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	LTR	DESCRIPTION	DATE	APPROVED
	A	PRODUCTION RELEASE	02/10/15	Linda Kilgus
	B	EC-12274	12/04/15	Linda Kilgus
	C	E30001819	08/03/2021	Linda Kilgus
	D	E30004443	01/21/2026	Valen Johnson

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Project/Production Order #:			 L3HARRIS		Telemetry & RF Products 1515 Grundy's Lane Bristol, PA 19007	
DWN	D. Goldberg	02/05/15				
CKD	N/A	---	INDEPENDENT DISTRIBUTOR STATEMENT OF WORK			
EE	N/A	---				
ME	N/A	---				
PM	K. Foss	02/04/15				
PR	N/A	---				
PS	N/A	---				
MC	D. Goldberg	02/05/15				
MFG	N/A	---				
CE	N/A	---	SIZE A	CAGE CODE 13923	GD60050695	
QA	M. Rosnick	02/05/15				
TE	N/A	---				
BD	N/A	---				
SW	N/A	---				SHT 1 OF 9

1.0 PURPOSE

To define special requirements for Independent Distributors supplying materials to L3Harris TR&F when these requirements are not covered by the purchase order or supporting documentation. This policy does not apply to items procured for internal consumption such as facilities support equipment, office equipment, and other internal consumables that do not impact design, production, testing or servicing of L3Harris products.

2.0 DEFINITIONS

Independent Distributor: A distributor that purchases parts with the intention to sell and redistribute them back into the market. Purchased parts may be obtained from Original Equipment Manufacturers (OEMs) or Contract Manufacturers (typically from excess inventories), or from other Distributors (Franchised, Authorized, or Independent). Resale of the purchased parts (redistribution) may be to OEMs, Contract Manufacturers or other Distributors. Independent Distributors do not normally have contractual agreements or obligations with the OCMs.

Active Component: An electronic component that contains semiconductor junctions. Examples of active components include monolithic microcircuits, hybrid microcircuits and semiconductor devices such as diodes, silicon controlled rectifiers and transistors.

Passive Component: An electrical and/or electromechanical component that does not contain semiconductor junctions. Examples of passive components include resistors, capacitors, inductors, transformers and connectors.

Commercial off-the-shelf (COTS) Assemblies: Any item of supply (including construction material) that is:

- a) A commercial item;
- b) Sold in substantial quantities in the commercial marketplace; and
- c) Offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace.

3.0 HIERARCHY: ALL L3HARRIS TR&F PURCHASE ORDERS SHALL BE IN THE FOLLOWING ORDER OF PRECEDENCE

- A. Purchase Order, L3Harris TR&F drawings and specifications, Supplier Statement of Work.

4.0 GENERAL REQUIREMENTS

4.1 Quality Assurance (QA) Codes: QA codes shall be identified on the purchase order line for each part number. Definition of the individual QA codes shall be found at: <https://www.l3harris.com/all-capabilities/airborne-telemetry>

4.2 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.

4.3 Inspections and tests required are as noted on the Purchase Order and this SOW. 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

- 4.4** All occurrences of Suspect Counterfeit and/or Counterfeit parts will be immediately reported to the Buyer.
- 4.5** When L-3Harris TR&F Approved Independent Distributors are contracted for suspect counterfeit parts screening/testing only, the distributor is required to report counterfeit experiences they identify to L-3Harris TR&F.
- 4.6** L-3Harris TR&F Approved Independent Distributors are required to impound suspect and counterfeit parts identified during the screening process and quarantine/destroy them per their company procedures.
- 5.0** **DEVIATIONS FROM PURCHASE ORDER/SOW:**
- 5.1** Deviations from the L3Harris TR&F purchase order shall be approved in writing by L3Harris TR&F in advance of shipment. A copy of the approved deviation shall be kept on file at Supplier and attached to the C of C with material shipments.
- 5.2** Active Components shall be authenticated and processed in accordance with Exhibit A
- 5.3** Passive Components shall be authenticated and processed in accordance with Exhibit B
- 5.4** COTS Assemblies (Including Electro-mechanical items, Hard Drives, Network Equipment, and Peripheral Cards) shall be authenticated and processed in accordance with Exhibit C
- 5.5** Test Lab, Mechanical Parts and Materials shall be authenticated and processed in accordance with Exhibit D

EXHIBIT A

Independent Distributor Purchase Order Clause – Active Components

Independent Distributor's procedures shall meet the requirements of IDEA STD 1010 and AS6081. Quality Management System shall be certified to AS9120 and/or AS9100.

