




This Appendix I with the Supplier Quality Assurance Requirements for the PAC-3 program defines Fokker Aerostructures (Buyer) additional Program Specific Quality Requirements and forms an integral part of the Purchase Order (PO) concluded between Supplier and Buyer.

The contents of this Appendix I is in addition to or replacing one or more for the standard Fokker Quality Requirements as provided in Annex B "Supplier Quality Assurance Requirements (standard)". All terms defined in the Purchase Order shall be applicable to this Appendix I, unless explicitly defined otherwise in this Appendix I.

Supplier shall have systems and methods to assure full compliance to this Appendix I. When products or services applicable to the PO are procured by the Supplier from sub-tier suppliers, the supplier shall flow the Appendix I requirements as necessary to assure full compliance is achieved.

In case of of differences or inconsistencies with texts in the Main Contract, the stipulations in this Appendix I will prevail.

**APPROVAL**

Involvement	Name	Function	Signature and approval date
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**CHANGE LOG**

Date/Issue	Change Reason
09.oct.2013/01	New document created for FY-13
14.oct.2015/02	Update Document Current Contracts



## 1. GENERAL

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All terms defined in the Purchase Order shall be applicable to this Appendix I, unless explicitly defined otherwise in this Appendix I.

(QN800) Supplier shall have systems and methods to assure full compliance to this Appendix I. When products or services applicable to the PO are procured by the Supplier from sub-tier suppliers, the supplier shall flow the Appendix I requirements as necessary to assure full compliance is achieved.

## 2. QUALITY MANAGEMENT SYSTEM

Flow down of LMMFC - QN 892

Manufacturer's inspection system, as a minimum, shall meet the requirements of industry standard quality management systems ISO 9001 or AS/EN9100. (Different from the in Annex B "required level of certification for \*(1) military programs as shown in Annex B table 1, this military program's minimum Quality System requirement is ISO 9001, preferred Quality System level is AS/EN9100. Table 1 should be followed but note \*(1) should be disregarded.)

The supplier shall achieve and maintain certifications from an IAF (International Accreditation Forum) accredited registrar to the industry standard quality system of AS9100 or ISO 9001. Any exceptions to these QS requirements shall require written approval from the buyer.

Distributors providing materials shall maintain manufacturing records including test and other manufacturing data tied to this Purchase Order.

All Distributors shall ensure that all purchased material is obtained directly from the original manufacturer. When such is not possible, the distributor shall notify the buyer and request a written approval plan to support any exception shipments.

### MIL-I-45208 - INSPECTION SYSTEM

Flow down of LMMFC- Note SQXA520800

The supplier's inspection system shall comply with MIL-I-45208 "INSPECTION SYSTEM REQUIREMENTS," as a minimum. The supplier's inspection system shall be subject to random audits and approval by Lockheed Martin Quality representatives at all reasonable times for all shifts and locations in which articles are produced under order of this program.

Unless otherwise specified, Material Review Board (MRB) authority is NOT delegated to the supplier. All decisions to "REPAIR" or "USE-AS-IS" and all "STANDARD REPAIR PROCEDURES" utilized by the supplier in the performance of this order require buyer approval prior to the implementation. Expressions used herein are as defined in MIL-STD-1520.

## 3. RATED ORDER

This is a "Rated Order" certified for National Defense use under the system regulation (DPAS).

A DPAS rating of DO-A2 applies. You are required to follow all provisions of the Defense Priorities and Allocations System regulation (15 CFR 700).

All such rated Purchase Orders must be acknowledged as follows:

DO rated Purchase Order must be acknowledged (or rejected) within 7 working days after Purchase Order receipt.

Rejection of DO Orders must be in writing, giving the specific reason for the rejection

Commencement of performance of the work called for by this Purchase Order in the absence of Suppliers written acknowledgement thereof shall be deemed acceptance of this Purchase Order as written.

More information about the DPAS rating can be found on the next website:

<http://guidebook.dcm.mil/38/DPAS%20Guidebook.htm>

It is Suppliers own responsibility to take cognizance of the above mentioned regulation.

## 4. EXPORT LICENSE

Next Chapter only applicable for Suppliers and Subcontractors in the United States of America  
Your company is one of the suppliers for materials of the Lockheed Martin (LMMFC) – PAC-3-program, which is a military program.

Due to new ITAR rules, suppliers must apply for a new license themselves in case of new Orders and shipments.

If you have any questions regarding this subject please contact the Buyer.

## 5. GOVERNMENT SOURCE SUIVEILLANCE

Note not applicable for Standard Hardware, Commercial-Off-the Shelf parts (COTS) and Raw Material

### GOVERNMENT SOURCE SURVEILLANCE:

Flow down of LMMFC - QN 852

Government contract quality assurance is a contract requirement under our prime contract. Therefore government monitoring of your processes is a requirement. Contact your local government representative for specific instruction and coordination.

## 6. ENVIRONMENTAL

Flow down from LMMFC SOR

All Seller activities shall be in compliance with applicable US, European and local Federal, State, and Local environmental laws and regulations.

