900-0067-C02-

Cielo - Suppliers Quality Requirements - En
Index of contents

1. General .................................................................................................................. 3
2. Business Requirements ......................................................................................... 3
3. Requirements from the quality assurance system ................................. 4
4. Design control .......................................................................................................... 5
5. Acquisition ................................................................................................................ 5
6. Special Processes ...................................................................................................... 6
7. Special processes in the electronic industry .............................................. 7
8. Process control ........................................................................................................... 8
9. Control of measurement and test equipment ........................................... 9
10. Preserving and Delivering a product ........................................................ 10
11. Inappropriate product control ................................................................. 11
12. Attached documents ............................................................................................... 12
1. General

1.1. This document defines the practical quality Al Cielo Inertial Solution demands of its suppliers (Will be defined as “Al Cielo” as follows.)

1.2. Al Cielo's demands include standards, engineering information, and process specification the supplier must meet. The supplier is required to always use the latest version of the specifications or the standards regarding the date the order is due.

1.3. It is the responsibility of the supplier to comply a documented and specified review, to define supporting processes, to ensure and perform application. Specific exceptions demand an official approval from Al Cielo.

1.4. To customers and representatives of Al Cielo, the Government and Law enforcement have the right to have free access to the supplier's facilities or the facilities of his contractors, anywhere the manufacturing and testing processes are being performed for Al Cielo's order.

2. Business Requirements

2.1. Al Cielo reserves their right to cancel an order that has not been approved in writing by the supplier.

2.2. Al Cielo reserves their right to delay supplies up to 30 days before the date has been approved by the supplier.

2.3. Al Cielo shall be entitled to demand Indemnification of damages in case of delay in supply in relation to the approved delivery date. Any supply from the supplier to Al Cielo will be backed
by a comprehensive warranty for a period of no less than 12 months on all the supplied items.

2.4. All goods supplied are to be without any export limitations and/or end-use/end-user limitations.

2.5. For Israeli suppliers only: Orders stated in foreign currency will be paid per the exchange rate at date of invoice.

2.6. In any event in which the raw material supplied to the supplier/manufacturer by Al Cielo is wasted, if due to incompatible parts or any other event that is not in the responsibility of Al Cielo, the manufacturer shall bear the costs for the wasted material.

2.7. The specified conditions in section 2 above are general and in addition to any condition written on the order/specific agreement. In any way of contradiction between the conditions above to those written on the order/specific agreement, the conditions of the order/specified conditions will overcome the general conditions.

3. Requirements from the quality assurance system

3.1. The supplier will manage the quality assurance system according to the AS 9100 standard or ISO 9001, the supplier will immediately inform any change in his commission to AS9100 and/or ISO 9001.

3.2. The supplier is required to save and store the documents for a period of seven years from the termination of the contract. By requirement, the supplier will hand a copy from every document related to an order between the supplier and AL Cielo in seven days after receiving the application.
3.3. In any case of contradiction between the documents/requirements of the supplier and the documents/requirements of Al Cielo, documents of Al Cielo will be preferred.

4. Design control

4.1. The supplier will initiate middle control according to AS 9100 standards and this document. In orders including middle, the supplier is required to approve the middle in front of Al Cielo. When ready, Al Cielo reserves the right to take part in any development process.

4.2. The responsibility of the design will be valid for a period that is no less than 10 years since the first date of supplying the first item.

5. Acquisition

5.1. The supplier will acquire the materials, processes and services that are not supplied by Al Cielo from verified sources only.

5.2. Special attention is required to avoid acquiring fake materials and components. Components must be purchased only from the original component manufacturer (OCM) or the original equipment manufacturer (OEM) or the authorized vendor by the manufacturers and which has a traceable pedigree from the production process. If it is not possible to purchase a material or component from a certified source, the supplier must verify the authenticity of the component and its propriety according to standard AS6174/AS5553 and in subject of Al Cielo’s approval.

