**SECHAN ELECTRONICS, INC.**

**SUPPLIER QUALITY ASSURANCE REQUIREMENTS**

The following Quality Assurance requirements become an integral part of the Sechan Order and applicable to both the Supplier and the Supplier's sub-tier suppliers. The applicable quality requirements (QR) are noted on the Sechan Order. **Unless otherwise noted, referenced DOD or industry documentation revision levels shall be that revision level effective on the date of the original Sechan purchase order.** Verbal instruction to deviate from the Sechan order is not authorized. All deviations require a properly authorized change order.

**QR-1** **SUPPLIER QUALITY SYSTEM**

Suppliers and their sub-tier suppliers shall implement and maintain a quality system that is compliant to either the ANSI/ISO/ASQ 9001 or AS/EN9100 industry standards. Third party registration is required. The status of the Supplier’s quality system shall be reported to Sechan during Supplier quality surveys and survey updates.

**QR-2** **SUPPLIER QUALITY SYSTEM**

An ANSI/ISO/ASQ 9001 or AS9100 quality system with third party registration is preferred. The minimum supplier quality system requirement is compliance to MIL-I-45208A Amendment 2. The status of the Supplier’s quality system shall be reported to Sechan during Supplier quality surveys and survey updates.

**QR-3 GENERAL PURCHASE ORDER C OF C**

Each shipment shall be accompanied by one legible copy of a signed Supplier Certificate of Conformance (C of C) which certifies that all requirements have been complied with against the order. The C of C shall contain the following as a minimum:

1. Sechan Purchase Order number.
2. Sechan part number being provided (must match P/N ordered, not from “description” field if a part number referenced therein).
3. Sechan part number revision being provided (if applicable).
4. Quantity shipped.

The Supplier shall maintain supporting records at their facility. Material must be new (i.e. not refurbished, reconditioned, reclaimed, etc.). Material other than new MUST have Sechan’s prior knowledge and written approval prior to shipping.

**QR-3.1 MERCURY CONTAMINATION EXCLUSION CERTIFICATION**

Materials delivered to Sechan under this order that contain elemental mercury, mercury compounds, or were manufactured using mercury bearing equipment shall be noted by either (a) label stating such on the component packaging or (b) statement prominently printed on the shipping documentation. This requirement applies to each affected part number date code or serial in each delivery lot.

**QR-3.2 QUALITY RECORD RETENTION**

The Supplier shall maintain deliverable material acceptance records for a period of not less than 10 (ten) years. If the Supplier cannot comply with this requirement, the supplier must arrange transfer to Sechan for storage.

**QR-3.3 RAW MATERIAL CERTIFICATION**

All raw materials (including those provided by sub-tier suppliers) required in the manufacture of the Sechan ordered items require a conformance certification. This certification set shall accompany product shipment and shall include (a) material specification, (b) description, (c) material alloy and (d) condition. Mill certifications for metallic materials provided shall include (a) physical properties, (b) chemical analysis and (c) lot numbers.

**QR-3.4 SPECIAL PROCESS APPROVAL AND CERTIFICATION**

Suppliers and sub-tier suppliers performing special processes shall be identified to Sechan and approved by an accredited third party organization PRIOR to performing these processes on deliverable material. When used, the process provider shall provide a Compliance Certification to the applicable process specification. An example of third party process approval would be NADCAP registration.

**QR-3.5 NORTHROP GRUMMAN APPROVED SPECIAL PROCESSOR LIST (ASPL) AND PROVIDER CERTIFICATION**

Suppliers and sub-tier suppliers shall certify that drawing specified special processes performed on delivered material are performed by ASPL providers listed on the NGC Oasis web site at

<https://oasisext.northropgrumman.com/sympreq/aspl/aspl.asp>. The process provider shall provide a Compliance Certification to the applicable process specification.

**QR-3.6 ALUMINUM CONDUCTIVITY CERTIFICATION**

Aluminum fabricated material shall be 100% conductivity inspected after fabrication. Measurements shall be taken such that the entire part can be validated as being compliant to the applicable requirements of AMS2658 and QOS-0021. When used, the process provider shall provide a Compliance Certification to the applicable process specification.

**QR-3.7 BOEING APPROVED PROCESS SOURCE (APS) PROVIDER CERTIFICATION**

Suppliers and sub-tier suppliers shall certify that drawing specified special processes performed on delivered material were performed by APS

providers listed on the Boeing web site at

<http://www.boeingsuppliers.com> (then choose ‘Supplier Quality’, then ‘Approved Process Sources D1-4426’). The process provider shall provide a Compliance Certification to the applicable process specification.

