QUALITY CONTROL CLAUSES
STANDARD PURCHASE ORDER QUALITY CONTROL ATTACHMENTS QAF-1142

The requirements of these clauses and any procedure or reports executed in implementation thereof, with their terms and conditions, become an integral part of the Purchase Order to the extent specified in the Purchase Order. These requirements supplement, but do not supersede, the presently existing terms and conditions of the Purchase Order. Compliance with the requirements of these clauses does not relieve the supplier of his responsibility for furnishing materials and services, which fully comply with applicable Drawing and Specification Requirements. It does not guarantee acceptance of materials and services by GE Aviation. Government documents are referenced herein by their basic number. Unless otherwise specified in the Purchase Order, the latest revisions and changes are applicable.

All references to GE Aviation include the Bohemia, NY (Long Island) and Pompano Beach, FL locations.

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<tr>
<th>Date</th>
<th>Revision</th>
<th>Revision Summary</th>
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<tbody>
<tr>
<td>3/10/09</td>
<td>W</td>
<td>Removed clauses 19 and 20; removed clause 25b, changed clause 25a to 25; added clause 28c (Lockheed Martin Aeronautics parts only)</td>
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<td>1/28/10</td>
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<td>Added clarifying Build to Print statement to Clauses 10b &amp; 10c; Added Clause 29.</td>
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</table>
 Clause 1 Government 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.

On receipt of this order, promptly furnish a copy to
the Government Representative who normally
services your plant or, if none, to the nearest Army,
Navy, Air Force, or Defense Supply Agency
inspection office. In the event the representative
or office cannot be located, our purchasing agent
should be notified immediately.

All work on this order is subject to inspection and
test by the Government at all times (including the
period of performance and places), and in any
event, prior to shipment. The Government
Representative who normally services your plant
should be notified forty-eight (48) hours in advance
of the time articles or processes are ready for
inspection or test.

Clause 2 Quality System:
A. Quality System - The supplier shall maintain a
quality system that meets the requirements of
ISO9001:2000 or AS9100. The system may be
subject to a quality review by GE Aviation
unles a third party registration can be provided.

B. Quality System for Distributors - the distributor
shall maintain a system to ensure the products
or services they provide meet the requirements of
the Purchase Order. Raw material and/or
certifications from the manufacturers shall be
maintained by the distributor for at least 3
years and be made available to GE Aviation
upon request.

Clause 3 Supplier Design/Process Changes:
The Supplier shall notify and obtain approval from
GE Aviation for changes in design, manufacturing or
assembly processes, manufacturing location or
source of supply of their products, whenever such
changes affect applicable GE Aviation orders, prior
to the contemplation change, regardless of
magnitude.

Clause 4 Certificate of Compliance:
The supplier shall include in each shipment of parts
or materials a Certification of Compliance indicating
that the items have been manufactured, inspected,
and/or tested, and meet the requirements of the
purchase order. The minimum information on the
Certificate of Compliance shall include the following:
1. date, 2. purchase order number, 3.
supplier name, 4. part number, drawing number
and/or specification number including revision, 5.
statement of compliance to the terms of the
purchase order, 6. signature of authorized company
representative, 7. list, batch, serial number(s),
and/or other identification.

A copy of this certificate shall accompany packaging
list.

Distributors only - A copy of a Certificate of
Conformance from the distributor specifying date
code, lot/batch code or serial number(s) and the
manufacturer’s name shall be shipped with each
order.

Clause 5 Flow Down of Requirements:
The supplier shall flow down to their suppliers the
applicable requirements of this purchase order,
including any key characteristics.

Clause 6 GE Aviation Source Inspection:
Prior to shipment from your plant, you are
requested to notify the Buyer three days in advance
of shipment so that arrangements may be made for
source inspection. Seller will provide GE Aviation
Quality Assurance Representative with the facilities
to inspect the articles.

Clause 7 Right of Access to all facilities:
GE Aviation, GE Aviation’s customers and/or
regulatory authorities shall have right of access to
all facilities involved in this order and to all
applicable records.

Clause 8 Test & Inspection:
GE Aviation, GE Aviation’s customer, and the
Government have the right to inspect and test all
supplies called for by the contract, to the extent
practicable, at all places and times including the
period of manufacture, and in any event before
acceptance. FAR Clause 52.246-2, inspection of
supplies - fixed price, is hereby incorporated by
reference.

