

## PO QUALITY CLAUSES

### **QA-01 CERTIFICATION OF COMPLIANCE**

CERTIFICATION DOCUMENTS ARE REQUIRED FROM SUPPLIER AND SUB-TIER SUPPLIER, AND SHALL BE IDENTIFIED WITH, AND INCLUDE THE FOLLOWING: OUR PURCHASE ORDER NUMBER, ITEM NUMBER, QUANTITY, LOT NUMBER AND/OR SERIAL NUMBER, D.O.M., PART NUMBER AND REVISION AS SPECIFIED ON PO., SIGNATURE, TITLE, AND DATE BY AN AUTHORIZED REPRESENTATIVE OF THE ISSUING ORGANIZATION

**COUNTRY OF ORIGIN SHOULD BE STATED ON CERTIFICATE WHENEVER POSSIBLE**

### **QA-02 MATERIAL CERTIFICATION OF COMPLIANCE**

MUST INCLUDE BOTH MATERIAL CERTS WITH HEAT LOT #S AND TEST DATA. THE CERTS MUST SHOW CHAIN OF CUSTODY PROOF FROM RAW MATERIAL TO FINAL SUPPLIER VIA DOCUMENTED CERTS AND PACKING LIST (FULL TRACEABILITY). CERTIFICATIONS MUST INCLUDE APPLICABLE MILITARY OR COMMERCIAL SPECIFICATION (IF APPLICABLE), INCLUDING LATEST REVISION OF SPECIFICATION. THIS INCLUDES WINCHESTER MICRO PLATING SPECIFICATIONS AS WELL EACH SHIPMENT MUST BE ACCOMPANIED BY LEGIBLE AND REPRODUCIBLE COPY OF THE RAW MATERIAL CERTIFICATION. THE CERTIFICATION SHALL BE FROM THE MILL SOURCE AND LISTS THE ACTUAL CHEMICAL TEST VALUES AND TRACEABLE TO THE HEAT AND COUNTRY OF ORIGIN.

### **QA-03 RAW MATERIAL TRACEABILITY**

ALL ITEMS MANUFACTURED UNDER THIS PURCHASE ORDER SHALL BE TRACEABLE TO RAW MATERIAL USED. TRACEABILITY AND INSPECTION RECORDS SHALL BE AVAILABLE UPON REQUEST BY WINCHESTER MICRO. IDENTIFICATION OF RAW MATERIAL USED SHALL INCLUDE, AS APPLICABLE, BUT NOT LIMITED TO, THE FOLLOWING TYPE OF INFORMATION: LOT NUMBER, MATERIAL TYPE, SPECIFICATION, HEAT NUMBER, ETC. IN ANY CASE, SUPPLIER SHALL ADEQUATELY IDENTIFY ALL MATERIAL IN SUCH A MANNER THAT FULL TRACEABILITY OF RAW MATERIAL USED IS INCLUDED.

NOTE: SUPPLIER MUST INCLUDE LOT NUMBERS OF MATERIAL SUPPLIED TO THE VENDOR (SUBCONTRACTED ITEMS) AS SPECIFIED IN THE PURCHASE ORDER.

### **QA-04 PLATING THICKNESS READINGS REQUIRED (WHEN SPECIFIED)**

SUPPLIER MUST INCLUDE RESULTS OF A MINIMUM OF 5 PLATING THICKNESS READINGS OF THE ACTUAL PART AND INCLUDE WITH SHIPMENT (PLATING SAMPLES OR TEST SPECIMENS)

### **QA-05 SPC ON CRITICAL DIMENSIONS IDENTIFIED ON PRINT (WHEN SPECIFIED)**

SPC DATA AND X-R CONTROL CHARTS MUST BE INCLUDED WITH SHIPMENT.