**QR-3.8 DRAWINGS: C of C with OCM/OEM Traceability**

Drawings that contains custom items combined with Commercial Off the Shelf (COTS) and/or Military Specification (MS) items shall be accompanied by one legible copy of:

1. A signed Supplier Certificate of Conformance (C of C) which certifies that all requirements have been complied with against the order. The C of C shall contain the following as a minimum:
2. Sechan Purchase Order number.
3. Sechan part number being provided (must match P/N ordered, not from “description” field if a part number referenced therein.)
4. Sechan part number revision being provided (if applicable).
5. Quantity shipped.
6. For each COTS and/or MS part used on the assembly, a copy of original OEM/OCM certification traceable to the original manufacturing run **or** Information transferred from the OCM/OEM provided traceability documents onto the supplier’s traceability format.

The Supplier shall maintain supporting records at their facility. Material must be new (i.e. not refurbished, reconditioned, reclaimed, etc.). Material other than new MUST have Sechan’s prior knowledge and written approval prior to shipping.

**QR-3.9 PIECE PART OEM/OCM/FRANCHISED Distributor**

Each shipment shall be accompanied by one legible copy of a signed Supplier Certificate of Conformance (C of C) which certifies that all requirements have been complied with against the order. The C of C shall contain the following as a minimum:

1. Sechan Purchase Order number.
2. Sechan part number being provided (must match P/N ordered, not from “description” field if a part number referenced therein).
3. Sechan part number revision being provided (if applicable).
4. Quantity shipped.

5. Copy of original OEM/OCM certification traceable to the original manufacturing run (e.g. OEM/OCM’s name and any relevant date codes, lot numbers, date of manufacture, etc.). **If a Franchised Distributor,** and original OCM/OEM certificates are not available, contact the Sechan Buyer for acceptable alternatives (e.g. Information transferred from the

OCM/OEM provided traceability documents onto the supplier’s traceability format, copy of corporate policy that does not provide any types of traceability).

Material must be new (i.e. not refurbished, reconditioned, reclaimed, etc.). Material other than new MUST have Sechan’s prior knowledge and written approval prior to shipping.

In order to ensure the authenticity of the supplied material, a Supplier shall have some form of counterfeit avoidance program. Reference AS5553 for electrical type parts and AS6174 for mechanical type parts for guidance. If the Supplier subcontracts to another Supplier against this order, the Supplier shall flow this requirement down to their supplier.

**QR-4 SUPPLIER'S CORRECTIVE ACTION SYSTEM**

Supplier shall provide a documented corrective action statement for returned discrepant items which states whether items were reworked or replaced, and if reworked, what rework was performed. Additionally, the Supplier shall respond in a timely manner to each Sechan issued Supplier Corrective Action Request providing root-cause and corrective action statements.

**QR-5 SUPPLIER CONFIGURATION CONTROL**

The Supplier may not make changes to the technical documentation, specifications or drawings referenced by the Sechan Order without prior approval by Sechan. Proposed change definition shall be submitted to the Sechan Buyer. The shipment of new configuration materials prior to Sechan approval of the change is not permitted.

**QR-6 SECHAN VISITATION AUTHORITY**

Sechan reserves the right to perform visits, inspection, and surveillance at the Supplier's facility to evaluate procurement compliance and/or corrective action implementation. The Supplier shall make the facility and any relevant data available. Sechan also reserves the right to invite its customer on any visit for similar situations.

**QR-7 NONCONFORMING MATERIAL DISPOSITION**

Supplier shipment of nonconforming material without specific, prior approval by Sechan is not permitted. A request for waiver shall be submitted to the Sechan Buyer documenting the material condition. Previous disposition shall not be considered as a precedent for continued delivery of non-conforming material. Re-submittal of non-conforming material shall be identified either on the material or the shipping document(s) with reference to Sechan's rejection document and evidence provided that the causes for rejection have been corrected.

**QR-8 NOT USED**

**QR-9 NOT USED**

**QR-10 OSHA MATERIAL SAFETY DATA SHEET (MSDS)**

Materials delivered to Sechan under this order shall include a MSDS (paper copy) with the first delivery and with any subsequent revision of the MSDS. Failure to provide this data can result in delayed material acceptance or rejection.

