



Corporate Document

Standard Operating Procedure

Quality Clauses

Document Number

NT104

Revision: C

Original Author: James Cahill

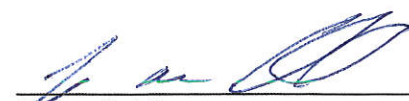
Process Owner: James Cahill

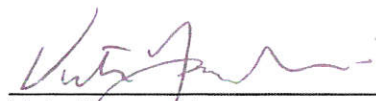
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# Quality Clauses

Rev	Change Description	Changed By	Release Date	Effective Date
A	Initial Release	J. Cahill	9/1/2016	9/1/2016
B	Updated Table 1-4, added 199x, updated 299x and 399x	J. Cahill	9/15/2016	9/15/2016
C	Added Quality Clause 1x, 1a, 1b, 1c Replaced 306 with new 306x and 306a, and created new 307x and 307a Updated 399a table	J. Cahill	10/27/2016	10/27/2016

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### Quality Clause Descriptions

The Following 'STD' Quality Clause has been invoked for all purchase orders.  
It contains sub-clauses 'a' - 'z', and all have been invoked.

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The Following 'Quality Clauses' apply when invoked per the 'Quality Clause' Tables,  
and also for 'Additional Quality Clauses' invoked for the Purchase Order Line Items.

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## Definitions

**BUYER**..... NEO Tech  
**SELLER** ..... Purchase Order recipient  
**OCM**..... Original Component Manufacturer

## Quality Clause Tables

The following four 'Quality Clause' Tables are shown on the following pages:

**TABLE 1** '**Commercial-Off-The-Shelf (COTS)**' ..... Page 4  
**SELLER = OCM or Franchised Distributor**

- Electronic Components / Parts
- Hardware
- Manufacturing Supplies
- Office Supplies

**TABLE 2** '**Commercial-Off-The-Shelf (COTS)**' ..... Page 5  
**SELLER = Independent or Non-Franchised (Broker)**

- ICs
- Discretes
- Connectors
- Hardware

**TABLE 3** '**Make-To-Print**' ..... Page 6

- PWB (Bare Board)
- PCB Assembly
- Substrates
- Electronic Components / Parts
- Manufacturing Supplies
- Cable Harness & Terminated Wire
- All Other Make-to-Print

**TABLE 4** '**Service**' ..... Page 7

- Conformal Coating
- Re-Balling
- Lead Re-Finishing
- Lead Forming
- Component Programming
- Tape-n-Reel
- Tooling / Fixtures
- Testing
- Contractor / Consultant

### '**Additional**' Quality Clauses

Determine which '**Additional**' Quality Clauses have been invoked for each purchase order line item (as shown below), in addition to the '**Default**' Quality Clauses in the applicable table referenced above.

- Listed on the purchase order
- Stated on the supplied drawings / SCD

The '**Additional**' invoked Quality Clauses only apply if the Quality Clause is listed for that commodity / service in the bottom section of the applicable Quality Clause table. If the invoked Quality Clause is not listed for the commodity / service, then it does not apply.

**SELLER = OCM or Franchised Distributor**
**TABLE 1**
**'Commercial-Off-The-Shelf' (COTS)  
'Quality Clause' Table**

Quality Clause	Quality Clause Title	See Note 1	See Note 2	See Note 3	See Note 4
		Electronic Components / Parts	Hardware	Manufacturing Supplies	Office Supplies
<b>X = Indicates 'Default' Quality Clauses invoked for the specified commodity</b>					
<b>STD</b>	Standard Quality Clauses	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>1</b>	Certificate of Conformance (C of C)	<b>X</b>	<b>X</b>	<b>X</b>	

**NOTES:**

- 1) **Electronic Components / Parts** include; but is not limited to: Microcircuits, Semiconductors, Passive Elements, and Connectors.
- 2) **Hardware** includes; but is not limited to: Screws, Washers, Nuts, Spacers, Posts, Sheet Metal, and Brackets.
- 3) **Manufacturing Supplies** include; but is not limited to: Adhesive, Epoxy, Getters, Wire, Ink, and Solder Paste.
- 4) **Office Supplies** include; but is not limited to: Paper, Pens, Furniture, and Computers.

**SELLER = Independent or Non-Franchised Distributor (Broker)**
**TABLE 2 'Commercial-Off-The-Shelf' (COTS)  
'Quality Clause' Table**

Quality Clause	Quality Clause Title	See Note 1	See Note 2	See Note 3	See Note 4
		IC's	Discretes	Connectors	Hardware
<b>X = Indicates 'Default' Quality Clauses invoked for the specified commodity</b>					
<b>STD</b>	Standard Quality Clauses	X	X	X	X
<b>1</b>	Certificate of Conformance (C of C)	X	X	X	X
<b>3a</b>	Document / Data Retention	X	X	X	X
<b>100</b>	Age Control of Electronic Parts	X	X	X	
<b>101</b>	Electro-Static Discharge (ESD)	X	X		
<b>102a</b>	IC Testing Requirements (Default)	X			
<b>103a</b>	Discrete / Passive / Connector Testing (Default)		X	X	
<b>199x</b>	'Additional' Invoked Quality Clauses (by NEO Tech Site)	X	X	X	X
<b>205</b>	Foreign Object Debris (FOD)	X	X	X	
<b>300</b>	Lead Forming	X	X	X	
<b>● = Indicates 'Additional' Quality Clauses that may be invoked on the PO, via 199x above, or specified on the drawing / SCD. When 'Additional' Quality Clauses have been invoked, they only apply to this table when they are listed below, for the noted commodities.</b>					
<b>1x</b>	Additional C of C Requirement(s)	●	●	●	●
<b>3x</b>	Document / Data Retention (over-ride 3a)	●	●	●	●
<b>4</b>	ITAR – Rules for Handling Supplied Technical Data	●	●	●	●
<b>102x</b>	IC Testing Requirements ( <i>override 102a</i> )	●			
<b>103x</b>	Discrete / Passive / Connector Testing ( <i>override 103a</i> )		●	●	
<b>104</b>	X-ray fluorescence (XRF) Testing	●	●	●	
<b>105</b>	Solderability & Testing	●	●	●	
<b>NOTES:</b> 1) <b>IC's</b> include; but is not limited to: Microcircuits, and Semiconductors. 2) <b>Discretes</b> include; but is not limited to: Chip Components or Passive Components (i.e. Resistors, Capacitors and Inductors). 3) <b>Connectors</b> include; but is not limited to: Edge Connectors, Headers, Terminal Blocks, Jumpers, and Sockets. 4) <b>Hardware</b> include; but is not limited to: Screws, Washers, Nuts, Spacers, Posts, Sheet Metal, and Brackets.					

**TABLE 3**
**'Make-To-Print'  
'Quality Clause' Table**

Quality Clause	Quality Clause Title	See Note 1			See Note 2	See Note 3		See Note 4
		PWB Fab (bare board)	PCB Assembly	Substrates	Electronic Components / Parts	Manufacturing Supplies	Cable Harness & Terminated Wire	All Other Make-To-Print
<b>X = Indicates 'Default' Quality Clauses invoked for the specified commodity</b>								
<b>STD</b>	Standard Quality Clauses	X	X	X	X	X	X	X
<b>1</b>	Certificate of Conformance (C of C)		X	X	X	X	X	X
<b>3a</b>	Document / Data Retention (Default)	X	X	X	X	X	X	X
<b>101</b>	Electro-Static Discharge (ESD)		X	X	X			
<b>200</b>	PCB Fabrication Specification	X						
<b>205</b>	Foreign Object Debris (FOD)	X	X	X	X	X	X	X
<b>206a</b>	First Article Required (Default)	X	X	X	X	X	X	X
<b>207</b>	Cable Harness and Terminated Wires						X	
<b>299x</b>	'Additional' Invoked Quality Clauses (by NEO Tech Site)	X	X	X	X	X	X	X
<ul style="list-style-type: none"> <li>● = Indicates 'Additional' Quality Clauses that may be invoked on the PO, via 299x above, or specified on the drawing / SCD. When 'Additional' Quality Clauses have been invoked, they only apply to this table when they are listed below, for the noted commodities.</li> </ul>								
<b>1x</b>	Additional C of C Requirement(s)		●	●	●	●	●	●
<b>2x</b>	Source Inspection	●	●	●	●	●	●	●
<b>3x</b>	Document / Data Retention ( <i>override 3a</i> )	●	●	●	●	●	●	●
<b>4</b>	ITAR – Rules for Handling Supplied Technical Data	●	●	●	●	●	●	●
<b>7</b>	Test Documentation	●	●	●	●	●	●	●
<b>105</b>	Solderability & Testing				●			●
<b>106x</b>	Element Evaluation (LAT)	●	●	●	●	●		●
<b>107</b>	Pre-Cap Inspection				●			
<b>201</b>	PWB Panel X-Outs (Permitted)	●						
<b>202</b>	Test Documentation	●						
<b>203</b>	J-STD-001		●					
<b>204</b>	Critical Characteristics Identification					●		●
<b>206x</b>	First Article Required ( <i>override 206a</i> )	●	●	●	●	●	●	●
<b>4xx</b>	Prohibited Material				●			●
<b>5xx</b>	DFARS	●	●	●	●	●	●	●

**NOTES:**

- 1) **PWB Fab (bare board)** C of C requirements are included in the 'PCB Fabrication Specification' document (Quality Clause 200).
- 2) **Electronic Components / Parts** include; but is not limited to: Microcircuits, Semiconductors, Passive Elements, and Connectors, which are revision controlled and built to supplied specifications.
- 3) **Manufacturing Supplies** include; but is not limited to: Adhesive, Epoxy, Getters, Wire, Ink, and Solder Paste, which are built to supplied specifications.
- 4) **All Other Make-To-Print** include; but is not limited to: Lids, Packages, Sheet Metal and other Fabricated Materials

**TABLE 4**
**'Service'  
'Quality Clause' Table**

Quality Clause	Quality Clause Title	Conformal Coating	Re-Balling	Lead Re-Finishing	Lead Forming	Component Programming	Tape-n-Reel	Tooling / Fixtures	Testing	Contractor / Consultant	See Note 1	See Note 2	See Note 3
<b>X = Indicates 'Default' Quality Clauses invoked only for the specified service</b>													
<b>STD</b>	Standard Quality Clauses	X	X	X	X	X	X	X	X	X			
<b>1</b>	Certificate of Conformance (C of C)	X	X	X		X							
<b>3a</b>	Document / Data Retention (Default)	X	X	X		X							
<b>101</b>	Electro-Static Discharge (ESD)	X	X	X	X	X	X		X	X			
<b>205</b>	Foreign Object Debris (FOD)	X	X	X	X	X	X						
<b>300</b>	Lead Forming				X								
<b>301</b>	Material Chemical Composition	X											
<b>302</b>	Conformal Coating	X											
<b>304a</b>	Programmable Integrated Circuit					X							
<b>305</b>	Material Re-Packaging		X	X	X	X	X						
<b>399x</b>	'Additional' Invoked Quality Clauses (by NEO Tech Site)	X	X	X	X	X	X	X	X				
<b>403a</b>	Pure Tin		X	X									
<b>● = Indicates 'Additional' Quality Clauses that may be invoked on the PO, via 399x above, or specified on the drawing / SCD. When 'Additional' Quality Clauses are invoked, they only apply to this table when they are listed below, for the noted services.</b>													
<b>1x</b>	Additional C of C Requirement(s)	●	●	●		●							
<b>2x</b>	Source Inspection	●	●	●	●	●	●						
<b>3x</b>	Document / Data Retention ( <i>override 3a</i> )	●	●	●	●	●	●						
<b>4</b>	ITAR – Rules for Handling Supplied Technical Data	●	●	●	●	●	●						●
<b>203</b>	J-STD-001	●	●	●						●			
<b>303</b>	Orange Dot		●	●									
<b>304x</b>	Programmable Integrated Circuit ( <i>override 304a</i> )					●							
<b>306x</b>	Lead Refinishing Requirements			●									
<b>307x</b>	Re-Balling Requirements		●										
<b>403x</b>	Pure Tin ( <i>override 403a</i> )		●	●									
<b>NOTES:</b>													
1) <b>Tooling / Fixtures</b> include; but is not limited to: Solder Paste Stencils, SMT Pallets, Wave Fixtures and Press Fit Tooling.													
2) <b>Testing</b> include; but is not limited to: In-Circuit Testing (ICT) and Environmental Testing													
3) <b>Contacto</b> / <b>Consultant</b> include; but is not limited to: Auditors, Calibration, Engineering, Exterminators, Facilities.													