The Seller shall ensure that design, maintenance, operation, manufacturing, programmatic decisions, and trade-off studies strive to eliminate or reduce hazardous materials and waste.

The Seller shall implement a Hazardous Materials Management Program (HMMP), IAW National Aerospace Standard (NAS) 411.

The Seller shall request Buyer approval to use any of the substances identified in the EPA 17 List (identified at <http://www.epa.gov/opptintr/3350/33finb1.htm>).

The Seller shall not use any Class I Ozone Depleting Chemical/Ozone Depleting Substance (ODC/ODS) (identified at <http://www.epa.gov/ozone/ods.html>) in the manufacture of items required by this program unless a waiver is obtained from the Buyer.

Any ODC/ODS refrigerant alternatives used must appear in the EPA's Significant New Alternatives Policy (SNAP) list (identified at <http://www.epa.gov/ozone/snap/lists/index.html>) and have received a toxicity clearance from the U.S. Army Public Health Command (USAPHC).

The Seller shall provide immediate notification to the Buyer of any proposed hazardous material mitigation/elimination efforts that may adversely impact schedules and/or cost or performance.

The Seller shall prepare annual HMMP reports IAW DI-MISC-81397 (AS31A). The HMMP Reports shall include any of the following materials that are contained within a user end item: EPA 17 List materials, beryllium, coatings (identified by MIL SPEC), functional fluids (e.g., coolant, hydraulic fluid, petroleum products), energetics/solid rocket motor components (including Explosives Class Number), advanced composite materials (e.g., fabricated from silica, graphite, carbon, boron, fiberglass), batteries, asbestos, Class I/Class II ODC/ODS materials. The report shall also include any substances listed in Emergency Planning and Community Right-to-Know Act (EPCRA) Section 313 "toxic chemicals" and EPCRA Section 302 "extremely hazardous substances" (identified at [http://www.epa.gov/emergencies/docs/chem/title3\\_Oct\\_2006.pdf](http://www.epa.gov/emergencies/docs/chem/title3_Oct_2006.pdf)) utilized in the manufacturing process regardless of threshold quantity.

The HMMP Reports shall also identify via technical drawing/publication a general location of each hazardous material contained in the final end item(s).

Any hazardous materials used in the manufacturing process shall be identified as such in the HMMP Reports.

The HMMP Report shall include the current Material Safety Data Sheet (MSDS) for each hazardous material identified in the report that is used in the manufacturing process or in the end item.

## 7. COUNTERFEIT PARTS PREVENTION

### COUNTERFEIT PART PREVENTION

Flow down of LMMFC QN 1872

For Sellers of Electronic, Electrical, Electromechanical (EEE) parts, materials, mechanical parts, commodity Parts, and non-sub assembly products, the Seller shall be one of the following: original source manufacturers, franchised distributors or authorized aftermarket manufacturers as defined in AS5553. Seller shall notify the LM MFC Buyer Via Fokker purchasing of any exceptions to the foregoing requirement and ensure approval prior to delivery.

For Seller of sub-assemblies and system level products, the Seller shall purchase parts directly from one of the following: original source manufacturers, franchised distributors or authorized aftermarket manufacturers as defined in AS5553. Seller shall notify the LM MFC Buyer via Fokker purchasing of any related exceptions to the foregoing requirement and ensure approval prior to incorporating into sub-assemblies intended for delivery into Fokker made structures to be delivered to LM MFC.

Seller shall not deliver to Fokker any work, components or material purchased either directly or indirectly through brokers, independent distributors or 3rd party distributors as defined in AS5553, without prior written approval from the Lockheed Martin Purchasing Representative via Fokker purchasing department. This approval to use brokers, et al, will require the submittal of a comprehensive risk mitigation test plan to screen procured parts for counterfeit sources. Seller shall implement systems that assure complete traceability (i.e. Supply Chain Traceability as defined in AS5553) to the original source of manufacture. This requirement applies to all work delivered to Fokker for shipment to Lockheed Martin either directly or indirectly as components or included in assemblies.

Traceability methods shall clearly identify the name and location of all of the supply chain intermediaries from the original manufacturer including build identification such as date codes, lot codes, melt and heat treatment lot, serialization or other batch identification.

Seller shall not deliver work that contains counterfeit items including, but not limited to, software, material and electrical/mechanical parts /assemblies. Seller and its sub-tiers shall comply with the requirements of AS5553. The Seller shall ensure that only new and authentic materials are incorporated into work delivered under this contract. (For repair contracts, this "new material only" clause applies to the new material required for the repair. No counterfeit material is allowed to be introduced as part of the repair).

This entire note shall be flowed down to all sub-tier suppliers under this contract and seller provided evidence of compliance to this note upon request.

## 8. SUBCONTRACTING AND PROPRIETARY INFORMATION

On top of the requirements of Annex B Part 9 "Subcontracting"

If you have permission from Buyer to subcontract, hire or outsource, LMMFC proprietary information and/or US Government classified data shall only be submitted to the sub-tier supplier if Buyer has a written authorization of LMMFC Via Fokker purchasing department. Please contact your Fokker Buyer to confirm if there is such authorization.

