

Quality Assurance Clauses

CLAUSE	DESCRIPTION	REVISION DATE
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CLAUSE 1	QUALITY SYSTEM REQUIREMENTS	10/10/18
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- A) Sampling procedures, when used, must comply with ANSI/ASQC Z1.4 or ANSI/ASQC Z1.9 (latest revision) or equivalent and must have an Accept on Zero plan.
- B) The supplier must maintain a "Lot Control System" and traceability records as applicable.
- C) The supplier's Quality System must follow AS9100 / ISO9001.
- D) The supplier is required to notify ABT immediately if non-conforming product was inadvertently shipped to ABT.
- E) The supplier is not allowed to ship non-conforming product dispositioned as USE AS IS or repaired without prior approval from ABT.
- F) The supplier is required to flow down to all sub-tier suppliers all applicable requirements in the purchasing documents, including Key Characteristics on applicable drawing(s).
- G) Verification of purchased material by the supplier at a sub-tier supplier's facility does not absolve them from providing acceptable material. Such material must be submitted and accepted to standard inspections and testing by ABT.

CLAUSE 2	CERTIFICATION	12/15/24
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The supplier shall provide with each shipment a Certificate of Conformance signed with an original signature and title of signer. Certifications must show the following items:

- Part number and revision
- Total quantity of shipment
- Original Equipment Manufacturer (OEM) name
- Lot Code
- Date Code
- Country of Origin

Unless otherwise specified, copies of the Original Equipment Manufacturer certification is required. In addition, the supplier must certify to A through H below **when applicable**:

- A) When special processes are required (heat treat, welding, etc.), the certification must reflect applicable specification and current revision.
- B) When special inspection processes are required (magnetic particle/penetrant inspection, x-ray, etc.), the certification MUST indicate the quantity in the lot, quantity inspected, and the inspection results OR a test report with the applicable information must accompany the certification. NOTE: X-ray film, when applicable, must be forwarded to ABT for evaluation.
- C) When shipping raw materials with chemical and/or mechanical properties, such as ferrous and non-ferrous metals, aluminum castings, rubber, and adhesives, the certification must reflect chemical analysis and/or results of the testing for mechanical properties OR the information must be on a separate report accompanying the certification.
- D) When drawings have Supplementary Quality Assurance Provisions / Quality Assurance Requirements (SQAP/QAR), the certification requirements will be met and the test data will be supplied with each shipment, or the certification will have a statement such as, "The material supplied in this shipment has met the requirements of the SQAP/QAR (number) and all applicable data is on file and available upon request."
- E) Proof of qualification for special process performed by qualified personnel.
- F) Country of Origin and Harmonized Tariff Schedule (HTS) Codes must be provided for all shipments regardless of ship destinations. CBP Form 434 or Form 434 compliant documentation is required.
- G) When Grade 5, Grade 8, or Metric Standard (10.9) hex head and socket head fasteners are supplied, the original Certificate of Analysis shall be furnished with each shipment that documents the actual material chemistry, core hardness, or tensile strength and finish.
- H) Painted items must have a Certificate of Analysis that reflects the part number of the material, manufacturer, and batch number of the material used in the process. Supplier must also supply record of the paint thickness.
- I) Items required to comply with DFARS 252.225-7009 must have a certificate to show compliance per Clause 19.

CLAUSE 3 RIGHT TO ACCESS BY ABT GOVERNMENT/CUSTOMER/REGULATORY AUTHORITIES**07/27/16**

All material covered by this purchase order is subject to surveillance inspection by ABT, GOVERNMENT, CUSTOMER, and or REGULATORY AUTHORITIES. This requirement may include surveillance of the product or the supplier's Quality System, procedures, and facilities. The supplier shall provide access to all facilities and equipment, supply data, and perform test as required by the applicable drawings, specifications, and inspection instructions under the surveillance of ABT Quality Assurance Representative, GOVERNMENT/CUSTOMER and REGULATORY AUTHORITIES, as requested. The surveillance inspection will be requested in advance in writing by ABT.

CLAUSE 4 SOURCE INSPECTION (ON SITE)**07/27/16**

Material covered by this purchase order is subject to inspection at the supplier's facility by ABT prior to shipment. The supplier shall furnish the necessary facilities and equipment, supply data, and perform tests as required by the applicable drawings, specification, and inspection instructions under the surveillance of ABT Quality Assurance Representative, as requested. A five-day notice must be given to the ABT buyer as to when the material will be ready for inspection to allow for scheduling and on-site visit.

CLAUSE 5 FIRST ARTICLE INSPECTION**12/15/24**

First Article Inspection (Qualification) is required on the first lot produced against this Purchase Order. This inspection will be performed by the supplier in accordance with AS9102 current revision. All supporting documentation including raw material certification, a scored drawing, photographs of the part and part marking, and a completed FAI checklist must be supplied with the first shipment. The first article inspection must meet all requirements of the purchase order. Once the first lot is accepted, the supplier shall make NO CHANGES to the process or material used without written authorization from ABT. Supplier must record all actual measurements and information must be recorded in the same unit of measure (i.e., Imperial or Metric) as the drawing.

