1. **Q CLAUSES**

**QAPOR 0:** NO PURCHASE CODES ASSIGNED

DELETED

**QAPOR 1:** SOURCE INSPECTION

L-3 PHOTONICS SOURCE INSPECTION IS REQUIRED PRIOR TO DELIVERY OF PRODUCT. NOTIFY L-3 PHOTONICS PROCUREMENT/QUALITY FIVE (5) WORK DAYS PRIOR TO SHIPMENT. SUPPLIER SHALL HAVE AVAILABLE AND WILL PRESENT, UPON REQUEST, DOCUMENTED EVIDENCE OF INSPECTION/TEST PERFORMANCE.

**QAPOR 2:** GOVERNMENT SOURCE INSPECTION

GOVERNMENT INSPECTION IS REQUIRED PRIOR TO SHIPMENT FROM YOUR PLANT. UPON RECEIPT OF THIS ORDER, PROMPTLY NOTIFY THE GOVERNMENT REPRESENTATIVE WHO NORMALLY SERVICES YOUR PLANT SO THAT APPROPRIATE PLANNING FOR GOVERNMENT INSPECTION CAN BE ACCOMPLISHED. IN THE EVENT THAT THE REPRESENTATIVE OF OFFICE CANNOT BE LOCATED, THE L-3 BUYER SHALL BE NOTIFIED IMMEDIATELY.

**QAPOR 3:** SHELF LIFE MATERIAL

THE SUPPLIER SHALL PROVIDE THE FOLLOWING INFORMATION WITH EACH SHIPMENT SUPPLIED TO L-3 PHOTONICS.

1. THE EXPIRATION DATE and/or DATE OF MANUFACTURE.
2. BATCH and/or LOT NUMBER.
3. L-3 PHOTONICS PURCHASE ORDER NUMBER.
4. MIL-SPEC OR PART NUMBER AS APPLICABLE.

MATERIAL FURNISHED IN KITS CONSISTING OF TWO OR MORE COMPONENTS MUST HAVE EQUAL SHELF LIFE DATES.
MATERIAL RECEIVED WITH LESS THAN 75% OF THE OF SHELF LIFE REMAINING SHALL RESULT IN THE REJECTION OF MATERIAL.

**QAPOR 4:** CERTIFICATION OF CONFORMANCE REQUIRED

THE SELLER IS REQUIRED TO SUBMIT A "CERTIFICATION OF CONFORMANCE" AS OBJECTIVE QUALITY EVIDENCE (OQE) TO ATTEST THAT ALL MATERIALS, COMPONENTS, ASSEMBLIES AND SERVICES DELIVERED TO L-3 PHOTONICS IN PERFORMANCE OF THIS ORDER COMPLY WITH THE REQUIREMENTS OF THE ORDER, INCLUDING BUT NOT LIMITED TO: ALL APPLICABLE DRAWINGS AND SPECIFICATIONS, MATERIALS AND PART REQUIREMENTS, AND PROCESSES CONTAINED OR REFERENCED THEREIN. FAILURE TO SUPPLY THE REQUIRED CERTIFICATION WILL BE CAUSE FOR REJECTION OF SHIPMENT.
L-3 PHOTONICS QUALITY CODES

Reference

AT A MINIMUM, THE CERTIFICATION SHALL:
- ACCOMPANY EACH SHIPMENT OF MATERIAL.
- BE FORMATTED ON SELLER'S COMPANY STANDARD FORM OR SELLER'S COMPANY LETTERHEAD
- REFERENCE THE L-3 PHOTONICS PURCHASE ORDER NUMBER.
- REFERENCE PART NUMBER ORDER ON THE PURCHASE ORDER
- REFERENCE THE SERIAL NUMBERS SHIPPED IF APPLICABLE
- BE LEGIBLY SIGNED BY AN AUTHORIZED SELLER REPRESENTATIVE RESPONSIBLE FOR VALIDITY OF THE CERTIFICATION

QAPOR 5: SQAR DOCUMENT
DELETED

QAPOR 6: INSPECTION AND INSPECTION DATA

SUPPLIER SHALL RECORD (AFTER FINAL FINISH) ALL MECHANICAL/DIMENSIONAL FEATURES ON ONE PART FROM EACH LOT/BATCH SHIPPED AGAINST THIS PURCHASE ORDER.