## 9. SPECIAL PROCESSES

Below Notes QN 1836 and combined QN 1837 describe the process on handling, documenting and reporting the special processes.

QN 1836 SPECIAL PROCESS - FIRST TIER/LM APPROVED - SUB TIER/SELLER APPROVED

QN:1837 SPECIAL PROCESS - SELLER APPROVED

The supplier shall identify and document all special processes referenced by specification within the Lockheed Martin engineering design required to produce the item/s under contract.

The supplier is responsible to assure all special processes are capable and qualified to perform the special process in accordance with specification requirements. Objective evidence of suppliers special process approvals shall be documented, verifying periodic surveys of the special processes. Objective evidence of surveys shall be retained by the supplier in accordance with PO quality Annex B (B2en-SQAR Standard)and is subject to periodic audit.

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A copy of the special process certificate of compliance that certifies each process was accomplished in accordance with the applicable specification shall be available for review by Fokker as objective evidence the special process was performed to the specification requirements.

Use of special process providers approved by Lockheed Martin is recommended. (Information on this list to be asked to Fokker purchasing department)

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*Special process definition:*

*Special process - a method controlled by a contractually required specification where:*

*When a product undergoes a physical, chemical or metallurgical transformation or inspection, conformance to the specification cannot be readily verified by normal inspection methods, and the product depends on use of specific equipment operated in a specific manner, under controlled conditions, by trained personnel with instructions, procedures and standards.*

## 10. PRODUCT AND PROCESS REQUIREMENTS

### PRODUCT AND PROCESS REQUIREMENTS

Flow down of LMMFC- QN 890

The seller shall have a Process Control Document (PCD) for all key process parameters and key product characteristics. The seller shall use the approach defined in AS9103 for identification of key characteristics and process parameters and for development of the PCD or an equivalent control plan format. A single PCD may apply to a family of products produced by the same process provided that all unique areas are delineated. The PCD shall be submitted for buyer review and approval.

## 11. TECHNICIAN CERTIFICATION

Flow down from LMMFC SOR

### Technician Certification

Some of the drawings contained in this contract require work to be performed IAW a Lockheed Martin process specification by a Certified Technician. The following specifications, which are called out on the face of the drawing where applicable, include but may not be limited to:

- (a) 508-8-260 Process Specification for Bonding and Potting with Epoxy Paste Adhesive
- (b) 508-13-204 Process Specification for Installation of Heli-Coil Brand Helical Coil Inserts
- (c) 508-6-177 Process Specification for Sealant Application
- (d) 508-11-61 Process Specification for Harness Installation
- (e) 508-14-19 Process Specification for Ultrasonic Inspection
- (f) 508-7-303 Process Specification for Machining and Drilling of Composites
- (g) 508-4-10 Process Specification for Isostatic Pressing
- (h) 508-13-241 Process Specification for Nutplate Installation

## 12. TOOLING/EQUIPMENT

Tooling/Equipment documentation, control, accountability

Flow down of LMMFC- QN 1828

The requirements of this Quality Note are in addition to any other tooling requirements that may be required elsewhere within this appendix. The requirements of this purchase order Quality Note are applicable only if Fokker, LMMFC or Government Tooling is provided or acquired in the performance of this purchase order (P.O.)

### Definition:

The term "tooling/equipment", as used herein shall include all Fokker, LMMFC or Government owned tools / equipment.

### Supplier receiving inspection:

All tooling and test equipment furnished by Fokker, LMMFC or the Government for performance of work hereunder shall be promptly inspected by Supplier upon receipt to determine all tooling details have been received (inventory against the tool design drawing) undamaged. Any discrepancy shall be reported in writing to the Fokker Buyer, who will furnish instructions as to action required.

### Accountability:

The Supplier shall be responsible and accountable for all tooling provided under this purchase order. Supplier shall not dispose, transfer, or return tooling without proper notification and written authorization from the Fokker Buyer. The Suppliers Quality System shall define tool storage requirements, to include periodic preservation/condition checks for all tools in storage.

Fokker may authorize by written notice from the Buyer the use of the tooling hereunder for performance on other P.O.'s such authorization must be in advance of any changed use.

### Movement of government owned tooling:

The Supplier shall complete form DD1149 for all movements of Government owned tools/equipment.

A copy of the DD1149 can be obtained by Fokker's Buyer.

### Modification to Supplier designed tooling/equipment:

No modification to the tooling acquired or manufactured to produce production items, shall be accomplished without the prior written consent of the Buyer. Upon completion of any modification, Supplier shall promptly report each modification, giving the following:

Tool identification number

New configuration revision level

Nomenclature

Part number made from the tool  
Description of modification (copy of old revision drawing & New revision drawing)  
Cost of tool modification  
P.O. number

Modification to Fokker or LMMFC designed tooling/equipment:

No modification, repair, or rework of Fokker or LMMFC designed tooling / equipment shall be performed without Buyer approval via an approved Tool Action Request (TAR).  
Prior to modification, repair or rework, the Supplier shall complete the TAR Form# 3-27060 tool action request and submit to the Buyer (obtain from Fokker Buyer).

