requirements by supplier, there will be no need to submit a SNCR form to TAS-Y MRB.

SNCR submittal is solely at the supplier’s risk, and final acceptance will depend on TAS-Y and/or customer product verification. TAS-Y will not accept any supplier claims or modification after the final TAS-Y’s or Customer’s MRB disposition is rendered.

Triumph will not assume any liability for the outcome if the supplier proceeds to attempt to rework or repair the product to meet engineering design requirements or repair as per the instructions provided by TAS-Y MRB through the disposition.

At no time shall any previous TAS-Y MRB and/or TAS-Y Customer MRB disposition be construed as authorization to deviate from design or purchase order requirements.

All SNCR submittals shall include root cause, containment, and corrective / preventative actions. Failure to provide an acceptable cause and corrective action may result in the rejection of the SNCR. TAS-Y will reserve the right to require a formal supplier corrective action (E-SCAR).

When shipping product under SNCR concession to TAS-Y, the approved SNCR number shall be noted on the supplier Certificate of Conformance and a copy of the completed SNCR form shall accompany each shipment.

If SNCR is unique to a part(s) or it is not relevant to the entire order – the part(s) involved should be packaged separately and with its own Certificate of Conformance.

Supplier is obligated **TO MEET** all contractual requirements regardless of SNCR submittal status. TAS-Y MRB and /or TAS-Y Customer MRB disposition of SNCR and/or TAS-Y processing times **ARE NOT** considered viable reasons for failing to deliver parts on time.

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 12 OF 31

QA114 Each Process Control Document (PCD) and/or work order applicable to this purchase order must be bought off by your inspection department. These and all Certificates of Conformance and/or Test Reports must accompany each shipment to Triumph Actuation Systems - Yakima.

QA115 This Q-NOTE is on all purchased part purchase orders (exception "catalogue parts" as defined in QA122) and Triumph Actuation Systems - Yakima requires that First Article Inspection (FAI) shall be performed as required per AS9102 latest revision and incumbent on the supplier to initiate and stay current to AS9102 requirements. In addition, Triumph Actuation Systems - Yakima reserves the right to request a new first article at any time. Supplier shall submit FAI/Partial reports to Triumph Actuation Systems – Yakima with the first delivery post first production run or after any changes to the manufacturing process. For purchased assemblies, the supplier shall provide the First Article Inspection Report (FAIR) for the assembly and for all sub-components therein (exception "catalogue parts" as defined in QA122).

QA116 All features denoted by the Key Characteristics "KEY" symbol on the applicable drawing(s), require statistically process controlled in accordance with Triumph Actuation Systems - Yakima MEWI 09-02.

The true process capability index must be demonstrated and maintained at 1.33 Cpk or above. Any KC feature that is found not in control and/or not capable (i.e., having a true Cpk of less than 1.33), a 100% inspection of that characteristic must be performed by the supplier and results submitted to Triumph Actuation Systems - Yakima with each shipment, and Triumph Actuation Systems - Yakima Supplier Quality is to be notified that the design parameter is not "capably achievable".

QA117 Deleted - Obsolete

QA118 Deleted - Obsolete

QA119 Deleted (Superseded by QA 618)

QA120 Deleted - Obsolete

QA121 Deleted – Obsolete

QA122 Suppliers with design responsibility are obligated to Triumph Actuation Systems – Yakima Engineering for design configuration and MRB approvals as follows:

- a. If supplier receives a Triumph Actuation Systems – Yakima drawing and/or Triumph Actuation Systems – Yakima Customer drawing showing an envelope or top-level requirement that includes supplier designed content.

Supplier shall submit all design changes and MRB through Triumph Actuation Systems - Yakima. The supplier design inputs will be considered expert opinion, but Triumph Actuation Systems - Yakima and/or Triumph Actuation Systems - Yakima Customer

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 13 OF 31

approvals are required. Design changes shall include justification / substantiation and may be subject to contractual / commercial review and / or other considerations.

- b. If Supplier provides an owned designed part with their part number available to the industry as a “catalogue part”.

Supplier shall be responsible for the consistent performance and interface parameters and communicate any performance and/or interface parameters changes to the part to Triumph Actuation Systems - Yakima. Design and MRB resides with the supplier in this classification, but Triumph Actuation Systems - Yakima must know of changes that could affect performance or fit/function.

- c. Suppliers of “Proprietary Design” articles (those design items that are the responsibility of the supplier) cannot conduct MRB action on a discrepancy which will result in a departure from the requirements of the Triumph Actuation Systems - Yakima SCD's as noted on the purchase order. Such departures must be submitted to Triumph Actuation Systems - Yakima for MRB action. Supplier MRB action involving stress analysis shall be coordinated with Triumph Actuation Systems - Yakima.

QA123 Triumph Actuation Systems - Yakima source inspection is required. Triumph Actuation Systems - Yakima Supplier Quality shall be notified at least 72 hours prior to presentation of items for final inspection. Inspection reports, certifications and/or shipping documents must be stamped and signed by Triumph Actuation Systems - Yakima source representative prior to shipping.

QA124 Government Source Inspection (GSI) is required prior to shipment from your plant.

Upon receipt of this contract, Seller shall promptly notify & furnish a copy of this contract & all subsequent change orders to the Government Representative who normally services Seller’s facility so that the appropriate planning for Government Inspection can be accomplished.

During performance of this contract, the Seller’s and Seller’s sub-contractors Quality and Manufacturing processes are subject to review, verification, and analysis by authorized Government Representatives.