The First Article Inspection will need to be resubmitted if any of the following events occurs:

1. A lapse in production of more than two (2) years.
2. A change to sub-tier supplier, processes, inspection methods, location of supplier's facility, tooling, or materials that can potentially affect form, fit, or function.
3. A natural or man-made event which may affect the manufacturing process.
4. A change in design affecting form, fit, or function of the part.
5. A change in numerical control program or translation to another media that can potentially affect form, fit, or function.

This clause does not apply to industry standard parts such as AN, NAS, MS, COTS parts, etc.

The use of Net Inspect for Honeywell and Raytheon suppliers is mandatory. ABT will provide access and training when requested.

CLAUSE 6 DIMENSIONAL/WELD SAMPLES**07/27/16**

- A) A dimensional sample of the material produced against this purchase order is required prior to production. Inspection of this sample will be arranged by the ABT buyer.
- B) Forgings, castings, or molding: a sample from each cavity (unless otherwise specified) will be produced and inspected by the supplier. The dimensional report, along with the sample(s) will be submitted to ABT Quality Assurance for inspection and approval. The production run will not commence until approval has been given by ABT.
- C) Welded Items: items that contain welds are required to be qualified prior to production; a qualification package must be presented two (2) weeks prior to producing and shall contain a minimum of the following items:
 - a. Weld Procedure Specification (WPS)
 - b. Procedure Qualification Record (PQR) with accompanying test results.
 - c. Welder Qualification Records
 - d. A weld map, detailing which WPS(s) apply to which weld joints. Assemblies welded to MIL specs, AWS or SX Specs may require weld samples to be submitted. One weld sample for each weld, samples must be identified by the part number and for the joint location. Notification to the ABT buyer prior to the fabrication of the samples.

CLAUSE 7 SUPPLIER FURNISHED INSPECTION AND TEST DATA**07/27/16**

A copy of the supplier's actual recorded inspection and test results for the material produced against this purchase order must be provided to ABT for the product delivered for each shipment. The data must comply with the requirements of the applicable drawing and/or specification. The data recorded must have positive identification with the product being supplied with that shipment. Unless otherwise specified on the drawing, this clause applies only during First Article Inspections.

CLAUSE 8 TOOL, GAGE, AND MEASURING EQUIPMENT**12/01/03**

The supplier shall maintain a system that will ensure adequate controls over tools, gages, measuring, and testing equipment that will be used for product acceptance (this includes a system for periodic recall for calibrations). Calibrations must be traceable to the National Institute of Standards and Technology (NIST). NOTE: Tools, gages, measuring, and testing equipment supplied by ABT must be maintained in accordance with that system as well.

Calibration and Test Facilities

Calibration and test facilities shall be certified to ISO/IEC 17025 when required by customer.

CLAUSE 9 GOVERNMENT/CUSTOMER SOURCE INSPECTION (ON SITE INSPECTION)**07/27/16**

When Government or Customer Source Inspection is required, it will be stated in the body of the purchase order, along with the pertinent instructions.

CLAUSE 10 GOVERNMENT/CUSTOMER/REGULATORY AUTHORITIES SURVEILLANCE**07/27/16**

During the performance of this order, the supplier's Quality System and manufacturing processes are subject to review verification and analysis by authorized Government/Customer Representatives and Regulatory Authorities.

CLAUSE 11 NO CHANGE CLAUSE**07/27/16**

Supplier shall make no change in design, manufacturing, or assembly processes or source of supply, after approval of the first production test item or after acceptance of the first complete test item without the written approval of the buyer.

CLAUSE 12 SHELF-LIFE MATERIALS/CHEMICALS**03/20/23**

- A) The Date of Manufacture and Shelf-Life Expiration Date shall be clearly marked on the item and/or packaging adjacent to the batch / lot number identification. Eighty percent (80%) or the Shelf Life is required upon receipt. Certifications must reflect the shelf-life expiration information.
 - B) Any chemical material shipped must have a copy of the Safety Data Sheet (SDS) included with the shipment.
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CLAUSE 13 MATERIAL CERTIFICATION**07/27/16**

The supplier shall provide certification for the materials used in the manufacturing process. In addition, supplier's Certificate of Conformance will reflect what products were manufactured/processed using this material. Unless otherwise specified on the drawing, this clause applies only during First Article Inspections.

CLAUSE 14 LOT/DATE CODE CONTROL**07/27/16**

Components must be supplied in one lot. Components being supplied with multiple date codes must have a date code within a 12-month period. The date code shall be recorded on the Certificate of Conformance.

CLAUSE 15 QUALITY RECORDS**09/05/18**

- A) Quality records shall be maintained in a manner to ensure they remain legible, readily identifiable, and are easily retrievable. Quality records shall be maintained for a period no less than the current calendar year + 10 years from the date of purchase. Said records shall be available for review by ABT, ABT's customers, and/or any applicable regulatory authorities upon request. Disposal of records shall be done in a manner that shall prevent reconstruction.
- B) The commodities/technical data shared with the supplier are controlled under the United States Export Regulations and may not be exported to a foreign person, either in the US or abroad, without the proper authorization of the U.S. Department of State of the U.S. Department of Commerce. Please contact ABT for commodity classification and jurisdiction.