THE RESULTS OF THIS INSPECTION MUST BE FURNISHED WITH THE SHIPMENT. ACTUAL DIMENSIONS FOR EACH MECHANICAL/DIMENSIONAL FEATURE AND THE MINIMUM AND MAXIMUM TOLERANCE RANGE MUST BE PART OF THE INSPECTION DATA.

THIS INSPECTION DATA DOCUMENT SHALL BE SIGNED AND/OR STAMPED BY A MEMBER OF THE QUALITY ASSURANCE GROUP AT THE SUPPLIER'S FACILITY.

THE REMAINDER OF THE LOT SHALL BE INSPECTED 100% OR IN LIEU OF 100% INSPECTION, THE ZERO-BASED ACCEPTANCE SAMPLING PLAN SHOWN BELOW MAY BE USED, USING A 1% AQL. ONE INSTANCE OF A NONCONFORMANCE SHALL CAUSE THE SAMPLING INSPECTION TO STOP AND THE LOT/BATCH INSPECTED 100% FOR THE OUT OF TOLERANCE FEATURE. IF NO ADDITIONAL PRODUCT IS FOUND DISCREPANT, THE SAMPLING PLAN MAY BE CONTINUED.

THE ACCEPTANCE OF PRODUCT USING STATISTICAL SAMPLING DOES NOT RELIEVE THE SUPPLIER FROM THE RESPONSIBILITY OF DELIVERING ALL PRODUCT CONFORMING TO SPECIFICATION/DRAWING REQUIREMENTS.

Table 1: Acceptable Quality Level (AQL)

| LOT SIZE | .010% | .015% | .025% | .040% | .065% | .10% | .15% | .25% | .40% | .65% | 1.0% | 1.5% | 2.5% | 4.0% | 6.5% | 10.0% |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1-8      | A     | A     | A     | A     | A     | A    | A    | A    | A    | A    | 13   | 8    | 5    | 3    | 2    | 2    |
| 9-15     | A     | A     | A     | A     | A     | A    | A    | A    | A    | 13   | 8    | 5    | 3    | 2    | 2    | 2    |
| 16-25    | A     | A     | A     | A     | A     | A    | A    | A    | A    | 20   | 13   | 8    | 5    | 3    | 2    | 2    |
| 26-50    | A     | A     | A     | A     | A     | A    | A    | A    | A    | 32   | 20   | 13   | 8    | 5    | 3    | 2    |
| 51-90    | A     | A     | A     | A     | A     | 80   | 50   | 32   | 20   | 13   | 8    | 7    | 6    | 5    | 4    | 4    |
| 91-130   | A     | A     | A     | A     | A     | 125  | 80   | 50   | 32   | 20   | 13   | 12   | 11   | 7    | 6    | 5    |
| 151-280  | A     | A     | A     | A     | 200   | 125  | 80   | 50   | 32   | 20   | 20   | 19   | 13   | 10   | 7    | 6    |
| 281-500  | A     | A     | 315   | 200   | 125   | 80   | 50   | 48   | 47   | 29   | 21   | 16   | 11   | 9    | 7    | 7    |
| 501-1200 | A     | 800   | 500   | 315   | 200   | 125  | 80   | 75   | 73   | 47   | 34   | 27   | 19   | 15   | 11   | 8    |
| 1201-3200| 1250  | 800   | 500   | 315   | 200   | 125  | 120  | 116  | 73   | 53   | 42   | 35   | 23   | 18   | 13   | 9    |
| 3201-10,00| 1250 | 800   | 500   | 315   | 200   | 125  | 189  | 116  | 86   | 68   | 50   | 38   | 29   | 22   | 15   | 9    |
| 10,001-35,000 | 1250 | 800   | 500 | 315   | 300   | 294  | 189  | 135  | 108  | 77   | 60   | 46   | 35   | 29   | 19   | 9    |
| 35,001-150,000 | 1250 | 800   | 500   | 490   | 476   | 294  | 218  | 170  | 123  | 96   | 74   | 56   | 40   | 29   | 15   | 9    |
| 150,001-500,000 | 1250 | 800   | 750   | 715   | 476   | 345  | 270  | 200  | 156  | 119  | 90   | 64   | 40   | 29   | 15   | 9    |
| 500,000 & Over | 1250 | 1200 | 1172 | 715   | 556   | 435  | 303  | 244  | 189  | 143  | 102  | 64   | 40   | 29   | 15   | 9    |

