



Supplier Quality Procurement Requirements (SQPR)

Futuramic is responsible for ensuring that all items procured from its supply chain conforms to customer purchase order requirements. It is the responsibility of the supplier to perform efficient and effective contract reviews where risks are taken into consideration and mitigation of those risks take place prior to acceptance of the Futuramic purchase order.

These Supplier Quality Procurement Requirements are contractual and in addition to the Terms and Conditions as stated on the Futuramic purchase order. Where there is conflict between the two documents, the SQPR's will take precedence.

An explanation of each note code requirement is contained herein. Standard note codes are identified with an "S" and are applicable to all PO contracts as they pertain to the product/services being provided by the supplier.

Additional note codes may apply and will be specified on the purchase order under additions.

Revisions to these SQPR's will be bold, italic and highlighted yellow and be by date until the next revision takes place.

Futuramic Receiving Inspection: The note codes designated S and any additional codes specified on a supplier's PO contract must be reviewed for compliance prior to acceptance of product or services by Futuramic. ***See test plans in SOP 8.4.1 Receiving.***

STANDARD NOTE CODES

100S SHELF LIFE-LIMITED PRODUCTS

Supplier that provides life limited product shall mark the life information on each container per its respective specification. If life data marking requirements are not covered by specifications, the supplier shall mark each container with date of manufacture and expiration date. Upon receipt by Futuramic, the minimum remaining useful life must be 60% of the total life limit.

Futuramic Receiving Inspection: Contact program manager for scheduled use of product for shelf life less than 60%. If used within this time period, product can be accepted.

Any product that can not be used by the expiration date will be considered nonconforming material and a NCR written.

101S MATERIAL SAFETY DATA SHEETS

Suppliers of products with hazardous chemicals must include the Safety Data Sheet with the shipment. It describes the physical and chemical properties of the product.

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102S CERTIFICATION OF CONFORMANCE

Unless a waiver is noted on the purchase order, a certificate of conformance is required with every shipment containing the following information :

- C of C tracking number or identifier
 - Purchase Order number
 - Line item number
 - FTE job number or part number with any revision level
 - Serial or factory numbers when assigned (will be listed on FTE PO)
 - Raw material heat codes (when supplier provides materials as part of the PO conditions)
 - Quantity shipped
 - Reference to any nonconformances (See 108S)
 - Conformance statement similar to, “**All purchase order, blueprint and/or specification requirements have been met**” and that “**inspection records and any certifications and/or special process records (where applicable), are on file and available for review**”.
 - When FTE PO line item description states that data is furnished (drawings, instructions etc.), include a statement that “**All documentation provided by Futuramic to satisfy the requirements of this purchase order have been destroyed or returned to the Futuramic Data Manager**”.
- NOTE: These documents may contain U.S. export-controlled information (ITAR or EAR). The export, re-export, transfer, or re-transfer of these documents to any other company, entity, person, or destination, or for any use or purpose other than that for which the document was provided is prohibited without prior written approval and authorization under applicable export control laws.**
- An authorized agent of the supplier quality organization, including the agent's **printed name and** title, must sign **and date** this certification.

NOTE: The pack slip can be used to contain all the above requirements of the C of C when necessary.

103S NOTIFICATION OF CHANGE & PREVENTION OF COUNTERFEIT PARTS & CONTROL AND RETENTION OF RECORDS - See Terms and Conditions

104S EYE EXAMS

Futuramic requires that eye exams be conducted annually by medically qualified personnel for all supplier personnel **conducting final acceptance** of visual and dimensional inspections when note codes 115S Special Processing is applicable.

- Jaeger #1 @ 12” – Welders and Certified Weld Inspectors
- Jaeger #2 @ 14” – Visual and Dimensional Inspectors

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105S WORK TRANSFER

Futuramic Quality Assurance must be notified in writing when a sub-tier to the supplier will be used. Prior to proceeding, the supplier must provide to Futuramic Procurement, evidence that the requirements of this purchase order has been flowed down to the sub-tier, including key characteristics when applicable.

The supplier must inspect their sub-tiers work and documentation for conformance and show acceptance by an authorized employee of the supplier on the sub-tiers Certificate of Conformance.

106S SUPPLIER QUALITY SYSTEM

The Supplier must maintain a quality system that ensures all goods and services conform to the requirements of this Purchase Order, whether manufactured or processed by Supplier or procured from sub-tier suppliers. Subcontracting requires strict quality assurance measures to ensure all requirements have been flowed down from the FTE purchase order to that sub-tier.