**'STD' Quality Clauses**

**'STD' Quality Clause Description**

The following Quality Clauses on pages 8 thru 12 of this document shall be followed, as applicable, for all purchase orders.

<p><b>a)</b></p>	<p><b><u>Facility Inspection</u></b></p> <p>BUYER or their customer reserve the right to access SELLER's or sub-tier manufacturing facilities (or at its option send its personnel, insurance inspectors or other third-party agents and regulatory inspectors) to inspect such facilities and observe SELLER's manufacturing processes and associated records, upon reasonable advance notice to SELLER. In addition, SELLER shall provide BUYER or other entities performing facility inspections with all written copies of operational procedures, testing procedure results, quality requirement documentation and any other documentation BUYER or other entities performing facility inspections deems appropriate in order to complete the inspection of SELLER facilities.</p> <p>SELLER must include in their procurement documents a provision for BUYER or their customer or its designated representative to survey or audit supplies or services, which will ultimately apply the BUYER's customer purchase order and/or contract.</p> <p>BUYER and its representatives shall; (i) execute any reasonable confidential agreement mutually agreed to by the parties; and (ii) observe all security and handling measures of SELLER while on SELLER's premises. See AS9100 and ISO-13485 – section 7.4.1, 7.5.3.2</p>
<p><b>b)</b></p>	<p><b><u>Non-Conforming Material</u></b></p> <p>Any departure from drawings, specifications or other Purchase Order requirements must be presented to BUYER for disposition. BUYER customers must approve deviations from drawings or specifications prior to shipment of materials/product from supplier's facility.</p> <p>Nonconforming material will not be accepted by BUYER unless approved in advance in writing by BUYER and with concurrence from BUYER's Quality Assurance Management Designate. Requests for authorization to ship nonconforming material will be addressed in writing to the appropriate BUYER Quality Assurance Department with full explanation of the nonconformance per SELLER's nonconformance reporting system.</p> <p>SELLER shall notify BUYER upon the discovery of a material discrepancy which was made from a lot of material and has already been shipped to BUYER.</p>
<p><b>c)</b></p>	<p><b><u>Re-submission of Rejected Material</u></b></p> <p>Materials rejected by BUYER and subsequently re-submitted by the SELLER to BUYER shall bear adequate identification of such re-submission either with the material or on the SELLER's shipping document. Reference shall be made to the BUYER rejection document (NCRM#), BUYER lot number and satisfactory evidence given that the causes for rejection have been corrected.</p>
<p><b>d)</b></p>	<p><b><u>Unauthorized Repairs</u></b></p> <p>Parts damaged or found to be nonconforming during fabrication shall not be repaired by means of welding, brazing, plating, splicing, soldering or adhesives without written approval from BUYER.</p>
<p><b>e)</b></p>	<p><b><u>Corrective Action</u></b></p> <p>When applicable, corrective action may be required for any non-conforming/failure mechanisms. A corrective action plan detailing the proposed permanent corrective actions shall be submitted and implemented within the specified time given in BUYER's Supplier Corrective Action Request (SCAR). Consequences may be imposed due to the SELLER's repeated lack of timely response which may include downgrading the Approved Vendor Listing (AVL) status and/or removal from the AVL.</p>



 <b>NEOTech</b> Corporate Document	Standard Operating Procedure <b>Quality Clauses</b>	Document Number <b>NT104</b> Revision: <b>C</b>
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**'STD' Quality Clause Description**

(Continued...)

<b>f)</b>	<p><b><u>Service or Process Material Providers</u></b></p> <p>SELLERs of services to BUYER such as pest control, heating / ventilation / air conditioning or process material such as chemicals or process supplies must retain records of material supplied or service provided for the life of the facility where these products or services were delivered or performed. Additionally, if the service provider intends to close the facility where the service or material originated, they must transfer these records to the replacement facility and notify BUYER of the new storage location. See AS9100 and ISO-13485 – section 4.2.4, 7.5.3.2 and ISO-14001 – section 4.3.2, 4.5.4</p>
<b>g)</b>	<p><b><u>Perishable Material</u></b></p> <p>Materials with a limited shelf life shall be supplied with an accompanying effective date of manufacture and shelf life or date of expiration and must, at time of receipt at BUYER, have a minimum 50% of its certified shelf life still remaining. The limited life period shall be identified on the product or support documentation. An MSDS Sheet is to be provided with each shipment of product. SELLER shall include the date of manufacture.</p> <p><b>For Polymeric Materials:</b> SELLER shall meet the requirements of MIL-STD-883, Method 5011.5. The C of C shall indicate the results of meeting this requirement. SELLER is responsible for maintaining the actual test data per the specified Record / Data Retention herein. Test data shall be made available upon request. A signed copy of the original material manufactures C of C must be provided with each receipt per Quality Clause # 1.</p>
<b>h)</b>	<p><b><u>Hazardous Material</u></b></p> <p>SELLER shall provide Material Safety Data Sheets (MSDS) / Safety Data Sheets (SDS) with the first shipment of material requiring such special handling. See ISO-14001 – Section 4.4.7</p>
<b>i)</b>	<p><b><u>Flow Down of Terms</u></b></p> <p>The SELLER shall flow down to sub-tier suppliers the applicable requirements in the purchasing documents, including key characteristics, counterfeit parts control and special processes i.e. plating, welding, etc. where required. This also includes any special provisions noted on the purchase order (including Quality Clauses) or other procurement documents, drawings, specifications, quality system requirements, regulations, public laws and other requirements as may be specified on the purchase order. See AS9100 – section 7.4.2, and ISO 13485, sections 1.2.3 and 7.4.1</p>
<b>j)</b>	<p><b><u>Control of Changes</u></b></p> <p>(i) Notification of Facility Change: SELLER shall not use or relocate any production, manufacturing, and/or processing facilities to differ from previous approval by BUYER, during performance of work specified in the procurement document, without previously notifying BUYER.</p> <p>(ii) Notification of change of product, process and/or sub-tier supplier: SELLER shall not change any drawing, process, material (including sub-tier supplier parts), without prior BUYER written approval, if such a drawing, process, material, or procedure was previously approved by BUYER as provided for in the procurement document.</p> <p>(iii) Verbal changes are not acceptable. All product changes must be completed by engineering change orders approved by BUYER. Changes within a purchase order/agreement, whether the change is quantity, price or specifications, must come from BUYER and be reflected on the purchase order.</p>
<b>k)</b>	<p><b><u>Qualification Process</u></b></p> <p>All Product(s) are subject to BUYER's qualification process, as applicable. SELLER will use its best efforts to assist BUYER in its Product qualification process by providing the following in a timely manner: a) all pertinent requested Product documents and information; b) a copy of all appropriate regulatory certifications; c) a defined support structure and; d) assistance in resolving any problems that may arise, and any other information or documentation. BUYER may provide this information to its customers and affiliates on a need-to-know basis at no charge.</p>

**'STD' Quality Clause Description**

(Continued...)

<p><b>l)</b></p>	<p><b><u>Marking &amp; Identification</u></b> Parts or subassemblies shall be identified by BUYER specification or drawing number including the revision level as referenced on BUYER's Purchase Order BUYER part number shall be clearly identified as a part of the unit marking and/or stick-on labels for bags, waffle packs, intermediate and shipping boxes/containers. The SELLER is required to reference BUYER part number, revision, purchase order number, lot number or date code, on all labels and documents.</p>
<p><b>m)</b></p>	<p><b><u>Single Lot Traceability</u></b> Items provided in accordance with this purchase order are under Single Lot Traceability Control at BUYER.</p> <ol style="list-style-type: none"> <li>1. Each shipment shall be from only one Original Component Manufacturer (OCM).</li> <li>2. Each shipment shall only be from one Wafer Lot per reel or waffle pack.</li> <li>3. Components that are too small to have the Lot Code marked on them are to have their packaging identified with the appropriate Lot Code marking / serial number.</li> </ol>
<p><b>n)</b></p>	<p><b><u>Drawings / Specifications &amp; Change Control</u></b> When applicable, BUYER shall supply SELLER with current drawings / specification required to fulfill this order. BUYER reserves the right at any time to make changes in drawings and specifications as to any material and/or work covered by this order. SELLERS or their subcontractors are required to conform to all specifications included or referenced in this order. Any components and /or materials that are being procured by BUYER in which a change by the vendor is in process, the vendor is required to notify BUYER prior to the change. The Change Notification requirements apply to any Class 1 changes (ex: design, dimensional, materials, process and programming)</p>
<p><b>o)</b></p>	<p><b><u>Statement of Work (SOW)</u></b> When specified on BUYER's Purchase Order, items / materials shall be subjected to additional requirements per the SOW. Items that do not comply with stated SOW requirements shall be rejected by BUYER.</p>
<p><b>p)</b></p>	<p><b><u>Fraud or Falsification</u></b> Any knowing and willful act to falsify, conceal, or alter a material fact, or any false, fraudulent or fictitious statement or representation in connection with the performance of work under this purchase order may be punishable in accordance with applicable Federal Statutes.</p>
<p><b>q)</b></p>	<p><b><u>Calibration System Requirements</u></b> Test and measurement tools / equipment used to determine the acceptability of delivered items shall be maintained in accordance with ANSI/NCCL Z540-1, "Calibration System Requirements" or an equivalent specification.</p>

**'STD' Quality Clause Description**

(Continued...)

**Counterfeit Goods**

SELLER represents and warrants that it will not knowingly or negligently use or procure counterfeit components in the Product or as replacement components.

- (a)** "Counterfeit Goods" as used in this Agreement means Product or components thereof that are or contain items misrepresented as having been designed and/or produced under an approved system or other acceptable method, including any of the following: (i) an unauthorized copy or substitute of an Original Equipment Manufacturer or Original Component Manufacturer (collectively, "OCM") item; (ii) not traceable to an OCM sufficient to ensure authenticity in OCM design and manufacture; (iii) do not contain proper external or internal materials or components required by the OCM or are not constructed in accordance with OCM design; (iv) have been re-worked, re-marked, re-labeled, repaired, refurbished, or otherwise modified from OCM design but are represented as OCM authentic or as new; or (v) have not passed successfully all OCM required testing, verification, screening, and quality control processes.
- (b)** SELLER will ensure Product furnished to BUYER is not Counterfeit Goods. SELLER will ensure that Counterfeit Goods are not delivered by ensuring the direct procurement of items from OCMs or authorized SELLERS, and, when items are to be procured from non-authorized SELLERS, obtaining from such non-authorized SELLERS appropriate certificates of conformance that provide one or more of the following: (a) the OCM's original certificate of conformance for the item (per Quality Clause #1, herein); (b) sufficient records providing unbroken supply chain traceability to the OCM; or (c) OCM's test and inspection records demonstrating the item's authenticity. In all cases, prior to procurement from non-authorized Sellers, SELLER must contact BUYER for written approval, and the parts must be controlled such that BUYER will have unambiguous insight into the origination, control and where applicable serial number of all components.
- (c)** Counterfeit Goods delivered or furnished to BUYER under this contract are deemed nonconforming. If SELLER becomes aware or suspects that it has furnished Counterfeit Goods to BUYER, SELLER will immediately notify BUYER. If SELLER has met the conditions of (a) and (b) noting the approval process for non-authorized SELLERS then both parties will mutually share in the expense and replace such Counterfeit Goods with OCM or BUYER-approved Product that conforms to the requirements of this Agreement. If SELLER has not met the conditions of (a) and (b), then SELLER shall be liable for all reasonable costs related to the replacement of Counterfeit Goods and any testing or validation necessitated by the installation of authentic Product or components after Counterfeit Goods have been replaced. The remedies contained in this article are in addition to any remedies BUYER may have at law, equity, or under other provisions of this contract.
- (d)** BUYER becomes aware that counterfeit parts have been provided by SELLER, BUYER shall notify SELLER of the situation as soon as practical. In such case, SELLER shall be responsible as described in paragraph (a) above without right to offset by Section (b) and (c).

y)

**'STD' Quality Clause Description**

(Continued...)