“A” Indicates that the entire lot/batch must be inspected.

SOP-068

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QAPOR 7: PRODUCT INSPECTION

ALL PRODUCT FURNISHED AGAINST THIS PURCHASE ORDER SHALL BE INSPECTED 100% FOR ALL DRAWING/SPECIFICATION/TECHNICAL DATA PACKAGE REQUIREMENTS. SAMPLING INSPECTION IS NOT PERMITTED.

QAPOR 8: FUNCTIONAL TEST

EACH COMPLETED PART/ASSEMBLY DELIVERED ON THIS PURCHASE ORDER, MUST BE FUNCTIONALLY AND/OR ELECTRICALLY TESTED, AS APPLICABLE. EACH TEST DATA PACKAGE SHALL REFLECT THE ACTUAL RESULTS OF EACH PARAMETER TESTED. THE TEST DATA MUST BE SIGNED AND DATED BY THE TEST CONDUCTOR, AS CERTIFICATION THAT THE ITEM(S) SHIPPED HAVE BEEN FUNCTIONALLY TESTED AND MEET ALL OF THE REQUIREMENTS OF THE FUNCTIONAL TEST. A COPY OF THIS DATA PACKET MUST ACCOMPANY EACH ITEM BEING DELIVERED.

QAPOR 9: RAW MATERIAL CERTIFICATION

COPY OF ORIGINAL MILL AND/OR MANUFACTURING MATERIAL CERTIFICATIONS (CHEMICAL AND PHYSICAL TEST REPORTS) MUST ACCOMPANY SHIPMENT.

QAPOR 10: WELDER CERTIFICATION

WELDING SHALL ONLY BE PERFORMED BY WELDERS CERTIFIED TO THE REQUIREMENTS OF THE WELDING SPECIFICATION LISTED ON THE DRAWING.

QAPOR 11: SPECIAL PROCESS CERTIFICATION

WHEN SPECIAL PROCESSES (I.E. PLATING, WELDING, HEAT TREATING, ANODIZING, PAINT, CHEMICAL COATING, ETC.) ARE SPECIFIED ON THE DRAWING(S) AND/OR SPECIFICATION(S) AND/OR ADDITIONAL TECHNICAL REQUIREMENTS CITED ON THE PURCHASE ORDER, THE SUPPLIER SHALL INCLUDE IN EACH SHIPMENT A CERTIFICATION FOR EACH SPECIAL PROCESS PERFORMED. THE PROPERTIES LISTED SHALL INCLUDE THOSE SPECIFIED ON THE DRAWING(S) AND/OR SPECIFICATION(S) AND/OR ADDITIONAL TECHNICAL REQUIREMENTS CITED ON THE PURCHASE ORDER. THE SPECIAL PROCESS CERTIFICATION SHALL INCLUDE AS A MINIMUM

- THE BUYER’S PART NO. INCLUDING REVISION
- NAME AND ADDRESS OF SPECIAL PROCESSOR
- THE SPECIAL PROCESS SPECIFICATION INCLUDING REVISION, AND COMPLETE DESIGNATION (E.G., ASSOCIATED GRADE, CLASS, TYPE, ETC.)
- QUANTITY PROCESSED
- THE DATE(S) OF WHICH THE SPECIAL PROCESS WAS PERFORMED
- FOR HEAT-TREATED MATERIAL, THE ACTUAL HARDNESS READING(S).

