

LM Logistic Services Quality Notes Conversion Chart

The latest issue to this document is the version that is available on the Aeronautics Sustainment Greenville Operations Supplier Quality Management website:

<https://www.lockheedmartin.com/en-us/who-we-are/business-areas/aeronautics/sustainment/greenville-operations.html>

Summary of Changes: Supersedes Lockheed Martin Logistic Services Quality Note Conversion Chart 2020.04 dated April 27, 2020. Removed Quality Note C017, Revised Quality Notes C009, C012, C019, C022, I006 and M015.

Quality Note	Description
Quality Program Notes	
C001	QA022-01 – External Provider Quality Requirements External Provider shall comply with the requirements of Buyer's "External Provider Quality Requirements" outlined in QA022-01 (latest revision). Copies of this document may be found on Lockheed Martin Supplier Net or contact the buyer. In the event of conflicting requirement(s) between QA022-01 and a specified requirement within the contract, the specified requirement(s) will take precedence. QA022-01 may be accessed at: https://www.lockheedmartin.com/en-us/who-we-are/business-areas/aeronautics/sustainment/greenville-operations.html
C002	QA022-03 – Manufacturing External Provider Quality Requirements External Provider shall comply with the requirements of Buyer's "Manufacturing External Provider Quality Requirements" outlined in QA022-03 (latest revision). Copies of this document may be found on Lockheed Martin Supplier Net or contact the buyer. In the event of conflicting requirement(s) between QA022-03 and a specified requirement within the contract, the specified requirement(s) will take precedence. QA022-03 may be accessed at: https://www.lockheedmartin.com/en-us/who-we-are/business-areas/aeronautics/sustainment/greenville-operations.html
Certification / Inspection Quality Notes	
C003	Certificate of Conformance Required External Provider shall: <ol style="list-style-type: none"> 1. Prepare a Certificate of Conformance ("CoC") to assert the Product(s) contained with the shipment are in compliance with all applicable requirements of this PO. 2. Annotate in the delivery package any exceptions, e.g. variances, Supplier Quality Assurance Report ("SQAR"), Advanced Engineering Authorization ("AEA"), etc. 3. Ensure the CoC is signed by an External Provider Representative. 4. Include a copy of the CoC inside the shipping container.

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Quality Note	Description
C004	<p>Test Reports Required - Fasteners</p> <ol style="list-style-type: none"> 1. External Provider must provide with each shipment the manufacturer’s test report certifying product furnished comply with applicable specification(s). The test report will include the lot number and specification(s), including revision level(s), for which the product has been tested. 2. Where specification(s) require quantitative limits on chemical, mechanical, or physical properties, the test report must have actual results from an examination/test. 3. Threaded fasteners having a diameter of 0.25 inch or greater including bolts, nuts, screws, and studs that are manufactured to National/Military Standards such as MS, AN, NAS, etc. require reports.
C005	<p>Test Reports Required - Raw Material</p> <ol style="list-style-type: none"> 1. External Provider must provide with each shipment the manufacturer’s test report that certifies materials furnished comply with applicable specification(s). The test report will include the specification(s), including revision levels for which the material has been tested and specific lot numbers. 2. Where specification requires quantitative limits on chemical, mechanical, or physical properties, the test report must have actual results from the examination/test. Aluminum products (except castings) may include chemistry range only. Physical properties must indicate actual values. 3. In the case of converted material produced from raw material previously certified by the original manufacturer, External Provider must provide test results of how the process altered the properties of the certified manufactured material. 4. Where the supplier utilizes test reports to verify purchased product they shall periodically validate test reports for raw material. These records shall be made available upon request.
C006	<p>Maintenance Release</p> <p>Maintenance release / return to service certification or equivalent required with shipment.</p> <p>Examples include FAA 8130-3 (as applicable), DD1574, Maintenance Release Certificate, etc.</p>