**Packaging Requirements**

SELLER shall have a system for controlling and monitoring proper handling, preservation, storage, packaging and shipping processes to protect the quality of deliverable materials and to prevent their damage, deterioration and degradation. Protection shall be provided to prevent physical damage, to prevent twisted and entangled leads and to maintain leads and terminals in the manufactured conditioned under handling and transportation environments. The packaging material shall not in any way affect the quality of the components.

**Bulk Pack:**

Appropriate material shall be inserted into the intermediate container to prevent damage during shipping / handling / storage, as required.

**Rail:**

Non-conductive rail with non-conductive or antistatic foam plugs at both ends of the rail to prevent movement.

**Lot Identification:**

Items furnished under this Purchase Order shall be identified by SELLER identification code (e.g. Cage Code, Logo etc.) and manufacturing lot or batch number on the package.

**ESD:**

All materials, components or assemblies susceptible to being degraded, damaged or destroyed by electro-static discharge (ESD) shall be packaged in accordance with MIL-PRF-81705, Type I or Type III barrier materials, the latest revision of the MIL-STD-1686 (Electrostatic Discharge Control Program for Protection of Electronic Devices) and MIL- HDBK-263 (ESD Handbook for Protection Parts, Assemblies and Equipment). SELLER shall take necessary precautions to ensure that static susceptible devices are adequately protected from electro-static discharge (ESD) damage during manufacturing, test, inspection, packaging and shipping. Packaging shall be marked with an ESD cautionary note or symbol.

**Moisture Sensitive Devices:**

All moisture sensitive devices as defined by J-STD-020 or J-STD-033 shall be:

- Positively identified as Moisture Sensitive Material per J-STD-020 or J-STD-033.
- Packaged per J-STD-020 or J-STD-033.

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 <b>NEOTech</b> Corporate Document	Standard Operating Procedure <b>Quality Clauses</b>	Document Number <b>NT104</b> Revision: <b>C</b>
Original Author: <b>James Cahill</b>	Process Owner: <b>James Cahill</b>	Page <b>13</b> of <b>34</b>

Quality Clause	<b>Quality Clause Description</b> (The following Quality Clauses only apply when specified on the purchase order)
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<b>'General' Quality Clauses (1 – 99)</b>	
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<b>1</b>	<p><b><u>Certificate of Conformance (C of C)</u></b></p> <p>Unless otherwise specified on the Purchase Order, the SELLER shall provide a C of C per the following requirements:</p> <p><b>(a) Certification of Conformance (General)</b> - The SELLER shall submit with each shipment a C of C stating that the parts, materials, processes, and testing furnished to BUYER are IAW applicable requirements of the Purchase Order. The certification shall state that the supplier has on file all available data for examination and evidence of conformance to applicable specifications. The certification shall include, as a minimum, the following information:</p> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>• SELLER's Name</li> <li>• BUYER's Purchase Order number</li> <li>• Original Manufacturer's Name, Address, Telephone Number and FSCM Number.</li> <li>• Part / Drawing Number &amp; Revision</li> <li>• Device Type or Part Name</li> <li>• Country of Origin (or Country of Manufacture)</li> </ul> </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>• Lot code and / or Date code, if applicable</li> <li>• Serial Numbers (when applicable)</li> <li>• Shipment Quantity</li> <li>• Statement of Conformance to all Requirements</li> <li>• Date and Signature of Authorized Company Agent (see NOTES 2 &amp; 3 below) electronic)</li> </ul> </td> </tr> </table> <p><b>(b) Certification of Conformance (Age Dated Material)</b> - The C of C is to meet quality clause 1a (above) and also to include:</p> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>• Lot / Batch number</li> <li>• Expiration date</li> <li>• Manufacture date</li> </ul> </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>• Storage temperature and any other storage requirement</li> </ul> </td> </tr> </table>	<ul style="list-style-type: none"> <li>• SELLER's Name</li> <li>• BUYER's Purchase Order number</li> <li>• Original Manufacturer's Name, Address, Telephone Number and FSCM Number.</li> <li>• Part / Drawing Number &amp; Revision</li> <li>• Device Type or Part Name</li> <li>• Country of Origin (or Country of Manufacture)</li> </ul>	<ul style="list-style-type: none"> <li>• Lot code and / or Date code, if applicable</li> <li>• Serial Numbers (when applicable)</li> <li>• Shipment Quantity</li> <li>• Statement of Conformance to all Requirements</li> <li>• Date and Signature of Authorized Company Agent (see NOTES 2 &amp; 3 below) electronic)</li> </ul>	<ul style="list-style-type: none"> <li>• Lot / Batch number</li> <li>• Expiration date</li> <li>• Manufacture date</li> </ul>	<ul style="list-style-type: none"> <li>• Storage temperature and any other storage requirement</li> </ul>
<ul style="list-style-type: none"> <li>• SELLER's Name</li> <li>• BUYER's Purchase Order number</li> <li>• Original Manufacturer's Name, Address, Telephone Number and FSCM Number.</li> <li>• Part / Drawing Number &amp; Revision</li> <li>• Device Type or Part Name</li> <li>• Country of Origin (or Country of Manufacture)</li> </ul>	<ul style="list-style-type: none"> <li>• Lot code and / or Date code, if applicable</li> <li>• Serial Numbers (when applicable)</li> <li>• Shipment Quantity</li> <li>• Statement of Conformance to all Requirements</li> <li>• Date and Signature of Authorized Company Agent (see NOTES 2 &amp; 3 below) electronic)</li> </ul>				
<ul style="list-style-type: none"> <li>• Lot / Batch number</li> <li>• Expiration date</li> <li>• Manufacture date</li> </ul>	<ul style="list-style-type: none"> <li>• Storage temperature and any other storage requirement</li> </ul>				

<b>NOTES</b>
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1. SELLER shall retain the C of C per invoked Quality Clause #1 (Record / Data Retention).
2. If SELLER is not the OCM, a copy of the signed OCM C of C shall be required. Traceability shall be maintained.
3. For a catalog part or SELLER standard part, a computer generated C of C is acceptable.
4. Customer supplied material shall require a C of C from the OCM. A waiver from the customer shall be required when the OCM C of C is not available.
5. Additional C of C requirements for Print Circuit Board bare boards) are documented in "PCB Fabrication Specification" (NT404 – latest revision).
6. Additional C of C requirements shall be added per invoked Quality Clauses.

<b>1x</b>	<p><b><u>Additional C of C Requirement(s)</u></b></p> <p>Any of the following may be invoked, in addition to Quality Clause #1.</p> <ul style="list-style-type: none"> <li>• <b>1a</b> ..... <b>Additional C of C Requirement (ISO/IECEX 17050-1)</b></li> <li>• <b>1b</b> ..... <b>Additional C of C Requirement (No ITAR Reference)</b></li> <li>• <b>1c</b> ..... <b>Additional C of C Requirement (Material and Process Certifications)</b></li> </ul>
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<b>1a</b>	<p><b><u>Additional C of C Requirements (ISO/IECEX 17050-1)</u></b></p> <p>The following requirement shall be included in the C of C, in addition to Quality Clause #1.  SELLER shall include a Certificate of Conformity according to ISO/IEC 17050-1 to demonstrate compliance to ISO/IECEX requirements"</p>
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<b>1b</b>	<p><b><u>Additional C of C Requirements (No ITAR Reference)</u></b></p> <p>The following requirement shall be included in the C of C, in addition to Quality Clause #1.  SELLER shall ensure that there is no references to 'ITAR' in the C of C, or any associated documents contained in this order.</p>
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Quality Clause	<p align="center"><b>Quality Clause Description</b> (The following Quality Clauses only apply when specified on the purchase order)</p>						
<p><b>1c</b></p>	<p><b><u>Additional C of C Requirements (Material and Process Certifications)</u></b></p> <p>The following requirement shall be included in the C of C, in addition to Quality Clause #1.</p> <table border="1" data-bbox="487 504 1258 604"> <tr> <td><b>COTS</b> .....</td> <td>N/A</td> </tr> <tr> <td><b>Make-to-Print</b> .....</td> <td>Sections (a) thru (c) below, as applicable</td> </tr> <tr> <td><b>Service</b> .....</td> <td>Sections (a) thru (c) below, as applicable</td> </tr> </table> <p>(a) <b>Material Certification</b> - The SELLER shall submit raw material certifications obtained from the manufacturer with each shipment certifying conformance to specification requirements.</p> <p>(b) <b>Material Declaration</b> - The SELLER shall submit a Material Declaration consistent with IPC-1065 (or equivalent), obtained from the manufacturer, with each shipment certifying conformance to RoHS requirements.</p> <p>(c) <b>Process Certification</b> - The SELLER shall submit with each shipment a C of C for all additional processes performed per specified requirements. If a process was subcontracted, a copy of the subcontractors C of C shall also be supplied.</p>	<b>COTS</b> .....	N/A	<b>Make-to-Print</b> .....	Sections (a) thru (c) below, as applicable	<b>Service</b> .....	Sections (a) thru (c) below, as applicable
<b>COTS</b> .....	N/A						
<b>Make-to-Print</b> .....	Sections (a) thru (c) below, as applicable						
<b>Service</b> .....	Sections (a) thru (c) below, as applicable						
<p><b>2x</b></p>	<p><b><u>Source Inspection</u></b></p> <p>One of the following quality clauses has been invoked:</p> <ul style="list-style-type: none"> <li>• <b>2a</b> ..... <b>Source Inspection – BUYER</b></li> <li>• <b>2b</b> ..... <b>Source Inspection – BUYER</b></li> <li>• <b>2c</b> ..... <b>Source Inspection – BUYER’s Customer</b></li> <li>• <b>2d</b> ..... <b>Source Inspection – Government</b></li> </ul>						
<p><b>2a</b></p>	<p><b><u>Source Inspection - BUYER</u></b></p> <p>BUYER source inspection is required at SELLER’s facility prior to shipment of this order. Test and inspection data demonstrating conformance to the lot acceptance requirements as specified in the drawing or specification shall be generated, be ready for review. In addition, SELLER shall furnish, at no cost to BUYER, the necessary facilities, equipment, documentation and personnel in support of this inspection. SELLER shall notify BUYER a minimum of three (3) working days prior to the material being ready for any identified inspection points. Final acceptance shall be at final destination. The quantity shipped must be the exact same as the quantity accepted during the source inspection. If there is a quantity difference, material will be rejected upon receipt and returned to SELLER.</p> <p>BUYER reserves the right to waive, on an individual shipment basis, the requirement for source inspection. If source inspection is waived, a copy of the waiver must accompany the shipment. Failure to include the waiver is cause for rejection. The quantity of pieces shipped must match exactly the quantity on the waiver.</p> <p>Acceptance of product at BUYER source inspection does not relieve SELLER of full specification compliance and purchase order requirements.</p>						
<p><b>2b</b></p>	<p><b><u>Source Inspection - BUYER</u></b></p> <p>BUYER source inspection is required at SELLER’s facility prior to shipment of this order. Test and inspection data demonstrating conformance to the lot acceptance requirements as specified in the drawing or specification shall be generated, be ready for review. In addition, SELLER shall furnish, at no cost to BUYER, the necessary facilities, equipment, documentation and personnel in support of this inspection. SELLER shall notify BUYER a minimum of ten (10) working days prior to the material being ready for any identified inspection points. Final acceptance shall be at final destination. Failure to include a copy of BUYER Source Surveillance Activity Report (SSAR) is cause for rejection. The quantity shipped must be the exact same as the quantity accepted in the SSAR. If there is a quantity difference, material will be rejected upon receipt and returned to SELLER.</p> <p>BUYER reserves the right to waive, on an individual shipment basis, the requirement for source inspection. If source inspection is waived, a copy of the waiver must accompany the shipment. Failure to include the waiver is cause for rejection. The quantity of pieces shipped must match exactly the quantity on the waiver.</p>						