**QR-11 GSI, GOVERNMENT COORDINATED**

Government inspection is required prior to product shipment from your plant. Upon receipt of this order, promptly notify the Government Representative who normally services your plant so that appropriate planning for Government inspection can be accomplished. In the event the representative or office cannot be located, the Supplier shall immediately notify the Sechan Buyer.

**QR-11.1 GSI, SUPPLIER COORDINATED**

U.S. Government inspection is required prior to shipment from your plant. On receipt of this order, promptly furnish a copy to the Government Representative who normally services your plant, or if none, to the nearest Army, Navy, Air Force, or Defense Supply Agency inspection office. In the event the representative or office is undetermined or cannot be located, the Supplier should immediately notify the Sechan Buyer.

**QR-12 GOVERNMENT SOURCE SURVEILLANCE**

U.S. Government process surveillance is required during the manufacture of this product. Upon receipt of this order, promptly notify the Government representative who normally services this facility or the CMO so that planning for surveillance activities can be initiated. Process surveillance methods shall be established and conducted at the discretion of the responsible Government Representative. In the event the Government representative is undetermined or cannot be located the supplier should immediately notify the Sechan Buyer.

**QR-13 ARTWORK PROOF CONCURRENCE**

The Supplier shall prepare and submit an artwork proof produced under this order which will become the basis for production material acceptance. A formal approval from Sechan is required before production material may be received.

**QR-14 SECHAN SOURCE INSPECTION**

All items furnished under this order shall be verified and/or inspected by Sechan at the Supplier's plant prior to shipment. Notify the Sechan Quality Assurance Office ten (10) working days prior to shipment so that appropriate scheduling can be accomplished. When justified, Sechan may choose to waive this source inspection requirement on a lot to lot basis.

**QR-15 ACCEPTANCE TEST REPORTS**

Supplier's Acceptance Test Data (Supplier format acceptable) identifiable to the material or items supplied, must accompany each shipment. Data shall provide objective evidence of compliance to applicable procurement documents. Failure to provide this data will result in Receiving Inspection processing delay.

**QR-16 COMPONENT SOLDERABILITY**

The Supplier shall provide material which meets component lead solderability requirements of ANSI-J-STD-002 Test A, B or C, as applicable and as amended by MIL-STD-202 Method 208. Defective material will be reworked or returned at Supplier expense.

**QR-16.1 COMPONENT LEAD-FREE LEAD FINISH**

Materials delivered to Sechan under this order that contain lead-free lead finishes shall be noted by either(a) label stating such on the component packaging or (b) statement prominently printed on the shipping documentation. This requirement applies to each affected part number date code or serial in each material delivery.

**QR-16.2 J-STD-004 LOW ACTIVITY FLUX**

 Liquid flux delivered to Sechan under this order shall be in accordance with J-STD-004, low activity, Type L0 or L1.

**QR-16.3 J-STD-004 ACTIVE FLUX**

Liquid flux delivered to Sechan under this order shall be in accordance with J-STD-004, Types M or H.

**QR-16.4 J-STD-006 SOLDER ALLOY, LOW FLUX ACTIVITY**

Electronic grade solder alloys delivered to Sechan under this order shall contain low activity fluxes in accordance with J-STD-006, Type ORL0 or ORL1.

**QR-16.5 J-STD-006 SOLDER ALLOY, MODERATE FLUX ACTIVITY**

Electronic grade solder alloys delivered to Sechan under this order shall contain moderate activity fluxes in accordance with J-STD-006, Type ORM0 or ORM1.

**QR-16.6 J-STD-006 SOLDER ALLOY, BAR STOCK**

Electronic grade solder alloy delivered to Sechan under this order shall be SN63PB37SB.4A as defined by J-STD-006.

**QR-16.7 J-STD-006 SOLDER ALLOY, HIGH FLUX ACTIVITY**

Electronic grade solder alloys delivered to Sechan under this order shall contain high activity fluxes in accordance with J-STD-006, Type ORH0 or ORH1.

**QR-17 RESISTANCE TO SOLVENTS**

When an item is required to be marked on the part, the Supplier shall mark material in such a manner

that the markings will remain legible and the product unaffected when subjected to later fabrication processes. The methods of MIL‑STD‑202, Method 215 provide for guidelines of types of cleaning materials marking may be subjected to that the supplier may validate their marking method/process meets this clause.