107S REVISIONS OF SPECIFICATIONS

Suppliers shall work to the latest revision of all industry standards/specifications unless specified on the purchase order.

When the PO requires that work be performed to provided Futuramic/Customer standards/specifications/drawings or any document showing design, these can be obtained by contacting the Futuramic Data Manager. These documents are to be controlled during use and must be returned to the Futuramic Data Manager or destroyed at fulfillment of the purchase order.

See SQPR 102S for certificate of conformance requirements.

108S REPORTING NONCONFORMING MATERIAL

The Supplier and any sub-tier suppliers, do not have authority to change the design of Futuramic's product or process use-as-is, repair, or standard repair procedures. Any Nonconformance to the requirements set forth in this Purchase Order shall be documented and reported to Futuramic. Supplier must receive permission in writing from an authorized employee of Futuramic Quality Assurance department to ship the product. All costs associated with non-conforming material, including freight, handling, material replacement, inspection, rework, etc. may be charged back to the supplier at the discretion of Futuramic.

Reworking to design requirements does not require notification and coordination with Futuramic.

When documenting a nonconformance, please provide detailed information:

- Provide pictures
- Dimension as stated with its tolerance and how far away from tolerance
- If specification controlled: give spec name, revision, page and brief statement of concern

Note: TAG parts identifying them as nonconforming and note on the pack slip or C of C when returning product to Futuramic.

109S NOTIFICATION OF ESCAPEMENT

Notice of Escapes (NOE) -If Supplier suspects (or is aware) that an undocumented nonconformance has been shipped to Futuramic, Supplier must notify the Procurement Representative of the condition in writing within three (3) business days of the discovery. Supplier must promptly notify Futuramic if Supplier becomes aware or reasonably suspects that any Product is, or contains a component that is, subject to a recall notice, warning alert, Government-Industry Data Exchange Program (GIDEP) Alert, or any other type of notification or concern regarding Product authenticity, quality, safety, process integrity, or specification compliance.

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110S TRACEABILITY

Futuramic material identified by lot number, material type, specification and applicable revision identifier or date of issue, heat number, serial number, etc., must be maintained for traceability. Replacement of materials or mixing of lots is not acceptable.

111S SAMPLING

When note code 201 is applied to the purchase order, Futuramic reserves the right to approve or disapprove sampling plans and/or process controls used for product acceptance. Sampling plans must be approved by the Futuramic Quality Organization prior to use. In the absence of an approved sampling plan, **100% inspection report is required with shipment.**

112S RIGHT OF ENTRY

Supplier shall provide Futuramic and its customers access to any and all areas, including those of sub-tier suppliers where work is being or is scheduled to be performed under this purchase order.

113S HANDLING, STORAGE, PACKAGING, PRESERVATION & DELIVERY

Material Handling

Parts/Materials shall be protected in all phases of processing to eliminate handling damage. Once raw materials begin their process into parts, metal-to-metal contact is prohibited. Care and use of protective devices shall be considered.

Hardware you receive may have finished characteristics that need to be protected against damage. If required, preferred method of lifting is using straps or slings. DO NOT use chains. DO NOT use threaded holes to attach lift rings or any other devices without approval from FTE Program Management.

Cleanliness/FOD

Ensure all parts/materials shipped are free from foreign material, debris and contaminates on all surfaces, particularly internal machined and cored passages and crevices, which may result in potential FOD. Part openings shall be controlled at all times during processing to prevent introduction of foreign objects. The supplier shall maintain a FOD control program assuring work is accomplished in a manner preventing foreign objects or material from entering and remaining in deliverable items. Maintenance of the work area and control of tools, parts, and material shall preclude the risk of FOD incidents. The supplier shall document and investigate all FOD incidents assuring elimination of the root cause. Futuramic shall have the right to perform inspections and/or audits as a method of verification that the supplier's FOD control program is functional, documented, and effective.

Storage

Storage facilities shall be provided as necessary to isolate and protect materials pending use or shipment. Condition of material in stock shall be assessed for degradation periodically.

Preservation

When preservation of parts/materials is a requirement, fluids used shall be checked regularly and maintained free from contaminates through the use of filtering or replacement of the fluid.

Packaging

NOTE: When product is supplied by FTE, it is preferred that it be repackaged in the same manner as received. In most cases, packaging similar to MIL-STD-2073-1 Method 52 will be used by FTE.