Special supplier acceptance tools – requirements for control and accountability:

In addition to the other requirements set forth herein, acceptance tooling/equipment shall require the following:

All tools to be used for hardware acceptance must be documented on drawings made to good commercial practices and capable of being reproduced. Prior to tool fabrication, Supplier shall submit to Buyer for review and approval two copies of the tool design package.

Drawings will be made to good commercial practices, i.e. the design. Good commercial practices as related to tool design, means that the design must adequate to provide all information necessary to fabricate an exact duplicate tool by any competent tooling manufacturer.

The tool drawing must include a complete bill of material, all heat treatment requirements, finish, tolerance and/or coordination information pertinent to fabrication and functional integrity of the tool/equipment.

Compliance with requirements of the design criteria checklist, as specified in section a below, is required.

The package shall consist of drawings, operating instructions and inspection/test plans for each acceptance tool to be built or acquired for accepting hardware during the course of this purchase order unless otherwise covered by written exception agreed to by Buyer and Supplier. This includes gages, inspection or fabrication tools / equipment.

Tooling/equipment to be used for hardware acceptance requires inspection and acceptance by quality control.

Tooling/equipment to be used for hardware acceptance shall be periodically re-verified and/or recalibrated in accordance with the applicable tool maintenance plan, calibration procedure and calibration standard, at intervals established by quality engineering. The terms quality control and quality engineering, as used in this paragraph, are Fokker or LMMFC for LMMFC designed tooling and Supplier for Supplier designed tooling.

Unless otherwise covered by written exception agreed by Buyer and Supplier, periodic recalibration will be the responsibility of the Supplier.

The Supplier shall be responsible to create and maintain inspection records for all tools used for hardware acceptance, including periodic re-verification/calibration records.

Primary Identification Number (PIN):

Where the Supplier has assigned to the tooling a Supplier identification number, this Supplier identification may be used by Fokker or LMMFC as the Primary Identification Number (PIN), Where a Supplier identification number has not been assigned, LMMFC via Fokker will assign a prefixed PIN for identification and marking of tooling / equipment. All tooling assigned a PIN by the Supplier or LMMFC shall be physically identified with a LMMFC provided identification tag.

Section A:

Design criteria checklist for acceptance tooling/gages acquired by and at Supplier's facility to accept LMMFC production hardware. Standard gage makers tolerances will apply.

Production tooling used as media of acceptance shall not exceed 50% of the part tolerance.

All tooling will be dimensioned and tolerance compatible to geometric dimensioning as required by ANSI Y14.5M or ASME Y14.5M.

Drawings will be made to good commercial practices, i.e., the design must provide all information necessary to fabricate an exact duplicate tool without reference to any other document other than the tool drawing.

Tool / equipment designs shall include:

A complete bill of materials  
Complete dimensioning of all details either on the assembly or detail views.  
Commercial hardware such as dowels, socket head cap screws, etc. may be identified in the bill of material only.

Tool / equipment drawings must contain the following information:

Tool numbers

Tool drawing and rev. letter

Hardness finish and stabilization requirements must be specified

A complete set of operating instructions. operating instructions shall be a minimum size of 8 ½ x 11" sheets properly identified by drawing sheet number.

Tool drawing/instructions must list all features checked and used as acceptance criteria by the tool.

A recommended frequency of calibration

Fokker or LMMFC provided lifting and handling tools:

Supplier shall be responsible for maintenance and inspection of all lifting and/or handling devices provided by the Buyer to applicable OSHA safety and maintenance requirements.

#### TOOL CERTIFICATION

Flow down of LMMFC- QN 1827

The requirements of this Purchase Order (PO) Quality Note are in addition to any other tooling requirements that may be required elsewhere within this PO.

This Quality Note is applicable for certified tools identified in the text of this PO where the seller has responsibility for tool certification. The buyer shall list all certified tools, by tool number for which the seller has responsibility for certification within the text of the PO.

For certified tools provided by the buyer to the seller where the buyer retains responsibility for the tool certification, the buyer shall list all certified tools, by tool number, with the statement "Buyer retains responsibility for tool certification" within the text of the PO.

Certified Tool:

Certified Tooling - Manufacturing tooling that has been formally reviewed and specific criteria documented for its control and is used as a media of product acceptance.

Certified Characteristic Verification:

Tool characteristics required for certification are identified on the tool design drawing with the symbol shown below.

BITMAP 'CCV' OBJECT GRAPHICS ID BMAP TYPE BMON

Where:

"1" represents a numeric value from 1 to 99 signifying the Feature to be certified.

"A" represents the alphabetic character "A", "B" or "C"

Corresponding to the frequency of verification as noted below:

"A" requires that the feature be verified at the initial certification of tool, and at each subsequent recall interval, or any time a rework is performed that involves that feature.