THE CERTIFICATE SHALL BEAR THE SIGNATURE AND TITLE OF AN AUTHORIZED AGENT OF THE SUPPLIER THAT PERFORMED THE PROCESS. UNSIGNED CERTIFICATIONS ARE ACCEPTABLE IF IT CONTAINS A STATEMENT CONFIRMING THE VALIDITY OF THE DOCUMENT.

QAPOR 12: COUNTERFEIT PARTS PREVENTION (Subcontractors and Contract Manufacturers)

ONLY NEW AND AUTHENTIC MATERIALS ARE TO BE USED IN PRODUCTS DELIVERED TO BUYER. NO COUNTERFEIT OR SUSPECT COUNTERFEIT PARTS ARE TO BE CONTAINED WITHIN THE DELIVERED PRODUCT. PARTS SHALL BE PURCHASED DIRECTLY FROM THE OCMS/OEMS, OR THROUGH THE OCM/OEMS FRANCHISED DISTRIBUTOR. DOCUMENTATION MUST BE AVAILABLE THAT AUTHENTICATES TRACEABILITY TO THE APPLICABLE OCM/OEM. INDEPENDENT DISTRIBUTORS (BROKERS) SHALL NOT BE USED WITHOUT WRITTEN CONSENT FROM BUYER (L-3).
DEFINITIONS

COUNTERFEIT: A PART THAT IS AN ILLEGAL OR UNAUTHORIZED COPY OR SUBSTITUTE OF AN OEM ITEM; AN ITEM THAT DOES NOT CONTAIN THE PROPER EXTERNAL OR INTERNAL MATERIALS OR COMPONENTS REQUIRED BY THE OEM OR THAT IS NOT CONSTRUCTED IN ACCORDANCE WITH OEM SPECIFICATION; AN ITEM OR COMPONENT THEREOF THAT IS USED, REFURBISHED OR RECLAIMED BUT THE SELLER REPRESENTS AS BEING A NEW ITEM; AN ITEM THAT HAS NOT SUCCESSFULLY PASSED ALL OEM REQUIRED TESTING, VERIFICATION, SCREENING AND QUALITY CONTROL BUT THAT SELLER REPRESENTS AS HAVING MET OR PASSED SUCH REQUIREMENTS; OR AN ITEM WITH A LABEL OR OTHER MARKING INTENDED, OR REASONABLY LIKELY, TO MISLEAD A REASONABLE PERSON INTO BELIEVING A NON-OEM ITEM IS A GENUINE OEM ITEM WHEN IT IS NOT. PARTS THAT HAVE BEEN MODIFIED PURSUANT TO A SPECIFIC L-3 PURCHASE ORDER REQUIREMENT, SUCH AS REFINISHED, UP-SCREENED, OR UP-RATED PARTS THAT ARE PROPERLY IDENTIFIED AS SUCH ARE NOT CONSIDERED SUSPECT OR COUNTERFEIT.

SUSPECT COUNTERFEIT – A PART IN WHICH THERE IS AN INDICATION BY VISUAL INSPECTION, TESTING, OR OTHER INFORMATION THAT IT MAY HAVE BEEN MISREPRESENTED BY THE SUPPLIER OR MANUFACTURER AND MAY MEET THE DEFINITION OF A COUNTERFEIT PART.

OCM: ORIGINAL COMPONENT MANUFACTURER

OEM: ORIGINAL EQUIPMENT MANUFACTURER

FRANCHISE DISTRIBUTOR: A DISTRIBUTOR WITH WHOM THE OCM HAS A CONTRACTUAL AGREEMENT TO BUY, STOCK, RE-PACKAGE, SELL AND DISTRIBUTE ITS PRODUCT LINES. FRANCHISED DISTRIBUTORS NORMALLY OFFER THE PRODUCT FOR SALE WITH FULL MANUFACTURERS WARRANTY. FRANCHISING CONTRACTS MAY INCLUDE CLAUSES THAT PROVIDE FOR THE OCM'S MARKETING AND TECHNICAL SUPPORT, FAILURE ANALYSIS AND CORRECTIVE ACTION, AND EXCLUSIVITY OF INVENTORY.