### **QA-06 DFARS COMPLIANCE REQUIRED (UNLESS OTHERWISE STATED ON PO)**

PRODUCT MUST COMPLY WITH DFARS 252.225-7009 - PREFERENCE FOR DOMESTIC SPECIALTY METALS. MELTED IN USA OR QUALIFYING COUNTRY. SUPPLIER CAN REFERENCE FAR AND DFAR CLAUSES LISTED IN WINCHESTER MICRO WEBSITE AT

[https://cdn.ultimateconnector.com/download/quality/DFARS\\_FAR\\_umi.pdf](https://cdn.ultimateconnector.com/download/quality/DFARS_FAR_umi.pdf)

### **QA-07 SOLDERING PER J-STD-001/SOLDERABILITY TEST PER J-STD-002 (WHEN SPECIFIED)**

SUPPLIER MUST CERTIFY THAT THE SOLDERING/SOLDERABILITY TESTS PERFORMED CONFORM TO ANSI J-STD-001 AND/OR ANSI J-STD-002.

### **QA-08 ROHS & REACH STATUS REQUIRED**

If product delivered is RoHS/REACH compliant to the latest versions of RoHS/REACH please state the compliance on Certificate of Compliance. If material is not RoHS or REACH compliant—Please advise reason why it is not compliant (due to specific chemical on product)—if you cannot identify the specific materials, please make note on C of C.

**QA-09 3% MINIMUM LEAD CONTENT REQUIRED (WHEN SPECIFIED)**

MATERIAL SUPPLIED IF TIN PLATED MUST HAVE A MINIMUM OF 3% LEAD ALLIED WITH THE TIN

**QA-10 FIRST ARTICLE VERIFICATION REQUIRED—SUPPLIER STANDARD FORM**

A FIRST ARTICLE INSPECTION REPORT SHALL BE REQUIRED WHEN ANY OF THE FOLLOWING CONDITIONS ARE PRESENT:

- THE FIRST PRODUCTION UNITS ARE MANUFACTURED FOR A SPECIFIC ITEM.
- A DELTA FIRST ARTICLE IS REQUIRED IF: THERE IS A REVISION CHANGE TO THE ITEM MANUFACTURED
- THERE HAS BEEN A LAPSE OF 2 YEARS SINCE THE LAST MANUFACTURE OF THE PRODUCT BEING PURCHASED.
- THERE HAS BEEN A PROCESS OR LOCATION CHANGE IN THE MANUFACTURING OF THE PRODUCT.
- THE REPORT SHALL INCLUDE ALL DRAWING CHARACTERISTICS AND NOTES, REQUIRED TOLERANCE RANGE, ACTUAL MEASUREMENT RESULTS, AND WHERE PHYSICAL TESTING IS REQUIRED, THE RESULT OF THE TEST. SUPPLIER MAY USE AS9102 FORMAT OR THEIR OWN STANDARD FORMAT.
- REPORT MUST BE KEPT ON FILE FOR 10 YEARS AND BE READILY RETRIEVABLE IF WINCHESTER MICRO OR WINCHESTER MICRO CUSTOMERS REQUEST A COPY. THIS REQUIREMENT IS FLOWED DOWN TO ALL SUPPLIER SUB-CONTRACTORS.

**QA-12 QUALITY SYSTEM REQUIREMENTS AND FLOWDOWN TO SUPPLIERS**

SUPPLIER SHALL IMPLEMENT AND MAINTAIN A QUALITY MANAGEMENT SYSTEM THAT COMPLIES WITH ISO 9001/AS9100 OR AN EQUIVALENT SYSTEM THAT PROVIDES ADEQUATE INSPECTION TO VERIFY THAT THE PRODUCT SUPPLIED IS IN FULL COMPLIANCE WITH THE PURCHASE ORDER REQUIREMENTS AND ALL APPLICABLE SPECIFICATIONS. COMPLIANCE WITH THESE REQUIREMENTS ARE SUBJECT TO AUDIT BY WINCHESTER MICRO. **SUPPLIER WILL FLOW-DOWN ALL APPLICABLE REQUIREMENTS OF THE PURCHASE ORDER TO THEIR SUPPLIERS TO ENSURE CONFORMANCE WITH ALL SPECIFICATIONS, DRAWINGS, QUALITY SYSTEM REQUIREMENTS (I.E. ISO9001, AS9100, OR OTHER QMS), REGULATIONS/LAWS, AND OTHER REQUIREMENTS, INCLUDING KEY CHARACTERISTICS, AS MAY BE SPECIFIED IN THE PURCHASE ORDER.**

