

## Quality Clauses

Code	Statement	Definition
100	DFARS 252-225: 7009 Restriction on Acquisition of Certain Articles Containing Specialty Metals	Purchased specialty metals and items containing specialty metals shall be in accordance with DFARS 252.225-7009.  DFARS 252.225-7009 (Supplement-Oct 2014)
101	Government Source Inspection	Government Source Inspection (GSI) is required prior to shipment from the supplier. Upon receipt of this Purchase Order, promptly notify the government representative who normally services your facility to allow for planning GSI. If a government representative does not normally service the facility, furnish a copy of this Purchase Order to the nearest DCMA representative. In the event the representative or office cannot be located, notify the Saab buyer immediately.
200	Quality Management System	The seller shall maintain a Quality Management System certified to ISO 9001, AS9100, or be approved by a Saab Quality representative.
300	Certification of Calibration	A Certificate of Calibration from an ISO17025 or ANSI/NCSL Z540-1 accredited institution traceable to NIST shall be furnished with the shipment for each item.
301	Certificate of Conformance (C of C)	Parts supplied to this purchase order shall be accompanied by a Certificate of Conformance. Certificates must include the following:  (1) Saab PO Number, PO Line, Part Number, Revision, Description  (2) Traceability Identifier (Examples include: Serial Number, Date Code, Lot/Batch/Heat Number)  (3) Quantity Shipped  (4) Statement of Work (SOW) document number (if applicable)  (5) Approved Request for Deviation/Waiver document number (if applicable)  (6) Supplier statement of conformance to purchase order and specification/drawing requirements  (7) Date and authorized signature of responsible supplier representative
302	Certificate of Physical and/or Chemical Analysis	Each shipment shall include certificate(s) of compliance to material physical and/or chemical properties and shall reference physical properties and/or chemical composition, lot/batch number, list the parameters tested, and the results obtained. Certificate(s) shall be signed by the responsible supplier representative.
303	Special Process (Non- NADCAP) Certification	Each shipment shall include, certification(s) identifying the process, part number, revision, purchase order number, process specification number, identification of process method used, acceptance criteria, and evidence of



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		acceptance. Certifications must reflect applicable document revisions. When parts are serialized, the serial numbers shall appear on the certification(s). Certificate(s) shall be signed by the responsible supplier representative.
304	NADCAP Special Process Certification	Only Special Process suppliers approved by NADCAP (National Aerospace and Defense Contractors Accreditation Program) shall be used. Each shipment shall include, certification(s) identifying the process, part number, revision, purchase order number, process specification number, identification of process method used, acceptance criteria, and evidence of acceptance. Certifications must reflect applicable document revisions. When parts are serialized, the serial numbers shall appear on the certification(s). Certificate(s) shall be signed by the responsible supplier representative.
305	Raw Materials Traceability	All items manufactured under this PO shall be traceable to the raw materials used. Supplier traceability records shall be made available upon request.
400	Shelf Life	Shelf life requirements including date of manufacture and useable life shall be marked on each container. Product supplied to Saab shall have a minimum of 75% useful shelf life.
401	Counterfeit Parts Avoidance	<p>Compliance to DFARs 252.246-7007 "Contractor Counterfeit Electronics Part Detection and Avoidance System", AS5553 "Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition", and AS6174 "Counterfeit Materiel; Assuring Acquisition of Authentic and Conforming Materiel" is required. Components and hardware parts shall be procured only through Original Equipment Manufacturers (OEMs) / Original Component Manufacturers (OCMs) or their franchised dealer or distributors.</p> <p>(1) The Supplier shall verify the procurement source and associated certifying paperwork.</p> <p>(2) Appropriate incoming inspection test methods shall be used to detect potential counterfeit parts and materials.</p>
402	Part Obsolescence	<p>(1) On a best effort basis, the supplier agrees to perform an obsolescence analysis upon acceptance of Saab PO.</p> <p>(2) Supplier shall provide end of life (EOL) notification, within 30 days of discovery, when a component or material is no longer in production by the manufacturer. The purpose is to keep Saab informed of potential component or material obsolescence. The supplier shall provide documentation describing the obsolescence/EOL plan to Saab. This can include a onetime purchase of all EOL type material, the qualification of an alternate supplier/item, or a re-design of the affected assembly.</p>
403	Dimensional Inspection Data	(1) Seller shall provide Dimensional Inspection Data with each shipment for goods furnished under this contract showing conformance with drawing and other contract requirements. Data shall consist of records of actual readings taken during in-process and/or final inspection of each part, with the dimension