INDEPENDENT DISTRIBUTOR (BROKER): A DISTRIBUTOR THAT PURCHASES PARTS WITH THE INTENTION TO RESELL THEM. INDEPENDENT DISTRIBUTORS MAY BE FRANCHISED FOR SELECTED, BUT NOT ALL, PRODUCT LINES, FOR PURPOSES OF COUNTERFEIT RISK MITIGATION, A DISTRIBUTOR IS CONSIDERED INDEPENDENT WHEN NOT FRANCHISED FOR THE ITEM TO BE PROCURED.

QAPOR 13: COUNTERFEIT PARTS PREVENTION (Independent Distributor - Active Components)

INDEPENDENT DISTRIBUTOR'S PROCEDURES SHALL MEET THE REQUIREMENTS OF IDEA-STD-1010 & SAE AS5553 AND HAVE A QUALITY MANAGEMENT SYSTEM CERTIFIED TO AS9120:2002. THE REQUIREMENTS OF AS91081 SHALL BE IN EFFECT UPON INDUSTRY RELEASE OF THIS STANDARD. THE ORIGINAL MANUFACTURERS CERTIFICATE OF CONFORMANCE (C OF C) AND ALL TRACEABILITY DOCUMENTATION SHALL BE INCLUDED WITH EACH SHIPMENT OF PARTS. IT SHALL INCLUDE THE MANUFACTURER’S NAME, PART NUMBER, DATE CODES, LOT CODES, SERIALIZATIONS, AND / OR ANY OTHER BATCH IDENTIFICATIONS. SELLER IS TO CONTACT BUYER IN THE EVENT THAT THE ORIGINAL OEM/OCM C OF C AND TRACEABILITY DOCUMENTATION IS NOT AVAILABLE. ALL INSPECTING AND TESTING SHALL BE PERFORMED TO THE ORIGINAL MANUFACTURER’S SPECIFICATIONS AND PARAMETERS. RECORDED EVIDENCE OF ALL TESTING PERFORMED SHALL BE INCLUDED WITH EACH SHIPMENT.

THE FOLLOWING INSPECTIONS AND TESTS ARE REQUIRED:

- VISUAL MICROSCOPY INSPECTION OF ALL PARTS IN THE ORDER UNDER 10X MINIMUM MAGNIFICATION (100% OF THE LOT)
- X-RAY INSPECTION (100% OF THE LOT)
- XRF/ROHS (2 PARTS PER LOT DATE CODE)
- RESISTANCE TO SOLVENTS TESTING (2 PARTS PER LOT DATE CODE)
- HEATED SOLVENT TESTING (DYNASOLVE IMMERSION) (2 PARTS PER LOT DATE CODE)
- SCRAPE TESTING (2 PARTS PER LOT DATE CODE)
- SOLDERABILITY TESTING PER IPC/EIA J-STD-002 (2 PARTS PER LOT DATE CODE)
L-3 PHOTONICS QUALITY CODES
Reference

- DE-LID, DIE PENETRATE, DIE VERIFICATION (2 PARTS PER LOT DATE CODE)
- SCANNING ELECTRON MICROSCOPY (1 PART PER LOT DATE CODE)

IF SUSPECT/COUNTERFEIT PARTS ARE FURNISHED UNDER THIS SUBCONTRACT AND ARE FOUND IN ANY OF THE GOODS DELIVERED HEREBEUNDER, SUCH ITEMS WILL BE IMPOUNDED BY BUYER. THE SELLER SHALL PROMPTLY REPLACE SUCH SUSPECT/COUNTERFEIT PARTS WITH PARTS ACCEPTABLE TO THE BUYER AND THE SELLER SHALL BE LIABLE FOR ALL COSTS RELATING TO THE REMOVAL AND REPLACEMENT OF SAID PARTS AS SPECIFIED IN THE SUBCONTRACT REQUIREMENTS OR DISTRIBUTOR’S INSURANCE POLICIES. BUYER RESERVES ALL CONTRACTUAL RIGHTS AND REMEDIES TO ADDRESS GRIEVANCES AND DETRIMENTAL IMPACTS CAUSED BY SUSPECT/COUNTERFEIT PARTS. ALL OCCURRENCES OF SUSPECT COUNTERFEIT AND/OR COUNTERFEIT PARTS WILL BE IMMEDIATELY REPORTED TO ERAI.