**QR-18 PHYSICAL AND CHEMICAL ANALYSIS REPORT**

Material delivered against this order shall be accompanied by a detailed Chemical Analysis Report or Physical Test Analysis Report. Accept/reject criteria shall be based on commonly accepted industry standards unless otherwise specified on the face of the Sechan order.

###### QR-19 LIMITED SHELF-LIFE MATERIALS

Materials or articles having a definite characteristic of quality degradation with age, shall be marked in a manner to indicate the data at which the critical life was initiated and when the useful life will be expended. Seventy-five percent (75%) of shelf life for the batch should be remaining upon receipt at Sechan. The Supplier's batch or lot number shall be provided with each shipment.

**QR-20 SUPPLIER DATA SHEETS**

Supplier data sheets or catalog information, sufficiently definitive to provide proper identification of each order line item shall accompany the initial shipments against this order. Failure to provide this information can result in Receiving Inspection processing delays.

**QR-21 MICROCIRCUIT, HYBRID AND SEMICONDUCTOR PACKAGING**

Consistent with accepted industry practice, electronic parts or assemblies that are electrostatic discharge sensitive (ESDS) shall be suitably protected from static fields and discharges during all Supplier manufacturing processes, including item packaging and shipment. ESDS parts or assemblies not suitably protected when inspected by Sechan shall be subject to rejection and return for replacement.

Microcircuits, including diodes, transistors, flat-packs, IC's, hybrids, etc., shall be packaged so as to maintain lead integrity; leads shall be free of twists or bends with component polarity observed.

**QR-22 STATISTICAL PROCESS CONTROL (SPC)**

Material or product delivered to satisfy this order is subject to statistical process control techniques. The supplier shall maintain a SPC program that is suitable for the purpose and for the product or material being ordered. This program shall, as a minimum, designate and control key characteristics, specific features or processes as mutually agreed between Buyer and Seller. Copies of data, run-charts, etc. shall be provided by the Seller with each deliverable production lot.

**QR-23 MEASURING AND TEST EQUIPMENT CALIBRATION**

The Supplier shall maintain a measuring and test equipment calibration system in conformance with the requirements of ANSI/ISO 10012-1 and ANSI Z540-1. Traceability to NIST or equivalent measurement standards is required on certifications or data sheets provided.

**QR-24 MATERIAL PACKAGING**

Materials delivered to Sechan under this order shall be packaged consistent with accepted industry standards. Consideration shall be given to material ESDS, fragility, weight and size in determining packaging and shipping methods. Sechan accepts no liability for material damaged by improper packaging or shipment.

**QR-25 FIRST ARTICLE INSPECTION REPORT**

A First Article dimensional (variables data) inspection report for the first supplier – part number – revision combination is a requirement of this order if this combination has not been delivered to Sechan within the last 24 months. First article data shall be submitted to Sechan along with the Supplier's First Article Inspection Report (Supplier format acceptable). This report will include drawing notes and dimensional features with inspected item(s) tagged. Material produced prior to Sechan approval of the First Article shall be at the Supplier's risk. Failure to provide this inspection report will result in Receiving Inspection processing delay.

Supplier shall document a delta first article inspection for any changes provided by Sechan after the supplier has performed the First Article Inspection. The delta first article shall be kept on file as a minimum and made available upon request by Sechan.

**QR-25.1 AS9102 FIRST ARTICLE INSPECTION (FAI)**

The supplier shall provide AS9102 First Article Inspection (FAI) data which documents drawing notes and dimensional data (variables) for each deliverable part number. This is required for each new part number and part numbers not delivered to Sechan in the last 24 months. The data shall be complete and authorized by the Supplier.

Supplier shall perform a “delta” FAI for any changes provided by Sechan after the Supplier has performed FAI against the originally provided configuration. The delta FAI shall be kept on file as a minimum and made available upon request by Sechan.

**QR-25.2 AS9102 FIRST ARTICLE INSPECTION (FAI)**

The Supplier shall provide AS9102 First Article Inspection (FAI) data which documents drawing notes and dimensional data (variables) for each deliverable part number. This is required for each new part number and part numbers not delivered to Sechan in the last 24 months. The data shall be

formatted using SAE AS9102 forms located at <http://www.sae.org/aaqg/publications/as9102a-faq.htm> and properly authorized by the Supplier.

Supplier shall perform a “delta” FAI for any changes provided by Sechan after the Supplier has performed FAI against the originally provided configuration. The delta FAI shall be kept on file as a minimum and made available upon request by Sechan.