If a Government Representative does not normally service Seller’s facility, Seller shall furnish a copy of this contract to the nearest Defense Contract Management Agency (DCMA) office. In the event the Government Representative or DCMA office cannot be located, Seller shall immediately notify Buyer’s authorized Procurement Representative.

Evidence of Government Inspection shall be shown on the shipping documentation.

Government Inspection of goods or services provided hereunder shall be performed at Seller’s address shown on this contract or contract change unless a different address is specified.

(Ref: Boeing IDS Terms & Conditions Q206S)

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 14 OF 31

QA125 Special Processors shall be NADCAP approved (including verification that they are approved specifically for the process required). NADCAP is used to minimize the need for M&P (materials and processing) audits.

Exception to NADCAP approval requires a frozen technique / manufacturing plan, approved by Triumph Actuation Systems - Yakima, and is at Triumph Actuation Systems – Yakima Supplier Quality discretion dependent upon evidence of process control (may be in consult with Triumph Actuation Systems - Yakima M&P Engineering).

Catalogue parts as defined in QA122 are not subject to Q-Note QA125.

For Process Specification identified on Triumph Actuation Systems – Yakima, Customer SCD and all other Drawings, (PCD) the supplier shall use latest revision.

Suppliers without Triumph Supplier Portal access shall contact their buyer for the appropriate specification requirements and request access to the portal.

On Boeing Drawings or Triumph Actuation Systems - Yakima Drawings calling out Boeing Specifications, Supplier(s) shall verify the processor is approved per D1-4426 and the process, process revision and any/all applicable ADCN, CID, PSD are to the latest revision.

The supplier is responsible to use the list below to determine the Boeing program/site based on model listed on purchased order.

Boeing Military:

F-18 - Boeing St. Louis
 Apache - Boeing Mesa
 Phantom - Boeing St. Louis
 V22 - Boeing Philadelphia

Boeing Commercial:

747, 777, 787 - Boeing Everett
 737, 757 - Boeing Renton

Supplier without Boeing Supplier portal access shall reference the Triumph Supplier Portal for Process Specification Revision list or contact their buyer for the appropriate specification requirements.

QA126 The product being manufactured under this Triumph Actuation Systems - Yakima Purchase Order is intended for use within the Boeing Commercial Aircraft 787 program and is subject to Triumph Actuation Systems - Yakima Source Inspection as identified in the body of the text of this Purchase Order.

Triumph Actuation Systems - Yakima Quality Organization On-Site Source Inspection:

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 15 OF 31

The product manufactured under this Purchase Order is subject to Triumph Actuation Systems - Yakima On-Site Source Inspection prior to shipment and receipt by Triumph Actuation Systems - Yakima and/or the shipping destination identified on the Purchase Order (Drop-Ship location).

The supplier is required to notify Triumph Actuation Systems - Yakima Procurement Representative of the source inspection requirement, and product/documentation availability a minimum of 5 days prior to the requested source inspection date.

Triumph Actuation Systems - Yakima may choose to assign "Third Party/Outside" Inspection resources for performance of the requested source inspection. The supplier will be notified of assigned parties name and contact information for coordination of the source inspection date and time.

It will be the responsibility of Triumph Actuation Systems - Yakima Procurement and Quality Organizations for all contractual issues and arrangements with the "Third Party/Outside" Inspection resource.

QA127 The product being manufactured under this Triumph Actuation Systems - Yakima Purchase Order and is subject to the Triumph Actuation Systems - Yakima Quality Organization "Delegated" Source Inspection as identified in the body of the text of this Purchase Order.

Triumph Actuation Systems - Yakima Quality Organization "Delegated" Source Inspection

The product manufactured under this Purchase Order is subject to Triumph Actuation Systems - Yakima "Delegated" Source Inspection prior to shipment and receipt by Triumph Actuation Systems - Yakima and/or the shipping destination identified on the Purchase Order (Drop-Ship location).

The suppliers Quality Organization has been approved for "Source Inspection Delegation" and is authorized to perform the inspection utilizing an individual within their organization that has been assigned as a "Triumph Actuation Systems - Yakima Supplier Quality Delegate" (QP 8.4.2, DSQAR). Request for individual assignment must be made to Triumph Actuation Systems - Yakima Quality Assurance through the appropriate Triumph Actuation Systems - Yakima Procurement Representative.

Triumph Actuation Systems - Yakima reserves the right to rescind this authorization, in writing, at any time. If the delegated authorization is rescinded, the requirements as identified under QA123 and/or QA126 will be in effect.

QA128 The product being manufactured under this Triumph Actuation Systems - Yakima Purchase Order is intended for use within the Boeing Commercial Aircraft 787 program and is subject to "Boeing Source Inspection" per Boeing PO Note S52 and as identified in the body of the text of this Purchase Order.

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 16 OF 31

Boeing Source Acceptance is required. Notify the Boeing QA Rep that services your facility via the Automated Source Activity Planning (A.S.A.P.) System 10 days in advance of required source activity, unless Boeing Source Acceptance has been delegated. In the event you are unable to access ASAP, contact the Boeing Field Representative or Triumph Actuation Systems – Yakima Sourcing for assistance.