QAPOR 14: COUNTERFEIT PARTS PREVENTION (Independent Distributor Passive Components and Connectors)

INDEPENDENT DISTRIBUTOR’S PROCEDURES SHALL MEET THE REQUIREMENTS OF IDEA-STD-1010 & SAE AS5553 AND HAVE A QUALITY MANAGEMENT SYSTEM CERTIFIED TO AS9120:2002. THE REQUIREMENTS OF AS6081 SHALL BE IN EFFECT UPON INDUSTRY RELEASE OF THIS STANDARD. THE ORIGINAL MANUFACTURERS CERTIFICATE OF CONFORMANCE (C OF C) AND ALL TRACEABILITY DOCUMENTATION SHALL BE INCLUDED WITH EACH SHIPMENT OF PARTS. IT SHALL INCLUDE THE MANUFACTURER’S NAME, PART NUMBER, DATE CODES, LOT CODES, SERIALIZATIONS, AND / OR ANY OTHER BATCH IDENTIFICATIONS. SELLER IS TO CONTACT BUYER IN THE EVENT THAT THE ORIGINAL OEM/OCM C OF C AND TRACEABILITY DOCUMENTATION IS NOT AVAILABLE. ALL INSPECTING AND TESTING SHALL BE PERFORMED TO THE ORIGINAL MANUFACTURER’S SPECIFICATIONS AND PARAMETERS RECORDED.

EVIDENCE OF ALL TESTING PERFORMED SHALL BE INCLUDED WITH EACH SHIPMENT. THE FOLLOWING INSPECTIONS AND TESTS ARE REQUIRED:

- APPLICABLE ELECTRICAL TESTING (RESISTANCE, CAPACITANCE, CONTINUITY) FOR THE DEVICES PROCURED (1% AQL LEVEL II)
- VISUAL MICROSCOPY INSPECTION OF ALL PARTS IN THE ORDER UNDER 10X MINIMUM MAGNIFICATION (100% OF THE LOT)
- X-RAY INSPECTION FOR NON-GLASS DIODES AND TANTALUM CAPACITORS (100% OF THE LOT)
- XRF/ROHS (2 PARTS PER LOT DATE CODE)
- RESISTANCE TO SOLVENTS TESTING (2 PARTS PER LOT DATE CODE)
- HEATED SOLVENT TESTING (DYNASOLVE IMMERSION) (2 PARTS PER LOT DATE CODE)
- SCRAPE TESTING (2 PARTS PER LOT DATE CODE)
- SOLDERABILITY TESTING PER IPC/EIA J-STD-002 (2 PARTS PER LOT DATE CODE)
- SCANNING ELECTRON MICROSCOPY FOR METAL PACKAGED PARTS ONLY (1 PART PER LOT DATE CODE)

IF SUSPECT/COUNTERFEIT PARTS ARE FURNISHED UNDER THIS SUBCONTRACT AND ARE FOUND IN ANY OF THE GOODS DELIVERED HEREBEUNDER, SUCH ITEMS WILL BE IMPOUNDED BY BUYER. THE SELLER SHALL PROMPTLY REPLACE SUCH SUSPECT/COUNTERFEIT PARTS WITH PARTS ACCEPTABLE TO THE BUYER AND THE SELLER SHALL BE LIABLE FOR ALL COSTS RELATING TO THE REMOVAL AND REPLACEMENT OF SAID PARTS AS SPECIFIED IN THE SUBCONTRACT REQUIREMENTS OR DISTRIBUTOR’S INSURANCE POLICIES. BUYER RESERVES ALL CONTRACTUAL RIGHTS AND REMEDIES TO ADDRESS GRIEVANCES AND DETRIMENTAL IMPACTS CAUSED BY SUSPECT/COUNTERFEIT PARTS. ALL OCCURRENCES OF SUSPECT COUNTERFEIT AND/OR COUNTERFEIT PARTS WILL BE IMMEDIATELY REPORTED TO ERAI.
QAPOR 15: FOD PREVENTION