**\*\*\*CRITICAL: IF A SUPPLIER HOLDS AN AS9100, ISO 9001 OR SIMILAR QUALITY MANAGEMENT CERTIFICATION, THEY ARE TO ADVISE US IF THEIR CERTIFICATION HAS EXPIRED AS WELL AS SEND US THEIR NEW CERTIFICATIONS UPON THEIR RENEWAL \*\*\***

**QA-13 NO MRB AUTHORITY GIVEN FOR NON-CONFORMANCES—WINCHESTER MICRO QUALITY DEPT MUST BE NOTIFIED PRIOR TO ANY DISPOSITIONS OR IMPLEMENTATIONS**

SUGGESTED DISPOSITIONS, IDENTIFICATIONS OF CAUSE OF NON-CONFORMANCE, AND THE CORRECTIVE ACTIONS TAKEN SHALL BE SUBMITTED IN WRITING. FURTHER WORK SHALL NOT BE PERFORMED UNTIL DIRECTED BY WINCHESTER MICRO IN WRITING. SUPPLIER SHALL NOT SHIP NON-CONFORMING MATERIALS **WITHOUT APPROVAL AND PROPER IDENTIFICATION INDICATING THAT MATERIAL IS NON-CONFORMING AND SHOULD BE SEGREGATED FROM CONFORMING MATERIAL.** ALL NON-CONFORMING MATERIALS SHALL BE CLEARLY IDENTIFIED AS TO THE NATURE OF THE NON-CONFORMANCE(S) WHEN SHIPPED TO WINCHESTER MICRO.

**QA-14 SUPPLIER MUST MAINTAIN APPROVED STATUS ON VENDOR REPORT CARD SYSTEM AND NOT HAVE 3 REPORT CARDS IN A ROW WITH < 60% RATING (WHEN CLAUSE IS INVOKED)**

SUPPLIER MUST MAINTAIN APPROVED STATUS WHILE DOING BUSINESS WITH WINCHESTER MICRO. IF 3 QUARTERLY REPORT CARDS IN A ROW, THE RATING FALLS BELOW 60%- THE SUPPLIER IS SUBJECT TO DISQUALIFICATION AND A CORRECTIVE ACTION WILL BE REQUIRED FOR OTD OR QUALITY PERFORMANCE.

**QA-15 WINCHESTER MICRO SOURCE INSPECTION REQUIRED—NOTIFY WINCHESTER MICRO QUALITY PRIOR TO SHIPMENT (WHEN SPECIFIED)**

WINCHESTER MICRO WILL INSPECT THE MATERIAL SUBMITTED ON THIS PURCHASE ORDER AT THE SUPPLIER'S FACILITY. SOURCE INSPECTION APPROVAL OR ACCEPTANCE SHALL NOT CONSTITUTE FINAL APPROVAL OR ACCEPTANCE BY WINCHESTER

MICRO OF THE ITEMS COVERED BY THIS PURCHASE ORDER, NOR SHALL IT RELIEVE THE SELLER OF THEIR RESPONSIBILITY TO FURNISH ACCEPTABLE PRODUCT.

**QA-16 WINCHESTER MICRO IN PROCESS SOURCE INSPECTION REQUIRED—NOTIFY WINCHESTER MICRO QUALITY PRIOR TO CRITICAL PROCESS IS PERFORMED (WHEN SPECIFIED)**

CRITICAL PROCESS IS TO BE AGREED UPON BETWEEN VENDOR AND WINCHESTER MICRO QUALITY AHEAD OF TIME

**QA-17 GOVERNMENT INSPECTION (WHEN SPECIFIED)**

GOVERNMENT INSPECTION IS REQUIRED PRIOR TO SHIPMENT FROM YOUR PLANT. PROMPTLY NOTIFY THE GOVERNMENT REPRESENTATIVE WHO NORMALLY SERVES YOUR COMPANY.