Packaging method development shall take into consideration the weight, physical configuration and method of transportation to preclude damage to parts.

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Ensure packing materials do not induce contamination or foreign object damage to parts and assemblies such as, newspaper print, Styrofoam peanuts or any loose material small enough to block or become embedded into internal cavities, holes and crevices and glue bearing materials.

114S PROHIBITED MATERIALS

Supplier shall ensure that delivered hardware shall not contain any materials, nor shall they require the use of these materials for operation, maintenance, storage, transportation or service of the hardware per EPA guidelines. Go to the EPA website for a current listing of prohibited materials including limited use materials.

115S AWARENESS

The supplier shall ensure that persons doing work under the suppliers control to satisfy the requirement of this purchase order are aware of their contribution to:

- product or service conformity
- product safety
- the importance of ethical behavior
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116S CALIBRATION SYSTEM.

Suppliers performing inspection of any type using measurement and test equipment shall maintain a calibration system that is in compliance with ISO 17025 and maintain traceability to NIST.

117S SAFEGUARDING COVERED DEFENSE INFORMATION AND CYBER INCIDENT REPORTING

In accordance with DFARS 252.204-7012 Safeguarding Covered Defense Information and Cyber Incident reporting(Oct 2016), DoD contractor must meet the security requirements specified in the National Institute of Standards and Technology special publication NIST SP 800-171 "Protecting Controlled Unclassified Information in Nonfederal Information Systems and Organizations". The implementation date for this requirement is no later than December 31,2017. DFAS 252.204-7012 is a required flow-down for operation critical support or subcontractor performance that involves covered defense information. Supplier response to solicitations and/or accepting orders or contracts from Futuramic Tool and Engineering fully satisfies the applicable obligations as set forth in such flow-down clauses. Additional information is available at <https://www.acq.osd.mil/dpap/dars/dfars/html/current/252204.htm>.

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SQPR NOTE CODE ADDITIONS:

200 FIRST ARTICLE INSPECTION (FAI)

Applies to the first delivery for this part number/revision level unless otherwise defined in the Purchase Order. The subcontractor shall furnish first article sample(s) produced using the material, tooling, processes and planning to be used for subsequent deliveries. The first article shall be tagged and identified as a first article sample, and submitted with a FAI report. The FAI report shall reflect actual readings and show compliance to the drawing, related specifications and in compliance with AS 9102. When first article acceptance testing is applicable, prior notification must be given to Futuramic Quality Organization to plan and schedule witness to the test.

201 INSPECTION/LAYOUT REPORT

An inspection layout report, identifying the characteristics produced on the purchased part(s) with the applicable inspection results, is required with the shipment. The report is to be signed, or stamped, and traceable to the person performing the inspection. Failure to send inspection/layout report may result in delayed payment and/or quality rating adjustments.

202 SPACEFLIGHT/AEROSPACE/DEFENSE FASTENER DISTRIBUTORS AND/OR SUPPLIERS

In addition to any other PO requirements, each manufacturer's lot within each shipment must be segregated and identified to include quantity and lot number on each Certificate of Conformance. There must be clear link(s) (i.e. heat #, Lot number), that tie the entire certification package together. This includes certification of special processing performed by sub-tier suppliers. Distributors shall maintain clear traceability to the original manufacturer for each lot in a shipment.

203 FUTURAMIC AND/OR CUSTOMER SOURCE INSPECTION REQUIRED

Prior to shipment of materials, parts or services, the Futuramic Purchasing agent must be notified to schedule Quality Assurance for source inspection and initial acceptance of the shipment. Acceptance does not imply that the shipment will not be rejected upon receiving inspection at Futuramic should a deviation be found.

NOTE: At times Futuramic will require that in-process inspections, audits, systems surveillance as part of the verification of conformance be performed. Futuramic reserves the right to perform such inspections on the supplier's premises.

204 DROP SHIPMENT REQUIREMENTS

On the date of shipment, forward the following documents to Futuramic: Attention: Purchasing Department

- 1) Signed Bill of Lading as proof of shipment
- 2) Packing slip, which must reference the purchase order number to consignee as stated above
- 3) Material mill certifications

205 REQUIREMENTS FOR RECEIVING DROP SHIPPED MATERIALS

On the date of receipt, forward the following documents to Futuramic: Attention: Purchasing Department

- 1) Signed Bill of Lading as proof of the receipt of shipment.

