

QP: 2061-04 Rev A Supplier Quality Requirements and Clauses

Part 1: General Quality Requirements

Quality	The supplier shall maintain a quality system meeting the requirements of ISO 9001 or AS9100.					
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-	Third-party registration by an accredited registrar is preferred. Suppliers declaring compliance					
•	with no formal accredited registration may require review. The manufacture shall be responsible					
	for maintaining certified personnel, facilities, processes, and procedures in accordance with their					
	Quality management system. For suppliers not meeting these specifications, EMLINQ will review					
	and determine if system implemented is sufficient based upon the nature and levels of control					
	required by the parts, materials, or services.					
-	The supplier shall not implement any changes to EMLINQ drawings and/or specifications and/or					
	materials without written approval from EMLINQ in the form of a EMLINQ-approved Request for					
-	Deviation, available from EMLINQ Purchasing or Quality Assurance.					
	Items not in conformance with the requirements of the Purchase Order, EMLINQ drawings,					
-	specifications, and industry standards referenced therein, or that cannot be corrected through					
	continuation of the original manufacturing process or by rework, shall not be submitted without					
	prior written approval from EMLINQ in the form of an approved Request for Deviation, available					
	from EMLINQ Purchasing or Quality Assurance. Submittals shall include supplier-recommended					
	disposition(s) with sufficient technical, quality, and reliability justification.					
Resubmission of	Nonconforming items returned from EMLINQ which are subsequently resubmitted by the supplier					
Material	shall include indication of resubmission on the accompanying paperwork and shipping documents					
	Reference shall be made to the EMLINQ rejection documentation and evidence presented to					
	demonstrate that the causes for rejection have been corrected.					
Notification of	In the event the supplier / special processor determines that material previously delivered to					
Previous Delivery of						
Defective Material	within thirty (30) calendar days.					
Corrective Action	When requested by EMLINQ, the supplier shall investigate nonconformities to determine the roo					
	cause(s) of failures, and take effective action(s) as appropriate to correct the items and prevent					
	future failures. Unless otherwise requested by EMLINQ, such corrective action(s) may be					
	documented in the supplier's format.					
Calibration	The supplier shall only utilize inspection and test equipment for acceptance that has been					
	calibrated to the requirements of ANSI/NCSL Z540.1-1994 or other recognized standards.					
Preservation &	Unless otherwise specified, the supplier shall use best commercial practices for preservation and					
	packaging of items supplied to EMLINQ.					
	The supplier shall insure that requirements be flowed down to sub-tier suppliers, including key					
Requirements	characteristics, materials selection, first article inspection, process control where required.					
Traceability	The supplier shall maintain internal traceability to the raw material level, and shall be able to					
	provide such traceability within a reasonable time frame if requested by EMLINQ.					
Record Retention	Suppliers and special processors, as well their subcontractors, shall maintain records to					
	substantiate product compliance to the EMLINQ purchase order requirements and must be					
	capable of furnishing copies of these records upon request of EMLINQ, EMLINQ customers, and					
	government / regulatory representatives as applicable. Such records shall be maintained for a					
	minimum of 10 years after date of delivery to EMLINQ.					
-	Representatives of EMLINQ, its customers, Government, and/or regulatory agencies (if applicable) reserve the right to visit the supplier and its suppliers with the intent of performing surveillance					



