

# PURCHASE ORDER ATTACHMENT

## QUALITY ASSURANCE

## TERMS AND CONDITIONS

### APPROVAL SIGNATURES:

	INITIALS	DATE
SALES	HRS	9.13.23
ENGINEERING	RW	9-18-23
PURCHASING	TJH	9-13-23
MANUFACTURING	TN	9-13-23
QUALITY ASSURANCE	QA	9-13-23

TEI-2444, Rev. A

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## REVISION PAGE

REVISION	DATE	DESCRIPTION
N/C	06-21-04	Initial Release
A	09-27-05	Reformatted per TEI-2444, Rev. A Note 8 Attachment: Added '(Note 8 Attachment – Inspection Requirement)' next to "General" Note 8 General: WAS "...Unless these indicate otherwise, the current issue of MIL-STD-105, or ANSI/...." Statistical Sampling Plans Table, * WAS "...on MIL-STD-105 and ANSI/ASQC Z1-4...."
B	06-27-06	Note 1: WAS "The Seller shall not ship any materials, parts or assemblies which do not conform to all drawings, specifications, and purchase order requirements without prior approval from Tayco Engineering Material Review Board. In addition, no repair of product shall be performed without written authorization by Tayco Engineering, Inc. " Note 2: WAS "The Customer/Government reserves the right to inspect any of all of the materials included in this order at the supplier's plant. Sellers quality system is subject to periodic evaluation and verification by Buyers and/or our Customer or Government Representative. Buyer and/or our customer or Government representative may elect to verify the quality of work and materials at all times and places including the Sellers subtier vendors plants." Note 4: WAS "When required on the purchase order the Seller shall submit a Certification of Compliance signed by its authorized representative with each shipment, which states that the product or process supplied is in full conformance with the purchase order and/or drawing or specification requirements. Seller shall have on file and available for review reports of chemical or physical analysis and / or any other required objective evidence of conformance of such items to applicable drawing and/or specifications. Distributors shall submit a copy of the manufacturers material certification traceable to the manufacturers heat number, lot number, date code, etc."
C	04-01-09	Note 3: Added "All test equipment and gages used for calibration.... retest program is required and final disposition." Note 5: 2 <sup>nd</sup> . Paragraph Added "Only when stated...to include country and melt origin."

## REVISION PAGE

REVISION	DATE	DESCRIPTION
C (cont.)	04-01-09	Note 7: WAS "The report must contain actual measured values for all dimensions shown on the applicable T.E.I. drawing. The first article must be separately packaged, identified, and submitted with each shipment." Note 11.3: Added to first sentence "not less than 12 years."
D	02-06-13	Note 4, 1 <sup>st</sup> . sentence WAS "Unless otherwise...requirements shall be retained for a period of 11 years after final payment."
E	03-28-13	Note 4, Counterfeit Parts and Materials Avoidance Added
F	05-20-15	Note 4, 1 <sup>st</sup> para Added
G	01-17-17	Note 3, 2 sentences Added "The seller should maintain a calibration system... by Tayco for inspection or test." Note 4 Added "with the exception of calibration per Note 3." Note 5 last sentence Added "compliant per DFARS...252.225-7002." Note 7 WAS "inspection requirement (A)" Note 10 Deleted WAS certification of printed circuit boards Appendix B Deleted WAS supplier first article inspection data sheet
H	05-02-18	Note 1 Added "Any changes to the location of manufacturing shall warrant notification and buyer approval." Note 2, 1 <sup>st</sup> para. Revised Note 4 5 <sup>th</sup> para. Added
J	08-20-19	Note 4, 2 <sup>nd</sup> para. Revised.
K	05-26-22	Appendix A Added to table "-Reference QCI-014"
L	06-08-23	Note 4, last para. page 5 revised.
M	09-13-23	Note 4, Added Identification of Prohibited Materials

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Note 1: – MATERIAL REVIEW AUTHORITY FOR NON-CONFORMING MATERIAL

The Seller shall not ship any materials, parts or assemblies which do not conform to all drawings, specifications, and purchase order requirements without prior approval from Tayco Engineering Material Review Board. In addition, the supplier shall notify buyer of any changes in product, process and/or services definition, and where required obtain customer approval. Any changes to the location of manufacture shall warrant notification and buyer approval. No repairs of the product shall be performed without written authorization from Tayco Engineering, Inc. All applicable purchase order requirements must be flowed down to sub-tier suppliers and documented evidence of compliance provided with certification.