- QA130 Deleted (combined into QA608)
- QA131 When Engineering drawing requirements call for a serialization of the product, the supplier shall incorporate a process to track and log serial number preventing duplication. The supplier shall maintain the serial log as a quality record per QA603.
- QA140 Suppliers performing or applying Operator Self-Verification Program for product acceptance, shall comply with the requirements of SAE industry standard AS9162 “Aerospace Operator Self-Verification Programs”. TAS-Yakima reserves the right to conduct surveillance at the supplier’s site to determine compliance to the requirements of AS9162.
- QA145 Supplier shall control all inventory of TAS-Y conforming product that are in excess of contract quantity in order to prevent product from being sold or provided to any third party without written authorization from TAS-Y. Supplier may utilize excess TAS-Y conforming product inventory to fulfill a new TAS-Y order, maintaining full traceability to the original TAS-Y purchase order that the product was manufactured under and provide all process certifications.
- QA201 Deleted – Obsolete
- QA202 Special Process(s) are frozen/approved and must be processed per pre-approved technique plan on file at your facility (or your sub-tier’s facility). Note – on the first time this Q-Note is invoked by the purchase order, the technique shall be submitted to Triumph Actuation Systems – Yakima Supplier Quality and Manufacturing Engineer for review and approval.
- On special processes – technique cards may/should be frozen in lieu of manufacturing planning. PCD (Process Control Documents) may be used by Triumph Actuation Systems - Yakima to initiate changes, in which case when this Q-Note is invoked, a revised technique card shall be submitted to Triumph Actuation Systems - Yakima. Any changes in chemical suppliers (not including distributors), sequence of operations, equipment, or method are considered changes. Semantic changes are allowed for adding caution notes, clarity, grammar, and formatting. Small changes within the operation such as masking technique improvements, racking improvements, or sequence additions of more inspection are not considered process changes.
- The Special processing technique sheets (tech sheets) shall include the following:
- Part number and revision
 - Tech sheet must be revision controlled with the revision and/or the date on the front of the plan

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 17 OF 31

- A note that indicates that the tech sheet is customer controlled and changes must have written approval from TAS-Y
- Reference to any customer engineering and/or manufacturing standards that are flowed down through the drawing or Quality Clauses (e.g., TAS-Y Engineering Standard 8-0001 or TAS-Y Mfg. Standard MEP 09-05)
- The plan must address how all features that are identified as “Critical Features” on the drawing are processed and inspected
- Include any sketches or other supplemental documentation referenced in mfg. plan
- Work instructions (e.g., process per AMSXXXX or MIL-XXXX, etc.)

QA204 Deleted – (Superseded by QA 608)

QA205 Deleted – Obsolete

QA206 Deleted – Obsolete

QA207 This is a critical operation and must be performed per the technique procedure noted in the DCMP-163, 32.8.1 document on file at your facility [automatically invokes QA202 and QA506].

QA301 100% inspection required on all rubber AN, MIL, MS, and NAS seals. Inspect per MIL-STD-413 (latest revision).

QA302 Deleted – Obsolete

QA303 Applicable special processes for Boeing hardware shall be approved per IAW D1-4426.

QA304 A drawing and/or specification, for “supplier designed items”, must accompany the first shipment to Triumph Actuation Systems - Yakima for the purpose of receiving/final inspection.

QA305 Deleted - Superseded by QA616.

QA306 All articles supplied on this purchase order shall be 100% inspected and recorded prior to shipment from your plant. All parts must be uniquely identified per method allowed by drawing and/or requirements (if not specified otherwise – Mil-Std-130X *Bag and Tag*). Parts must be traceable to inspection report.

Printed Copies Will Not Be Kept Up To Date

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 18 OF 31

QA307 Deleted – Obsolete

QA308 Supplier of standard hardware shall comply with the “Fastener Quality Act” certification process as delineated in 15 CFR, Part 280.

QA309 Original Equipment Manufacturer (OEM) certificate of conformance required with each shipment. This applies to build to specification, suppliers that design, manufacture & test products for TAS-Y.

QA325 Supplier shall submit all inspection and test records to Triumph Actuation Systems – Yakima with part delivery. All Inspection and/or test data shall be recorded in variable data format for all features possible to one decimal place greater than tolerance resolution and conducted to a “bubbled” drawing with inspection record identification of drawing and/or requirement location. In addition, the record must include the evaluation result (accept, reject). If serialized, inspection and test data shall be clearly identifiable to the unique serial number. At a minimum Inspection or Test records shall include Your Company Name, Customer Name (example Triumph Actuation Systems - Yakima), overall identifier like Purchase Order, Part Number, Part Name, Revision, Date Inspected, and Inspector performing inspection.

QA401 Sub-contractor's calibration system shall comply with ISO 10012-2003” Quality Assurance Requirements for Measuring Equipment”.

Sub-contractor’s general requirements for calibration laboratories shall comply with an industry-recognized standard (e.g., ISO 17025, ANSI Z540).

QA402 A copy of certification and test reports traceable to N.I.S.T. are required and must be signed.

QA403 Age sensitive materials must include manufacturer’s recommended expiration date, shelf life, cure date, compound number, etc. so as to indicate useful life of the material. Any special storage requirements must be defined. Material shall have no less than 80% of its shelf life remaining at the time of receipt at Triumph Actuation Systems - Yakima unless otherwise authorized by the Supplier Quality Representative.

QA404 Deleted (combined into QA401)

QA405 Suppliers or sub-tiers in possession of Triumph Actuation Systems - Yakima or Triumph Actuation Systems – Yakima Customer furnished measuring equipment shall maintain/calibrate

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 19 OF 31

in accordance with ANSI/NCSL Z540-1. Any modifications, damage, or replacement shall require Triumph Actuation Systems - Yakima notification and approvals.