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Quality Note	Description
C009	<p>Teardown Report</p> <p>External Provider must provide a teardown report for each unit overhauled/repaired and tested. If the overhaul/Repair results in a change in the configuration (i.e. Dash number, Revision or Part Number) documentation stating compatibility with the original part must accompany the paperwork. Teardown report must contain the following:</p> <ol style="list-style-type: none"> 1. Part numbers 2. Serial number, if applicable 3. Part numbers removed and replaced 4. Test reports, as applicable 5. Incoming software version/revision 6. T.O., repair or overhaul manual number used to repair the item, including the revision level 7. Photographs if damage is noted. The supplier assumes all liability for damages identified after teardown, test and evaluation without photographic evidence that the damages were preexisting, with the exception for damages to items such as O-rings, gaskets, seals, crush washers, etc. 8. T.O. or Repair/Overhaul Manual number used to repair the item, including the revision level. 9. Repair or overhaul tasks performed
C010	<p>Source Inspection Required</p> <p>Lockheed Martin Source Inspection required at the manufacturer's/repair facility. External Provider must notify buyer seven (7) calendar days in advance of proposed quality verification. Evidence of the completed inspection must be shown on the shipping documents. You are required to provide reasonable access for the Source Inspector to any drawings, documents, and inspection equipment at any point in the manufacturing process.</p>
C011	<p>Documented Traceability Requirement</p> <ol style="list-style-type: none"> 1. Product(s) ordered on this purchase order require traceability. External Provider must maintain a documented system for recording and controlling of traceable product in accordance with specified requirements with full connectivity to Original Equipment Manufacturer (OEM) or last Federal Aviation Administration (FAA) certificated facility. 2. Where no requirements are otherwise specified in the purchase order. The External Provider must: <ol style="list-style-type: none"> a. Maintain records of each product to ensure traceability to parent material by heat/lot number and producer's name. Such data shall be identified on the shipper. b. Identify each product with buyer /manufacturer's part number, (as appropriate) heat/lot number, producer's name and grain direction. (When applicable). c. Associated documents must be maintained at least six (6) years.

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Quality Note	Description
C012	<p>Source / Specification Control Drawings</p> <p>Lockheed Martin Source or Specification controlled product must be traceable to the sources listed on the Lockheed Martin drawing. When the listed source is no longer available the External Provider shall contact the Procurement Representative listed on the Purchase Order to obtain LM Engineering disposition.</p>
C019	<p>First Article Inspection (FAI) Requirement - Sustainment</p> <ol style="list-style-type: none"> 1. A completed FAI report in accordance with AS9102 is required to accompany the certificate of conformance for this shipment. References to AS9102 in this document refer to the revision in effect at the time of the PO, or External Provider may work to a more current version of AS9102. 2. LM Hologram Providers or product supplied by other Lockheed Martin locations are not required to include the FAI documentation package with the shipment per item 1 above. Copies of the FAI shall be made readily available to LMLS upon request. 3. Distributors that procure Buyer-designed product shall ensure that the manufacturer has performed FAI and that documentation is included with the shipment. 4. When External Provider has manufactured and delivered products to a customer other than Buyer and can provide objective evidence of an FAI compliant to AS9102 and this Quality Clause within the prior two years from the date of the PO or more than two years prior with evidence of continual production to the same configuration as defined by the PO, Buyer may accept the previous FAI documentation as evidence of compliance to the requirements of this PO. 5. External Provider shall maintain documentation of FAI results on each deliverable product for the period specified by this PO. <ol style="list-style-type: none"> a. External Provider may obtain copies of AS9102 from the Society of Automotive Engineers at: http://www.sae.org/ Forms can be obtained at: http://standards.sae.org/as9102b/ b. The FAI process shall be repeated when changes occur that invalidate the original results (engineering changes, manufacturing sources, process changes, tooling changes, location of manufacture and materials that can potentially affect form fit or function. A partial FAI addressing only the change(s) may be performed. c. External Provider shall ensure non-conformances discovered during the FAI are documented and dispositioned by the appropriate Material Review Board ("MRB") actions, (e.g., External Providers MRB for External Provider design and Buyer's MRB for Buyer design).