**QR-26 INSPECTION DATA**

Supplier's inspection acceptance data (Supplier format acceptable), identifiable to the material or items supplied, must accompany each shipment. Features inspection and reported shall reflect sound inspection practices, i.e. emphasis on major features, basic dimensions, datums and secondary operations, which are appropriate for the item supplied. Failure to provide this acceptance inspection data can result in Sechan Receiving Inspection processing delay.

**QR-27 SERIALIZATION**

The Supplier shall identify each component, subassembly, or assembly by serial number in accordance with the Sechan Order, drawings, and/or specification requirements. Unless otherwise specified, it is the Supplier's responsibility to assign serial numbers. The Supplier's serialization system shall preclude the possibility of serial number duplication.

**QR-28 IDENTIFICATION**

The Supplier shall identify all items in accordance with MIL-STD-130.

**QR-28.1 AS9102 MATERIAL TRACEABILITY**

In addition to the QR28 marking requirements, delivered material shall be marked with the Supplier’s (manufacturer) CAGE code and a material traceability tag such as a date code, serial or batch lot number.

**QR-29 ISO 9000 QUALITY SYSTEM**

The Supplier shall implement and maintain a quality system that is in compliance with ANSI/ISO/ASQ 9001. Third party quality system registration is preferred. The status of the Supplier’s quality system shall be reported to Sechan during Supplier quality surveys and survey updates.

**QR-30 CALIBRATION SERVICES**

The Supplier shall maintain a measuring and test equipment calibration system in conformance with the requirements of ANSI/ISO 10012-1 and ANSI Z540-1. Calibration procedures shall be maintained which provide sufficient information for development and submission to Sechan of a calibration report which, as a minimum, shall include the following information:

a. Date(s) of calibration.

b. Specification(s) to which calibration was performed.

c. Identification or serial number of the item to which the report pertains.

d. Evidence of calibration traceability to National Institute of Standards and Technology (NIST).

e. Name of the agency or company performing the calibration(s), if other than the Supplier.

f. Results of calibration(s) performed with statement of uncertainties (tolerances) or accuracy of standards used as well as data for any out-of-tolerance conditions found.

**QR-31 TAPE and REEL REQUIREMENTS FOR AUTOMATIC COMPONENT HANDLING**

Supplier tape and reel requirements for material supplied in accordance with the purchase order shall meet all requirements of the applicable EIA standard and this quality requirement:

a. Axial leaded components per ANSI/EIA-296 using reel configuration only. Inside tape spacing (feature B) shall be between 52.4mm and 63.5mm. Polarity, if required, shall be clearly marked.

b. Surface mount components per ANSI/EIA-481, 481-1 or 481-2, as

 appropriate for the component and tape combination. Embossed carriers are required.

c. Radial components per ANSI/EIA-468 using reel configuration and 12.7mm component pitch only. The Polarized component positive lead shall be clearly marked and shall be the first lead off the reel.

Rejected material will be returned for rework at Supplier expense.

**QR-32 PRINTED BOARD FABRICATION**

The Supplier shall provide material which is manufactured, tested and acceptable to the requirements of ANSI/IPC-A-600 Class 3, fabrication requirements invoked by Sechan supplement QAIS 20-01-08 and additional requirements defined by this QR clause:

a. **Solder Mask.** Unless procurement drawings specifically state otherwise and printed board solder mask shall be in accordance with IPC-SM-840, Class 3. Masking coverage must be uniform and complete; matte finish is preferred.

b. **Conductor Plating.** Conductor plating shall be in accordance with the procurement drawing.  In instances where the procurement drawing does not specify conductor plating or references a general specification, the supplier shall adhere to the following guidelines:

If the parts contain BGAs, multiple bottom only termination components, or where conductor spacing is a concern, ENIG is the preferred finish. In all other cases HASL is the preferred

finish. If the supplier determines that another finish type other than the preferred will yield better results (i.e. yield, cost, lead-time), it is the responsibility of the supplier to inform Sechan and obtain approval prior to utilizing the non-preferred finishes.

c. **Solderability.** Each printed board shall meet the solderability requirements of ANSI/IPC-S-804.

d. **Bow and Twist.** Each printed board shall meet the bow and twist requirements of IPC-2221 for Class 3 workmanship.

e. **Continuity-Internal Shorts Test.** Each printed board shall be tested for electrical integrity per IPC-A-600 Section 5.2. This testing includes both CONTINUITY and INTERNAL SHORT testing.

f. **Palletized Printed Boards.** Printed board palletization shall be consistent with supplement QAIS 20-01-08. When palletized printed boards are authorized, the Supplier may deliver pallets with defective printed boards *provided* (1) total defective printed boards on each individual pallet does NOT exceed one and (2) the shipping lot does NOT contain more than 3% total 'X-Out' printed boards. Defective printed boards MUST be clearly identified and grouped in the shipping lot.

g. **Printed Board Packaging.** Each printed board shall be packaged as required by Sechan supplement QAIS20-01-08. The packaging material selected shall not leave residue on the printed board surface or leave residue that affects solderablity.