Note 2: – BUYERS EVALUATION AND RIGHT OF INSPECTION

The Customer/Government & Regulatory Agencies reserves the right to inspect any or all materials and afforded access to the applicable areas of facilities and to all applicable documented information, at any level of the supply chain for this purchase order.

Sellers quality system is subject to periodic evaluation and verification by Buyers and/or our Customer or Government Representative. Buyer and/or our customer or Government representative may elect to verify the quality of work and materials at all times and places including the Sellers sub-tier vendors plants.

Note 3: – ANSI/NCSL Z540-1

The Seller shall maintain a calibration system that complies with one of the following specifications (or an equivalent): ANSI/NCSL Z540-1, or ISO/IEC 17025. This provision shall be applicable to all inspection, test, and measuring equipment used by the supplier or supplied by Tayco for inspection or test. All test equipment and gages used for calibration must be traceable to NIST standards. The Seller shall immediately notify Tayco Engineering, Inc. when measuring or test equipment is found to have a significant out of tolerance condition to determine what, if any, retest program is required and final disposition.

**INSPECTION MEASURING AND TEST EQUIPMENT ACCURACY:**

Random and systematic errors in any article or material measurement shall not exceed 10 percent of the tolerance of the article or material characteristic being measured. (i.e. The accuracy of the measuring test equipment must be at least 10 times greater than the article tolerance being measured.)

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#### Note 4: – CERTIFICATION OF COMPLIANCE

When industry standards or federal specifications are noted (i.e. SAE, AMS, ASME, ASTM, MS, MIL, QQ-S, DFARS, IPC, etc.) on the purchase order, Seller shall provide material to the latest revision on the standard or specification noted at time of delivery with the exception of calibration per Note 3.

When required on the purchase order, the Seller shall submit a Certification of Compliance signed by its authorized representative. The signed Certification of Compliance attests that the material, product or process supplied is in full compliance purchase order and/or drawing specification requirements.

Certification must contain the following:

- Tayco Engineering Purchase Order Number
- Part number or product identification specified on Tayco Engineering PO
- Name and address of manufacturing location (or cage code)
- Quantity Shipped
- Manufacturers traceability is required (ex. Lot, heat, batch, date code, serial number), except for commercial specification items that do not have a traceability requirement.
- Signature of company authorized representative (electronic signature is acceptable)

Seller shall have on file and available for review reports of chemical or physical analysis and / or any other required objective evidence of conformance of such items to applicable drawing and/or specifications.

Distributors shall submit a copy of the manufacturer's material certification traceable to the manufacturer's heat number, lot number, date code, etc.

#### 4.1 Retention of Records:

Unless otherwise stated by contract/purchase order, records shall be retained in a safe, accessible location for a period of not less than 12 years. All records are subject to buyer's examination and shall be maintained for the retention period in a manner that prevents damage from fire, moisture, pests, or other deterioration effects.

Records within the stated retention period shall not be destroyed unless authorized by Tayco Engineering.

Buyer shall be notified if conformance to this requirement cannot be met. Cure or manufacturing dates, assembly dates, expiration dates, temperature limits, compound number, and manufacturing identification will be recorded on the certifications and shipping documents, as appropriate. Temperature-sensitive materials shall be maintained within the limits prescribed in the applicable document during storage and shipment. Material required to be shipped/stored at 40°F or less requires temperature labels to be attached to the exterior of each package.

External suppliers ensure that their personnel are aware of:

- their contribution to product or service conformity.
- their contribution to product safety.
- the importance of ethical behavior.

#### 4.2 Identification of Prohibited Materials:

Seller shall notify buyer if any of the procured products contain the following:

- a. Solder Alloys with greater than 97% tin.
- b. Platings, coatings, or claddings of tin unless they contain a minimum of 3% alloying constituent (such as lead, silver, etc.).
- c. Tin plated wire in crimped wire terminations (soldered termination are acceptable).
- d. Cadmium, selenium, magnesium, or zinc except internal to hermetically sealed devices
- e. Brass with zinc content greater than 15% unless over plated or over coated with suitable material.
- f. Mercury or compounds of mercury.
- g. Zinc chromate protective coatings.
- h. Vinyl or polyvinyl chloride (PVC).
- i. Tin-copper, tin-zinc, tin-bismuth solder alloys and other "lead free: solder alloys.
- j. Corrosive solder fluxes.