**QA-18 CONFIGURATION MANAGEMENT**

SUPPLIER SHALL NOTIFY BUYER IMMEDIATELY OF ANY CHANGES TO THE CHARACTERISTICS OR CONFIGURATION OF THE PRODUCT AND/OR PROCESSES USED TO MANUFACTURE THE PRODUCT. SUPPLIER SHALL OBTAIN WRITTEN APPROVAL OF CHANGES FROM WINCHESTER MICRO

**QA-19 FOD CLEANLINESS PROGRAM**

PARTS RECEIVED MUST BE FREE OF FOREIGN OBJECT DEBRIS OR CONTAMINANTS ANYWHERE ON THE PRODUCT. SUPPLIER MUST ESTABLISH A FOD/FOE PROGRAM AT THEIR FACILITY.

**QA-20 PACKAGING / HANDLING (WHEN SPECIFIED)**

PRODUCT INTENDED FOR DELIVERY TO WINCHESTER MICRO SHALL BE HANDLED AND PACKAGED IN MANNER AS NECESSARY TO PREVENT DAMAGE DURING HANDLING AND TRANSIT

- **QA-20A:** PKG IN TRAYS--INSPECT TRAYS FOR CLEANLINESS PRIOR TO SHIPMENT
- **QA-20B:** BULK PKG IN BAGS ACCEPTABLE
- **QA-20C:** ONE PER BAG PKG
- **QA-20D:** HAZARDOUS MATERIALS, AS DEFINED BY THE EPA, SHALL BE PACKED AND CLEARLY IDENTIFY IN SUCH MANNER AS TO INCLUDE ANY AND ALL SPECIAL HANDLING, PACKAGING, STORAGE, ENVIRONMENTAL, OR OTHER REQUIREMENTS IMPOSED BY STATUS OF REGULATION. (MSDS MUST BE INCLUDED WITH EACH SHIPMENT.)
- **QA-20E:** ESD PKG REQUIRED PER ANSI/ESD S541
- **QA-20F:** PKG IN BAGS—MAXIMUM PER BAG = 2-2.5 LBS
- **QA-20G:** PKG IN EGG CRATES OR DIVIDERS TO PROTECT DAMAGE TO THREADS
- **QA-20H:** PACKAGE IN REELS OR SPOOLS
- **QA-20I:** TUBES

**QA-21 BAR CODE LABELING REQUIRED (WHEN SPECIFIED)**

PART NUMBER, DESCRIPTION, QTY AND LOT NUMBER INFORMATION MUST BE INCLUDED IN A LABEL AFFIXED TO THE EXTERNAL OR INTERNAL CONTAINER OF THE PRODUCT. CODE 3 OF 9 BARCODE STANDARD SHOULD BE APPLIED.

**QA-22 LIMITED SHELF-LIFE MATERIAL**

THE SELLER SHALL IDENTIFY EACH ITEM, PACKAGE, OR CONTAINER THAT HAS A LIMITED-CALENDAR-SHELF-LIFE MATERIAL WITH THE MANUFACTURE DATE, STORAGE TEMPERATURE, SPECIAL HANDLING CONDITIONS AND REQUIREMENTS, IN ADDITION TO THE NORMAL IDENTIFICATION REQUIREMENT OF NAME, PART NUMBER, SPECIFICATION NUMBER, TYPE, SIZE, QUANTITY AND MANUFACTURERS RECOMMENDED SHELF LIFE. THIS IDENTIFICATION, INCLUDING SPECIAL HANDLING CONDITION AND REQUIREMENTS, SHALL BE RECORDED ON CERTIFICATIONS AND SHIPPING DOCUMENTS FOR THE MATERIAL.