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Quality Note	Description
C019	<p>First Article Inspection (FAI) Requirement: continued</p> <p style="padding-left: 40px;">d. All material and process certificates of conformance shall be accounted for in the FAI AS9102 with connectivity to the original equipment Manufacturer and/or the customer approved special process provider to ensure counterfeit material avoidance.</p>
C022	<p>Manufacturing First Article Inspection (FAI) Requirement</p> <ol style="list-style-type: none"> 1. The requirements of this Quality Clause and AS9102 are applicable in full to the PO. The requirements of AS9102 are also applicable to all lower-level detail parts which comprise the part on the PO. This includes parts manufactured, processed, assembled, tested or inspected at sub-tier External Providers. 2. In the case of a conflict between AS9102 and this Quality Clause, this Quality Clause takes precedence. 3. Section 24 of document QA022-03 Manufacturing Management External Provider Requirements as stated in PO Quality Note C002 shall be followed to achieve compliance for the following; <ol style="list-style-type: none"> 3.1. Definitions 3.2. General Requirements 3.3. Detailed Requirements of the External Provider: <ul style="list-style-type: none"> • FAI Planning • FAI Entrance Criteria • FAI Process • FAI Exit Criteria • Post FAI Sustainability 4. All FAI packages in their entirety shall be forwarded to a Lockheed Martin Supplier Quality Engineer for review and approval. 5. Form 1 Part Number Accountability (AS9102 or equivalent) shall bear the signature and stamp of the LM SQE indicating customer approval. The signed Form will be returned to your facility and shall be notification the FAI is approved and authorization to ship the material. 6. The signed Form 1 Part Number Accountability (AS9102 or equivalent) indicating customer approval is required to accompany the certificate of conformance.
C037	<p>Breakdown of Kit List Required</p> <p>External Provider must provide a kit list with the individual breakdown of parts with shipment.</p>

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Quality Note	Description
C040	<p>Critical Safety Item (P-3 Aircraft Only)</p> <p>This is a Critical Safety Item (CSI) identified by Lockheed Martin P-3 Process Specification C-3000 and STP51-600. This specification establishes the controls necessary for P-3 Critical Safety Items. This specification details specific inspection, testing, serialization and traceability requirements which are in addition to existing Engineering requirements.</p>
C047	<p>Flight Safety Critical Aircraft Part Acquisition</p> <p>This part is a Flight Safety Critical Aircraft Part (FSCAP) and acquisition process must comply with the Department of Defense (DoD) Material Management Regulation – DoDM 4140.01</p>
C048	<p>Critical Safety Item</p> <p>This product is a Critical Safety Item (CSI) that contains characteristics whose failure, malfunction or absence could result in death, permanent total disability, or permanent partial disability to personnel, or injuries that may result in hospitalization.</p> <p>External Provider must identify to Lockheed Martin the manufacturer if other than that identified on the purchase order prior to commencement of work.</p>
C049	<p>Controlled Processes</p> <p>External Provider shall use the QCS-001 to identify both the process sources and the controlled processes that require Buyer approval, prior to use for product delivered to Buyer.</p> <p>The list of both Buyer-controlled processes and Buyer-approved sources can be found at: https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/aeronautics/quality-requirements/control-specs.html</p> <ol style="list-style-type: none"> 1. At the Quality Requirements drop down menu select Control Specs. 2. Select either LM Approved Processors. <ol style="list-style-type: none"> a. Excel spreadsheet for complete listing of special processes. 3. Or QCS Directory for website access. <p>Buyer hereby authorizes External Provider to use Nadcap approved sources for Industry Standard processes controlled by QCS-001.</p> <p>External Provider shall ensure that a source is currently approved by Nadcap, prior to a source performing processing on Product.</p> <p>External Provider may access Nadcap approved sources at: https://www.eauditnet.com/eauditnet/eau/user/login.htm</p>