Quality Clause	<p align="center"><b>Quality Clause Description</b> (The following Quality Clauses only apply when specified on the purchase order)</p>
<p><b>2c</b></p>	<p><b><u>Source Inspection – BUYER’s Customer</u></b></p> <p>A Customer of BUYER has requested source inspection on this product prior to shipment from your facility. SELLER shall contact BUYER Quality upon receipt of this order to coordinate the Customer Source Inspection. BUYER customers reserve the right to waive, on an individual lot / shipment basis this inspection. Authorization to continue processing of material, less this inspection, will be accomplished by written notification from BUYER Quality.</p> <p>Documented evidence of source inspection or direction to waive agreed upon inspection is to be provided with each shipment of associated product.</p>
<p><b>2d</b></p>	<p><b><u>Source Inspection – Government</u></b></p> <p>Government inspection is required prior to shipment of material or item from the suppliers’ facility. Upon receipt of this Purchase Order, promptly furnish a copy to the designated government representative who normally services your plant. In the event the government office cannot be located, notify BUYER purchasing representative immediately.</p>
<p><b>3x</b></p>	<p><b><u>Record / Data Retention</u></b></p> <p>The following quality clause has been invoked by the ‘Quality Clause’ tables. Unless otherwise specified (one of the quality clauses listed in the box below has been invoked on the PO), the SELLER shall follow the requirements stated in the following Quality Clause:</p> <ul style="list-style-type: none"> <li>• <b>3a</b> .....Record / Data Retention (Default)</li> </ul> <div style="border: 1px solid black; background-color: #ffffcc; padding: 5px;"> <p><b>NOTE:</b> If one of the following quality clauses has been invoked on the PO, then it shall be followed and quality clause 3a shall be ignored.</p> <ul style="list-style-type: none"> <li>• <b>3b</b> .....Record / Data Retention (Specified)</li> <li>• <b>3c</b> .....Record / Data Retention (Ship with Product)</li> </ul> </div>
<p><b>3a</b></p>	<p><b><u>Record / Data Retention (Default)</u></b></p> <div style="border: 2px solid red; background-color: #ffffcc; padding: 5px; text-align: center;"> <p><b>An optional Quality Clause may be invoked to override ‘3a’</b></p> </div> <p>Records of assembly and inspection, or service activities must be maintained and this data must be available for review at any time, with adequate notice, and archived for a minimum of:</p> <ul style="list-style-type: none"> <li>• <b>Ten (10) years after the ship date of the product</b></li> </ul> <p>Record retention may be hardcopy or electronic. Minimal data requirements would be, as applicable: date of manufacture / test / inspection records / serialization data / service records / ship date / C of C / all relevant supporting build and service data. Additionally, applicable records of traceability of deliverable item from origination to shipment to BUYER will be retained for the same period of time.</p> <p>Copies of subject records shall be submitted to BUYER upon request. The SELLER shall notify BUYER 90 days prior to records disposal. BUYER reserves the right to have said records delivered in lieu of disposal.</p>

Quality Clause	<p align="center"><b>Quality Clause Description</b> (The following Quality Clauses only apply when specified on the purchase order)</p>
<p><b>3b</b></p>	<p><b><u>Record / Data Retention (Specified)</u></b></p> <p align="center"><b>Quality Clause '3b' has been invoked, and only applies for the commodities and services that previously had Quality Clause '3a' invoked. Follow Quality Clause '3b' and ignore '3a'.</b></p> <p>Records of assembly and inspection, or service activities must be maintained and this data must be available for review at any time, with adequate notice, and archived for a minimum of:</p> <ul style="list-style-type: none"> <li><b>Number of years specified (the specified number after Quality Clause '3b')</b></li> </ul> <p><b>Example:</b> Quality Clause '3b:15' specifies that the records shall be retained for a minimum of 15 years after the ship date of the product.</p> <p>Record retention may be hardcopy or electronic. Minimal data requirements would be, as applicable: date of manufacture / test / inspection records / serialization data / service records / ship date / C of C / all relevant supporting build and service data. Additionally, applicable records of traceability of deliverable item from origination to shipment to BUYER will be retained for the same period of time.</p> <p>Copies of subject records shall be submitted to BUYER upon request. The SELLER shall notify BUYER 90 days prior to records disposal. BUYER reserves the right to have said records delivered in lieu of disposal.</p>
<p><b>3c</b></p>	<p><b><u>Record / Data Retention (Ship with Product)</u></b></p> <p align="center"><b>Quality Clause '3c' has been invoked, and only applies for the commodities and services that previously had Quality Clause '3a' invoked. Follow Quality Clause '3c' and ignore '3a' and '3b'.</b></p> <p>Records of assembly and inspection, or service activities shall be shipped by SUPPLIER and archived by BUYER. Records may be hardcopy or electronic.</p> <p>Minimal data requirements would be, as applicable: date of manufacture / test / inspection records / serialization data / service records / ship date / C of C / all relevant supporting build and service data. Additionally, applicable records of traceability of deliverable item from origination to shipment to BUYER shall be shipped for the same period of time.</p>
<p><b>4</b></p>	<p><b><u>ITAR – Rules for Handling Supplied Technical Data</u></b></p> <p>This quality clause has been invoked, and the SELLER shall follow the requirements stated in the following Quality Clause:</p> <ul style="list-style-type: none"> <li><b>4a</b> .....ITAR – Registered (Default)</li> </ul> <p><b>NOTE:</b> If the SELLER cannot meet the ITAR requirements stated above, then SELLER may follow the requirements stated in the following Quality Clause, <b>only after receiving written approval from BUYER.</b></p> <ul style="list-style-type: none"> <li><b>4b</b> .....ITAR – Compliance</li> </ul>



 <b>NEOTech</b> Corporate Document	Standard Operating Procedure <b>Quality Clauses</b>	Document Number <b>NT104</b> Revision: <b>C</b>
Original Author: <b>James Cahill</b>	Process Owner: <b>James Cahill</b>	Page <b>17</b> of <b>34</b>

Quality Clause	<b>Quality Clause Description</b> (The following Quality Clauses only apply when specified on the purchase order)
<b>4a</b>	<p><b><u>ITAR – Registered (Default)</u></b></p> <p>The information contained may be subject to International Traffic Arms Regulations (ITAR) or Export Administration Regulations (EAR) Controls and may not be disclosed to any foreign person(s) or firm, including persons employed by or associated with your firm, without first complying with all requirements of the ITAR, 22 CFR 120-130 and the EAR, 15 CFR 730-774.</p> <p>SELLER Are Hereby Notified of the following International Traffic in Arms Regulations (ITAR) Compliance Requirements.</p> <ul style="list-style-type: none"> <li>• In accordance with 22 CFR §122.1 (a), persons who engage in the United States in the business of either manufacturing or exporting defense articles or furnishing defense services are required to register with the U.S. Department of State, Office of Defense Trade Controls and apply for export authorization prior to exports of controlled hardware, technical data, software and services. Manufacturers of defense articles who do not engage in exporting must also register.</li> <li>• A Defense article is a commodity, including software, that is specifically designed, developed configured adapted or modified for a military application.</li> <li>• SELLERS are notified that as they are manufacturing articles for BUYER, they are manufacturing defense articles and must be registered with the U.S. State Department. SELLERS NAME must also maintain that registration for the duration of their business relationship with BUYER. Information regarding registration may be found at <a href="http://www.pmdtc.org">www.pmdtc.org</a>.</li> <li>• SELLERS are also notified that any technical data (i.e. specification, drawings, etc.) provided by BUYER is considered to be export controlled and may not be provided to any foreign person* in SELLERS NAME employ without specific prior export authorization from the Department of State, Office of Defense Trade Controls Licensing (ODTCL).</li> </ul> <p>* Foreign persons are person who are not 1) U.S. Citizens, 2) U.S. Permanent Resident Aliens (Green Card Holders), or 3) Protected Persons (Refugees).</p> <ul style="list-style-type: none"> <li>• SELLERS may also not provide any of the export controlled technical data provided by BUYER to foreign SELLERS or affiliates, regardless of the nature of the relationship to the U.S. SELLER, for any reason, without prior specific export authorization secured from the ODTCL.</li> <li>• SELLER also notified that it may not transfer any export controlled technical data provided by BUYER to any U.S. sub-contractor/vendor without first notifying the sub-contractor/vendor of the export compliance requirements as stated above.</li> </ul> <p><b>NOTE:</b> By this notification, you as a SELLER have been so advised of its compliance obligations under the ITAR regulation.</p>
<b>4b</b>	<p><b><u>ITAR – Compliance</u></b></p> <p>Information furnished to SELLER under this agreement may contain technical data as defined in ITAR 120.10. SELLER is advised and hereby acknowledges that such technical data, relating to <b>export-controlled items, appearing on the U.S. Munitions List at ITAR part 121</b>, may not be exported, disclosed, or transferred, as defined in ITAR 120.16, without first complying with all relevant requirements of ITAR parts 120-130 (22CFR120-130), including the requirement for obtaining written export authorization from the U.S. Department of State, Office of Defense Trade Controls, or otherwise making and documenting the determination that an ITAR licensing exemption applies, as the case may be.</p> <p><b>NOTE:</b> This Quality Clause does not mean that SELLER has to be ITAR Registered; but SELLER does have to be Compliant to ITAR.</p>