	activities including inspections, surveys, audits, resolution of product quality issues, etc.						
Foreign Object	All materials, parts, and assemblies must be protected from the intrusion of foreign object debris						
Detection	that could potentially cause damage. As appropriate, the supplier shall develop and implement a						
	Foreign Object Damage/Foreign Object Debris Prevention Program guided by National Aerospace						
	Standard 412						
Electro-static	If applicable, the supplier shall maintain an ESD Program meeting the requirements of ANSI/ESD						
Discharge Sensitive	S20.20 for the control, handling, packaging, and identification of ESDS parts and materials						
(ESDS) Materials							
Certificate of	A legible "Certificate of Conformance" (C of C) statement shall be provided with each shipment						
Conformance	submitted to EMLINQ. The C of C shall be in the supplier's format and may either be a separate						
	document or may be included within the packing list. The C of C statement shall state that the						
	items were produced in conformance with requirements as specified in the EMLINQ purchase						
	order. As a minimum, the C of C shall note 1) the manufacturer or distributor's name and address;						
	2) the EMLINQ purchase order number; 3) the part number(s) and revision(s) when applicable; 4)						
	traceability information including serial numbers, lot codes, or date codes as appropriate; 5) shelf-						
	life expiration dates if applicable; and 6) signature of the supplier's authorized representative.						
Inspection and Test	The supplier shall provide inspection and test data with the subject item(s). Such test data shall						
Data	include individual or summary parameter measurements as appropriate.						
Counterfeit Parts &	Supplier shall have a counterfeit parts avoidance, detection, mitigation, and disposition program						
Materials	meeting the requirements of Aerospace Standard AS5553. Seller shall only deliver authentic						
	components, devices, pieces, material, modules, assemblies, subassemblies, goods, etc. that are						
	manufactured by or obtained from original equipment manufacturers (OEMs), original component						
	manufacturers (OCMs), or authorized distributors. Seller shall make available to EMLINQ						
	documentation that authenticates and provides traceability of the Parts to the applicable OEM or						
Refurbished and	Supplier shall not provide refurbished or re-used EEE parts, components, hardware, or materials.						
Reused Items	The sumpling shall get if the MUNO when we are facturing a granting a hair and family discussed in surgery of						
Change of Facility or	The supplier shall notify EMLINQ when manufacturing operations being performed in support of						
Ownership	this purchase order are moved to another facility with a separate street and/or city address.						
MCDC Chasta	Supplier shall also notify EMLINQ if ownership of the supplier has changed.						
MSDS Sheets	Material Safety Data Sheets are required for the product identified on this line of the Purchase						
	Order. Please include these sheets in an envelope that is identified on the outside as the MSDS sheets with the packing list						
	sheets with the packing list.						
EMLINQ-Furnished	If applicable, supplier shall certify that material used in fabrication is the material furnished by						
Material	EMLINQ. Certification shall reference EMLINQ's Purchase Order of the material being supplied.						
UL Marking	If applicable, mainly on the Printed Wiring Boards supplier shall put their UL mark/logo, voltage						
	ratings, company name or trade name or file number and type designation to certify that material						
L	and process used in fabrication approved by UL (Underwriters Laboratories).						



Part 2: Specific Quality Clauses

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SQC 1:	Supplier shall perform a First Article Inspection (FAI) on one piece chosen at random from the first					
Supplier First	lot presented for EMLINQ acceptance. The FAI shall be performed and documented per the					
Article	requirements of SAE AS9102, or the supplier's equivalent format. A copy of the FAI report shall be					
Inspection	submitted to EMLINQ with the shipment. If discrepancies are noted during the FAI, the supplier					
	shall promptly notify the EMLINQ purchasing representative for guidance. NOTE: First article					
	inspection is not required for supplier part numbers, OEM parts and materials, commercial off-					
	the-shelf items (nuts, bolts, wire, piece parts), QPL parts, etc. Generally FAI's apply to items					
	fabricated to EMLINQ drawings. If uncertain, contact EMLINQ purchasing representative for					
	guidance.					
	Full or delta FAI's shall be required as appropriate for:					
	1) Revision change since the previous FAI (delta).					
	2) Changes to supplier's process (delta or full depending on change(s)).					
	3) Break in production exceeding 18 months (full).					
	4) Change of facility (full)					
SQC 2:	EMLinQ may perform First Article inspection per SAE AS9102 under the following conditions: 1)					
EMLinQ First Article	new supplier; 2) new part number; 3) revision change; 4) same manufacturer but lapse between					
Inspection	production runs; 5) verification of implementation of corrective & preventive actions; 6) new					
	facility; or 7) change of ownership.					
SQC 3:	The Supplier shall use only those sources of goods or services that have been approved by					
EMLINQ-Directed	EMLINQ. Such direction is generally provided on the EMLINQ purchase order.					
Source						
SQC 4:	Component leads, terminations, lugs, terminals, and wires shall be capable of meeting the					
Solderability	solderability requirements of IPC/EIA J-STD-002. Printed wiring boards shall be capable of meeting					
	the solderability requirements of IPC/EIA JSTD-003.					
SQC 5:	The Supplier may furnish material from different heats, lots, or batches, as applicable. Where					
Material from	shipments contain parts with different cure dates or are from different heats, lots, or batches, sul					
Different Lots	lot separation with a separate certification for each sub-lot is required.					
SQC 6:	Parts and materials provided against this line item shall be from one lot, manufactured and/or					
Single Lot / Date	processed at the same time, and shall be traceable to the same raw material lot(s). For example,					
Code Traceability	machined parts shall be manufactured in the same production run and utilize raw material from					
5067	the same lot.					
SQC 7:	The items supplied under this Purchase Order shall contain no metallic mercury or mercury					
Mercury Exclusion	compounds and must be free from mercury contamination. During manufacturing, testing, or					
	inspection, the items supplied shall not come in contact with mercury or any of its compounds nor					
	with any mercury-containing devices employing only a single boundary of containment. Note: A					
	single boundary of containment is one not backed by a second seal or barrier to prevent					
	contamination in the event of an accidental rupture of the primary seal or barrier. In the event this					
	requirement cannot be met, contact the EMLINQ Buyer.					
SQC 8: Date Codes > 5	Shipment of electronic components with manufacturing date codes in excess of 5 years is not allowed. Should it not be possible to meet this requirement, supplier must contact EMLINQ					
Years	purchasing representative for direction.					
SQC 9: Traccability - Part	Each part, component, or assembly specified on this Purchase Order shall be identified with a distinct sorial number. Sorial numbers shall not be duplicated for one part, component, or					
Traceability –Part	distinct serial number. Serial numbers shall not be duplicated for one part, component, or					
Serial Number (If	assembly number when manufactured in sequential lots and noted on shipment documentation.					