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206 CERTIFICATION OF CONFORMANCE (FURNACE THERMOCOUPLE WIRE)

A certification of conformance is required stating:

- 1) Conformance to:
 - a. ISO 10012 Quality Assurance for Measuring Equipment, or ANSI/NCSL Z540-1 American National Standard for Calibration - Calibration Laboratories and Measuring and Test Equipment - General Requirements
 - b. AMS 2750, ASTM E 207 and ASTM E 220
- 2) Traceability to the NIST No. and date of test
- 3) Actual findings, error and/or correction factors
- 4) Calibrate both ends

207 CERTIFICATE OF CONFORMANCE (PYROMETRY CALIBRATION)

A certificate of conformance is required stating:

- 1) Conformance to:
 - a. ISO 10012 Quality Assurance for measuring equipment, or ANSI/NCSL Z540-3 American National Standard for Calibration - Calibration Laboratories and Measuring and Test Equipment - General Requirements
 - b. ISO 9003 or ANSI/ASQC Q9003 - Quality Systems-Model for Quality Assurance in Final Inspection and Test
- 2) Certified and traceable to the NIST No. and date of test
- 3) Actual findings
- 4) AMS 2750 if for pyrometry.

208 PROCESS APPROVAL REQUIREMENTS

This Purchase Order contains a process specification that requires approval. Work shall not proceed until approval is granted by the Futuramic Quality Organization.

209 MATERIAL TESTING

A sample of the material in its finished condition must be supplied with this shipment. For sample size, please contact the FTE project manager assigned to the job.

210 SPECIAL PROCESS SUPPLIERS

Requirements when the purchase order specifies any of the following specialized processes are:

Aluminum and Steel (Arc and Resistance) Welding and Brazing

- Supplier shall submit weld procedures and supporting qualification test data in accordance with the applicable specification including weld personnel certificates and eye exam results.
- Supplier Certified Weld Inspector to provide inspections to applicable specification requirements. If supplier does not have a CWI on staff, inspection will be performed by a Futuramic CWI.
- Visual inspection per specification requirements.
- Changes to previously approved weld procedures must be submitted for re-approval.
- A certificate of conformance shall be provided with the shipment stating that the work was performed to the approved weld procedure, specification, revision letter, purchase order number, lot code or heat numbers and serial numbers if applicable.

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Nondestructive Testing- Radiography, Magnetic Particle, Liquid penetrant, Ultrasonic

- Supplier shall develop part specific test procedure and have approved by a NDT L-III certified to NAS 410.
- Changes to previously approved test procedures must be submitted for re-approval.
- Supplier to furnish a test report stating that the examinations were performed using the approved STP.
- The certification shall also include:
Type of test and coverage, applicable specification, acceptance criteria, name and address of company performing the tests and statement of process compliance.

Plating/Coatings

- Where masking of the product is a requirement of the purchase order, the supplier shall develop masking instructions/procedures and submit those to FTE quality assurance for review and approval prior to processing. Pictures of each masking step is acceptable. For traceability, make sure to make reference to the FTE job and purchase order number on the masking document.
- The supplier shall provide a certificate of conformance stating the plating was performed in accordance with the applicable specification. When baking for hydrogen embrittlement relief is required, a statement that the items were baked at the required temperature and minimum time specified by the applicable specification.
- The Certification of Conformance shall also include the:
Part number, PO number, specification and revision, serial numbers if applicable, baking temperature and time, a statement that the baking started within 3 hours of plating completion, printed name, signature, title of supplier representative and report date.

Painting

- Where masking of the product is a requirement of the purchase order, the supplier shall develop masking instructions/procedures and submit those to FTE quality assurance for review and approval prior to processing. Pictures of each masking step is acceptable. For traceability, make sure to make reference to the FTE job and purchase order number on the masking document.
- The supplier shall provide a certificate of conformance stating the painting was performed in accordance with the applicable specification.
- Paint thickness of primers and top coat separately inspected on actual parts.
- Paint lot/batch numbers and expiration dates.
- Part number, PO number, specification and revision, serial numbers if applicable, printed name, signature, and title of supplier representative and report date.

Heat Treatment

- The supplier shall provide a certificate stating the heat treat was performed in accordance with the applicable specification.
- Include any test data showing conformance to specification such as tensile testing.
- Supplier shall conduct a visual inspection for cracks or other defects after processing.
- When purchase order or specification specifies a hardness range for the material, actual results shall be recorded on the certificate.
- The certificate of conformance shall include the part number, PO number, specification and revision, serial numbers if applicable, printed name, signature, and title of supplier representative and report date.