#### 4.3 Counterfeit Parts and Materials Avoidance:

- Seller shall not deliver Counterfeit Work to Tayco Engineering under this contract. For purposes of this clause, Work consists of those parts delivered under this Contract that are the lowest level of separately identifiable items (e.g., articles, components, goods, and assemblies). "Counterfeit Work" means Work that is or contains items misrepresented as having been designed and/or produced under an approved system or other acceptable method. The term also includes approved Work that has reached a design life limit or has been damaged beyond possible repair, but is altered and misrepresented as acceptable.
- Seller shall immediately notify Tayco Engineering with the pertinent facts if Seller becomes aware or suspects that it has furnished Counterfeit Work. When requested by Tayco Engineering, Seller shall provide OEM/OCM documentation that authenticates traceability of the affected items to the applicable OEM/OCM.
- In the event that Work delivered under this Contract constitutes or includes Counterfeit Work, Seller shall, at its expense, promptly replace such Counterfeit Work with genuine Work confirming to the requirements of this Contract.
- Components and parts shall be procured only through Original Equipment Manufacturers (OEMs) / Original Component Manufacturers (OCMs) or their authorized franchised dealers or distributors.
- The Seller / Supplier shall not use unapproved brokers (any company, person, or entity who is not an OEM/OCM or not an OEM/OCM authorized franchised dealer or distributor) for the purchase of components and parts unless pre-approval has been granted by Tayco Engineering.
- Seller / Supplier shall verify the procurement source and associated certifying paperwork.
- Appropriate incoming inspection test methods shall be used to detect potential counterfeit parts and materials.
- The Seller / Supplier shall flow this requirement down to sub-tier Suppliers to prevent the inadvertent use of counterfeit parts and materials.

#### Note 5: CERTIFICATION OF CHEMICAL AND PHYSICAL ANALYSIS

When required on the purchase order the Seller shall submit a certification of chemical and physical analysis with each shipment which lists the chemical and physical properties test data including the material type and applicable specification.

Only when stated in the body of the purchase order DFARS metal compliance is required. Metal shall be compliant per DFARS section 252.225-7009 with verification that "specialty metals" are melted in the United States or qualifying country per DFARS 252.225-7002.



Note 6: CERTIFICATION OF ELECTRICAL CONNECTORS

**\* WHEN REQUIRED ON PURCHASE ORDER**

All connectors must contain the same lot date code per line item for each scheduled shipment.

Note 7: FIRST ARTICLE INSPECTION REPORT (FAIR)

**\* WHEN REQUIRED ON PURCHASE ORDER**

The seller shall submit a first article report with each lot shipment. The report must contain actual measured values for all dimensions and drawing notes shown on the applicable T.E.I. drawing. All parameters and notes shown on the drawing(s) must be inspected or tested and reported on supplier's format. Refer to AS9102, Aerospace First Article Inspection Requirements for requirements and possible format. The first article must be separately packaged, identified, and submitted with each shipment.

Note 8: INSPECTION REQUIREMENT (B)

**\* WHEN REQUIRED ON PURCHASE ORDER**

The seller shall include an acceptance report for the total quantity of units shipped.  
Reference note 8 attachment for detailed requirements.

**GENERAL (Note 8 Attachment – Inspection Requirement)**

Supplies delivered against this purchase order require seller's inspection and/or test of characteristics described by Tayco's drawings and specifications. Unless these indicate otherwise, the current issue of ANSI/ASQC Z1-4 is to be used for planning and conducting sampling inspection by attributes. When no AQL for dimensional characteristic is indicated, sampling inspection shall be as follows:

<u>Total Tolerance</u>	<u>Minimum AQL</u>
Less than 0.025 mm (0.001in) or 0.25°	100% inspection
0.025 mm (0.001 in.) or more or 0.25° or more	1.0%



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Note 8: INSPECTION REQUIREMENT (B) (cont.)

1. DATA SUBMITTAL

Results of inspection and test required by Tayco's drawings and specifications shall be documented on the attached Inspection/Test Data and Certification form or equivalent form and shall accompany each shipment of supplies delivered against this purchase order. Seller may elect to attach copies of his own inspection/test data sheets to Tayco's Inspection/Test Data and Certification form (Sheet 3), provided information required is available on such documents.