CLAUSE 16 FOREIGN MILITARY FINANCING FUNDED**02/04/20**

All material covered by this purchase order is subject to US Government requirements regarding Foreign Military Financing (FMF) Funding, including:

- A) Authorized representatives of the Government of the United States shall have access to and the right to examine, for a period of three (3) years following the final payment to the supplier, any of the subcontractor's directly pertinent books, documents, papers, or other records involving transactions related to the subcontract.
- B) All material covered by this purchase order is subject to the Certification requirements specified on PRF-003, the ABT supplier Certification & Agreement for Contracts Involving Foreign Military Financing.
- C) Material being supplied against this purchase order is required to be supplied from USA made goods. If USA made goods are not available, material cannot be manufactured or procured from the host nation. Host nation is listed on the purchase order.

CLAUSE 17 PACKAGING**08/23/21**

ESD sensitive items shall be packaged in accordance with EIA-STD-625 and J-STD-033 guidelines.

- A) Moisture sensitive non-hermetic sold state Surface Mount Devices (SMD) shall be handled, packaged, labeled, and shipped in accordance with IPC/JEDEC J-STD-020 and IPC/JEDEC J-STD-033. The applicable Moisture Sensitivity Level (MSL) as defined by the component manufacturer applies.
- B) Surface Mount Devices must be shipped on continuous piece Tape/Reel with minimum 6" lead and tail per reel. If Tape/Reel is not available, ABT approved JEDEC matrix IC trays sized 12.7" x 5.35" x .25" (322.6mm x 136mm x 6.35mm) may be used. If neither is available, contact your buyer.

CLAUSE 18 OBSOLESCENCE/END OF LIFE**07/27/16**

The supplier of the product delivered on this purchase order shall notify Amphenol Borisch Technologies Purchasing Department if one or any combinations of the following conditions exist:

- A) Products delivered are known to have Obsolescence or End of Life issues.
- B) The product delivered is currently no longer in production.
- C) Products delivered are nearing the end of their life cycle and are to be discontinued from manufacturing/processing within the next five (5) years.

CLAUSE 19 DFARS 252.225-7009**06/26/17**

Items furnished with a purchase order that contain a DPAS rating must comply with DFARS 252.225 Preference for Domestic Specialty Metals. Certification must reflect the material is compliant to DFARS 252.225-7009 and additional certifications must be furnished to show where the metals are obtained.

CLAUSE 20 HONEYWELL SPOC MANUAL REQUIREMENT

12/15/24

The supplier must adhere to the following SPOC requirements that can be found in the Honeywell Supplemental Purchase Order Conditions Manual.

SPOC Group Number	Individual SPOCs Invoked by SPOC Group
SPOC 001 Manufacturer with Design Authority	Sections 1.0 and 2.0, 100, 106, 124, 127, 128, 129, 130, 140, 142, 149, 154, 162**, 165, 200, 239, 267, 354, 418, 419, 420, 519**
SPOC 002 Manufacturer without Design Authority (may include Specification Control drawings that call out specific dimensions, processing methods, etc.)	Sections 1.0 and 2.0, 100, 106, 124, 127, 128, 129, 130, 140, 142, 149, 154, 162**, 165, 200, 239, 267, 354, 418, 419, 420, 519**

The Honeywell SPOC Manual is available at <https://www.borisch.com>. Suppliers are required to access this document to ensure compliance with Purchase Order requirements. Revisions of all applicable specifications and drawings are flowed down via Purchase order.

Special Process suppliers are required to certify to any applicable specifications listed on the customer drawing and include type, class, and current revision. If the specification(s) on the drawing has been superseded by another, that information is also required.

The SPOC does not apply to industry standard parts such as AN, NAS, MS, COTS parts, etc.

Honeywell Approved Sources

Suppliers with design responsibility for hardware supplied to Honeywell may use their own approved process suppliers provided the Honeywell supplier complies with the following:

Design and Development must be an element in their Quality Management System (Ref. AS9100 Section 7.3)

Supplier Control must be an element in their Quality Management System (Ref. AS9100 Section 7.4)

Certification of Conformance Requirements

Certifications shall include name or process source, specifications, and the most current revision letters used. The actual physical and chemical process and heat numbers as applicable shall be indicated. Certification of Conformance (C of C) must clearly state conformance to all specifications in their entirety, including type, class, grade, and material hardness values exactly as described from the drawing or BOM note, and embedded specification that contain specific acceptance criteria. All certificates of conformance must be signed by a designated supplier representative. Unless otherwise specified, purchased bulk raw material (sheet, strip, plate, wire, rod, bar, tubing, solder, powder, paint, oil, fluids, etc.) shall be supplied to the latest procurement specification. Original Equipment Manufacturer (OEM) certifications are also required, as applicable.

Honeywell First Article Submission

The use of Net Inspect to submit FAs with Honeywell as the end user is mandatory.