QA501 Triumph Actuation Systems – Yakima Drawings shall be checked for invocation of “General Requirements and Interpretation of Standard Drawing Features” Triumph Actuation Systems - Yakima Engineering Standard No. 8-0001 (latest revision on Triumph Actuation Systems - Yakima design hardware) --applies to this order if listed on the drawing. All manufacturing shall be in accordance with MEP 09-05 Manufacturing Standard invoked by this Quality Note. TAS-Y Engineering Standard No. 8-0001 is available on The Triumph Group Supplier Portal.

QA503 If raw material provided by Triumph Actuation Systems - Yakima for this order, the material will be drop shipped directly from Triumph Actuation Systems - Yakima’s raw material supplier. Upon receipt of this material, the following must be performed by an authorized quality representative:

- a) Confirm the raw material fully meets the requirements of the attached Triumph Actuation Systems - Yakima purchase order.
- b) If the raw material is acceptable, buy off the supplier’s Certificate of Conformance; then, submit the CofC and the mill Test Report to Triumph Actuation Systems - Yakima’s buyer.
- c) If the raw material is not acceptable, notify Triumph Actuation Systems - Yakima’s buyer immediately and do not begin any machining/processing of this order.

QA504 Deleted – Obsolete

QA505 Suppliers will maintain a record of any planning or process changes (change control of the manufacturing process).

QA506 Supplier manufacturing plan shall be submitted to Triumph Actuation Systems – Yakima (TAS-Y) Supplier Manufacturing Engineering for review and approval. Supplier Manufacturing Plan shall be approved prior to first delivery to TAS-Y. Supplier planning and/or process shall remain frozen and any request to revise planning and/or processes must be submitted to Triumph Actuation Systems – Yakima (TAS-Y) through Supplier Manufacturing Engineering for approval. If revisions are granted and FAI accepted, then process will revert to a frozen status.

The plan is frozen in execution order, sources, and method (includes detail in the operations). Semantic changes are allowed for adding caution notes, clarity, grammar, and format. Supplier must conduct FAI and submit new planning for any changes on “Critical Parts” except for added inspection operations.

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 20 OF 31

The Manufacturing Plan shall include, but is not limited to the following:

- Part number and revision.
- Manufacturing plan must be revision controlled with the revision and/or the date on the front of the plan.
- A note that indicates that the planning is customer controlled and changes must have written approval from TAS-Y.
- Reference to any customer engineering and/or manufacturing standards that are flowed down through the drawing or Quality Clauses (e.g., TAS-Y Engineering Standard 8-0001 or TAS-Y Mfg. Standard MEP 0905).
- Raw material type and specification.
 - DFARS raw material requirement when quality clause QA604 is invoked on the PO.
- The plan must address how all features that are identified as “Critical Features” on the drawing are machined, finished and inspected.
- Include any sketches or other supplemental documentation referenced in mfg. plan
- Work instructions to special processors for all outside processing (e.g., process per AMSXXXX or MIL-XXXX, etc.).
- Reference all frozen special processing technique sheets.

The Triumph Actuation Systems – Yakima production plan approval does not relieve suppliers from bearing full responsibility to provide finished product that meets drawing specifications.

- QA507 Any Acceptance Test Procedure (ATP) changes or deviations at a supplier shall be approved by Triumph Actuation Systems - Yakima Engineering.
- QA601 Raw material used in the manufacturing of product under Triumph Actuation Systems – Yakima Purchase Order shall be from one heat lot.
- QA602 Sub-contractors will be required to adhere to the basic requirements of FAR 45.5, including performance of annual physical inventory and shall be held liable for loss, damage or destruction of Government property. Triumph Actuation Systems - Yakima purchasing procedures will require any sub-contractor possessing or controlling Government property be held accountable under the contract to investigate and report all instances of loss, damage or destruction of such property.
- QA603 Sub-contractors shall maintain quality records for a period of eleven (11) years after completion of contract. Customer specific requirements may extend beyond the eleven (11) years after completion of contract. The requirement shall be flowed to the lowest level sub-tier via the purchase order contract. The sub-contractors shall be in compliance to AS9100 record retention requirements and should safeguard against loss. All records shall be permanent (e.g., pencil not allowed). Companies ceasing business operations as an entity shall arrange for transfer of

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 21 OF 31

ownership of records to Triumph Actuation Systems – Yakima and may be subject to commercial consideration associated with 11 years maintenance.

QA604 This requirement shall be flowed down to the lowest sub-tier supplier. Sub-contractors will be required to adhere to the basic requirements of DFARS 252.225-7014 (Preference for Domestic Specialty Metals, Alt I-Berry Amendment) Deviation 2008-00002, Alternate I (deviation 2008-0002) and DFARS 252.225-7016 (Restriction on Acquisition of Ball and Roller Bearings).

This shall include, at a minimum, any of the following documentation as applicable:

1. Raw Material Certification stating material as received is either compliant or non-compliant to the applicable DFARS Clause.
2. Where specialty metals as defined by the DFARS is applicable for either raw material or end item components, the supplier will provide a Certificate of Conformance which concludes that the supplier has fulfilled all Triumph Actuation Systems - Yakima requirements.

QA605 Sub-contractors will be required to comply to the AS9100 Quality System Standard and adhere to any unique Pratt & Whitney requirements. The procured articles are for “UTC member end use” and controlled per applicable Purchase Order requirements.

QA606 Seller agrees to comply with U.S. Guidelines for Regulating Wood Packaging Materials in International Trade, 7 CFR Part 319, and shall indemnify Triumph Actuation Systems - Yakima for any fees, costs or penalties assessed by the U.S. Animal and Plant Health Inspection Service, USDA, or any other governmental agency, for noncompliance with these regulations.