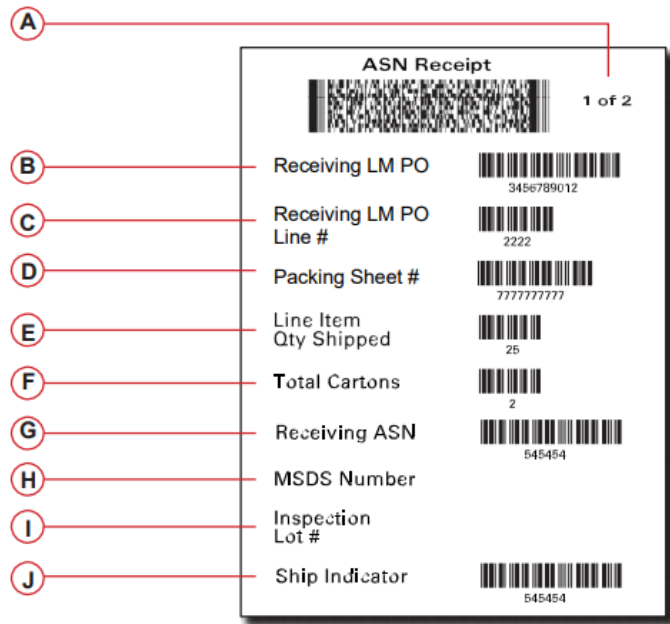
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Quality Note	Description
C049	<p>Controlled Processes: continued</p> <p>Upon request by Buyer, External Provider shall provide Buyer with objective evidence that External Provider selected and used a source approved by Nadcap at the time processing was performed and at the time Product is/are delivered to Buyer.</p> <p>Buyer does not mandate External Providers use of Nadcap approved sources and shall not be responsible for any cost associated with Nadcap accreditation or the use of a Nadcap approved source or process.</p> <p>Buyer shall have the right to validate any Nadcap approved source or process using normal survey practices and shall have the right to disapprove External Providers use of any such source in connection with this PO.</p> <p>External Provider shall be responsible for ensuring that External Provider or QCS-001 sources have the appropriate revision level of the process standards/specifications prior to performing processing in connection.</p> <p>External Provider shall prepare a Certificate of Conformance (CoC) asserting that the Product contained within this shipment are in total compliance with the requirements of this PO. A copy of the C of C shall be included in the delivery package, with process specification exceptions (e.g. pre-clean, stress-relief/bake, etch, etc.) annotated on the C of C.</p> <p>The Process Source C of C prepared for each shipment shall include the following data elements / information:</p> <ol style="list-style-type: none"> 1. Title, specification number (including revision letter) and QCS-001 process code of the process 2. Name and address of the process facility 3. Buyer's assigned processor number 4. Date the C of C was issued 5. Purchase order and purchase order part number 6. Quantity of parts (to include quantity accepted/ rejected) 7. Signature and title of authorized quality agent of Process Source 8. Fracture durability classification or serialization per customer PO
C099	<p>Manufacturer's Commercial and Government Entity (CAGE) Code</p> <p>External Provider is to provide Manufacturer's Commercial and Government Entity (CAGE) Code for each product. The CAGE Code is to be legibly recorded on the External Providers documentation (e.g., shipper or certification). If the manufacturer does not have a CAGE code, this will be annotated on the documentation.</p>


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Quality Note	Description
I001	<p>Product is listed as a DCMA Controlled CSI Item</p> <p>Traceability is required to the Original Equipment Manufacturers (OEM) Cage Code (QA Note C099).</p> <p>Receiving Inspection will email the current DCMA representative:</p> <ol style="list-style-type: none"> 1. A copy of the Certificate of Conformance 2. A copy of the Packing Slip is required to be emailed if it lists the OEM's Cage Code
I002	<p>Product Requires Logbook / Records Entry</p> <p>Product listed has Removal/Replacement Schedule and Special Tracking Requirements that requires additional data. Refer to the appropriate Technical Manual for the specific requirement.</p>
I004	<p>Material is LM Aero Procured - Validate Label</p> <p>Material is Ft. Worth procured validate Receiver/Traveler (White Label) for stock only.</p>
I005	<p>Tool does not require 3rd Party Inspection</p> <p>This Tool does not require 3rd party inspection and is defined as Dock to Stock.</p>
I006	<p>Tool requires 3rd Party Inspection</p> <p>Validate the documentation from the supplier listed on the purchase order has an inspection stamp from METRO MANUFACTURING SUPPORT (MSI) indicating Inspection and acceptance.</p>
I007	<p>F-16 DCMA Controlled CSI Item</p> <p>Documented evidence that the Government Source Inspection (GSI) has been performed.</p>