- a. Attributes Results: List each inspection and test attribute with its corresponding specification limit(s) and record the number of items inspected, the number accepted and the number rejected.

2. IDENTIFICATION

Inspection/Test Data and Certification shall contain:

- a. Part Name, Part Number, and Revision
- b. Manufacturer's Name
- c. Purchase Order Number and Revision

3. QUALITY APPROVAL

Inspection/Test Data and certification shall be dated and bear the signature or stamp, and title of Seller's Quality Organization individual responsible for accepting the item(s).

4. OTHER OBLIGATIONS

The submission of inspection and/or test data provided herein shall not modify or limit any representations, warranties, or commitments made elsewhere or in any way affect the obligation of Seller to perform strictly in accordance with the provisions of this Purchase Order.

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#### Note 9: ELECTRONICS QPL AND DATE CODE REQUIREMENT

#### **\*WHEN REQUIRED ON PURCHASE ORDER**

All procured Mil-M-38510 or Mil-STD-883 integrated circuits, Mil-S-19500 semi conductors, and Mil ER-established parts, shall be manufactured by companies listed on the latest Q.P.L. Supplier shall include date codes on all certification documents.

Note 10: Deleted

#### Note 11: SPACE STATION PURCHASE ORDER REQUIREMENTS

The following procurement requirements are hereby imposed on the subject purchase order. These Space Station program procurement requirements are in addition to the quality assurance terms and conditions listed on purchase order attachment.

##### 11.1 Notification of Higher Quality

The materials procured on this purchase order are for use in manned space flight. Materials, manufacturing, and workmanship of the highest quality standards are essential to astronaut safety.

If you are able to supply the desired item with a quality which is higher than that of the items specified or proposed, you are requested to bring this fact to the immediate attention of Tayco Engineering, Inc.

##### 11.2 Process or Material Changes

Supplier is required to notify Tayco Engineering, Inc. of any proposed changes in fabrication, materials, methods, or processes previously approved and shall obtain written approval from Tayco Engineering before making the change. When a proprietary item is procured, the supplier is required to notify Tayco Engineering of changes in materials, fabrication methods, processes, or product operating characteristics prior to delivery.

##### 11.3 Retention of Records

Records shall be retained in a safe, accessible location for a period not less than 12 years. Records shall not be destroyed unless authorized by Tayco Engineering. If faxed copies of data are received by the subcontractor as records, the faxes shall be legibly copied to retain on file (fax copies fade over time).

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NOTE 12: TAYCO ENGINEERING, INC. SOURCE INSPECTION

Tayco Engineering, Inc. Source Inspection is required on this contract. Tayco shall perform source inspection, at the supplier's facility for the product, test or process stated in the contract. Mandatory source inspection and test witness points shall be agreed by Tayco Engineering and the supplier prior to the start of manufacturing or processing. The supplier shall have available to the Tayco Engineering, representative the required inspection and test documentation for inspection and test performance. The supplier shall notify the Tayco Engineering Quality Representative (3) three working days in advance by telephone, fax or e-mail stating product to be inspected, when products are ready for inspection. The supplier shall verify source inspection completion prior to shipment of product.

# APPENDIX A

## STATISTICAL SAMPLING PLANS

## TAYCO ENGINEERING, INC. STATISTICAL SAMPLING PLANS\*

## REFERENCE ONLY

LOT QUANTITY	AQL 1.0			AQL 2.5			AQL 4.0			SAMPLE SIZE	SIZES
	Sample Size	Accept On	Reject On	Sample Size	Accept On	Reject On	Sample Size	Accept On	Reject On		
2 to 8	All	0	1	5	0	1	3	0	1	A	2
9 to 15	13	0	1	5	0	1	3	0	1	B	3
16 to 25	13	0	1	5	0	1	3	0	1	C	5
26 to 50	13	0	1	5	0	1	13	0	1	D	8
51 to 90	13	0	1	20	0	1	13	0	1	E	13
91 to 150	13	0	1	20	0	1	20	0	1	F	20
151 to 280	50	0	1	32	0	1	32	0	1	G	32
281 to 500	50	0	1	50	0	1	50	0	1	H	50
501 to 1200	80	0	1	80	0	1	80	0	1	J	80

- Reference QCI-014

### STATISTICAL SAMPLING INSPECTION – RECEIVING INSPECTION

\* Information above based on ANSI/ASQC Z1-4 Single Sampling Plan – Normal Inspection.

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