 <b>NEOTech</b> Corporate Document	Standard Operating Procedure <b>Quality Clauses</b>	Document Number <b>NT104</b> Revision: <b>C</b>
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Quality Clause	<b>Quality Clause Description</b> (The following Quality Clauses only apply when specified on the purchase order)
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<b>7</b>	<p><b><u>Test Documentation</u></b></p> <p>1. SELLER shall retain objective written evidence of hardware conformance to the Purchase Order Requirements for each shipment.</p> <p>A. Recorded data shall include not only the results of all routine inspections and Dimensional Data Reports, along with all required tests results such as Conditioning, Burn-In, Lot Acceptance, Sampling and / or any other test used to determine item conformance.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p><b>NOTE:</b> When requested by BUYER, SELLER shall provide these reports as part of the Documentation Data Package supplied with shipped product.</p> </div> <p>B. If SELLER is a jobber or distributor of the item(s) in this Purchase Order, SELLER shall require the same performance documentation from the original manufacturer of the item(s). Additionally, SELLER shall secure from that manufacturer a right for BUYER to acquire or inspect (at BUYER's option) all pertinent data in that manufacturer's possession showing the items' compliance to specification.</p> <p>C. The exact format of the submitted data may vary from SELLER to SELLER, but shall contain the following minimum information:</p> <ul style="list-style-type: none"> <li>• SELLER's name</li> <li>• SELLER's Purchase Order number and revision</li> <li>• BUYER part number and Purchase Order number and revision</li> <li>• BUYER Drawing / Specification / SELLER planning revision level</li> <li>• Number of items in lot</li> <li>• Number of items inspected</li> <li>• Acceptable quality level (AQL) used</li> <li>• Lot number and date code (if applicable)</li> </ul> <p>D. SELLER may obtain attributes data or variable data at SELLER's discretion unless the variables data is specifically requested by BUYER. SELLER's format is acceptable. As a minimum, attributes data shall include the parameter inspected, the tolerance and the measurement obtained for each item inspected.</p> <p>E. Data sheets/test reports shall bear evidence of acceptance by SELLER's signature (or stamp) and date signed.</p> <p>2. QUALITY RETENTION REQUIREMENTS. The requested data is to be retained by SELLER per the stated Record / Data Retention after the date of the completion of this Purchase Order, unless otherwise specified in this Purchase Order. It shall be made available for review by BUYER's Representative when requested.</p> <p>3. The retention of inspection/test data, as provided herein, shall not modify or limit any representations, warranties, or commitments made elsewhere herein, or in any way affect the obligation of SELLER to perform strictly in accordance with the provisions of the Purchase Order.</p> <p>4. As defined per purchase order test data shall be supplied upon receipt of materials / parts being purchased.</p>
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<b>'Electronic Components' Quality Clauses (100 – 199)</b>	
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<b>100</b>	<p><b><u>Age Control of Electronic Parts</u></b></p> <p>SELLER shall deliver to BUYER only those parts manufactured less than 36 months prior to date, without prior BUYER written approval. This shall be evident by date code marking on each individual part or on the manufacturer's labeling on the packaging.</p>
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Quality Clause	<p align="center"><b>Quality Clause Description</b> (The following Quality Clauses only apply when specified on the purchase order)</p>
<p><b>101</b></p>	<p><b><u>Electro-Static Discharge (ESD)</u></b></p> <p>SELLER shall take proper precautions to ensure that static susceptible devices are not degraded, damaged or destroyed by electro-static discharge (ESD), and are adequately protected from electrostatic discharge (ESD) damage during manufacturing, test, inspection, packaging and shipping.</p> <p>Subject materials shall be compliant with ANSI / ESDS 20.20 or MIL-STD-1686 or an equivalent specification. The ESD sensitive product shall be packaged per the "Packaging Requirements" outlined in the 'STD' quality clause 'z'. Devices not suitably protected when inspected by BUYER shall be subject to rejection and replacement.</p>
<p><b>102x</b></p>	<p><b><u>IC Testing Requirements</u></b></p> <p>The following quality clause has been invoked by the 'Quality Clause' tables. Unless otherwise specified (one of the quality clauses listed in the box below has been invoked on the PO), the SELLER shall follow the requirements stated in the following Quality Clause:</p> <ul style="list-style-type: none"> <li>• <b>102a</b> .....IC Testing Requirements (Default)</li> </ul> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p><b>NOTE:</b> If one of the following quality clauses has been invoked on the PO, then it shall be followed and quality clause 102a shall be ignored.</p> <ul style="list-style-type: none"> <li>• <b>102b</b> .....IC Testing Requirements (100%)</li> <li>• <b>102c</b> .....IC Testing Requirements (SAE6081)</li> <li>• <b>102d</b> .....IC Testing Requirements (NG)</li> </ul> </div> <div style="border: 1px solid gray; padding: 5px; margin-top: 10px; text-align: center;"> <p>Refer to the 'STD' Quality Clause 'y' (Counterfeit Parts Statement)</p> </div>
<p><b>102a</b></p>	<p><b><u>IC Testing Requirements (Default)</u></b></p> <div style="border: 2px solid red; padding: 5px; margin: 5px 0; text-align: center;"> <p><b>An optional Quality Clause may be invoked to override '102a'</b></p> </div> <p>SELLER is 100% responsible for the compliance of this testing requirement prior to delivery to BUYER. SELLER shall supply documentation demonstrating compliance and maintain the records per the Document / Data Retention quality clause defined herein (<i>as applicable</i>).</p> <ul style="list-style-type: none"> <li>• Solderability for date codes older than two years per IPC / EIA / JEDEC J-STD-002, test "A" (leadless components) or test "B" (leadless components) solder bath/dip and look method – one component from each date code.</li> </ul> <p><b>The following tests are required if there is no documented lineage for the components. Three samples (unless otherwise specified) per date code are required (attrition to cover these samples must be ordered):</b></p> <ul style="list-style-type: none"> <li>• Visual inspection: <ul style="list-style-type: none"> <li>➢ Verifying component marking and that Date / Lot codes were in fact produced by the manufacturer.</li> <li>➢ Measure component physical dimensions per MIL-STD-883.</li> <li>➢ Conduct marking permanency test per MIL-STD-883.</li> </ul> </li> <li>• X-ray inspection to verify die and wire bond presence and integrity per MIL-STD-883. <ul style="list-style-type: none"> <li>➢ Submit images of die and wire bond presence to BUYER.</li> </ul> </li> </ul> <p>Components are subject to re-evaluation within 90 days of receipt.</p> <ul style="list-style-type: none"> <li>• In the event that the components are found to be defective and it cannot be demonstrated that SELLER was in conformance with the purchase order test requirements, BUYER shall have the right to reject them.</li> </ul> <div style="border: 1px solid gray; padding: 5px; margin-top: 10px; text-align: center;"> <p>Refer to the 'STD' Quality Clause 'y' (Counterfeit Parts Statement)</p> </div>

Quality Clause	<p align="center"><b>Quality Clause Description</b> (The following Quality Clauses only apply when specified on the purchase order)</p>
<p><b>102b</b></p>	<p><b><u>IC Testing Requirements (100%)</u></b></p> <div style="border: 2px solid red; padding: 5px; background-color: #ffffcc;"> <p align="center"><b>Quality Clause '102b' has been invoked, and only applies for the commodities and services that previously had Quality Clause '102a' invoked. Follow Quality Clause '102b' and ignore '102a'.</b></p> </div> <p>SELLER is 100% responsible for the compliance of this testing requirement prior to delivery to BUYER. SELLER shall supply documentation demonstrating compliance and maintain the records per the Document / Data Retention quality clause defined herein (<i>as applicable</i>).</p> <ul style="list-style-type: none"> <li>• Solderability for date codes older than two years per IPC / EIA / JEDEC J-STD-002, test "A" (leadless components) or test "B" (leadless components) solder bath/dip and look method – one component from each date code.</li> </ul> <p><b>The following inspection and tests are required if there is no documented lineage for the components. Three samples (unless otherwise specified) per date code are required (attrition to cover these samples must be ordered):</b></p> <ul style="list-style-type: none"> <li>• Visual inspection: <ul style="list-style-type: none"> <li>➢ Verifying component marking and that Date / Lot codes were in fact produced by the manufacturer.</li> <li>➢ Measure component physical dimensions per MIL-STD-883.</li> <li>➢ Conduct marking permanency test per MIL-STD-883.</li> </ul> </li> <li>• X-ray inspection to verify die and wire bond presence and integrity per MIL-STD-883. <ul style="list-style-type: none"> <li>➢ Submit images of die and wire bond presence to BUYER.</li> </ul> </li> <li>• Chemical decapsulation (one per date code) to verify die markings, date code and revisions correspond to component markings and were in fact produced by the manufacturer (destructive). <ul style="list-style-type: none"> <li>➢ Submit high resolution images of die markings, date code and revisions to BUYER.</li> </ul> </li> <li>• 100% (entire lot) "Group A" Test Yield Report Data (Electrical Tests per component specifications) <ul style="list-style-type: none"> <li>➢ Test data must be submitted to BUYER and approved in writing prior to shipment of components to BUYER.</li> </ul> <p>If SELLER does not supply 100% "Group A" Test Yield Report Data, then BUYER shall have the testing performed. If the parts fail BUYER's test, BUYER shall return for full credit of purchase cost + shipping + any other expenses.</p> </li> </ul> <p>Components are subject to re-evaluation within 90 days of receipt.</p> <p>In the event that the components are found to be defective and it cannot be demonstrated that SELLER was in conformance with the purchase order test requirements, BUYER shall have the right to reject them.</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><b>Refer to the 'STD' Quality Clause 'y' (Counterfeit Parts Statement)</b></p> </div>
<p><b>102c</b></p>	<p><b><u>IC Testing Requirements (SAE6081)</u></b></p> <div style="border: 2px solid red; padding: 5px; background-color: #ffffcc;"> <p align="center"><b>Quality Clause '102c' has been invoked, and only applies for the commodities and services that previously had Quality Clause '102a' invoked. Follow Quality Clause '102c' and ignore '102a'.</b></p> </div> <p>Verification of procured product shall be performed per SAE6081 section 4.2.6 (table 1 minimum required level A tests), except perform x-ray inspection of 100% of components. Note that samples shall be randomly selected. The same samples may be used for multiple tests.</p> <p>The report provided after testing must itemize each item from the test requirements with reference to the number of samples tested and the results of these tests.</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><b>Refer to the 'STD' Quality Clause 'y' (Counterfeit Parts Statement)</b></p> </div>

Quality Clause	<p align="center"><b>Quality Clause Description</b> (The following Quality Clauses only apply when specified on the purchase order)</p>
<p><b>102d</b></p>	<p><b><u>IC Testing Requirements (NG)</u></b></p> <p align="center"><b>Quality Clause '102d' has been invoked, and only applies for the commodities and services that previously had Quality Clause '102a' invoked. Follow Quality Clause '102d' and ignore '102a'.</b></p> <p>Verification of procured product shall be performed per SAE6081 section 4.2.6 (table 1 minimum required level A tests), except perform x-ray inspection of 100% of components. Note that samples shall be randomly selected. The same samples may be used for multiple tests.</p> <p>The report provided after testing must itemize each item from the test requirements with reference to the number of samples tested and the results of these tests.</p> <p><b><u>Test Houses</u></b> - the SELLER shall utilize one of the following test houses:</p> <ul style="list-style-type: none"> <li>• Integra Technologies - 3450 N. Rock Road, Wichita. KS</li> <li>• SMT Corporation - 14 High Bridge Road, Sandy Hook, CT</li> </ul> <p align="center"><b>Refer to the 'STD' Quality Clause 'y' (Counterfeit Parts Statement)</b></p>
<p><b>103x</b></p>	<p><b><u>Discrete / Passive / Connector Testing (Obtain Testing Requirements)</u></b></p> <p align="center"><b>An optional Quality Clause may be invoked to override '103a'</b></p> <p>The following quality clause has been invoked by the 'Quality Clause' tables. Unless otherwise specified (one of the quality clauses listed in the box below has been invoked on the PO), the SELLER shall follow the requirements stated in the following Quality Clause:</p> <ul style="list-style-type: none"> <li>• <b>103a</b> .....Discrete / Passive / Connector Testing (Default)</li> </ul> <p><b>NOTE:</b> If one of the following quality clauses has been invoked on the PO, then it shall be followed and quality clause 103a shall be ignored.</p> <ul style="list-style-type: none"> <li>• <b>103b</b> .....Discrete / Passive / Connector Testing (SAE6081)</li> <li>• <b>103c</b> .....Discrete / Passive / Connector Testing (NG)</li> </ul> <p align="center"><b>Refer to the 'STD' Quality Clause 'y' (Counterfeit Parts Statement)</b></p>

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Quality Clause	<b>Quality Clause Description</b> (The following Quality Clauses only apply when specified on the purchase order)
<b>103a</b>	<p><b><u>Discrete / Passive / Connector Testing (Default)</u></b></p> <p style="border: 2px solid red; padding: 5px; text-align: center;"><b>An optional Quality Clause may be invoked to override '103a'</b></p> <p>SELLER is 100% responsible for the compliance of this testing requirement prior to delivery to BUYER. SELLER shall supply documentation demonstrating compliance and maintain the records per the Document / Data Retention quality clause defined herein (<i>as applicable</i>).</p> <ul style="list-style-type: none"> <li>• Solderability for date codes older than two years per IPC / EIA / JEDEC J-STD-002, test "A" (leadless components) or test "B" (leadless components) solder bath/dip and look method – one component from each date code.</li> </ul> <p><b>The following visual inspection is required if there is no documented lineage for the component:</b></p> <ul style="list-style-type: none"> <li>➢ Verifying component marking and that Date / Lot codes were in fact produced by the manufacturer.</li> <li>➢ Measure component physical dimensions per MIL-STD-883.</li> <li>➢ Conduct marking permanency test per MIL-STD-883.</li> </ul> <p>When applicable, BUYER shall have "Group A" testing performed. If the parts fail BUYER's test, BUYER shall return for full credit of purchase cost + shipping + any other expenses.</p> <p>Components are subject to re-evaluation within 90 days of receipt.</p> <p>In the event that the components are found to be defective and it cannot be demonstrated that SELLER was in conformance with the purchase order test requirements, BUYER shall have the right to reject them.</p> <p style="border: 1px solid black; padding: 5px; text-align: center;"><b>Refer to the 'STD' Quality Clause 'y' (Counterfeit Parts Statement)</b></p>
<b>103b</b>	<p><b><u>Discrete / Passive / Connector Testing (SAE6081)</u></b></p> <p style="border: 2px solid red; padding: 5px; text-align: center;"><b>Quality Clause '103b' has been invoked, and only applies for the commodities and services that previously had Quality Clause '103a' invoked. Follow Quality Clause '103b' and ignore '103a'.</b></p> <p>Verification of procured product shall be performed per SAE6081 section 4.2.6 (table 1 minimum required level A tests). Note that samples shall be randomly selected. The same samples may be used for multiple tests.</p> <p>For all EEE components, 100% of the components shall be tested to all specified limits of all Group A static DC parameters at ambient temperature specified per the applicable drawing or in accordance with the applicable industry/military requirements or manufacturer's data sheet.</p> <p>The report provided after testing must itemize each item from the test requirements with reference to the number of samples tested and the results of these tests.</p> <p style="border: 1px solid black; padding: 5px; text-align: center;"><b>Refer to the 'STD' Quality Clause 'y' (Counterfeit Parts Statement)</b></p>