QA607 Non-conforming product:

A. Non-conforming material identified at Triumph Actuation Systems – Yakima (TAS-Y):

- If a non-conformance is identified at TAS-Y, the non-conformance record will be reviewed by Supplier Quality to determine if an informal notification (Supplier Nonconformance Notification (SNN)) or a formal corrective action request is to be sent to the supplier. Formal corrective action will be issued through the Triumph Supplier Portal E-SCAR or via TipQA process. Supplier has a target of 48 hours to perform containment and 30 days to complete implementation unless extension is granted. TAS-Y reserves the right to rework as necessary to support urgent customer needs at supplier’s expense.
- TAS-Y will normally “Return to Vendor” (RTV) the defective product to the supplier. If the supplier’s Quality system requires the use of a RMA or RGA (return

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 22 OF 31

materials authorization or return goods authorization) process, the supplier will be given 5 business days from date of first request to provide the RMA/RGA control number, otherwise the goods will be returned and debited without this reference.

- Upon notification, the supplier is required to review any remaining inventory at their facility or sub-tier to ensure no other product is affected and to notify TAS-Y with the containment status and immediate corrective action within 48 hours after notification through the E-SCAR process. This includes consideration of previous shipments and potential Notice of Escape (NOE). The supplier shall investigate the non-conformance and submit any requested corrective action, including full root cause analysis, within the requested due date set by TAS-Y Supplier Quality through the E-SCAR process. Supplier Quality will review the corrective action for rigor, evidence, implementation, and effectiveness and reserves the right to require further diligence, and/or to conduct on-site verification activities. TAS-Y reserves the right to establish due dates less than thirty days at any time to support responsiveness to TAS-Y customers or to address containment and risk concerns. The supplier has the option to request an extension in writing to TAS-Y Supplier Quality. Failure to submit corrective action responses or submit a request for an extension before E-SCAR due date may result in probation of the supplier or removal from approved supplier status.

B. Non-Conforming Material Identified by the Supplier

- If a Supplier discovers that non-conforming material or product has passed through their Quality System and made it to TAS-Y or TAS-Y preferred customer.
 1. Notice of Escape (NOE): If the supplier realizes that they have shipped non-conforming product, they shall issue a formal letter of escapement (on letterhead with Quality Management or Executive Signature) with full scope (dates, serial numbers, lot numbers, or any other particulars to assist Triumph Actuation Systems – Yakima in containment actions) to Triumph Actuation Systems – Yakima (TAS-Y) Procurement Agent and Supplier Quality Manager in writing and by phone immediately and within 24 hours of discovery.
 2. TAS-Y may require that the supplier submit a formal NOE through the Triumph Supplier Portal E-NOE process.
 3. Yakima reserves the right to verify all actions at the supplier’s facility.

QA608 Supplier to initiate part serialization at the earliest operation of planning possible where separated from raw material. Serialization shall be accomplished in method allowed by drawing and/or requirements (if not specified otherwise – Mil-Std-130X). Traceability must be

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 23 OF 31

maintained through the complete manufacturing, inspection, and part delivery process (including documented on the Certificate of Conformance).

If Triumph Actuation Systems – Yakima parts are serialized the supplier must maintain the serialization number traceability of product(s) throughout the process and designate accordingly on the Certificate of Conformance. Suppliers must maintain all Triumph Actuation Systems – Yakima work order/part traceability throughout the process(s).

- QA609 Deleted – Obsolete
- QA610 Deleted (Superseded by QA108.)
- QA611 Suppliers and sub-contractors must comply with the Quality requirements of Document SQ 100.
- QA612 Suppliers and sub-contractors producing Flight Safety Parts, or parts containing Flight Safety Characteristics, where applicable, must adhere to Hamilton Sundstrand specification number HS15000 in its entirety. Contact Triumph Actuation Systems - Yakima Supplier Quality to confirm you have the latest revision of this document available.
- QA613 All 787 product shipments require documented reference to Advance Ship Notices (ASN’s) generated via Boeing’s Exostar system. When drop shipment is designated, ASN numbers will be issued to the supplier by the designated Procurement Representative. At least 48 hours in advance of shipment and prior to sealing shipment, the supplier shall request an ASN# by returning the designated ASN request form to the Procurement Representative for assignment of ASN # and generation of ASN bar code label. The ASN request form must be complete with the Triumph Actuation Systems - Yakima part#, serial#(s), quantity, Triumph Actuation Systems - Yakima PO#, Customer PO#, expected ship date, carrier, # of packages and if possible, the packing slip # & waybill tracking number. Upon receipt of ASN #, the supplier shall record the assigned ASN number on all shipping documents. One copy of the shipping documents shall be placed inside the shipping container, one copy shall be attached to the outside of the container along with the ASN bar code label ensuring that the ASN number is clearly visible, and one copy shall be provided to the Procurement Representative via fax or email **within 24 hours of shipment**.
- QA614 Requirements for control of parts identified as “**Critical/Process Sensitive**” for the Boeing V-22 program. Manufacturing of components with this classification are required to be in accordance with the Boeing Document D8-0965 for the control of the fabrication process and Test and Records per Boeing Document D210-12559-1.
- QA615 Suppliers and sub-contractors producing product for the following customers - The ASQR-01 document defines the supplier requirements as agreed upon by the following business entities as UTC members of the ASQR Common Specification Team.
Aftermarket Operations (Pratt & Whitney Canada) AO

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 24 OF 31

Hamilton Sundstrand (HS)
Pratt & Whitney (PW)
Pratt & Whitney Canada (PWC)
Sikorsky Aircraft (SAC)
UTC Fuel Cells (UTCFC)

QA616 Unless otherwise specified within Triumph Actuation Systems - Yakima PO, the suppliers sampling inspection plan shall comply with Triumph Actuation Systems - Yakima QWI 9.1," Statistical Techniques."