"B" requires that the feature be verified at the initial certification of tool, and at every other recall interval or any time a rework is performed that involves that feature.

"C" requires that the feature be verified at the initial certification of tool, or any time a rework is performed that involves that feature.

Visual inspection:

In addition to the tool characteristic certification above, at the time of certification or re-certification the tool should be visually inspected for wear, corrosion, or damage.

Certification frequency:

The tool certification frequency is six (6) months.

Certification frequency may be extended by the sellers Quality Engineering based on limited use of the tooling. The sellers Quality Engineering representative shall make note, with signature and date, of the frequency extension, with a justification statement, on the seller's tool certification record.

Tool certification tag:

The seller shall identify each certified tool with an identification tag. The tag shall include the date of certification, the inspectors stamp impression, and the next certification due date.

Discrepancies:

Any discrepancies found during the tool certification process shall be documented on the seller's nonconformance reporting form and submitted to the buyer for disposition.

Modification to Lockheed Martin designed tooling:

No modification, repair, or rework of Lockheed Martin designed tooling shall be performed without Fokker buyer approval.

Prior to modification, repair, or rework, the seller shall complete the tar form 3-27060 (LMMFC document via Fokker Buyer) for submittal to the buyer.



### **13. FOREIGN OBJECT DEBRIS / DAMAGE PREVENTION**

Flow down of LMMFC - QN 887

On top of requirements of Annex B Part 5.2 "Deviations":

1. Supplier shall develop and maintain a Foreign Object Debris/damage ("FOD") prevention program for manufacturing areas to prevent introduction of foreign objects into any item delivered under this Purchase Order (PO).

### **14. NON-CONFORMITY REVIEW AND DISPOSITION**

The Supplier shall not deliver any non-conforming item, except with the prior written approval of the Buyer. Requests for Authorization To Ship nonconforming material shall be made at the time of occurrence and addressed in writing to the Buyer and appropriate Quality Procurement Engineer within 5 days. Nonconforming material rejected by Buyer and determined to be Suppliers responsibility requires the Supplier to respond to Buyer's request for root cause and corrective action. Failure to respond within the time frame requested could affect future procurement and/or status as an Approved Supplier. Nonconforming material subsequently resubmitted by the Supplier shall be identified with a copy or reference to the Buyer rejection document. When nonconforming material detected after delivery to Buyer, the Supplier shall notify the Buyer and the appropriate Quality Procurement Engineer if it is determined that nonconforming material has been delivered to Buyer.

In the event that Supplier fails to comply with the requirements of this Appendix-I, Supplier shall demonstrate to Buyer's satisfaction that no negative consequence on the products shall result there from.

#### **MATERIAL REVIEW AUTHORITY**

Flow down of LMMFC - QN 1870

Once a deviation or waiver (nonconforming) condition is identified, continuing to add value to the item(s) without Buyer approval is at Seller risk.

Unless otherwise specified in this purchase order or other contractual documentation, the Seller and/or any of their suppliers/subcontractors DO NOT have authority to process use-as-is, repair, or standard repair procedures via their Material Review Board (MRB).

These dispositions, including Request for Deviations and Request for Waivers, require Lockheed Martin MRB disposition and shall be submitted to the Fokker Buyer for processing (this does not include rework or scrap). Definitions for Use-as-is, Repair, Rework, Deviation, and Waiver are as follows:

Deviation - A written authorization, granted prior to the manufacture of an item, to depart from a specification or drawing for a specific unit(s) or a specific period.

Rework - Work performed in reprocessing material to make it conform to the contract requirements. A rework item complies with drawing or other specified requirements following the application of the rework process.

Repair - A process designed to make material acceptable for its intended function, but not in conformance with documentation or other specified requirements. Repair is distinguished from rework in that the item to be repaired shall not comply with applicable drawings after the repair, but shall be acceptable for the intended use.

Use-As-Is (UAI) - A disposition of material with a minor defect when the appropriate authority determines that the material is satisfactory for use without any additional rework or repair. Defects other than minor, must be reworked to a minor level prior to being documented as use-as-is.

Waiver - A written authorization to accept an item, which during production or inspection, is found to depart from specified requirements.

### **15. SUPPLIER CORRECTIVE ACTION REQUEST**

Flow down of LMMFC - QN 1899

Supplier agrees to provide a formal response to any Supplier Corrective Action Request (SCAR) within the timeframe indicated on the SCAR. Supplier is also requested to contact the Buyer when the material associated with a SCAR investigation has not been returned by Buyer to Seller or more time is required to adequately perform an investigation.

## 16. CHANGES

### SUPPLIER PROCESS CHANGE CONTROL

Flow down of LMMFC - QN 1880

Some or all of the products acquired under this agreement will be incorporated into higher level assemblies that may be subject to stringent "qualification testing" requirements for critical government applications; even minor changes to Seller's products or processes may necessitate "requalification" or produce unacceptable results in higher level assemblies. Since the impact of any such product/process change can be most efficiently assessed prior to product integration into higher level assemblies and the potential cost of remediation/retrofit activities for end products deployed worldwide could be substantial, as a cardinal commitment under this contract, Seller expressly commits to:

- 1) maintain a robust sourcing/quality process for the products delivered hereunder;
- 2) rigorously comply with the notification requirements specified below; and
- 3) include provisions with its sub-tier suppliers that are adequate to implement the requirements of this provision.