Quality Clause	<p align="center"><b>Quality Clause Description</b> (The following Quality Clauses only apply when specified on the purchase order)</p>
<p><b>103c</b></p>	<p><b><u>Discrete / Passive / Connector Testing (NG)</u></b></p> <div style="border: 2px solid red; padding: 5px; background-color: yellow;"> <p align="center"><b>Quality Clause '102c' has been invoked, and only applies for the commodities and services that previously had Quality Clause '103a' invoked. Follow Quality Clause '103c' and ignore '103a'.</b></p> </div> <p>Verification of procured product shall be performed per SAE6081 section 4.2.6 (table 1 minimum required level A tests). Note that samples shall be randomly selected. The same samples may be used for multiple tests.</p> <p>For all EEE components, 100% of the components shall be tested to all specified limits of all Group A static DC parameters at ambient temperature specified per the applicable drawing or in accordance with the applicable industry/military requirements or manufacturer's data sheet.</p> <p>The report provided after testing must itemize each item from the test requirements with reference to the number of samples tested and the results of these tests.</p> <p><b><u>Test Houses</u></b> - the SELLER shall utilize one of the following test houses:</p> <ul style="list-style-type: none"> <li>• Integra Technologies - 3450 N. Rock Road, Wichita. KS</li> <li>• SMT Corporation - 14 High Bridge Road, Sandy Hook, CT</li> </ul> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc;"> <p align="center"><b>Refer to the 'STD' Quality Clause 'y' (Counterfeit Parts Statement)</b></p> </div>
<p><b>104</b></p>	<p><b><u>X-ray fluorescence (XRF) Testing</u></b></p> <p>X-ray fluorescence (XRF) testing required. Shipment must include a certificate of conformance and a copy of the XRF testing report which needs to include:</p> <ul style="list-style-type: none"> <li>• Seller Name</li> <li>• NEO Tech Part Number</li> <li>• NEO Tech Purchase Order</li> <li>• Quantity Tested</li> </ul>
<p><b>105</b></p>	<p><b><u>Solderability &amp; Testing</u></b></p> <p>Unless otherwise specified in the product specification, material supplied on this purchase order shall meet the requirements of ANSI/J-STD-002, Category 3 Test Method A, B, or C as applicable. All products must have a date code within 18 Months from the receipt at SELLER.</p> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc;"> <p><b>NOTE:</b> SELLER is required to perform solderability and electrical testing on material older than 18 months. If material older than 18 months is shipped, specific written approval by BUYER Quality Assurance Department is required.</p> </div>
<p><b>106</b></p>	<p><b><u>Element Evaluation (LAT)</u></b></p> <p>The following quality clauses may have been invoked on the PO, or specified during the Quoting Process or stated on the drawing / SCD:</p> <ul style="list-style-type: none"> <li>• <b>106a</b> .....Element Evaluation (LAT) – Class H</li> <li>• <b>106b</b> .....Element Evaluation (LAT) – Class K</li> </ul>

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Quality Clause	<b>Quality Clause Description</b> (The following Quality Clauses only apply when specified on the purchase order)
<b>106a</b>	<p><b><u>Element Evaluation (LAT) – Class H</u></b></p> <p>SELLER must verify that all products on this purchase order meets the requirements of element evaluation per MIL-PRF-38534, Class H. Test reports and certifications must accompany each shipment. SELLER shall also retain this data on file for seven (7) years after completion of this purchase order.</p> <p>Conventional Element Evaluation is not required when elements are purchased as QML QPL certified parts.</p> <p>Passive Elements – element evaluation is not required when the elements are acquired from the Established Reliability series of military specifications and is listed on the QPL.</p> <p>Microcircuits &amp; Semiconductor Devices – element evaluation is not required for JANHC or JANKC discrete semiconductors Mil-PRF-19500 qualified die or for MIL-PRF-38535 Class V qualified die.</p> <p>Attributes data confirming successful LAT must accompany shipment.</p> <p>The original manufacturers C of C must be provided with each shipment of die.</p>
<b>106b</b>	<p><b><u>Element Evaluation (LAT) – Class K</u></b></p> <p>SELLER must verify that all products on this purchase order meets the requirements of element evaluation per MIL-PRF-38534, Class K. Test reports and certifications must accompany each shipment. SELLER shall also retain this data on file for seven (7) years after completion of this purchase order.</p> <p>Conventional Element Evaluation is not required when elements are purchased as QML QPL certified parts.</p> <p>Passive Elements – element evaluation is not required when the elements are acquired from the Established Reliability series of military specifications and is listed on the QPL.</p> <p>Microcircuits &amp; Semiconductor Devices – element evaluation is not required for JANKC discrete semiconductors MIL-PRF-19500 qualified die or for MIL-PRF-38535 Class V qualified die.</p> <p>The full LAT data package confirming successful LAT completion must accompany the shipment.</p> <p>The original manufacturers C of C must be provided with each shipment of die.</p>
<b>107</b>	<p><b><u>Pre-Cap Inspection</u></b></p> <p>Pre-cap inspection by BUYER is required prior to closure of the assemblies or containers procured on this contract. SELLER shall notify BUYER whose name is on this purchase order a minimum of Five (5) working days prior to assembly or container closure.</p> <p>BUYER reserves the right to waive, on an individual lot/shipment basis, this inspection. Authorization to continue processing of material, less this inspection, will be accomplished by written notification from BUYER. In this case, a copy of the written authorization must accompany the shipment. Failure to include the authorization document is cause for rejection.</p>
<b>199x</b>	<p><b><u>'Additional' Invoked Quality Clauses (by NEO Tech Site)</u></b></p> <p>This quality clause has been invoked by the 'Quality Clause' <b>TABLE 2</b>. If the PO was issued from one of the following NEO Tech sites, then the referenced Quality Clause shall be followed:</p> <ul style="list-style-type: none"> <li>• <b>Longmont, CO</b> ..... <b>Follow Quality Clause 199a</b></li> </ul>



**Quality Clause** **Quality Clause Description**  
(The following Quality Clauses only apply when specified on the purchase order)

**199a** ***'Additional' Invoked Quality Clauses (Longmont, CO)***

For purchase orders issued from the NEO Tech location: *Longmont, CO*, if the purchased P/N prefix is listed in the table below, then the applicable 'Additional' Quality Clauses **are invoked** per the applicable commodity (as noted in the 'Quality Clause' **TABLE 2**).

Quality Clause	Quality Clause Title	Purchased P/N Prefix (Begins With)					
		NGC	NGI	NGM	NGT	NGA	G
<b>1b</b>	Additional C of C Requirements (No ITAR Reference)						
<b>4</b>	ITAR – Rules for Handling Supplied Technical Data	●	●	●	●	●	●
<b>102c</b>	IC Testing Requirements (SAE6081)						●
<b>102d</b>	IC Testing Requirements (NG)	●	●	●	●	●	
<b>103c</b>	Discrete / Passive / Connector Testing (NG)	●	●	●	●	●	
<b>105</b>	Solderability & Testing		●		●	●	

**'Make-to-Print' Quality Clauses (200 – 299)**

<b>200</b>	<b><u>PCB Fabrication Specification</u></b> Follow BUYER's "PCB Fabrication Specification" (NT404 – latest revision). The document is referenced on BUYER purchase order, with a hyperlink to the document.
<b>201</b>	<b><u>PWB Panel X-Outs (Permitted)</u></b> For PCBs shipped in arrays, SELLER is allowed to ship X-outs as defined in BUYER's "PCB Fabrication Specification" (NT404 – latest revision). Any X-out exceptions to the process are specifically noted on the purchase order.

Quality Clause	<p align="center"><b>Quality Clause Description</b> (The following Quality Clauses only apply when specified on the purchase order)</p>
<p align="center"><b>202</b></p>	<p><b><u>Test Documentation</u></b></p> <p>1. SELLER shall retain objective written evidence of hardware conformance to the Purchase Order Requirements for each shipment.</p> <p>A. Recorded data shall include not only the results of all routine inspections and Dimensional Data Reports, along with all required tests results such as Conditioning, Burn-In, Lot Acceptance, Sampling and / or any other test used to determine item conformance.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p><b>NOTE:</b> When requested by BUYER, SELLER shall provide these reports as part of the Documentation Data Package supplied with shipped product.</p> </div> <p>B. If SELLER is a jobber or distributor of the item(s) in this Purchase Order, SELLER shall require the same performance documentation from the original manufacturer of the item(s). Additionally, SELLER shall secure from that manufacturer a right for BUYER to acquire or inspect (at BUYER's option) all pertinent data in that manufacturer's possession showing the items' compliance to specification.</p> <p>C. The exact format of the submitted data may vary from SELLER to SELLER, but shall contain the following minimum information:</p> <ul style="list-style-type: none"> <li>• SELLER's name</li> <li>• SELLER's Purchase Order number and revision</li> <li>• BUYER part number and Purchase Order number and revision</li> <li>• BUYER Drawing / Specification / SELLER planning revision level</li> <li>• Number of items in lot</li> <li>• Number of items inspected</li> <li>• Acceptable quality level (AQL) used</li> <li>• Lot number and date code (if applicable)</li> </ul> <p>D. SELLER may obtain attributes data or variable data at SELLER's discretion unless the variables data is specifically requested by BUYER. SELLER's format is acceptable. As a minimum, attributes data shall include the parameter inspected, the tolerance and the measurement obtained for each item inspected.</p> <p>E. Data sheets/test reports shall bear evidence of acceptance by SELLER's signature (or stamp) and date signed.</p> <p>2. <b>QUALITY RETENTION REQUIREMENTS.</b> The requested data is to be retained by SELLER per the stated Record / Data Retention after the date of the completion of this Purchase Order, unless otherwise specified in this Purchase Order. It shall be made available for review by BUYER's Representative when requested.</p> <p>3. The retention of inspection/test data, as provided herein, shall not modify or limit any representations, warranties, or commitments made elsewhere herein, or in any way affect the obligation of SELLER to perform strictly in accordance with the provisions of the Purchase Order.</p> <p>4. As defined per purchase order test data shall be supplied upon receipt of materials / parts being purchased.</p>
<p align="center"><b>203</b></p>	<p><b><u>J-STD-001</u></b></p> <p>All work performed must be in an area that meets the requirements of J-STD-001 with regard to Facilities, Environmental Controls, Temperature and Humidity and Lighting.</p>
<p align="center"><b>204</b></p>	<p><b><u>Critical Characteristics Identification</u></b></p> <p>When applicable, BUYER Engineering drawings and specifications will annotate critical characteristics exhibited by a symbol noted within the drawing legend or notes. SELLER must make provisions within their processes to assure that all requirements identified as a critical characteristic are in compliance and must provide documentation in the form of variable data unless specified otherwise.</p>