Triumph Actuation Systems - Yakima suppliers shall certify that the product shipped meets requirement as determined by Triumph Actuation Systems - Yakima sampling plan QWI 9.1. Accordingly, the Certificate of Conformance shall reference the use of the sampling plan as the minimum acceptance plan used. (The Certificate of Conformance or "C of C" is certifying that product meets requirements, but this was determined by:

- Compliance to the QWI 9.1 sampling plan as the minimum acceptance criteria

If Certificate of Conformance language does not provide this acceptance method, other evidence of compliance to QWI 9.1 shall be supplied.

If QA 306 is on the purchase order, it negates the ability to use a sampling plan.

Triumph Actuation Systems – Yakima reserves the right to request or audit evidence at any time. Failure of compliance to this Purchase Order Quality Clause [as identified by Triumph Actuation Systems - Yakima audits, receiving inspection, or source inspectors] will result in the order being rejected as suspect and returned/debited to the supplier until objective evidence is provided.

QA617 Per Boeing Drop Ship Requirements document D6-83720, all suppliers and sub-contractors drop shipping Boeing hardware, shall include a signed Certificate of Conformance which includes the following statements:

"This is a Boeing Drop Shipment".

Followed by the statement indication Boeing inspection authority:

"Delegated Boeing inspection authority has been granted by Boeing to Triumph Actuation Systems - Yakima whose Boeing approved quality organization includes delegated inspection authority to [Providing Supplier Name]. Acceptance/inspection has been accomplished by [Providing Supplier Name] on behalf of Boeing."

QA618 Suppliers shall be AS/EN9100 certified (and maintain current and good stead certification status) via an Aerospace accredited 3rd party source (or applicable Quality Certification to scope – e.g., AC7004, ISO17025, or ISO9000). The Supplier Quality Manager has the option to

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 25 OF 31

review/approve suppliers who are not AS9100 or ISO certified by an accredited source as defined in QA108.

- QA619 Requirements of Record Retention for hardware identified as “CRITICAL/PROCESS SENSITIVE” FOR V-22 Program. Sub-contractors providing hardware under this classification shall maintain quality records for a period of 50 years per D210-11000-1. This requirement shall be flowed down to the lowest sub-tier supplier.
- QA620 Lockheed Martin Suppliers and sub-tiers shall comply with the quality flow down requirements of Document *Appendix QX Supplier Quality Requirements and Document Q4R- Foreign Object Debris / Damage (FOD) Prevention*.
- QA621 Supplier and all sub-tiers shall comply with the quality flow down requirements of the purchase order.
- QA622 This purchase order is for a Messier-Dowty contract and the requirements of supplier PRIDE apply.
- QA623 Supplier/sub-contractors will ensure that an effective FOD Program is in place for prevention, detection and removal of foreign object in accordance with AS9146. A resource for FOD Programs is www.nafpi.com.
- QA624 This is a pre-positioning spares order in support of the 787 Program. Articles shall ship from the supplier/manufacturing location to the airline customer’s, bonded, controlled, proposition warehouse. Articles shall ship from the supplier / manufacturing location identified on the purchase order. Seller must provide evidence of acceptance by its Quality Assurance department on all shipments. A signed, dated statement on the packing list certifying its Quality Assurance department has inspected the parts and they adhere to all applicable drawings and/or specifications.

Boeing Source acceptance is required. Notify the Boeing Quality Assurance Representative that services your facility via the automated source activity planning (ASAP) System 10 days in advance of the required source activity. Boeing source acceptance shall not be delegated on the pre-positioning direct ship orders. In the event you are unable to access ASAP, contact the Boeing Field Representative or Boeing Procurement Agent for assistance. This article requires an 8130-9 statement of conformity executed by a Boeing Representative. The 8130-9 shall not be delegated to the supplier, even in cases where the supplier has been granted 8130-9 delegation in support of an 8120-10. This article also requires an FAA 8130-3 authorized release certificate, executed by an authorized Boeing ODA member (e.g., DMIR who is independent of the signature for the 8130-9). The following information will be listed in block 13 of the 8130-3:

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 26 OF 31

"This is a direct shipment authorized by the Boeing Company via Purchase Order (enter number) for shipment of pre-position parts. Product(s)/Part(s)/Appliance(s) were conformed to design data (enter drawing number and applicable revision number) under FAA Project # (enter number) for the issuance of a TC of (enter make identifier) (enter model number). Product(s)/Part(s)/Appliance(s) conforming to design at issuance of the TC is/are certified as airworthy and is/are in a condition for safe operation without further showing."

Seller shall contact the Triumph Actuation Systems – Yakima agent ten (10) days prior to ship date to arrange for an ODA unit member to execute the authorized release certificate before shipping article to location identified on the purchase order.

QA625 Deleted – Obsolete

QA626 FOR MILITARY CONTRACTS ONLY. Subcontractors will be required to adhere to the basic requirements of FAR 52.245-1 Govt Property Management, including identifying product as Govt property and shall be held liable for loss, damage or destruction of Govt Property. TAS-Y purchasing procedures will require any subcontractor possessing or controlling Govt Property be held accountable under the contract to investigate and report all instances of loss, damage or destruction of such property.