5.3. The supplier will deliver to all its sub-suppliers all applicable Al Cielo requirements (flow down).
5.4. It is the responsibility of the supplier to perform an audit on products or processes. The frequency and content of the audit will be determined by the supplier. The minimum audit required is an examination of the compatibility of the paperwork of the product or process with the demand.

5.5. The supplier is responsible for complying with storage requirements for shelf products purchased according to the manufacturer's specifications.

5.6. The supplier will update the customer within a reasonable period of time on an item that is intended to be deducted from supply or production. A reasonable period of time is the time in which the client can stock up items for Last Buy or find a fitting replacement for the deducted item, the earliest of both.

6. Special Processes

6.1. Special processes are processes whose output cannot be verified by subsequent measurement.

6.2. To avoid late identification of defects, the supplier is responsible to define validation processes in any process of the production. The method and frequency of validation will be defined by the vendor and a declaration of the validity of the process will be sent to Cielo together with the product/service or on a regular basis after the re-validation process.

6.3. Special processes will be performed only by qualified suppliers (for the specific process) by one of the following options:

(1) Supplier approved by Al-Cielo. A list of approved sources is defined by "Cielo Approved Process Sources - 913-0068".
(2) Supplier approved by Rafael ("Rafael Advanced Defense Systems Ltd."). A list of approved sources is defined in the CatalogItems document that can be obtained from the Rafael suppliers' portal (AML system - "Processes").

- The list of approved sources can be obtained from the Al-Cielo QA Manager.
- In addition, it is possible to rely on a valid process certification of the subcontractor performing the process.

6.4. Employees employed in special processes shall be trained and certified to the relevant standards by a qualified instructor.

6.5. List of special processes:

(1) Heat treatment
(2) Coating and painting
(3) Production of composite parts and adhesives
(4) Non-destructive testing

7. Special processes in the electronic industry

7.1. Employees engaged in electronic manufacturing processes including card development, PCB design, PCB production, name cards, inspection, and usability testing will be trained and certified to the relevant IPC standards by a qualified instructor.

7.2. List of processes:

(1) Soldering
(2) PCB manufacturing
(3) Electronic cards Assemblies manufacturing and Conformal coating
(4) ESS – Environmental Stress Screening

7.3. List of main standards:

(1) “Requirements of Soldering of Electrical and Electronic Assemblies” – Class 3, J-STD-001
(2) “Accepting of Electronic Assemblies” – Class 3, PIC-A-610
(3) “Requirements and Acceptance for Cable and Wire Harness Assemblies” – IPC620 Class 3
8. Process control

8.1. Pre-production audit - Orders for the production of electronic cards/Assy. requires customer approval for the production process (before actual production begins). The supplier will perform First Article Inspection (FAI) – according standard AS9102, the FAI report will be sent to Al Cielo for approval on magnetic media or E-mail. The original report will be kept by the supplier.

8.2. In-process audit: The supplier is required to define process control and measurement processes to prevent late detection of deviations.

8.3. Final audit: as a minimal requirement, the supplier must make a sampling plan. The supplier is required to check 100% of the measurements/values required in the final audit on a sample of the produced batch. The size of the sample will be defined by ANSI/ASQ Z1.4 AQL = 1.0 level III, a reference table appears in Appendix A.

8.3.1. In the event that an item is found to exceed one or more of the sampling quantity to a certain value, the whole batch shall be examined only for the purpose of the requirement found exceeding the requirements.

8.3.2. A final inspection must be documented and traceable so that it will be possible to match the measurement data with the part number, so each package must be packed in a separate bag and marked with the number corresponding to the audit report. A copy of the report will be sent to Al Cielo with the parts/components.
8.4. From time to time Al Cielo will perform random inspections. In case of findings of a material that does not fit the requirements of Al Cielo, Al Cielo will considerate to examine the batch by himself or by a third party, when the supplier will be charged for this inspection.

8.5. The supplier is required to keep trace between the final product to its production processes and the raw material used during the production of these products. (By supplier or the sub-contractors.)