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Quality Clause	<b>Quality Clause Description</b> (The following Quality Clauses only apply when specified on the purchase order)
<b>205</b>	<p><b><u>Foreign Object Debris (FOD)</u></b></p> <p>SELLER shall establish and maintain an effective Foreign Object Damage (FOD) Prevention Program to reduce FOD using NAS412 as a guideline.</p> <p>The material supplied on this purchase order shall be manufactured in an environment that is free of foreign objects. Material supplied shall be free of foreign objects. SELLER's program shall utilize effective FOD prevention practices. The program shall be proportional to the sensitivity of the design of the product(s) to FOD, as well as, to the FOD generating potential of the manufacturing methods.</p> <p>The written procedures or policies developed by SELLER shall be subject to review upon request by BUYER Procurement Agent and/or government representative, and disapproval when SELLER's procedures or policies do not accomplish their objectives.</p>
<b>206x</b>	<p><b><u>First Article Required</u></b></p> <p>The following quality clause has been invoked by the 'Quality Clause' tables. Unless otherwise specified (one of the quality clauses listed in the box below has been invoked on the PO), the SELLER shall follow the requirements stated in the following Quality Clause:</p> <ul style="list-style-type: none"> <li>• <b>206a</b> .....<b>First Article Required (Default)</b></li> </ul> <div style="border: 1px solid black; background-color: #ffffcc; padding: 5px;"> <p><b>NOTE:</b> If one of the following quality clauses has been invoked on the PO, then it shall be followed and quality clause 206a shall be ignored.</p> <ul style="list-style-type: none"> <li>• <b>206b</b> .....<b>First Article Required (AS9102)</b></li> </ul> </div>
<b>206a</b>	<p><b><u>First Article Required (Default)</u></b></p> <div style="border: 2px solid red; background-color: #ffffcc; text-align: center; padding: 5px;"> <p><b>An optional Quality Clause may be invoked to override '206a'</b></p> </div> <p>SELLER shall perform full a first article inspection that accounts for all drawing and specification requirements. This requirement is applicable to all stamped, fabricated, machined, and electro-mechanical parts and assemblies. The first article inspection is a requirement of this purchase order if:</p> <ol style="list-style-type: none"> <li>1. This order is the first to SELLER's facility for the part number identified on the purchase order, or if</li> <li>2. This is a repeat purchase order and there has been a revision change to the drawing, or if</li> <li>3. There has been a break in SELLER's production of this part of more than two (2) years (unless otherwise specified in the contract), or if</li> <li>4. This is the first purchase order for this part number to call out the First Article requirement; i.e., it is a new requirement, or if</li> <li>5. There has been a change in a Sub-tier supplier or Manufacturing Process for any of the following special processes: Welding, Brazing, Plating and Painting.</li> <li>6. SELLER moves their manufacturing facility.</li> </ol> <p>Data from the first article inspection shall be delivered with the first shipment of initial order and first shipment subsequent revision orders. Hard copies of the first article inspection data or electronic medium are acceptable.</p>

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Quality Clause	<b>Quality Clause Description</b> (The following Quality Clauses only apply when specified on the purchase order)
<b>206b</b>	<p><b><u>First Article Required - (AS9102)</u></b></p> <p style="border: 2px solid red; background-color: yellow; padding: 5px;"> <b>Quality Clause '206b' has been invoked, and only applies for the commodities and services that previously had Quality Clause '206a' invoked. Follow Quality Clause '206b' and ignore '206a'.</b> </p> <p>SELLER shall perform a full First Article Inspection that conforms to Aerospace Standard AS9102 "Aerospace First Article Inspection Requirement" (latest revision). This requirement is applicable to all stamped, fabricated, machined, and electro-mechanical parts and assemblies.</p> <p>The first article inspection is a requirement of this purchase order if:</p> <ol style="list-style-type: none"> <li>1. This order is the first to SELLER's facility for the part number identified on the purchase order, or if</li> <li>2. This is a repeat purchase order and there has been a revision change to the drawing, or if</li> <li>3. There has been a break in SELLER's production of this part of more than two (2) years (unless otherwise specified in the contract), or if</li> <li>4. This is the first purchase order for this part number to call out the First Article requirement; i.e., it is a new requirement, or if</li> <li>5. There has been a change in a sub-tier supplier or Manufacturing Process for any of the following special processes: Welding, Brazing, Plating and Painting.</li> <li>6. SELLER moves their manufacturing facility.</li> </ol> <p>The F/A Report shall be submitted to BUYER for approval prior to acceptance of the production run or as instructed by the procuring activity. Hard copies of the first article inspection data or electronic medium are acceptable.</p> <p>The initial compliance to Aerospace First Article Inspection will not be complete until a BUYER representative provides acceptance in written format to the respective First Article.</p>
<b>207</b>	<p><b><u>Cable Harness and Terminated Wires</u></b></p> <p><b>Terminations:</b></p> <ul style="list-style-type: none"> <li>• All crimping needs to comply with the manufacturers published requirements (crimp height or pull tests). Results of tests must be provided with unique lot / date code produced.</li> </ul> <p><b>Quality Requirements:</b></p> <ul style="list-style-type: none"> <li>• Cables &amp; terminated wires must comply with the requirements of IPC/WHMA-A-620 (latest revision).</li> </ul> <p><b>Testing:</b></p> <ul style="list-style-type: none"> <li>• Wires terminated and plugged must be electrically validated.</li> </ul>
<b>299x</b>	<p><b><u>'Additional' Invoked Quality Clauses (by NEO Tech Site)</u></b></p> <p>This quality clause has been invoked by the 'Quality Clause' <b>TABLE 3</b>. If the PO was issued from one of the following NEO Tech sites, then the referenced Quality Clause shall be followed:</p> <p style="border: 1px solid black; background-color: yellow; padding: 5px;"> <ul style="list-style-type: none"> <li>• <b>Longmont, CO</b> ..... <b>Follow Quality Clause 299a</b></li> </ul> </p>

Quality Clause	Quality Clause Description (The following Quality Clauses only apply when specified on the purchase order)																																																																																																																	
<b>299a</b>	<p><b><u>'Additional' Invoked Quality Clauses (Longmont, CO)</u></b></p> <p>For purchase orders issued from the NEO Tech location: <i>Longmont, CO</i>, if the purchased P/N prefix is listed in the table below, then the applicable 'Additional' Quality Clauses <b>are invoked</b> per the applicable commodity (as noted in the 'Quality Clause' <b>TABLE 3</b>).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="background-color: #cccccc;">Quality Clause</th> <th rowspan="2" style="background-color: #cccccc;">Quality Clause Title</th> <th colspan="7" style="background-color: #cccccc;">Purchased P/N Prefix (Begins With)</th> </tr> <tr> <th style="background-color: #cccccc;">NGC</th> <th style="background-color: #cccccc;">NGI</th> <th style="background-color: #cccccc;">NGM</th> <th style="background-color: #cccccc;">NGT</th> <th style="background-color: #cccccc;">NGA</th> <th style="background-color: #cccccc;">G</th> <th style="background-color: #cccccc;">SEA</th> </tr> </thead> <tbody> <tr> <td style="background-color: #cccccc;">1b</td> <td>Additional C of C Requirements (No ITAR Reference)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="background-color: #cccccc;">203</td> <td>J-STD-001</td> <td style="text-align: center;">●</td><td style="text-align: center;">●</td><td style="text-align: center;">●</td><td style="text-align: center;">●</td><td style="text-align: center;">●</td><td></td><td></td> </tr> <tr> <td style="background-color: #cccccc;">206b</td> <td>First Article Required - (AS9102)</td> <td style="text-align: center;">●</td><td style="text-align: center;">●</td><td style="text-align: center;">●</td><td style="text-align: center;">●</td><td style="text-align: center;">●</td><td></td><td></td> </tr> <tr> <td style="background-color: #cccccc;">401</td> <td>Prohibited Material Certificate</td> <td></td><td></td><td></td><td style="text-align: center;">●</td><td></td><td></td><td></td> </tr> <tr> <td style="background-color: #cccccc;">402</td> <td>Titanium (Western Titanium)</td> <td style="text-align: center;">●</td><td style="text-align: center;">●</td><td style="text-align: center;">●</td><td style="text-align: center;">●</td><td style="text-align: center;">●</td><td></td><td></td> </tr> <tr> <td style="background-color: #cccccc;">403a</td> <td>Pure Tin</td> <td style="text-align: center;">●</td><td style="text-align: center;">●</td><td style="text-align: center;">●</td><td style="text-align: center;">●</td><td style="text-align: center;">●</td><td></td><td></td> </tr> <tr> <td style="background-color: #cccccc;">404</td> <td>Pure Cadmium, Zinc</td> <td></td><td></td><td></td><td style="text-align: center;">●</td><td></td><td></td><td></td> </tr> <tr> <td style="background-color: #cccccc;">406</td> <td>Westinghouse</td> <td style="text-align: center;">●</td><td style="text-align: center;">●</td><td style="text-align: center;">●</td><td style="text-align: center;">●</td><td style="text-align: center;">●</td><td></td><td></td> </tr> <tr> <td style="background-color: #cccccc;">500</td> <td>DFARS 252.225-7009</td> <td></td><td></td><td></td><td></td><td></td><td style="text-align: center;">●</td><td style="text-align: center;">●</td> </tr> <tr> <td style="background-color: #cccccc;">501</td> <td>DFARS 252.211-7003</td> <td></td><td></td><td></td><td style="text-align: center;">●</td><td style="text-align: center;">●</td><td></td><td style="text-align: center;">●</td> </tr> </tbody> </table>								Quality Clause	Quality Clause Title	Purchased P/N Prefix (Begins With)							NGC	NGI	NGM	NGT	NGA	G	SEA	1b	Additional C of C Requirements (No ITAR Reference)								203	J-STD-001	●	●	●	●	●			206b	First Article Required - (AS9102)	●	●	●	●	●			401	Prohibited Material Certificate				●				402	Titanium (Western Titanium)	●	●	●	●	●			403a	Pure Tin	●	●	●	●	●			404	Pure Cadmium, Zinc				●				406	Westinghouse	●	●	●	●	●			500	DFARS 252.225-7009						●	●	501	DFARS 252.211-7003				●	●		●
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<b>'Service' Quality Clauses (300 – 399)</b>																																																																																																																		
<b>300</b>	<p><b><u>Lead Forming</u></b></p> <p>When applicable, material lead forming must be compliant with J-STD-001 and IPC-610 latest revisions.</p>																																																																																																																	
<b>301</b>	<p><b><u>Material Chemical Composition</u></b></p> <p>Provide the raw material Certificate of Conformance (C of C) for ALL components used in the assembly / processing of this product (analysis of material make up).</p>																																																																																																																	
<b>302</b>	<p><b><u>Conformal Coating</u></b></p> <p>Conformal coating must comply with J-STD-001 &amp; IPC-A-610 (class indicated on product documentation provided). Coating thickness measurement shall be included on the Certificate of Conformance (C of C).</p>																																																																																																																	
<b>303</b>	<p><b><u>Orange Dot</u></b></p> <p>An orange dot is required for identification on all parts that went to process for Lead Re-Finishing and/or Re-Balling, as follows:</p> <ul style="list-style-type: none"> <li>Parts that have a larger package size than SOIC8 will require an orange dot and it should not be interfere with any marking of the part.</li> <li>All parts smaller than SOIC8 will not require the orange dot.</li> </ul>																																																																																																																	

Quality Clause	<p align="center"><b>Quality Clause Description</b> (The following Quality Clauses only apply when specified on the purchase order)</p>
<b>304x</b>	<p><b><u>Programmable Integrated Circuit</u></b></p> <p>The following quality clause has been invoked by the 'Quality Clause' tables. Unless otherwise specified (one of the quality clauses listed in the box below has been invoked on the PO), the SELLER shall follow the requirements stated in the following Quality Clause:</p> <ul style="list-style-type: none"> <li>• <b>304a</b> .....Programmable Integrated Circuit</li> </ul> <div style="border: 1px solid black; background-color: #ffffcc; padding: 5px;"> <p><b>NOTE:</b> If one of the following quality clauses has been invoked on the PO, then it shall be followed and quality clause 403a shall be ignored.</p> <ul style="list-style-type: none"> <li>• <b>304b</b> .....Programmable Integrated Circuit (PIC) – Serialization Records</li> </ul> </div>
<b>304a</b>	<p><b><u>Programmable Integrated Circuit</u></b></p> <div style="border: 2px solid red; background-color: #ffffcc; padding: 5px; text-align: center;"> <p><b>An optional Quality Clause may be invoked to override '304a'</b></p> </div> <p>The check sum shall be included on the Certificate of Conformance (C of C) or included in a separate program report with each shipment.</p>
<b>304b</b>	<p><b><u>Programmable Integrated Circuit (PIC) – Serialization Records</u></b></p> <div style="border: 2px solid red; background-color: #ffffcc; padding: 5px; text-align: center;"> <p><b>Quality Clause '304b' has been invoked, and only applies for the commodities and services that previously had Quality Clause '304a' invoked. Follow Quality Clause '304b' and ignore '304a'.</b></p> </div> <p>A data record is required with each shipment that identifies the serialization sequence block programmed into devices delivered.</p>

Quality Clause

**Quality Clause Description**

(The following Quality Clauses only apply when specified on the purchase order)

**Material Re-Packaging**

**Tape & Reel**

All material that is removed and replaced in packaging must be verified to have a common orientation with the packaging. When tape and reel packaging is used, the orientation shall be aligned as shown in the OEM's data sheet. When the OEM data sheet does not indicate orientation of the material in the package, use the reference table below.