QA650 Deleted - Obsolete

QA660 The supplier is required to have a counterfeit parts prevention program or procedure to assure all vendors, parts, and materials have known pedigree compliant to SAE AS5553.

QA670 Right of access shall be granted to Triumph Actuation Systems - Yakima, their customers, and regulatory agencies / authorities to the applicable areas of all facilities, at any level of the supply chain, involved in the order and to all applicable records.

QA680 The product manufactured under this Purchase Order may be subject to Triumph Actuation Systems - Yakima "Delegated Source Inspection" prior to shipment and receipt by Triumph Actuation Systems – Yakima. If Triumph Actuation Systems - Yakima "Delegated Source Inspection" is invoked, the PO will contain a DSQAR statement that will be printed at the bottom of the purchase order.

DSQAR Statement:

- "This Purchase Order invokes the requirements of Triumph Actuation Systems - Yakima Delegated Source Inspection" in accordance with the terms and conditions of:

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 27 OF 31

- Signed Supplier Release Plan (SRP) Agreement
- Procedure QP 8.4.2

All materials shipped under this purchase order shall be accompanied by a signed Certificate of Conformance (C of C) clearly stating the Designated Quality Assurance Number (DQAN) assigned.”

The suppliers Quality Organization has been approved for “Source Inspection Delegation” and is authorized to perform the inspection utilizing an individual within their organization that has been certified as Designated Source Inspectors (DSQR or DSQAR) by “Triumph Actuation Systems - Yakima Supplier Quality Delegate” (QP 8.4.2, DSQAR).

Triumph Actuation Systems - Yakima reserves the right to rescind this authorization, in writing, at any time. If the delegated authorization is rescinded, the requirements as identified under QA616 will be in effect.

If the PO requires DSQR and Designated Source Inspectors (DSQR or DSQAR) are expired in their certifications – contact Triumph Actuation Systems – Yakima Supplier Quality for direction.

QA690 Deleted - Obsolete

QA700 All material and parts must be packaged in a manner that will prevent damage during handling and shipping, inclusive of metallic corrosion protection. All component parts shall be packaged without staples (sealed in other methods) in compliance with Triumph Actuation Systems - Yakima FOD requirements.

QA710 Supplier shall promptly notify Triumph Actuation Systems – Yakima Sourcing Representative and Supplier Quality in writing of intended or actual changes to the manufacturing processes that may affect the quality of delivered goods and services. This includes changes to the Supplier (and the Supplier’s Sub-contractor’s) manufacturing facility locations for the contracted goods or services, equipment, or processes for which the product was qualified. Seller shall promptly notify the Buyer’s Authorized Sourcing Representative in writing of change to its Quality Control Processes or Quality Management Systems, or Quality Management or Executive Management personnel changes – and/or any changes that may affect the inspection verification of conformity or airworthiness. Notification shall document the effect of change to inspection with respect to fit, form, reliability, function, conformity, airworthiness, and/or certification status and/or resources and risk of the supplier’s goods or services. Each change to the supplier’s quality system is subject to review by Triumph Actuation Systems - Yakima. Note – this note flows down the requirements of several customers / contracts including but not limited to Boeing IDS Section Q Clause Q011S.

QA712 This contract requires the supplier to maintain a quality system in conformance with Boeing D6-82479:

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 28 OF 31

"Boeing Quality Management System Requirements for Suppliers":

- Appendix A – Quality Management Systems – Requirements for Aviation, Space, and Defense Organizations.
- Addendum 2 – Quality System Requirements for deliverable software and requirements for Boeing recognition of aviation, space, and defense Quality Management System accredited Boeing Quality Management System requirements for Suppliers.
- Appendix A and Addendum 2 – Certification / Registration to such document(s) as each may be amended from time to time. Such document, appendix and agenda are incorporated and invoked by this reference / flow down note.

Triumph Actuation Systems – Yakima and its customer (Boeing and/or Designee) shall have the right to conduct surveillance at the supplier’s facility to determine the quality system meets the above requirements. A copy of D6-82479 can be obtained at <http://www.boeingsuppliers.com/supplier/index.html>.

QA713 This is a Boeing flow down requirement (Note Q31). This Quality note is applicable for shipments to Boeing Commercial Airplane (BCA). This procurement is under Boeing's Federal Aviation Administration (FAA) issued Production Certificate 700 quality system supplier control program.

THE SELLER 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. package, shippers, etc.) contain any Federal Aviation Administration - Part Manufacturer Approval (FAA-PMA) marking".

Application note: The preferred location for the statement above is located 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. The term "seller" may be replaced with "Triumph Actuation Systems-Yakima" or "we".

QA719 The supplier shall conduct 100% inspection & supply to Triumph Actuation Systems –Yakima, actuals for all characteristics listed on the top-level / assembly drawing(s). This inspection report may be affixed to the Certificate of Conformance or sent electronically through the buyer. All inspection data shall be serial number traceable.

QA787 **Deleted - Obsolete**

QA801 **FOR COMMERCIAL REPAIRS ONLY THE FOLLOWING ARE ADDITIONAL REQUIREMENTS**

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 29 OF 31

- 1) The outsource maintenance provider must provide a statement of the parts used in the repair. These parts must be FAA approved parts, for example parts produced by an FAA production approval holder by PMA, or parts traceable to the original equipment manufacturer of the end item. If the component or subassembly is being returned to the OEM for repair, the parts used must be at least equal to the original parts used to manufacture the item.
- 2) The outsource maintenance provider must provide reference to the technical data used to perform the work. The technical data must be current data issued by the OEM, or other FAA approved/accepted data sufficient to perform the required work.