Prior Approval - Form/Fit/Function Alterations:

Seller will not implement, or otherwise deliver to Buyer, products incorporating any alterations to product form, fit, or function without the express prior written approval of Fokker Purchasing. Such approval shall not be unreasonably withheld but shall be dependent upon Seller's thorough documentation of such proposed changes (including any analysis necessary to confirm continued suitability). Seller's notification and Buyer's limited approval of such form, fit or function alterations shall not be interpreted to waive any other contractual requirement(s) or to otherwise relieve Seller from delivering fully compliant products.

Prior Notification - Material Changes:

Prior to delivering any products incorporating a "material change", Seller shall provide advance notice to Buyer in sufficient time to reasonably evaluate the proposed change and, if necessary, to place an end-of-life order for the unchanged product, but in no event shall Seller's notice be less than 30 calendar days. For purposes of this clause a "material change" is any alteration to the design, technical specifications, materials, component sourcing, or production process, facilities or location, whether instigated by Seller or its sub-tier suppliers.

Risk Notification - Product Alerts Fokker shall be promptly notified whenever Seller becomes aware or reasonably suspects that any product delivered to Fokker is, or contains a component that is, subject to a recall notice, warning alert, GIDEP Alert, and/or any other type of notification or concern regarding product authenticity, quality, safety, process integrity, and/or specification compliance.

Flow down from LMMFC SOR

Change requests should be made using the DI-CMAN-80639 as guide.

Flow down from LMMFC SOR

Production Line Validation (PLV).

The supplier shall conduct a physical demonstration of the manufacturing process for each substantial change identified. The supplier shall provide a PLV plan that includes an agenda, process map and detailed documentation that describes the nature of the change and the plan to validate the change. The physical demonstration of the manufacturing process shall be witnessed by Fokker Buyer and the LMMFC Buyer with supplier support and issues resolved prior to delivery of any end item containing the subsystem/component. The supplier shall demonstrate the use of Production documentation/tooling in the fabrication of deliverable hardware. The supplier shall identify critical processes that are considered essential to ensuring that the hardware meets or exceeds the engineering requirements consisting of a physical demonstration of the manufacturing process for substantial changes to critical processes identified. Fokker shall invite the LMMFC Buyer to participate in the PLV process for the following supplied items / processes:

- Stack Frame Casting
- Stack Frame Machining
- Forward Cover
- Aft Cover
- Shock Absorbing Skid
- D-Box
- Heater

## 17. OBSOLESCENCE MANAGEMENT

Flow down from LMMFC SOR

The Seller shall monitor critical items used on Special Test Equipment (STE), Special Tooling (ST), and Special Inspection Equipment (SIE) for obsolescence.

This entails monitoring life-cycle status and availability of materials used to manufacture any STE, ST, or SIE that are used during the duration of the contract.

The intent of this program is to identify any test stimulus and measurement device (this is not meant to include nuts, bolts, washers, or other readily available commodity items) that is critical to the performance of each STE, ST, and SIE.

The types of items that shall be considered include but are not limited to: power supplies, oscilloscopes, digital multimeters, igniter testers, switches, waveform generators, computers, and software (operating systems, compilers, debuggers, and so forth).

This applies to all PAC-3 equipment.

The Seller's system shall adopt the following reference designations:

- (a) Green Part or material is readily available from multiple sources of supply.
- (b) Yellow Part or material is available from only a single source of supply.
- (c) Red Part or material is unavailable or has been identified as "unavailable for new designs".

Flow down from LMMFC SOR

The Seller shall monitor the following throughout the duration of the contract:

- 1) Electrical, Electronic and Electromechanical (EEE) parts life-cycle status and availability.
- 2) The life-cycle status and availability of materials used to manufacture the product.

The monitoring of these parts and materials shall include the current PAC-3 configuration and any known future derivatives.

The Seller's system shall adopt the following reference designations:

- (a) Green EEE Part or material is readily available from multiple sources of supply.
- (b) Yellow EEE Part or material is available from only a single source of supply.
- (c) Red EEE Part or material is unavailable from the Original Equipment Manufacturer (OEM) or has been identified as "unavailable for new designs".

## 18. REQUIRED DOCUMENTS

Flow down of LMMFC - QN 885

Seller shall submit documentation (IE: Shipping List, Certificate of Conformance, etc), with each shipment, indicating the Lockheed Martin drawing number and revision level, to which the part is manufactured.