**305**

SUPPLY ANGLE	0	SUPPLY ANGLE	0
ATTEN		SOP/HOP/SOJ/ TSSOP-2	
SQUARE CHIP/TANT		QFP/QFN	
MELF		PLCC (QFJ)	
SOT-23		TSOP-1	
SOT-23-5		ELECTROLYTIC CAP	
SOT-23-6		SER-1360 INDUCTOR	
SOT-89		COAX RECEPTACLE	
DPAK		SMALL COAX RF	
FET		SPLITTER/COUPLER 6pin	

**Tray Components**

Pin one orientation or the material must align with the tray notches.

**306x**

**Lead Refinishing Requirements**

One of the following quality clauses has been invoked by the 'Quality Clause' tables.

- **306a** .....Lead Tinning (NG)

**306a**

**Lead Tinning (NG)**

Services provided must be in compliance with the requirements listed in Northrop Grumman document number 093-014904 (COMPONENT LEAD REFINISHING REQUIREMENTS).

**307x**

**Re-Balling Requirements**

One of the following quality clauses has been invoked by the 'Quality Clause' tables.

- **307a** .....Re-Balling (NG)

**307a**

**Re-Balling (NG)**

Services provided must be in compliance with the requirements listed in Northrop Grumman document number 093-013849 (LEAD-FREE COMPONENT REFINISHING), except for Section 4.1.10 concerning Part Marking.

Quality Clause	Quality Clause Description (The following Quality Clauses only apply when specified on the purchase order)																																																																				
<b>399x</b>	<p><b><u>'Additional' Invoked Quality Clauses (by NEO Tech Site)</u></b></p> <p>This quality clause has been invoked by the 'Quality Clause' <b>TABLE 4</b>. If the PO was issued from one of the following NEO Tech sites, then the referenced Quality Clause shall be followed:</p> <ul style="list-style-type: none"> <li>• <b>Longmont, CO</b> ..... Follow Quality Clause <b>399a</b></li> </ul>																																																																				
<b>399a</b>	<p><b><u>'Additional' Invoked Quality Clauses (Longmont, CO)</u></b></p> <p>For purchase orders issued from the NEO Tech location: <b>Longmont, CO</b>, if the purchased P/N prefix is listed in the table below, then the applicable 'Additional' Quality Clauses <b>are invoked</b> per the applicable service (as noted in the 'Quality Clause' <b>TABLE 4</b>).</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2" style="background-color: #cccccc;">Quality Clause</th> <th rowspan="2" style="background-color: #cccccc;">Quality Clause Title</th> <th colspan="6" style="background-color: #cccccc;">Purchased P/N Prefix (Begins With)</th> </tr> <tr> <th style="background-color: #cccccc;">NGC</th> <th style="background-color: #cccccc;">NGI</th> <th style="background-color: #cccccc;">NGM</th> <th style="background-color: #cccccc;">NGT</th> <th style="background-color: #cccccc;">NGA</th> <th style="background-color: #cccccc;">G</th> </tr> </thead> <tbody> <tr> <td style="background-color: #cccccc;">1b</td> <td style="background-color: #cccccc;">Additional C of C Requirements (No ITAR Reference)</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="background-color: #cccccc;">4</td> <td style="background-color: #cccccc;">ITAR</td> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> <tr> <td style="background-color: #cccccc;">203</td> <td style="background-color: #cccccc;">J-STD-001</td> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td></td> </tr> <tr> <td style="background-color: #cccccc;">303</td> <td style="background-color: #cccccc;">Orange Dot</td> <td></td><td>●</td><td></td><td>●</td><td>●</td><td></td> </tr> <tr> <td style="background-color: #cccccc;">306a</td> <td style="background-color: #cccccc;">Lead Tinning (NG)</td> <td></td><td>●</td><td></td><td>●</td><td>●</td><td></td> </tr> <tr> <td style="background-color: #cccccc;">307a</td> <td style="background-color: #cccccc;">Re-Balling (NG)</td> <td></td><td>●</td><td></td><td>●</td><td>●</td><td></td> </tr> </tbody> </table>							Quality Clause	Quality Clause Title	Purchased P/N Prefix (Begins With)						NGC	NGI	NGM	NGT	NGA	G	1b	Additional C of C Requirements (No ITAR Reference)							4	ITAR	●	●	●	●	●	●	203	J-STD-001	●	●	●	●	●		303	Orange Dot		●		●	●		306a	Lead Tinning (NG)		●		●	●		307a	Re-Balling (NG)		●		●	●	
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<b>'Prohibited Material' Quality Clauses (400 – 499)</b>																																																																					
<b>401</b>	<p><b><u>Prohibited Material Certificate</u></b></p> <p>SELLER MUST submit a certificate with each shipment stating the 'Prohibited Materials', and that they are not present in their deliverable product.</p>																																																																				
<b>402</b>	<p><b><u>Titanium (Western Titanium)</u></b></p> <p>Communication from the Department of Defense has raised a question regarding whether titanium sourced from <b>Western Titanium, Inc.</b> or <b>March 2 Metals</b> conforms to applicable contract requirements and/or Government specifications. Accordingly, absent written approval of BUYER's customer, no products delivered under this purchase order shall contain rolled plate or forged bar titanium sourced from Western Titanium, Inc. or March 2 Metals at any sub-tier supplier level.</p>																																																																				
<b>403x</b>	<p><b><u>Pure Tin</u></b></p> <p>One of the following quality clauses has been invoked by the 'Quality Clause' tables.</p> <ul style="list-style-type: none"> <li>• <b>403a</b> ..... Pure Tin (Default)</li> <li>• <b>403b</b> ..... Pure Tin (w/ Test Report)</li> </ul>																																																																				
<b>403a</b>	<p><b><u>Pure Tin</u></b></p> <p>All construction and finishes for material and product shipped against this purchase order line item containing pure tin is prohibited, unless they contain a minimum of 3 weight percent alloying element(s), i.e., lead, silver, etc.</p>																																																																				



 <b>NEOTech</b> Corporate Document	Standard Operating Procedure  <b>Quality Clauses</b>	Document Number <b>NT104</b>  Revision: <b>C</b>
Original Author: <b>James Cahill</b>	Process Owner: <b>James Cahill</b>	Page <b>33</b> of <b>34</b>

Quality Clause	<b>Quality Clause Description</b> (The following Quality Clauses only apply when specified on the purchase order)
<b>403b</b>	<u><b>Pure Tin (w/ Test Report)</b></u> All construction and finishes for material and product shipped against this purchase order line item containing pure tin is prohibited, unless they contain a minimum of 3 weight percent alloying element(s), i.e., lead, silver, etc. <div style="border: 1px solid black; padding: 2px;"> All solder coated components shall be shipped with a test report to document that the solder is not pure tin. </div>
<b>404</b>	<u><b>Pure Cadmium, Zinc</b></u> All construction and finishes for material and product shipped against this purchase order line item containing pure cadmium or pure zinc is prohibited.
<b>405</b>	<u><b>Aluminum</b></u> Purchase of Aluminum material from either <b>Alcoa</b> facilities in <b>Belaya Kalitva</b> or <b>Samara Russia</b> or from any <b>Kaiser</b> facility is prohibited.
<b>406</b>	<u><b>Westinghouse</b></u> Material shipped against this purchase order item shall not contain any marking with the <b>Westinghouse</b> name or logo. Should any specification forming a part of this purchase order item contain a requirement for such marking, SELLER shall immediately contact BUYER for appropriate direction.
<b>'DFARS' Quality Clauses (500 – 599)</b>	
<b>500</b>	<u><b>DFARS 252.225-7009 (Restriction on Acquisition of Certain Articles Containing Specialty Metals)</b></u> All material delivered under this purchase order shall be produced in compliance with the DFARS <b>252.225-7009</b> . The applicable DFARS shall be documented on the packing slip or Certificate of Conformance.
<b>501</b>	<u><b>DFARS 252.211-7003 (Item Identification and Valuation)</b></u> All material delivered under this purchase order shall be produced in compliance with the DFARS <b>252.225-7003</b> . The applicable DFARS shall be documented on the packing slip or Certificate of Conformance.
<b>502</b>	<u><b>DFARS 252.204-7000 (Disclosure Of Information)</b></u> Clause requires that no information about the contract be released without approval of the Contracting Officer. Applies to contractor and subcontractor; must request approval through the prime. The Contractor agrees to include a similar requirement in each subcontract under this contract.
<b>503</b>	<u><b>DFARS 252.227-7025 (Limitations On The Use Or Disclosure Of GFI)</b></u> The clause informs contracts and subcontractors that there are limitations (limited rights/restricted rights) on the use and / or disclosure of Government Furnished Information marked with restrictive legends and licensed rights legends. Applicability: Contracts and Subcontracts with Government Furnished Information.

**DFARS 252.225-7014 (Preference for Specialty Metals, Alternate I)**

Pursuant to DFARS 252.225-7014, specialty metals incorporated in articles delivered to BUYER must be: (1) melted in the United States, its possessions or Puerto Rico; (2) melted in a "qualifying country" as defined in DFARS 225.872-1; or, (3) incorporated in an article manufactured in a "qualifying country."

Briefly, this clause requires that any specialty metals (as defined in the clause) incorporated in hardware deliverable under DoD contracts must be melted in the United States or a qualifying country.

As BUYER is flowing this requirement down to all of our SELLERs, it is incumbent upon SELLER to flow the clause down to any of their sub-tier suppliers for this product.

Basic requirements:

- Specialty metals must be melted in the United States or a qualifying country, or they can be melted anywhere but must be "incorporated in an article manufactured in a qualifying country: The clause allows a qualifying country to manufacture parts from metal that was melted anywhere, provided it meets specifications, but a United States company can only use metal that was melted in the United States or a qualifying country.
- As of the date of this bulletin, the qualifying countries are: Australia, Belgium, Canada, Denmark, Egypt, Federal Republic of Germany, France, Greece, Israel, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom of Great Britain and Northern Ireland.

**WARNING:** Procurement of raw material from a casting or rolling mill in the United States or qualifying country does not necessarily mean the raw material was melted in the United States or a qualifying country. All applicable certifications must be scrutinized to determine the country where the metal was melted.

- "Specialty Metals" means:
  - A. Steel with a maximum alloy content exceeding one or more of the following limits: manganese, 1.65%; Silicon, 0.60%; or copper, 0.60%; or ii) containing more than 0.25% of any of the following elements: aluminum, chromium, cobalt, columbium, molybdenum, nickel, titanium, tungsten, or vanadium.
 

Example 1: Steel containing 1.15% chromium melted in Japan and used in the United States in the manufacture of any item to be delivered pursuant to a contract with the US Government is not compliant with DFARS 252.225-7014, Alt I. Explanation – Steel containing more than 0.25% chromium is defined as a specialty metal and, therefore, must either be melted in the United States or a qualifying country, or be melted anywhere and incorporated into a deliverable item in a qualifying country. Japan is not on the list of qualifying countries.

Example 2: Steel melted in Japan containing 0.20% chromium and not having alloy or element contents in excess of the thresholds set forth in DFARS 252.225-7014, Alt I is compliant with that DFARS clause. Explanation – Steel containing more than 0.25% chromium is defined as a specialty metal. However, in this case, the steel contains only 0.20%, so it is not a specialty metal. It does not have to be produced in the United States or a qualifying country. This material from Japan would be acceptable.
  - B. Metal alloy consisting of nickel, iron-nickel, and cobalt base alloys containing a total of other alloying metals (except iron) in excess of 10 percent;
  - C. Titanium and titanium alloys; and
  - D. Zirconium and zirconium base alloys.

**Should the product you are supplying to BUYER contain such metals as described above and in the referenced DFARS clause, BUYER will assume that SELLERs Certification of Conformance delivered with the product will include certification of compliance to this requirement.**