SUPPLIER SHALL ESTABLISH AND MAINTAIN A PROGRAM TO CONTROL AND ELIMINATE FOD AND/OR CONTAMINATION DURING THE SUPPLIER'S MANUFACTURING, ASSEMBLY, TEST AND INSPECTION OPERATIONS. WHEN APPLICABLE, THE SUPPLIER'S FOD CONTROL PROGRAM SHALL INCLUDE CONTROLS TO PRECLUDE FOD OR CONTAMINATION AT THE SUPPLIER'S SUB-TIER SOURCES.

THE SUPPLIER'S FOD PREVENTION PROGRAM SHALL INCLUDE THE REVIEW OF DESIGN AND MANUFACTURING PROCESSES TO IDENTIFY AND ELIMINATE FOREIGN OBJECT ENTRAPMENT AREAS AND PATHS THROUGH WHICH FOREIGN OBJECTS CAN MIGRATE. SUPPLIER SHALL ENSURE WORK IS ACCOMPLISHED IN A MANNER PREVENTING FOREIGN OBJECTS OR MATERIAL IN DELIVERABLE ITEMS.

THE SUPPLIER SHALL MAINTAIN CLEAN AND ORDERLY INSPECTION, ASSEMBLY AND TEST AREA WORK TABLES TO PREVENT CONTAMINATION AND FOREIGN OBJECTS FROM ENTERING THE PRODUCT.

OPERATORS SHOULD PRACTICE A “CLEAN AS YOU GO” APPROACH TO EVERY PRODUCT BEING ASSEMBLED. ONLY THE PARTS, TOOLS AND/OR EQUIPMENT NECESSARY FOR PERFORMING THE WORK SHALL BE ALLOWED ON THE WORK TABLES. ALL TOOLS USED DURING THE PRODUCT ASSEMBLY, SHALL BE ACCOUNTED FOR UPON COMPLETION OF EACH ASSEMBLED UNIT OR GROUPS OF UNITS.

ALL HARDWARE ITEMS SHALL BE ACCOUNTED FOR UPON COMPLETION OF EACH ASSEMBLED UNIT OR GROUPS OF UNITS. ASSEMBLY/INSPECTION PERSONNEL SHALL ENSURE ALL ASSEMBLIES ARE VISUALLY INSPECTED FOR FOD PRIOR TO CLOSING.

SUPPLIER SHALL DOCUMENT AND INVESTIGATE EACH FOD INCIDENT AND ENSURE ELIMINATION OF THE ROOT CAUSE, AND IMPLEMENT CORRECTIVE ACTION OF EACH SUCH INCIDENT.

THE SUPPLIER'S FOD PROGRAM IS SUBJECT TO ON-SITE REVIEW AND APPROVAL BY L-3 PHOTONICS. DELIVERY OF PRODUCT SHALL BE DEEMED AS CERTIFICATION THAT ITEMS DELIVERED ARE FOD FREE.

QAPOR 16: ESD PROGRAM


QAPOR 17: FIRST ARTICLE INSPECTION

IF A SUPPLIER IS MANUFACTURING A PART/ASSEMBLY FOR THE FIRST TIME, A FIRST ARTICLE INSPECTION (FAI) IS REQUIRED PER THE REQUIREMENTS OF AS9102, “AEROSPACE FIRST ARTICLE INSPECTION REQUIREMENT” IN ADDITION TO THE TOP ASSEMBLY, ALL SUBASSEMBLIES THAT ARE PART OF THE TOP ASSEMBLY SHALL BE INCLUDED IN THE FAI REPORT.