9. Control of examination, measurement and testing equipment

9.1. Control of monitoring and measurement equipment will be performed by the supplier in accordance with the AS 9100 standard and the requirements of this document.

9.2. All equipment used for a product inspection shall be calibrated and verified by an accredited calibrations laboratory.

9.3. The equipment chosen for testing must be in the accuracy which is enough for the tolerance of the testing measure. The result of the measurement will be counted as PASS only if it withstands the tolerance of the measurement in correlation with the tolerance of the willingness of the tool. The willingness is defined under the equipment specification. The resolution of the display does not testify for high or low willingness.

9.4. Tools supplied by the client for production or testing will go through an auditory period according to the routing card supplied by the client. A copy of the auditory report will be transferred to Al Cielo right after the completion of the audit. Do not use a tool that has expired.
10. Preserving and delivering a product

10.1. As applicable, the preservation shall include identification, transportation, packaging, cooling, storage and the taking of adequate measures for the protection and preservation of the product during storage and delivery.

10.1.1. Compliance with temperature and humidity requirements in storage according to the manufacturer’s specifications.

10.1.2. The parts shall be packed in such a way as to prevent the penetration of FOD corrosion and mechanical damage.

10.1.3. The following details shall be recorded on the package: supplier’s name, customer order number, batch number, customer part number and quantity of products in the package.

10.2. On materials/products limited to shelf life, an expiration date shall be specified on each packaging including production date and special storage conditions if required. Materials/items with shelf life limitations shall be provided with not less than 2/3 of their shelf life.

10.3. Each batch will contain material/components that are all from the same production batch. Exceptions from this requirement must meet approval from Al Cielo.

10.4. Requirements for electronic components/cards:

10.4.1. Meeting storage temperature and moisture requirements set by the manufacturer.
10.4.2. Electronic components with long legs coming out from the bottom of the component (such as capacitors, transistors, etc.) will be packed in protective enclosures.

10.4.3. For electronics components (including PCBs), the age of the product is important and therefore the maximum approved age for supply is set:
   • "Active" components will be provided for up to 3 years from the date code (date code).
   • "Passive" components up to 4 years from date of manufacture (Date code).
   • PCB - up to one month from date of manufacture (Date code).

10.4.4. To allow proper storage of PCB, the cards must be packed with a vacuum seal. The packaging should be appropriate in terms of WVTR (Water Vapor Transmission Rate), contain a desiccant and meet the J STD 033 standard.

10.4.5. The packaging is required to be ESD protected.

11. Inappropriate product control

The supplier will report to the customer any unusual product (which does not comply with the requirements) using the MRB form. The customer's MRB/Survey Committee is responsible for determining the designation of inappropriate products. Attach an MRB tag containing the MRB number provided by the customer.
12. Attached documents

The supplier must supply the following documents with each process/product:

(A) Certificate of Conformance - Certificate of conformity of the manufacturer of the item or process supplier (the certificate shall include the production order).

(B) "First item inspection" report – FAI as detailed in "Process control"

(C) Final inspection report – dimensional testing – as detail in "Process control"

(D) ATR – Acceptance Test Report for complex systems (for example: accelerometer).

(E) ATR – Acceptance Test Report for optic components (such as: Passive components, fibers, laser diode, wafers).

(F) MRB report copies (When applicable).

(G) Calibration certificate (measurement equipment).