**MATERIALS AT THE TIME OF RECEIPT AT WINCHESTER MICRO SHALL HAVE A MINIMUM OF 80% OF THEIR SHELF LIFE REMAINING.**

**QA-23 QUALITY RECORDS (APPLIES TO ALL PURCHASE ORDERS)**

ALL QUALITY RECORDS ARE TO BE LEGIBLE, REPRODUCIBLE, AND IDENTIFIABLE TO THE PURCHASE ORDER. QUALITY RECORDS ARE TO BE STORED AND MAINTAINED IN SUCH A WAY THAT THEY ARE READILY RETRIEVABLE IN FACILITIES THAT PROVIDE A SUITABLE ENVIRONMENT TO MINIMIZE DETERIORIZATION OR DAMAGE AND TO PREVENT LOSS. THIS APPLIES TO OUR SUPPLIERS AND ANY SUB-TIER SUPPLIERS. RETENTION PERIOD FOR QUALITY RECORDS IS **10 YEARS** UNLESS OTHERWISE SPECIFIED ON OUR PURCHASE ORDER. WINCHESTER MICRO, OUR CUSTOMERS, OR REGULATORY AGENCY REPRESENTATIVE SHALL HAVE ACCESS TO REVIEW QUALITY RECORDS AS THEY PERTAIN TO THIS ORDER.

**QA-24 RIGHT OF ENTRY**

WINCHESTER MICRO RESERVES THE RIGHT TO REVIEW *ALL APPLICABLE RECORDS*, CONTROL METHODS AND INSPECT MATERIAL PERTAINING TO THIS PURCHASE ORDER AT THE SUPPLIER'S PLANT AND AT ANY SUB-TIER PLANT. THIS ACCESS RIGHTS SHALL BE EXTENDED TO OUR CUSTOMER AND GOVERNMENT OR REGULATORY AGENCY REPRESENTATIVES.

**QA-25 100% INSPECTION REQUIRED FOR ALL PARTS (WHEN SPECIFIED)**

WINCHESTER MICRO REQUIRES THAT ALL PARTS MUST BE 100% DIMENSIONALLY AND VISUALLY INSPECTED FOR COSMETIC DEFECTS, SCRATCHES, BLISTERS, FOD, OR OTHER DAMAGE.

**QA-26 EXPORT INFORMATION CLASSIFICATION REQUIREMENTS (WHEN SPECIFIED)**

WHEN THIS CLAUSE IS INVOKED, THE SUPPLIER SHALL PROVIDE WINCHESTER MICRO WITH HARMONIZED TARIFF OR SCHEDULE B COMMODITY CODE INFORMATION, ECCN OR ITAR CLASSIFICATION CODES (IF APPLICABLE), WHETHER PARTS FALL UNDER COMMERCE OR STATE DEPARTMENT REGULATIONS, COUNTRY OF ORIGIN AND IF NECESSARY, USFCA CERTIFICATE OF ORIGIN.

**\*\*IF ITAR/CUI REGULATIONS APPLY (WILL BE NOTED ON PO), THEN ONLY US PERSONS SHALL BE INVOLVED IN THE MANUFACTURE OF THE ORDER\*\***

**QA-27 COUNTERFEIT MATERIAL**

THE SUPPLIER SHALL HAVE PROCESSES AND CONTROL TO ENSURE THAT NO COUNTERFEIT MATERIALS ARE DELIVERED TO WINCHESTER MICRO OR TO ITS CUSTOMERS. SUPPLIER SHALL HAVE A PROCESS THAT IS COMPLIANT TO **AS5553 (Counterfeit Electronic Standard)** AS A WHOLE, AND SPECIFICALLY HAVE PROCESSES IN PLACE SUPPORT ALL THE REQUIREMENTS OF SECTION 4, FROM 4.1 COUNTERFEIT ELECTRONICS PARTS CONTROL PLAN THROUGH 4.1.6 MATERIAL CONTROL. SUPPLIER SHALL MAINTAIN DOCUMENTATION, I.E. CERTIFICATES OF MANUFACTURE, CERTIFICATES OF CONFORMANCE, INDEPENDENT 3<sup>RD</sup> PARTY TESTING, AND OTHER DOCUMENTATION NECESSARY TO ASSURE TRACEABILITY TO THE ORIGINAL EQUIPMENT MANUFACTURE (OEM). DOCUMENTATION SHALL BE MAINTAINED PER RECORD RETENTION REQUIREMENT FLOW DOWN AND BE AVAILABLE UPON REQUEST.