QA802 ANTI-DRUG & ALCOHOL PROGRAM

The sub-contractor shall comply with any and all federal, state, or local anti-drug, alcohol abuse and/or drug testing statues or regulations for any of its employees who may be covered by such statutes or regulations. Sub-contractors shall have, retain, and be able to provide purchaser, upon request, an approved drug and alcohol misuse prevention plan. Adherence to this clause applies to repairs on components/units on civil aircraft.

QA803 ADDITIONAL CERTIFICATE OF CONFORMANCE REQUIREMENTS (C of C)

FAA form 8130-3, EASA Form 1, CAAC Form AAC-038 or Transport Canada Form 1 is required with shipment for commercial spares. The FAA form 8130-3 must be completed per FAA order 8130.21 latest FAA released document. *Note: All special part requirements should be listed on the 8130, example shelf life.*

QA804 AIRWORTHY PARTS

All parts purchased for commercial use must be airworthy parts and meet the requirements of FAA 14 CFR 39.

QA805 FOR PART 145, Authorized Release Certificates will apply at top assembly level only (no component parts):

- 1). FAA Form 8130-3
 - 2). EASA Form-1
 - 3). CAAC Form AAC-038
 - 4). Transport Canada Form-1
 - 5). UK-CAA Form 1-MF/CAO/145
- *Dual Release certs are authorized.

QA806 Consolidated into QA805 - Deleted

QA807 Consolidated into QA805 - Deleted

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 30 OF 31

QA808 Consolidated into QA805 - Deleted

QA809 Consolidated into QA805 - Deleted

QA810 Consolidated into QA805 - Deleted

QA811 Consolidated into QA805 - Deleted

QA812 **Acceptance Authority Media (AAM)**

Triumph Actuation Systems – Yakima (TAS-Y) suppliers shall have as part of their QMS a policy for their employees and suppliers of the use of Acceptance Authority Media (AAM). Suppliers AAM policy shall comply with the AS/EN/JISQ 9100 Requirements and 14 CFR 21.2.

TAS-Y suppliers shall upon request, be able to demonstrate evidence of communication to its employees and to its supply chain; use of AAM must be considered as a personal warranty of compliance and conformity per AS/EN/JISQ 9100 Requirements and 14 CFR 21.2.

The areas of focus of this assessment shall include but are not limited to:

- Authority Media Application Errors (i.e. Omission, Typos, Legibility, etc.)
- Authority Media Application Untimely Use (i.e. Documentation is not completed as planned, “Stamp/Sign as you go”, etc.)
- Authority Media Application Misrepresentation (i.e. Uncertified personnel, Falsification of documentation, Work not performed as planned, etc.)
- Authority Media Application Training Deficiencies (i.e. Ethics, Culture awareness, Proper use of authority media, etc.)

QA813 **Part 145 Release Documentation**

EASA Form 1 for European domestic release. The EASA Form 1 is the Authorized Release Certificate released by a POA holder for stating that a product, a part, or a component was manufactured in accordance with approved/not approved design data. The same is suitable for a Maintenance Organization as well.

QA814 **Seller Agrees Not to Make Any Change In Material, Process or Design Detail**

Seller agrees not to make, or allow to be made, any changes without written approval by TAS-Y to material, process, design, sub-tier supply, or repair and overhaul procedures for any component, sub-assembly, or assembly after acknowledgement and/or acceptance of this purchase order. Further, Seller agrees to flow down the same to all sub-tier suppliers.

In addition to these changes, any modification which would affect the part or any component part(s) thereof regarding to:

- (a) Part number identification.

Quality Work Instruction	QWI 06.01.02	
	REV R	PAGE 31 OF 31

(b) Physical or functional interchangeability.

(c) Repair and overhaul procedures, processes and material which may affect the component or assembly specification without prior written approval of TAS-Y is prohibited.

QA815 Customer Returns

Product returned by customers of Triumph Actuation Systems – Yakima (TAS-Y) as nonconforming, shall be evaluated, reworked or repaired as rapidly as possible. The return target date to TAS-Y shall not exceed 30 calendar days from the supplier date of receipt.

Warranty returned items shall be verified, confirmed or denied (No Fault Found – NFF) within 7 calendar days of receipt. Supplier shall make the Failure Analysis Report (FAR) available (to TAS – Y Supplier Quality upon request) within 14 calendar days of product receipt.

A Failure Analysis Report (FAR) shall be included with all documentation for the return shipment to TAS-Y.

QA816 Digital Product Definition (DPD)

The product being manufactured under this Triumph Actuation Systems - Yakima Purchase Order shall be provided in compliance with Boeing DPD document DA-51991. The supplier, supplier’s sub-division and supplier’s sub-tiers shall develop and maintain comprehensive documented DPD processes and/or procedures that assure integrity of product and/or tooling configuration throughout the supplier’s QMS.

QA817 Per Triumph Actuation System - Yakima Drop Ship Requirements document QP 8.5.7, all suppliers and sub-contractors that are drop shipping Textron Aviation Defense LLC hardware, shall include a signed Certificate of Conformance which includes the following statements:

"This is a Textron Aviation Defense LLC. (Textron) Drop Shipment".

Followed by the statement:

"Delegated Textron inspection authority has been granted by Textron to Triumph Actuation Systems - Yakima whose Textron approved quality organization includes delegated inspection authority to [Providing Supplier Name]. Acceptance/inspection has been accomplished by [Providing Supplier Name] on behalf of Textron."