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Quality Note	Description
	Quality Notes for Container Markings
M015	<p>Bar Coding of Container Required</p> <p>1. Receiving Labels - Generated by Transportation Management System (TMS)</p> <p>External Provider must identify all containers using labels with TMS markings. Seller shall print labels on adhesive-backed, label stock and properly adhere to container. (Note: Printing labels on a sheet of paper and inserting into a clear sleeve label, with barcode visible through the sleeve, is acceptable but not the preferred method.)</p> <p>ASN Receipt Label</p> <ul style="list-style-type: none"> A. Carton Number and Total Number of Cartons B. Receiving LM PO C. Receiving LM PO Line Item Number D. Packing Sheet Number (maximum 12-character limit) E. Line Item Quantity in Shipment F. Total Cartons G. Receiving ASN H. SDS Number (only if hazardous) I. Inspection Lot Number (only if inspected at source) J. Shipment Indicator (required for Classified part shipments only) <div style="margin-top: 20px;">  <p>The diagram shows an 'ASN Receipt' label with the following fields and callouts:</p> <ul style="list-style-type: none"> A: Points to the top-left corner of the label. B: Points to the 'Receiving LM PO' field (value: 3456789012). C: Points to the 'Receiving LM PO Line #' field (value: 2222). D: Points to the 'Packing Sheet #' field (value: 777777777). E: Points to the 'Line Item Qty Shipped' field (value: 25). F: Points to the 'Total Cartons' field (value: 2). G: Points to the 'Receiving ASN' field (value: 545454). H: Points to the 'MSDS Number' field (value: 545454). I: Points to the 'Inspection Lot #' field (value: 545454). J: Points to the 'Ship Indicator' field (value: 545454). </div>

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Quality Note	Description
M015	<p>Bar Coding of Container Required: continued</p> <p>2. Generated by Bar Code Generator (Note: This section only for those not on-boarded to TMS)</p> <p>External Providers who do not have a barcoding capability may use the Free LM Bar Code Generator at the following website:</p> <p>External Provider must identify all containers using labels with Bar Code Markings. Simple bar code programs that conform to this specification are available at:</p> <p>Shipping Instructions Lockheed Martin</p> <p>External Provider shall print labels on adhesive backed, label stock and properly adhere to container. (Note: Printing labels on a sheet of paper and inserting into a clear sleeve label, with barcode visible through the sleeve, is acceptable but not the preferred method.)</p> <p>Bar Code Data Elements for a Standard PO</p> <ul style="list-style-type: none"> A. Receiving LM PO B. Receiving LM PO Line Item Number C. Packing Sheet Number (maximum 12-character limit) D. Line Item Quantity in Shipment E. Total Cartons F. SDS Number (only if hazardous) F. Shipment Indicator (required for Classified part shipments only) <div style="text-align: center;">  </div>

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Quality Note	Description
	Quality Notes for Packaging
MP01	<p>Identification and Packaging Requirement</p> <p>Elastomeric Seals, Packing's/O-rings, Sheet, Strip, Extrusions and Molded Parts:</p> <ol style="list-style-type: none"> 1. Storage Identification and Packaging shall be in accordance with SAE ARP5316 Aerospace Recommended Practice for Aerospace Elastomeric Seals and Seal Assemblies (<i>latest revision, unless otherwise specified by the Purchase Order</i>). 2. Identification and Packaging of Preformed Packings/O-Rings shall be in accordance with SAE AMS2817 (<i>latest revision, unless otherwise specified by the Purchase Order</i>). 3. Identification and Packaging for Elastomeric Products: Sheet, Strip, Extrusions Molded Parts shall be in accordance with SAE AMS2810 (<i>latest revision, unless otherwise specified by the Purchase Order</i>).
MP02	<p>Electrostatic Discharge Protection</p> <p>Components ordered by this purchase order/contract require electrostatic protection and must be properly packaged and identified. The packaging must conform to MIL-STD 1686 (latest revision) or equivalent as specified for electrostatic sensitive protection with clear markings illustrating electrostatic sensitive equipment.</p>
MP04	<p>Marking Requirement</p> <p>DOD marking required in accordance with MIL-STD-129 (<i>latest revision, unless otherwise specified by P.O.</i>) marking (Barcoding, RFID, etc.).</p>
MP07	<p>Lockheed Martin Packaging, Labeling and Shipping Guidelines</p> <p>Product shall be packaged, marked, handled, preserved and shipped in accordance with PM-5010 (<i>latest revision, unless otherwise specified by P.O.</i>) Packaging, Labeling and Shipping Guidelines.</p> <p>External Provider may access document at:</p> <p>https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/aeronautics/traffic/shipping-instructions.html</p>
MP08	<p>Commercial Packaging Requirement</p> <p>Product shall be packaged in accordance with Standard Practice for Commercial Packaging ASTM D3951 (<i>latest revision, unless otherwise specified by P.O.</i>) or equivalent. Each line item must be packaged and marked separately.</p> <p style="text-align: center;">** Loose fill materials are prohibited in all packages **</p>