SUPPLIERS ARE EXPECTED TO FLOW DOWN THIS REQUIREMENT TO ALL THEIR SUPPLIERS BACK TO THE ORIGINAL MANUFACTURER.

SUPPLIERS ARE REQUIRED TO ASSURE FULL COMPLIANCE THRU AUDITS, 3<sup>RD</sup> PARTY AUDITS, RANDOM COMPLIANCE TESTING, ETC...

**QA-28 C=0 SAMPLING PLAN (WHEN SPECIFIED)**

UNLESS OTHERWISE STATED ON THE PO OR DRAWING, SAMPLING INSPECTION PRIOR TO SHIPMENT TO WINCHESTER MICRO SHALL BE PERFORMED IN ACCORDANCE WITH MIL-STD-1916. **THIS IS VISUAL INSPECTION ONLY AND DOES NOT DICTATE DIMENSION INSPECTION SAMPLE SIZES. DIMENSIONAL INSPECTION SAMPLING WILL BE DICTATED BY SUPPLIER OWN GUIDELINES.**

UNLESS OTHERWISE INDICATED, NORMAL INSPECTION SHALL BE BASED ON THE C=0 SAMPLING PLAN ATTACHED PER LEVEL III, AQL .65. IF TIGHTENED INSPECTION IS INDICATED, IT SHALL BE BASED ON THE C=0 SAMPLING PLAN PER LEVEL IV, AQL .25.

IN ALL CASES OF AQL SAMPLING INSPECTION, REJECTION OF THE LOT WILL BE ON THE FIRST UNACCEPTABLE PIECE (C=0). THE FULL SAMPLE SIZE INSPECTION SHALL STILL BE PERFORMED, AND THE NUMBER OF REJECTS RECORDED FOR REFERENCE ONLY. (PLEASE SEE SAMPLING PLAN TABLE ON NEXT PAGE)

### C = 0 Sampling Plan

MIL-STD-1916													
Verification Level	VII		VI			V		IV		III		II	
INDEX VALUE													
AQL	.010	.015	.025	.040	.065	.10	.15	.25	.40	.65	1.0	1.5	2.5
LOT SIZE								SAMPLE SIZE					
2 TO 8	*	*	*	*	*	*	*	*	*	*	*	*	5
9 TO 15	*	*	*	*	*	*	*	*	*	*	13	8	5
16 TO 25	*	*	*	*	*	*	*	*	*	20	13	8	5
26 TO 50	*	*	*	*	*	*	*	*	32	20	13	8	5
51 TO 90	*	*	*	*	*	*	80	50	32	20	13	8	7
91 TO 150	*	*	*	*	*	125	80	50	32	20	13	12	11
151 TO 280	*	*	*	*	200	125	80	50	32	20	20	19	13
281 TO 500	*	*	*	315	200	125	80	50	48	47	29	21	16
501 TO 1200	*	800	500	315	200	125	80	75	73	47	34	27	19
1201 TO 3200	1250	800	500	315	200	125	120	116	73	53	42	35	23
3201 TO 10,000	1250	800	500	315	200	192	189	116	86	68	50	38	29
10,001 TO 35,000	1250	800	500	315	300	294	189	135	108	77	60	48	35

#### QA-29 SILVER COATED COPPER WIRE CORROSION CONTROL (RED PLAGUE) (WHEN SPECIFIED)

SUPPLIER MUST ADHERE TO RAYTHEON SPECIFICATION P8658300 CONTROL FOR PREVENTION OF MOISTURE AND WIRE CORROSION ON SILVER PLATED WIRE OR BRAID. PARTS MUST BE DELIVERED IN SEALED BAGS WITH SILVER SAVER PAPER OVER THE WIRE AND/OR DESSICANT INSIDE BAG. CONTACT WINCHESTER MICRO IF THERE ARE ANY QUESTIONS.