Clause 9 Test Data:
Test data readings and/or inspection
measurements of items on this order must be taken
and documented as indicated below. Particular
emphasis shall be given to those characteristics
which cannot normally be inspected upon receipt at
GE Aviation (hidden measurements). The above
record shall be adequate to ascertain the quality
level of required articles and of the production
processes used in manufacture of parts on this
order. The use of electronic media is encouraged.

A. Inspection measurements
B. Test Data
C. Retain at Supplier
D. Submit with shipment.

Clause 10 Approved Process Vendors:
All processing such as welding, heat treating,
electroplating, cleaning, anodizing, chemical
filing, etc., shall be accomplished by NADCAP or GE
Aviation approved process vendors as reflected in
the applicable Approved Vendor List.

Shipment to GE Aviation must be accompanied
with a certification demonstrating compliance with
all applicable specification as defined by the
drawing and/or purchase order.

10 (a) This is a Sikorsky Aircraft part; any special
process source/laboratory used to make or test this
component/assembly must be an approved vendor
of GE Aviation and an approved vendor of Sikorsky
Aircraft, per Sikorsky Aircraft Document SOAR-100
(Sikorsky Aircraft Approved Source List for Special
Processes).

The GE Aviation subcontract, as well as their
suppliers and processing sources, must supply GE
Aviation with Certification of Compliance (C of C)
that processes performed conform to Sikorsky
Aircraft Document SOAR-100.

10 (b) This is a Lockheed Fort Worth Division part;
any special process source/laboratory used to
make or test this component/assembly must be an
approved vendor of GE Aviation and an approved
vendor of Lockheed Fort Worth, per LPWC
Document QCS-001 (Quality Control Specification
Approved Process Sources). This requirement
applies only to "Build to Print" programs - contact
The Buyer for further instructions.

The GE Aviation subcontract, as well as their
suppliers and processing sources, must supply GE
Aviation with Certification of Compliance that
processes performed conform to LPWC Document
QCS-001.

10 (c) This is a Boeing Company part; any special
process source/laboratory used to make or test this
component/assembly must be an approved vendor
of GE Aviation and an approved vendor of Boeing
Company, per Document D1-4426 (Boeing
Approved Process Sources). This requirement
applies only to "Build to Print" programs - contact
The Buyer for further instructions.

The GE Aviation subcontract, as well as their
suppliers and processing sources, must supply GE
Aviation with Certification of Compliance that
processes performed conform to Boeing Company
Document D1-4426.

Clause 11 Chemical Reports:
A chemical and physical analysis report shall be
supplied with each shipment per purchase order.

Clause 12 Destructive Analysis:
A specimen of suitable size and configuration for
destructive analysis shall accompany each
shipment made against this order. The specimen
shall be of the same material and shall have been
processed with the lot it represents through all
special processes e.g.: heat treatment, electroplating, paint finish, etc.

Clause 13 Limited Shelf Life Materials:
The supplier shall identify each item, package or
container with the date of manufacture and shelf
life expiration date. Rubber products shall be
identified as to the cure and sold date.
IN NO CASE SHALL MATERIAL BE SUPPLIED WITH
LESS THAN 80% OF ITS SHELF LIFE REMAINING
WITHOUT PRIOR WRITTEN APPROVAL BY GE Aviation
BUYER

Clause 14 Material Review Authority:
NCM identified prior to shipment - Supplier does not
have material review authority for parts that cannot
be reworked to meet GE Aviation requirements; the
supplier shall prepare a Supplier Material Review
Request QAF 1012.

NCM identified subsequent to shipment - The supplier shall provide for timely reporting of
delivered nonconforming product that may affect
reliability or safety. Notification shall include a clear
description of the nonconformity, which includes as
necessary parts affected, customer and/or
Clause 15 Corrective Action:
Supplier is required to provide prompt and effective corrective actions on all reported discrepancies. The supplier is responsible to respond to GE Aviation corrective action requests.

Clause 16 Packaging:
As a minimum, the supplier shall package all material in a manner that will ensure protection against corrosion, oxidation, deterioration and physical damage during shipment to GE Aviation and as described below:

- Electrostatic sensitive devices shall be packaged and handled in such a manner as to prevent static damage.
- Printed wiring boards shall be individually sealed in static shielded bags, or similar protective material.
- Materials used to maintain item positions and lead configuration shall be dimensioned to prevent shorting or damage of lead and/or destroying the leads.
- Wrapping and cushioning material shall not be used. Desiccant, dry or other antioxidant material shall also be used.
- Materials shall be used to maintain item positions and lead configuration shall permit its removal and replacement without bending and/or destroying the leads.