Inspections and tests shall be conducted in accordance with IDEA STD 1010 and AS6081. IDEA STD 1010 and the inspection and tests defined below shall take precedence over AS6081 for conflicts in inspection methodology and defect criteria. Manufacturer specifications and parameters shall be used for part requirements as applicable. Recorded evidence of all testing performed shall be included with each shipment. When available, OEM/OCM and/or AD Certificates of Conformance (C of Cs) shall also accompany each shipment.

The following inspections and tests are required for active components as applicable based on device package type.

- 100% Visual Microscopy Inspection of all parts in the order is required to a magnification level capable of identifying nonconformities related to part size. This includes visual inspection requirements for packaging. Sampling for mechanical dimensions shall be as defined by Seller's internal procedures.*
- X-Ray inspection (100% of the lot)*
- XRF/RoHS (3 parts per lot date code)*
- Solderability testing per IPC/EIA J-STD-002 (3 parts per lot date code)*
- Scanning Electron Microscopy (1 part per lot date code)*
- Solvent Testing for Remarking (3 parts per lot date code)*
- Solvent Testing for Resurfacing w/acetone, (same 3 parts per lot date code)*
- Scrape testing - only applicable to parts that cannot be heated solvent tested (same 3 parts per lot date code)*
- Solvent Testing for Resurfacing (If pass acetone test) - Heated Solvent testing w/ Dynasolve 750 (same 3 parts per lot date code)*
- De-lid and Die Verification (3 parts per lot date code)*
- Flash and programmable memory devices shall be verified (100%) for clean memory, not pre-programmed*

If suspect/counterfeit parts are furnished under this subcontract and are found in any of the goods delivered hereunder, 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.

Seller shall report all occurrences of Counterfeit parts to GIDEP and ERAI.

EXHIBIT B

Independent Distributor Purchase Order Clause Passive Components and Connectors

Independent Distributor procedures shall meet the requirements of IDEA-STD-1010 and AS6081. Quality Management System shall be certified to AS9120 and/or AS9100.

Inspections and tests shall be conducted in accordance with IDEA-STD-1010 and AS6081. IDEA-STD- 1010 and the inspection and tests defined below shall take precedence over AS6081 for conflicts in inspection methodology and defect criteria. Manufacturer specifications and parameters shall be used for part requirements as applicable. Recorded evidence of all testing performed shall be included with each shipment. When available, OEM/OCM and/or AD Certificates of Conformance (C of Cs) shall also accompany each shipment.

The following inspections and tests are required for passive components and connectors as applicable based on device package type:

All electrical test reports shall contain a read/record data table showing the measured values of each device tested. Electrical test shall be performed after parts have passed the inspection and tests listed above.

- 100% Visual Microscopy Inspection of all parts in the order is required to a magnification level capable of identifying nonconformities related to part size. This includes visual inspection requirements for packaging. Sampling for mechanical dimensions shall be as defined by Seller's internal procedures.*
- X-Ray inspection for non-glass diodes and tantalum capacitors (100% of the lot) XRF/RoHS (3 parts per lot date code)*
- Solderability testing per IPC/EIA J-STD-002 (3 parts per lot date code)*
- Scanning Electron Microscopy (1 part per lot date code)*
- Solvent Testing for Remarking (3 parts per lot date code)*
- Solvent Testing for Resurfacing w/acetone, (same 3 parts per lot date code)*
- Scrape testing - only applicable to parts that cannot be heated solvent tested (same 3 parts per lot date code)*
- Solvent Testing for Resurfacing (If pass acetone test) - Heated Solvent testing w/ Dynasolve 750, (same 3 parts per lot date code)*

All electrical test reports shall contain a read/record data table showing the measured values of each device tested. Electrical test shall be performed after parts have passed the inspection and tests listed above.

Sample value measurements required per ANSI/ASQ Z1.4 at ambient temperature, 1% AQL level II. Component value tests are defined in the following chart:

COMPONENT	TEST
Resistors	DC resistance
Capacitors	Capacitance
Inductors	Inductance
Transformers (open framed/wiring)	Winding-to-winding isolation, winding continuity, winding inductance, turns or voltage ratio
Connectors	Continuity on a 1% AQL sample of pins/connections
Relays	Contact and coil resistance

If suspect/counterfeit parts are furnished under this subcontract and are found in any of the goods delivered hereunder, 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.