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		<p>and its tolerance noted. No out-of-tolerance measurements shall be accepted unless a Saab Supplier Deviation Waiver was processed and accepted by SDAS Quality Assurance</p> <p>(2) Seller shall identify the contract number, part number, revision number, and when applicable, serial number on each inspection data sheet. Each inspection data sheet shall be signed and dated by the Management Representative responsible for Seller's inspection activity.</p>
404	First Article Inspection (FAI) and Delta (DFAI)	The supplier, in accordance with the latest revision of SAE AS9102, shall conduct a First Article Inspection (FAI). A ballooned drawing identifying each characteristic accompanying form 3 is preferred. A copy of the FAI shall be included with each shipment.
405.1	Printed Circuit Board/Assembly (PCB/PCBA), Class 2 Workmanship/Acceptability Requirement	<p>The following acceptability criteria shall apply:</p> <p>(1) Printed Circuit Boards (PCB) "unpopulated," shall be in accordance with IPC-A-600, Class 2</p> <p>(2) Printed Circuit Board Assembly (PCBA) "populated", shall be in accordance with IPC-A-610, Class 2;</p> <p>(3) Requirements for Soldered Electrical and Electronic Assemblies shall be in accordance with ANSI J-STD-001, Class 2</p>
405.2	Printed Circuit Board/Assembly (PCB/PCBA), Class 3 Workmanship/Acceptability Requirement	<p>The following acceptability criteria shall apply:</p> <p>(1) Printed Circuit Boards (PCB) "unpopulated," shall be in accordance with IPC-A-600, Class 3</p> <p>(2) Printed Circuit Board Assembly (PCBA) "populated", shall be in accordance with IPC-A-610, Class 3</p> <p>(3) Requirements for Soldered Electrical and Electronic Assemblies shall be in accordance with ANSI J-STD-001, Class 3</p>
407.1	Cable and Wire Harness Assemblies, Class 2 Workmanship/Acceptability Requirement	<p>The following acceptability criteria shall apply:</p> <p>(1) Cable and Wire Harness Assemblies shall be in accordance with IPC/WHMA-A-620, Class 2</p>
407.2	Cable and Wire Harness Assemblies, Class 3 Workmanship/Acceptability Requirement	<p>The following acceptability criteria shall apply:</p> <p>(1) Cable and Wire Harness Assemblies shall be in accordance with IPC/WHMA-A-620, Class 3</p>
408	Saab Source Inspection	Source inspection at the manufacturer's facility will be at Saab's discretion and determined prior to shipment of product. Seller must notify buyer at least 10 calendar days in advance of shipment and provide all required documentation for review.



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409	Hazard Materials/Safety Data Sheets (SDS)	<p>Prior to shipment to Saab, the supplier shall provide appropriate Safety Data Sheet(s) [SDS] in Global Harmonized System [GHS] format. Additionally, items containing hazardous material(s) listed in Appendix A of FED-STD-313 shall be appropriately labeled.</p> <p>FED-STD-313 (Assist Quick Search)</p>
410	Electrostatic Discharge Sensitive (ESD)	<p>Components on this order are susceptible to damage caused by static electricity and are considered electrostatic discharge sensitive (ESDS). The supplier shall implement an ESD control program in accordance with ANSI/ESD S20.20 or equivalent. Component packaging shall be either conductive or static dissipative and shall identify the components as ESDS.</p>
411	Identification, Preservation, Packaging/Packing and Foreign Object Debris (FOD)	<p>Shipments to Saab must be packaged to avoid damage and deterioration, and must be shipped to the address specified on the PO. Packaging shall be in accordance with good commercial practices (Ref: ASTM D3951) unless otherwise specified. Each box or container, and packing slip, shall be labeled and have, at a minimum, the following information:</p> <ul style="list-style-type: none"> <li>(1) Part number and revision</li> <li>(2) PO number and line Item</li> <li>(3) Quantity</li> <li>(4) Manufacturer's identification</li> </ul> <p>The Supplier shall assure that devices, components and materials delivered under this contract are free of Foreign Object Debris (FOD), and shall employ prevention practices to keep FOD, large or small, from the product and packaging.</p>
412	MRB Authority and Supplier Deviation/Waiver Request	<p>The supplier does not have MRB authority to accept or repair non-conforming product. Nonconformances on final deliverable product to the purchase order, drawing, specifications or applicable documents must be submitted to Saab on a Supplier Request for Waiver form (SF-0215) through the Saab Buyer for Quality Engineering approval prior to shipment.</p> <p>Supplier Request for Waiver (SF-0215) Note: would like a link to the proper form.</p>
413	Serialization of Sensor Systems Assemblies	<p>The supplier shall assign serial numbers to each delivered PO item. Serial numbers shall be marked for each item in a legible, permanent fashion. Serial Numbers shall not be duplicated and shall provide an audit trail to material, fabrication, assembly, inspection, test, and certification documents.</p>
414	Test Reports	<p>Functional and/or qualification test results listing test procedure used, each parameter tested, and actual readings taken during these tests are required with</p>



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		<p>the delivery of the material covered by this PO. These reports shall include the following information:</p> <p>(1) Part Number</p> <p>(2) Part Revision</p> <p>(3) Traceability Identification (Examples include: Serial Number, Date Code, Lot/Batch/Heat Number).</p> <p>The test data shall be maintained by the supplier for a minimum of 10 yrs, unless otherwise specified.</p>
415	Fiber Optic Inspection	<p>Fiber optic connectors shall be inspected per IPC-A-640 at 200x to 400x magnification, after final assembly and acceptance testing, before shipment. Fiber optic connectors shall be cleaned per IPC-8497-1, such that contaminants that are removable are cleaned from the end face. Clean protective caps shall then be applied. Traceable digital inspection images for each connector on each unit of finished product at no less than 200x magnification shall be provided to Saab.</p>
416	Prohibited Materials	<p>Items on this purchase order shall conform to RoHS Directive 2011/65/EC.</p>
417	Failure Analysis Reports	<p>Supplier shall provide a failure analysis report identifying the failure mode and potential root causes. These reports shall include the following information:</p> <p>(1) Part Number</p> <p>(2) Part Revision</p> <p>(3) Traceability Identification (Examples include: Serial Number, Date Code, Lot/Batch/Heat Number).</p>