On top of the requirements of Annex B Part 3.1 "Required documents"

As a minimum the following information must be on the COC

- 1. Original manufacturer's and/or distributor's name and address
- 2. Buyer's Purchase Order number
- 3. Buyer's Part number, revision if applicable, product name and quantity
- 4. Drawing or specification number and revision, to which the part is manufactured
- 5. Serial number(s) or date code(s) or lot/batch/heat number(s) (as applicable)
- 6. If applicable Shelf life / life time data (date of manufacturing)
- 7. Authorized signature, Name, title and date (legible)
- 8. Statement, declaring that the delivered products are in compliance with the requirements of the purchase order.
- 9. Release date of certificate
- 10. Deviation of the product related to requirements on the purchase order, if applicable and authorized by Buyer.

Distributors shall also pack OEM's COC with the goods

Only if requested for per purchase order, drawing, specification products have to be delivered with material test certificates, test reports and dimensional measuring reports.

## 19. INSPECTION REPORTS FOR EACH SHIPMENT

Quality and inspection records

Flow down of LMMFC- QN 831

Quality and inspection records shall be established and maintained by the Seller to provide evidence of conformity to requirements and the effective operation of the Quality management system. Records retention requirements differ based on the Lockheed Martin Missiles and Fire Control contract/product associated with the procurement. As a minimum, records must be maintained for a period of seven (7) years after completion of this Purchase Order (PO) or as otherwise stated elsewhere in this PO. Records may be archived to an offsite location, but shall remain legible and readily retrievable. Prior to removing the records from retention, subcontractor shall request disposition of the data records from LMMFC. Buyer reserves the right to periodically audit the seller's historical records, retention policies and practices.

Dimensional inspections shall be performed on sample basis i.a.w. LMMFC specification MIS-50822, TABLE I, for minor characteristics. All dimensions for each sampled part must be measured. Dimensional inspection data documentation showing required and actual dimensional inspection results, traceable to each part measured, must be included with each shipment.

Please contact Buyer if this specification has not been submitted at ordering or if you have questions regarding the specification.

## 20. PHYSICAL/CHEMICAL TEST REPORTS

Note not applicable for Standard Hardware, Commercial-Off-the Shelf parts (COTS)

On top of the requirements of Annex B Part 3.1 "Required documents":

- A Physical/Chemical test report for Raw Material is required and shall contain the following;
- Name/number of the specification with which the material is in compliance.
- The melt/heat lot number or other traceable designation (i.e. purchase order number, invoice number, etc.).
- The reports shall indicate the percentage of each element that makes up the chemical composition and the physical properties of the raw material and a statement of conformance to the applicable specification.

Shipment documentation:

Each shipment shall include a copy of the test report for delivered product.

## 21. MATERIAL SAFETY DATA SHEET (MSDS)

Whenever the material supplied in fulfillment of this Purchase Order is supplied to Buyer for the first time, a current, detailed Material Safety Data Sheet (MSDS) shall accompany the shipment, given that the material is either toxic or hazardous or both as defined by any applicable law, code statute or regulation. Whenever an MSDS is revised, a post revision copy shall be furnished with the next shipment

Shipment documentation:

Whenever an MSDS needs to accompany a material shipment to Buyer, an additional copy of the MSDS shall be sent, under separate cover, to the cognizant Buyer.

## 22. QUALITY AUDIT

On top of the requirements of Annex B Part 3.2 "Quality Systems"

The Supplier shall authorize reviews and audits by the Buyer's Quality departments and Buyer's Customer. When proprietary information is involved, the extend of these reviews, audits and/or inspections will be mutually agreed between Buyer and Supplier. The Buyer reserves the right to send an Fokker Quality Representative for a permanent or prolonged stay at the Suppliers facilities.

The Supplier will be required to provide adequate accommodation from which the representative can conduct his business.

## 23. FIRST ARTICLE INSPECTION

Flow down of LMMFC - QN 1818

First Article Inspection does not relieve the seller of responsibility for Non-Conforming hardware found at a buyer's facility. The seller is responsible to comply with PO Note 1899 for all Supplier Corrective Action Requests.

On top of the requirements of Annex B Part 4 "First Article Inspection":

1) Before delivery of "new parts" (first time delivery), a First Article Inspection (FAI) is required in addition to inspection requirements in the purchase order.

Documentation:

3) Witnessing of the acceptance test procedure (ATP) will also become a part of the FAIR when applicable.

4) Any changes, as defined in AS9102, paragraph 5.3, with the following deviations from AS9102, paragraph 5.3:  
a. A break in production of one (1) year or more shall require a new FAI.

This is different from the requirements of Annex B Part 4 "First Article Inspection" if the interval exceeds a period of 12 months (instead of 24 months), the goods shall be deemed a "new part".

b. All design or process changes require a new partial (Delta) FAI.

7) Fokker's Quality Procurement Officer and the LMMFC supplier quality representative shall stamp AS9102 Form 1, Part No. Accountability or equivalent as evidence of LMMFC FAI acceptance and any supporting documentation tied to the FAI Data.

B: Catalog and Commercial Off-The-Shelf:

13) If the part number, as listed on this PO, is for a Buyer or Supplier designed product that has standard catalog or commercial off-the-shelf hardware included at subassembly levels, the FAI is not required for the standard catalog or commercial off-the-shelf parts/assemblies.