Sechan supplement QAIS 20‑01‑08 is available on the Sechan web site, [www.sechan.com](http://www.sechan.com) or on request to the Sechan Buyer.

**QR-33 UID MARKING**

When specified by the drawing or Sechan order, the Supplier shall mark the item with Unique Identification (UID) in accordance with MIL-STD-130 and shall validate that the UID marking meets the readability requirements of MIL-STD-130 Machine Readable Information (MRI). Objective evidence that the marking meets the MRI requirement shall be kept on file by the Supplier for a minimum of three years from completion of the Sechan order. The Supplier shall make this objective evidence available upon request by the Sechan Buyer.

**QR-34 [NOT USED]**

**QR-35 DOMESTIC SPECIALTY METALS PREFERENCE**

Materials delivered under this order shall comply with DFARS 252.225-7009 (Alternate I) and H.R. 4986 FY2008 NDAA Section 804, Protection of Strategic Materials Critical to National Security.

This legislation requires a preference for specialty metals (certain steel alloys; certain nickel, iron-nickel and cobalt alloys; titanium alloys; zirconium base alloys) melted domestically or in a qualifying country.

**QR-36 PROCESS SENSITIVITY LEVEL: J-STD-075**

Non-semiconductor components (i.e. capacitors, resistors, relays, crystals, fuses, etc.) shall be classified and labeled with a Process Sensitivity Level (PSL) in accordance with J-STD-075. Failure to identify the components per J-STD-075 may result in the rejection and return of material for classification and labeling.

**QR-37 BATTERIES**

Batteries shall clearly state the date of shelf life expiration date preferably on the battery or, if size prohibits marking, on the packaging. Seventy-five percent (75%) of the shelf life shall remain upon delivery to Sechan. Batteries with special maintenance requirements, such as recharging requirements, shall clearly be identified with the shipment. Any hazardous handling or transportation limitations shall be clearly document with the shipment.

**QR-38 FFATA**

If this order meets the following criteria, the subcontractor shall comply with FAR 52.204-10, Federal Funding Accountability and Transparency Act (FFATA):

1. Order is greater than $25,000.00
2. Modifications to an order results in a total order that exceeds $25,000.00.

The Supplier is solely responsible for submitting the required data directly to the Government at <http://www.fsrs.gov> in accordance with the FAR.

**QR-39 FOD PREVENTION**

The Supplier shall maintain a Foreign Object Debris/Damage (FOD) prevention program using the guidelines of the National Aerospace Standard NAS-412. The program shall use NAS-412 only to the extent and detail that is pertinent to the type of item being manufactured and delivered to Sechan. Certification, qualification NOR any other assessment program is NOT a requirement of this clause. Sechan reserves the right to review the Suppliers program/practices as deemed necessary to ensure NAS412 intent is met. The Supplier shall flow this requirement to their suppliers as applicable.

**QR-40 NO BETTER THAN PARTS**

The Supplier shall NOT provide a part that is considered better than the part required by the Sechan PO. This includes but is not limited to: failure rate, PPM, tolerance, speed, and finish. The

supplier shall provide the exact part ordered. If the supplier cannot meet the PO part number, written authorization is required prior to shipment.

**QR-41 CONFLICT MINERALS**

If applicable to the item being delivered, the Supplier shall disclose if material being supplied contains material deemed to be “conflict minerals” (tantalum, tin, tungsten and/or gold) from the Democratic Republic of the Congo (DRC) or adjoining countries per the Dodd-Frank Wall Street Reform and Consumer Protection Act. If the Supplier is certain their product does not contain Conflict Minerals or the Supplier does not know, no further action is required. If the supplier has a standard Conflict Declaration such as the EICC GeSI Conflict Minerals Reporting Template, this may be submitted yearly for addition to your Supplier file.