Items damaged due to inadequate packaging will be rejected and returned to the supplier.

Clause 17 Solderability:
Components, wires, lugs, terminals, etc., furnished under this order shall meet the solderability requirements of J-STD-002A. Revision in effect as of this order shall apply.

Printed Wiring Boards furnished under this order shall be tested for solderability in the requirement of J-STD-003. Latest revision in effect as of the date of this order shall apply. One board from each lot shall be supplied for use as a solderability sample.

Clause 18 Traceability Required:
All requirements of QAF-1266 are included as part of this order.

Clause 19 No Longer Used

Clause 20 No Longer Used

Clause 21 First Article Inspection:
During the initial production of the article a First Article shall be performed IAW AS9102, using AS9102 forms. The supplier must list all drawing dimensions, locations and tolerances along with actual measurements as defined by the drawing. The completed AS9102 forms must accompany the shipment of parts.

Clause 22 Certificate of Calibration:
The calibration services shall provide a certificate of calibration for each item calibrated. The certificate must include the date of calibration, listed uncertainties, calibration due date, serial number of the equipment used in the calibration and a statement that all equipment/standards used are traceable to the National Institute of Standards and Technology (NIST). The certificate must also include the GE Aviation test number, model number and serial number of the item calibrated.

Clause 23 Statistical Process Control:
SPC shall be implemented and maintained as part of this purchase agreement. The supplier's SPC program shall be documented and include provisions for selection and identification of key characteristics and/or processes, statistically based control charting, demonstration of continuous improvement, management supervision, corrective action, training, and flow down to sub-tier supplier.

The requirements for and establishment of SPC key characteristics and/or key processes may be based on similar parts or processes.

Clause 24 Solder Mask:
Do not use UV Cured Solder Mask. Use of Semi-Matte Liquid Photo Imageable (LPI) Mask is permitted. Use of all other types of LPI Mask is prohibited.

Clause 25 Foreign Object Debris/Damage:
The supplier shall develop and maintain a Foreign Object Debris/Damage (FOD) Prevention Program to prevent introduction of foreign objects into any item delivered under this purchase order.

The supplier shall employ appropriate housekeeping practices to assure timely detection and removal of residue/debris generated, if any, during manufacturing operations and/or normal daily tasks. All occurrences of product rejections due to FOD shall be documented and investigated to determine the root cause of the FOD and implement actions to prevent any recurrence. The supplier shall determine if sensitive areas that may have a high probability for introduction of foreign objects should have special emphasis controls in place appropriate for the manufacturing environment. The supplier shall implement a FOD prevention program and shall provide initial and periodic FOD prevention awareness training programs. Whenever and/or whenever FOD entrapment or foreign objects can migrate, the supplier shall ensure that the applicable Quality Clause FOD requirements are flowed down to the supplier's sub-contractor at every tier. The FOD prevention program shall include Sellers periodic self-assessment.

Clause 26 Pure Tin:
Pure tin shall not be used as a base metal or as a plating material on solderable component leads unless approved in writing by the GE Aviation Buyer. This includes any parts classified as "ROHS Compliant", or otherwise containing "Lead-Free" finishes.

Clause 27 Printed Wiring Boards ("PWB"):
Two (2) microsection mounts prepared IAW IPC TM-650 shall be provided with the first shipment of each lot of Rigid PWBs delivered under this order. The mounts shall consist of one (1) each in the horizontal ("X") and vertical ("Y") axis taken from a representative production panel's test strips.

Clause 28 Special Flow-Down Provisions:
A. This is an Airbus or Airbus A380 Operator part. It is subject to the EASA Part 21A139 Quality System Requirements which include a Mandatory Occurrence Reporting process for notifying GE Aviation of any nonconformances related to the airworthiness of the products supplied on this purchase order. The EASA Quality System Requirements are detailed in GE Aviation S993, which is imposed on this purchase order.

B. This is a Sikorsky Aircraft Procurement. Parts shall be marked IAW the Buyer supplied drawing. The Certificate of Compliance shall contain the statement "This is a Sikorsky Aircraft Part".

C. This is a Lockheed Martin Aeronautics part. In addition to the clauses imposed on the purchase order, the supplier shall comply and flow down to sub-tier the Lockheed Martin (LM) Supplier Quality Requirements document Appendix Q8. This and all other LM Quality Clauses can be obtained at:
http://www.lockheedmartin.com/aerona
utics/materialmanagement/

Clause 29 Additional Purchase Order Requirements and Instructions:
See GE-LI QAF-1301.