#### QA-30 SUPPLIER'S INSPECTION SYSTEM REQUIREMENTS

SUPPLIER AND SUB-TIERS MUST PERFORM ALL INSPECTIONS AND TESTS NECESSARY TO PROVE PRODUCTS PERFORMANCE TO DRAWINGS, SPECIFICATIONS, CONTRACT REQUIREMENTS, AND INSPECTIONS AND TEST REQUIRED BY THE PURCHASE ORDER. SUPPLIER MUST PROVIDE AND MAINTAIN AN INSPECTION SYSTEM THAT IS DOCUMENTED AND THAT INSPECTION AND TEST RECORDS ARE MAINTAINED. (REF. QA-23) SUPPLIERS MUST BE AWARE OF SPECIAL SYMBOLS THAT ARE NOTED ON THE DRAWING AND CAN REQUEST A COPY OF AS9100-1 FORM FOR EXPLANATION OF SYMBOLS

#### QA-31 NO CHANGES WITHOUT APPROVAL

SUPPLIER MUST NOTIFY WINCHESTER MICRO IN WRITING IF THERE IS ANY PLAN OF MAKING CHANGES IN MATERIAL, PROCESS, TOOLING, LOCATION, PERSONNEL (TRAINING) THAT WILL AFFECT FORM, FIT, AND FUNCTION OF THE PRODUCT. PRIOR TO FULFILLING WINCHESTER MICRO PURCHASE ORDERS, WINCHESTER MICRO MUST APPROVE ANY/ALL CHANGES IN WRITING.

#### QA-32 QUALIFIED PERSONNEL FOR SPECIAL PROCESSES

PERSONNEL PERFORMING SPECIAL PROCESSES (IE SOLDERING, PLATING, ETC) MUST BE CURRENTLY TRAINED OR CERTIFIED TO THE APPLICABLE STANDARDS.

#### **QA-33 CONFLICT MINERALS**

SUPPLIER SHALL COMPLY WITH SECTION 1502 OF DODD-FRANK ACT AND ITS IMPLEMENTING REGULATIONS. SUPPLIER SHALL COMMIT TO HAVE IN PLACE A SUPPLY CHAIN POLICY THAT MAKES A REASONABLE INQUIRY INTO THE COUNTRY OF ORIGIN OF CONFLICT MINERALS INCORPORATED INTO PRODUCTS PROVIDED TO WINCHESTER MICRO, AND TO REPORT THOSE FINDINGS TO WINCHESTER MICRO USING THE LATEST CMRT VERSION. **THIS APPLIES TO PRODUCT CONTAINING GOLD OR TIN ONLY.**

#### **QA-34 MERCURY FREE**

SUPPLIER SHALL ENSURE THAT PRODUCT SUPPLIED TO WINCHESTER MICRO IS MERCURY FREE.

#### **QA-35 MEASURING AND TEST EQUIPMENT**

SUPPLIER SHALL BE RESPONSIBLE FOR VALIDATING THE ACCURACY AND STABILITY OF TOOLS, GAUGES, AND TEST TO ANSI/NCSL Z540.3 OR NATIONAL OR INTERNATIONAL EQUIVALENT, WHICH ARE USED TO DEMONSTRATE THAT ITEMS CONFORM. DOCUMENTED SCHEDULES SHALL BE MAINTAINED TO PROVIDE FOR PERIODIC CALIBRATION TRACEABLE TO INTERNATIONAL OR NATIONAL STANDARDS BODIES SUCH AS THE NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY (NIST). OBJECTIVE EVIDENCE OF CALIBRATIONS SHALL BE RECORDED AND MADE AVAILABLE FOR WINCHESTER MICRO TO REVIEW UPON REQUEST. IF CALIBRATIONS LABS ARE USED FOR CALIBRATION OF CERTAIN TEST EQUIPMENT, THE CALIBRATION LAB SHOULD BE ACCREDITED TO ISO/IEC 17025.