(H) Certificate of Special Process Validation
### Appendix A

#### SAMPLE SIZE CODE LETTERS

<table>
<thead>
<tr>
<th>Lot Size</th>
<th>I</th>
<th>II</th>
<th>III</th>
<th>S1</th>
<th>S2</th>
<th>S3</th>
<th>S4</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 to 8</td>
<td>A</td>
<td>A</td>
<td>B</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>9 to 15</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>16 to 25</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>A</td>
<td>A</td>
<td>B</td>
<td>B</td>
</tr>
<tr>
<td>26 to 50</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>A</td>
<td>B</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
<td>51 to 90</td>
<td>C</td>
<td>E</td>
<td>F</td>
<td>B</td>
<td>B</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>91 to 150</td>
<td>D</td>
<td>F</td>
<td>G</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>D</td>
</tr>
<tr>
<td>151 to 200</td>
<td>E</td>
<td>G</td>
<td>H</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
</tr>
<tr>
<td>281 to 300</td>
<td>F</td>
<td>H</td>
<td>J</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
</tr>
<tr>
<td>501 to 1200</td>
<td>G</td>
<td>J</td>
<td>K</td>
<td>C</td>
<td>E</td>
<td>F</td>
<td>G</td>
</tr>
<tr>
<td>1201 to 3200</td>
<td>H</td>
<td>K</td>
<td>L</td>
<td>C</td>
<td>E</td>
<td>F</td>
<td>G</td>
</tr>
<tr>
<td>3201 to 10000</td>
<td>J</td>
<td>L</td>
<td>M</td>
<td>C</td>
<td>D</td>
<td>F</td>
<td>G</td>
</tr>
<tr>
<td>10001 to 35000</td>
<td>K</td>
<td>M</td>
<td>N</td>
<td>C</td>
<td>D</td>
<td>F</td>
<td>H</td>
</tr>
<tr>
<td>35001 to 150000</td>
<td>M</td>
<td>N</td>
<td>P</td>
<td>D</td>
<td>E</td>
<td>G</td>
<td>J</td>
</tr>
<tr>
<td>150001 to 500000</td>
<td>N</td>
<td>Q</td>
<td>R</td>
<td>D</td>
<td>E</td>
<td>H</td>
<td>K</td>
</tr>
</tbody>
</table>

ANSI/ASQ Standard Z1.4 - 2008

#### SINGLE SAMPLING PLANS FOR NORMAL INSPECTION

<table>
<thead>
<tr>
<th>Sample Size Code Letter</th>
<th>Sample Size</th>
<th>Acceptable Quality Levels (Normal Inspection)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.065</td>
<td>0.10</td>
</tr>
<tr>
<td>A</td>
<td>Ac</td>
<td>Re</td>
</tr>
<tr>
<td>B</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>80</td>
<td></td>
</tr>
<tr>
<td>L</td>
<td>125</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>315</td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>500</td>
<td></td>
</tr>
<tr>
<td>Q</td>
<td>600</td>
<td></td>
</tr>
<tr>
<td>R</td>
<td>1250</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>2000</td>
<td></td>
</tr>
</tbody>
</table>

↑ Use first sampling plan above arrow, if sample size equals or exceeds lot or batch size, do 100 percent inspection.
↓ Use first sampling plan below arrow

Ac : Acceptance number  Re : Rejection number
### Revision History:

<table>
<thead>
<tr>
<th>Rev</th>
<th>Date</th>
<th>Prepared by</th>
<th>Approved by</th>
<th>The Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>A01</td>
<td>12/11/2017</td>
<td>Avi Hofi</td>
<td>ECO 1061</td>
<td>Initial version</td>
</tr>
<tr>
<td>B01</td>
<td></td>
<td></td>
<td></td>
<td>No change. Rev B was skipped in order to match the document in Hebrew</td>
</tr>
<tr>
<td>C01</td>
<td>02/05/2018</td>
<td>Avi Hofi</td>
<td>ECO 1092</td>
<td>Expanding the list of qualified suppliers for special processes Para. 6.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Remove Section - Process Control – PRR</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Update Section 9 – Calibration</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Clarify Shelf Life Requirements. Para. 10</td>
</tr>
<tr>
<td>C02</td>
<td>11/11/2019</td>
<td>Avi Hofi</td>
<td>ECO 1232</td>
<td>• Add Certificate for Special Process Validation- Para. 6.2 &amp;12</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Pre-production inspection for electronic Assy-. Para. 8.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Clarify general requirements for electronics - Para. 10.4,3</td>
</tr>
</tbody>
</table>