THE FAI MUST BE COMPLETED AND SUBMITTED PRIOR TO PRODUCT ACCEPTANCE AND SHIPMENT TO L-3 PHOTONICS.
SHOULD ANY OF THE FOLLOWING CONDITIONS APPLY SINCE THE LAST BUILD OF AN L-3 PHOTONICS PART NUMBERED PRODUCT, THE SUPPLIER SHALL PERFORM A FULL OR PARTIAL FAI IN ACCORDANCE WITH THE AS9102 REQUIREMENTS:

1. A CHANGE IN THE DESIGN AFFECTING FIT, FORM OR FUNCTION OF THE PART.

2. A CHANGE IN MANUFACTURING SOURCE(S), PROCESS (ES), INSPECTION METHOD(S), LOCATION OF MANUFACTURE, TOOLING OR MATERIALS THAT CAN POTENTIALLY AFFECT FIT, FORM OR FUNCTION.

3. A CHANGE IN NUMERICAL CONTROL PROGRAM OR TRANSLATION TO ANOTHER MEDIA THAT CAN POTENTIALLY AFFECT FIT, FORM OR FUNCTION.

4. A NATURAL OR MAN-MADE EVENT, WHICH MAY ADVERSELY AFFECT THE MANUFACTURING PROCESS.

5. A LAPSE IN PRODUCTION FOR TWO YEARS.

**QAPOR 18: REPAIR REPORTS**

IF THIS ITEM IS BEING RETURNED FOR REPAIR, A DETAILED DESCRIPTION OF THE REPAIR ACTION TAKEN INCLUDING PART NUMBERS, SERIAL NUMBERS (IF APPLICABLE) AND NOMENCLATURE OF REPLACED COMPONENTS/ASSEMBLIES SHALL BE RETURNED WITH THE REPAIRED PRODUCT.

**QAPOR 19: PART OBSOLESCENCE MANAGEMENT**

SUPPLIER SHALL BE RESPONSIBLE FOR MANAGING PART OBSOLESCENCE OVER THE ENTIRE PERIOD OF THE PURCHASE ORDER, AND NOTWITHSTANDING ANY OBSOLESCENCE ISSUES OR PROBLEMS, THE SUPPLIER REMAINS RESPONSIBLE FOR MEETING ALL PERFORMANCE AND OTHER REQUIREMENTS OF THE PURCHASE ORDER. THIS OBSOLESCENCE MANAGEMENT RESPONSIBILITY INCLUDES AN ONGOING REVIEW AND IDENTIFICATION OF ACTUAL AND POTENTIAL OBSOLESCENCE ISSUES, INCLUDING BUT NOT LIMITED TO OBSOLESCENCE OF COMPONENTS, ASSEMBLIES, SUB-ASSEMBLIES, PIECE PARTS, AND MATERIAL.

THE SUPPLIER IS RESPONSIBLE FOR OBTAINING A REPLACEMENT IF AND WHEN ANY PARTS AND/OR MATERIAL BECOME OBSOLETE. THIS INCLUDES, BUT IS NOT LIMITED TO THE INVESTIGATING OF PART AVAILABILITY, INTERCHANGEABILITY AND SUBSTITUTABILITY, LOCATING PART REPLACEMENT, DRAWING CHANGES, ETC. THE SELLER SHALL NOTIFY L-3 PHOTONICS, PRIOR TO IMPLEMENTATION, OF ANY CONFIGURATION CHANGES THAT AFFECT THE FIT, FORM, OR FUNCTION OF ANY PURCHASE ORDER END ITEM DUE TO PARTS AND/OR MATERIAL OBSOLESCENCE. IN ADDITION, THE L-3 BUYER SHALL BE NOTIFIED IMMEDIATELY WHEN ANY PURCHASE ORDER END ITEM WILL BE NO LONGER AVAILABLE (LAST TIME BUY/END OF LIFE) DUE TO PARTS AND/OR MATERIAL OBSOLESCENCE.

### 2. DOCUMENT CHANGE RECORD

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<tr>
<th>REV</th>
<th>DATE</th>
<th>AUTHOR</th>
<th>CHANGE DETAILS</th>
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<td>A</td>
<td>09/18/2015</td>
<td>G. Ross</td>
<td>Initial Development and Release</td>
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