#### **QA-36 WORKMANSHIP STANDARDS**

QUALITY WORKMANSHIP SHALL BE IN ACCORDANCE WITH APPLICABLE DRAWINGS AND SPECIFICATIONS AND/OR IF NOT IDENTIFIED, WITH J-STD-001 OR AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) CRITERIA. SOLDERING WORKMANSHIP SHALL CONFORM TO IPC-A-610 (CLASS 3) AND CABLE/WIRE HARNESS WORKMANSHIP SHALL CONFORM TO IPC-A-620 (CLASS 3)

#### **QA-37 ELECTROSTATIC DISCHARGE PROTECTION (IF APPLICABLE)**

SUPPLIER SHALL PROVIDE SAFEGUARDS FOR ALL ELECTROSTATIC DISCHARGE SENSITIVE (ESDS) COMPONENTS AND ASSEMBLIES IN CONFORMANCE WITH MIL-STD-1686 AND MILITARY HANDBOOK DOD-HDBK-263.

#### **QA-38 PRODUCT AND SERVICE CONFORMITY, PRODUCT SAFETY, IMPORTANCE OF ETHICAL BEHAVIOR**

SUPPLIER SHALL BE AWARE OF THEIR CONTRIBUTION TO PRODUCT AND SERVICE CONFORMITY AS PER APPLICABLE WINCHESTER MICRO SPEC AND FLOWDOWN REQUIREMENTS, THEIR CONTRIBUTION TO PRODUCT SAFETY (INCLUDING ANY APPLICABLE FUNCTIONAL OR ELECTRICAL TESTING), AND THE IMPORTANCE OF ETHICAL BEHAVIOR. REFERENCE WINCHESTER MICRO CODE OF ETHICS AND CONDUCT AT <https://cdn.ultimateconnector.com/download/quality/F-730-001%20Code%20of%20Ethics%20and%20Conduct.pdf>

#### **QA-39 FAR AND DFAR CLAUSES**

WHEN THIS CLAUSE IS CALLED OUT ON THE CONTRACT (PURCHASE ORDER), SUPPLIER CAN REFERENCE FAR AND DFAR CLAUSES LISTED IN WINCHESTER MICRO WEBSITE AT [https://cdn.ultimateconnector.com/download/quality/DFARS\\_FAR\\_umi.pdf](https://cdn.ultimateconnector.com/download/quality/DFARS_FAR_umi.pdf)

**REVISION HISTORY**

REVISION #	REVISION DATE	DESCRIPTION	APPROVED BY
A	1/12/2012	INITIAL RELEASE	ALEX HORDO
B	1/15/2013	ADDED CLAUSES QA-27, QA-28	ALEX HORDO
C	4/16/2013	ADDED CLAUSE QA-29	ALEX HORDO
D	7/30/2014	ADDED CLAUSES QA-30-QA-32	ALEX HORDO
E	5/6/2015	ADDED (WHEN SPECIFIED) TO VARIOUS CLAUSES. ADDED CLAUSES QA-33 THRU QA-37	ALEX HORDO
F	8/8/2016	UPDATED CLAUSE QA-12 TO ADD THE REQUIREMENT FOR ISO/AS CERTIFIED SUPPLIERS TO SEND US COPIES OF THEIR NEW CERTS. (NOTE: NO OTHER PROCEDURES AFFECTED)	ALEX HORDO
G	9/7/2017	UPDATED QA-04, QA-06, QA-10, QA-12, QA-20, QA-26. ADDED QA-38.	ALEX HORDO
H	10/25/2017	UPDATED QA-28.	ALEX HORDO
J	3/1/2019	UPDATED QA-30—ADDED SUPPLIERS TO BE AWARE OF SPECIAL SYMBOLS AND TO ASK FOR AS9100-1 DOCUMENT FOR EXPLANATION OF SYMBOLS	ALEX HORDO
K	11/18/2019	ADDED QA-39 CLAUSE	ALEX HORDO
L	10/24/2021	UPDATED QA-18 CLAUSE—CRITICAL REQUIREMENT ADDED. CHANGES AND UPDATES THROUGHOUT DOCUMENT (QA-39 IS NOW MANDATORY)	ALEX HORDO
M	10/7/2025	UPDATE LOG TO WINCHESTER LOGO, REMOVED ULTIMATE AND ULTIMATE CONNECTOR AND REPLACED WITH WINCHESTER MICRO, AND ON QA-10, CHANGED THE LAPSE IN PRODUCTION FROM 5 YEARS TO 2 YEARS TO BE IN LINE WITH AS9102	ALEX HORDO