## 24. DOCUMENTATION REVISION AND CONFIGURATION CONTROL

Flow down of LMMFC - QN 816

For Lockheed Martin Part Numbers that reference military industrial, and commercial standard processes, sellers shall use the latest revision at time of the purchase order unless otherwise stated in the purchase order.

### CANCELLED SPECIFICATIONS:

When a military specification and/or standard has been cancelled and/or replaced, the approved specifications shall be found by accessing the Lockheed Martin Missiles And Fire Control supplier web server:

<http://www.lockheedmartin.com/us/suppliers/bu-info/elec-systems/mfc-extforms.html>

- File Name: Single Process Initiative (SPI-LMC99-1) Cancelled Specific

Order of Precedence:

1. Refer to pages 6, 7 and 8 within the SINGLE PROCESS INITIATIVE (SPI-LMC99-1)

2. When a specification is not addressed in the SPI-LMC99-1 refer to the Guidance for Specification table located in pages 23, 24 and 25 of the same document.

3. When the cancelled specifications are not addressed in the Tables identified above, the Seller shall contact the Buyer to work with the specific Program Materials Manager to determine the applicable specification and its revision.

Preparation and Submittal of Request for Deviation/Waiver

For minor Deviations, critical/major Waivers or Deviations, the Supplier shall submit an RFD (in Suppliers Format) for Buyer's Customer approval. All RFD's and RFW's shall contain a proposed resolution/corrective action or an explanation of why corrective action is not desirable/feasible.

The Supplier shall submit (in Suppliers Format) minor Waivers with corrective action for Buyer's Customer Material Review Board (MRB) disposition

## 25. TRACEABILITY

Batch Traceability

Flow down of LMMFC QN 818(s)

Traceability is required by Batch traceability data for this hardware. Batch traceability covers the following traceability methods (Date Code, Heat Lot and Lot Number).

Serial Numbers cannot be duplicated per Part Numbers.

## 26. FIRST PASS YIELD

Note not applicable for Standard Hardware, Commercial-Off-the Shelf parts (COTS) and Raw Material  
 Flow down from LMMFC SOR

First pass yield is the number of conforming units produced divided by the total number of units processed over a specific period of time, with conforming units satisfying all applicable requirements without evidence of failure, rework or repair. The Seller shall collect yield data at major process steps in the fabrication, assembly and test of their supplied hardware. This information should be shared with Fokker's Buyer on request. For any process that has a yield of less than 75%, the Seller shall submit the yield information and the a causal analysis (root cause) for the problem area and corrective action. The following is the Buyer's suggested First Pass Yield Data Format.

Part Name Or Operation	P/N (if applicable)	Produced	Accepted	Rejected	Reject %	Yield %
Part x	1xxxxxxxxx	100	92	8	8	92

## 27. PRESERVATION AND PACKAGING

Preservation and Packaging  
 Flow down of LMMFC - QN 856

Preservation, packaging and packing of all deliverable goods shall be in accordance with the latest revision of ASTM D3951, Standard practice for commercial packaging, unless other requirements are specifically specified in this order. Prohibited Materials: Pink Poly IAW ANSI/ESD S541 shall not be used for shipments to Lockheed Martin. This also includes when packaging Waffle Packs or Waffle Trays, the insertion of Pink Poly is not allowed (due to contamination issues).

## 28. QUALIFICATION OF VENDORS

Note not applicable for Standard Hardware, Commercial-Off-the Shelf parts (COTS) and Raw Material

The Supplier shall have a "supplier Quality Assurance program" that shall establish and maintain an Approved Supplier List (ASL). Evidence of poor quality shall be cause for suspension or removal from the Approved Supplier List. The Suppliers "supplier quality assurance program" shall also:

- Transmit information on the intended application and relevant drawings/specifications to the sub-tier supplier.
- Ensure that sub-tier suppliers have acceptable quality systems.
- Ensure that all products and services purchased from sub-tier suppliers conform to applicable requirements
- Initiate corrective action with sub-tier suppliers on non-conforming products and maintaining records of supplier history including corrective actions and process history.

## 29. SHELF LIFE MATERIALS

On top of requirements of Annex B Part 6 "Product characteristics"

Warranted Shelf life period identified as SLxxx#

Shelf life expiration date must be identified on all individual containers and external packaging. The date must be identified with the Month, day and year.

Storage temperature requirements, identified as STxxx#.  
 Any other requirements, if applicable, identified as AOxxx#.

Articles with shelf life limitations shall delivered with at least 75% (3/4) of the allowed shelf life remaining unless prior written consent of the Buyer is obtained.

## 30. RETURN OF SUBMITTED INFORMATION AND MATERIAL

Note not applicable for Standard Hardware, Commercial-Off-the Shelf parts (COTS) and Raw Material

All information submitted by Buyer (e.g. drawings, production orders, other technical data) shall be returned to Buyer with delivered goods if buyer has indicated that no follow up contracts will be awarded. Where Buyer submitted material to Supplier, the remaining material shall be returned to Buyer with goods to be delivered.