Seller shall report all occurrences of Counterfeit parts to GIDEP and ERAI.

EXHIBIT C

Independent Distributor Purchase Order Clause COTS Assemblies (Including Electro-mechanical items, Hard Drives, Network Equipment and Peripheral Cards)

Independent Distributor procedures shall meet the requirements of IDEA-STD-1010 and AS6081. Quality Management System shall be certified to AS9120 and/or AS9100.

Manufacturer specifications and parameters shall be used for part requirements as applicable. Recorded evidence of all testing performed shall be included with each shipment. When available, OEM/OCM and/or AD Certificates of Conformance (C of Cs) shall also accompany each shipment.

The following inspections and tests are required for general COTS assemblies, hard drives, network equipment and peripheral cards:

General COTS Assemblies

- *Packaging inspection (part number, evidence of tampering, etc.)*
- *Mechanical dimensions (3 parts minimum per lot)*
- *Visual Inspection (100%) for indications of prior usage/refurbishment/counterfeiting including damage to:*
- *Components visible on circuit cards when applicable*
- *Interface connector(s)/contact(s)*
- *Crimped, cut, spliced, pinched, and/or broken wire(s) where applicable*
- *Manufacturer label bar code information verification*

Hard Drives

- *Packaging inspection (part number, evidence of tampering, etc.)*
- *Mechanical dimensions (3 parts minimum per lot)*
- *Visual Inspection (100%) for indications of prior usage/refurbishment/counterfeiting including damage to:*
 - *Components visible on circuit cards when applicable*
 - *Interface connector(s)/contact(s)*
 - *Casing*
- *Manufacturer label bar code information verification*
- *100% Power on test*
- *100% Read/write benchmark*
- *100% Self-Monitoring, Analysis, and Reporting Technology (S.M.A.R.T.) data pull (when applicable)*
 - *Verification of serial number*
 - *Total power on hours*
- *Serial numbers recorded*

Network Equipment

- *Packaging inspection (part number, evidence of tampering, etc.)*
- *Mechanical dimensions (3 parts minimum per lot)*
- *Visual Inspection (100%) for indications of prior usage/refurbishment/counterfeiting including damage to:*
 - *Components visible on circuit cards when applicable*
 - *Interface connector(s)/contact(s)*
 - *Casing*
- *Manufacturer label bar code information verification*
- *100% Power on test*
- *100% Test RJ-45 ports (when applicable)*
- *Serial numbers recorded*

Peripheral Cards

- *Packaging inspection (part number, evidence of tampering, etc.)*
- *Mechanical dimensions (3 parts minimum per lot)*
- *Visual Inspection (100%) for indications of prior usage/refurbishment/counterfeiting including damage to:*
 - *Components visible on circuit cards when applicable*
 - *Interface connector(s)/contact(s)*
- *Manufacturer label bar code information verification*

If suspect/counterfeit parts are furnished under this subcontract and are found in any of the goods delivered hereunder, 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.

Seller shall report all occurrences of Counterfeit parts to GIDEP and ERAI.

EXHIBIT D

Test Lab Purchase Order Clause – Mechanical Parts and Materials

Manufacturer specifications and parameters shall be used as applicable for part and material Requirements. Recorded evidence of all testing performed shall be included with each shipment.

The following inspections and tests are required for mechanical parts and materials by an accredited third party testing facility:

- *Packaging inspection (part number, evidence of tampering, etc.)*
- *Part/Packaging marking inspection for evidence of remarking or alterations (part number, mfg. name, trademark or logo, lot or date code, grade, etc.) - sample of 3 pieces per lot for part markings.*
- *Mechanical parts external visual inspection (100%) for damage, wear, contamination, or use.*
- *Mechanical parts dimensional inspection – selected critical dimensions shall be verified per manufacturer specifications on a sample of 3 pieces per lot.*
- *Plating Verification (e.g. XRF) - sample of 3 pieces per lot.*
- *Base material verification (certification of composition/chemical analysis, heat treatment, hardness testing, tensile strength, torque testing, magnetic particle, etc. as applicable per material specification) - sample of 1 piece per lot.*
- *Mechanical Item Test Verification (if required by the item specification) - sample of 1 piece per lot.*

Seller shall report all occurrences of Counterfeit parts to GIDEP and ERAI.