Applicable)						
SQC 10:	Unless otherwise specified on the EMLINQ fabrication drawing, printed circuit boards (PCB's) shall					
Printed Circuit	meet the workmanship requirements of IPC-A-600, Class 3. When specified on the Purchase Order					
Boards, Class 3	independent testing is required prior to shipping the printed wiring boards. All test results and test					
	specimens shall accompany shipments.					
SQC 11:	Fabricate to the requirements of IPC-6012, Class 3 per IPC-6011. Acceptance requirements shall be					
IPC-6012	in accordance with IPC-A-600, Class 3.					
SQC 12:	Unless otherwise specified on the EMLINQ fabrication drawing, printed circuit boards (PCB's) shall					
Printed Circuit	meet the workmanship requirements of IPC-A-600, Class 2. When specified on the Purchase Order,					
Boards, Class 2	independent testing is required prior to shipping the printed wiring boards. All test results and test					
	specimens shall accompany shipments.					
SQC 13:	Class 3 Requirements and Acceptance for Cable and Wire Harness Assemblies. The manufacture					
Harnesses and	shall be responsible for maintaining certified personnel, facilities, processes, and procedures in					
Cables	accordance with the latest revision of IPCWHMA-620. Trainers must possess IPC (registered)					
	approved certificates. The manufacturer further agrees to EMLINQ surveys / audits to verify					
	compliance.					
SQC 14:	When specified on the Purchase Order, independent testing is required prior to shipping the					
Printed Wiring	printed wiring boards. All test results and test specimens shall accompany this shipment.					
Boards						
SQC 15:	Suppliers of printed wiring boards must be certified to MIL-PRF-55110, MIL PRF 31032, or MIL-P-					
PWB Supplier	50884 as applicable					
Certification						
SQC 16:	1) The Supplier represents that it has procured or will maintain, during the performance of this					
Parts Obsolescence	order, sufficient components and materials necessary to perform this order, including obtaining					
Program	commitments from its suppliers required to meet all option requirements.					
	2) The Supplier represents that it has or will flow down and manage this requirement with its					
	suppliers to ensure they can meet the Supplier's obligations. 3) For a period of 24 months after completion of this order, the Supplier agrees to maintain an					
	obsolescence procedure adequate to ensure that the Supplier and its suppliers can provide the					
	Buyer adequate notice that components and material necessary to supply additional new-order					
	quantities of the articles furnished hereunder can be purchased through the Supplier by placing on					
	order within 90 days of receiving said notice. Further, the Supplier agrees to supply the Buyer with					
	such additional articles or components of said articles which are due to be discontinued subject to					
	the Buyer agreeing to compensate the Supplier for its reasonable cost plus profit for such					
	additional orders.					
SQC 17:	When DPAS rating is flowed down in the purchase order, the supplier is required to flow down the					
Government	rating to the EEE parts suppliers for priority allocation.					
Contract Orders						
(DPAS)						
SQC 18:	The supplier shall utilize Nadcap-approved special processors to perform special processes as					
Nadcap-Approved	defined by Nadcap (primarily codes CP for chemical processes and HT for heat treating). Nadcap-					
Special Processors	approved special processors are listed in the eAuditnet Online QML at:					
Required	https://www.eauditnet.com/eauditnet/ean/user/login.htm					
SQC 19:	Export Control Notice. This P.O. may contain technical data whose export, transfer, and /or					
Export Control	disclosure may be controlled by the U.S. International Traffic and Arms Regulation (ITAR) 22 CFR					
	part 120-130 or the Export Administration Regulations Commerce.					



CHANGE RECORD										
Internal ECO #	From	То	Description of Change	Approval Date	Approved By:					
010-2014	*	А	Initial release	08/21/2014	J.Simonoff					