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Quality Note	Description
MP12	<p>Packaging Requirement of Aluminum and Magnesium Products</p> <p>Standard Practices for Packaging/Packing of Aluminum and Magnesium Products shall be in accordance with ASTM B 660 (<i>latest revision, unless otherwise specified by P.O.</i>) or equivalent.</p>
MP13	<p>Packaging Requirement of Steel Products</p> <p>Standard Practices for Packaging, Marking, and Loading Methods for Steel Products shall be in accordance with ASTM A 700 (<i>latest revision, unless otherwise specified by P.O.</i>) or equivalent</p>
MP16	<p>Packaging Requirement</p> <p>Product(s) shall be packaged in accordance with MIL-STD-2073 (<i>latest revision, unless otherwise specified by P.O.</i>). Standard Practice for Military Packaging.</p>
Shelf Life Quality Notes	
SL01	<p>Shelf life Requirement</p> <p>Shelf life requirements for manufacturing/cure date shall be legible on each container and certificate of conformance with a minimum of 50% useful shelf life remaining upon arrival at any Lockheed Martin facility.</p>
SL04	<p>Shelf life Requirement</p> <p>Shelf life requirements for manufacturing/cure date shall be legible on each container and certificate of conformance with a minimum of 90% useful shelf life remaining upon arrival at any Lockheed Martin facility.</p>
SL05	<p>Shelf life Requirement</p> <p>Shelf life requirements for Age Controls for Hose Containing Age-Sensitive Elastomeric Materials shall be in accordance with SAE AS1933 (latest revision).</p>
SL06	<p>Shelf life Requirement</p> <p>Shelf life requirements for tires per MIL-PRF-5041 para on AGE - The tire shall not be more than 36 months old from the date of manufacture to the initial date of delivery.</p>
Government Quality Notes	
G001	<p>Government Source Inspection</p> <p>Government Source Inspection (GSI) is required prior to 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 prior to commencement of work.</p>

LM Logistic Services Quality Notes Conversion Chart

Quality Note	Description
	Engineering Directed Standard Tool/Perishable Tool Quality Notes
T001	<p>Engineering Directed Standard Tool/Perishable Tool Inspection Requirements</p> <ol style="list-style-type: none"> 1. APPLICATION Except as otherwise directed by Buyer, the governing revision of this document shall be the revision in effect on the date of this Purchase Order (PO). Subject to limitation by Buyer, if any, if subsequent revisions of this Buyer document are issued, Seller is authorized to use the latest revision of this document. If Seller opts for use of the latest revision, Seller shall utilize the applicable portions of the latest revision in their entirety. 2. REQUIREMENTS <ol style="list-style-type: none"> A. Seller shall perform an inspection after all normal manufacturing operations have been completed. Seller shall perform this inspection of any Item prior to delivery to Buyer. B. If LM delegation has been awarded to the Seller, the Seller shall furnish the results of this inspection and any previous inspections to Buyer upon request. C. Seller shall be permitted to perform sample inspection on the Items (reference Paragraph 2. A.) if one (1) of the following statistically valid sampling plans is used, unless otherwise specified by Buyer in writing. <ol style="list-style-type: none"> i. MIL-STD-1916 ii. ISO 2859-1 iii. NSI/ASQ Z1.4 3. ENGINEERING INSPECTION CRITERIA <ol style="list-style-type: none"> A. Equipment to inspect and/or validate the required characteristics varies based upon the tool types. Seller shall ensure that each piece of inspection equipment is capable of measuring to the tolerance specified in Industry Standard and/or Buyer specifications. Seller shall provide a listing of measuring equipment, gages, holding devices, and method employed for validating each characteristic identified in Paragraph 3 C (at the Seller's facility) to Buyer or Buyer's Representative upon request. B. Prior to Buyer receipt, Seller shall ensure that all Items delivered shall have the following inspected for conformance to the applicable Buyer's Standard Tool Specification, "P" Sheet, "C" Number Drawing, Tool Manufacturing Standard (TMS), and/or National Aerospace Standard (NAS): <ol style="list-style-type: none"> i. Tool number and Dash Number Identification ii. Verification that the tool is obtained from an approved manufacturer (<i>if applicable</i>) iii. Manufacturer's Certification, as required C. In addition to the baseline requirements specified in Paragraph 3 B, Seller shall inspect each tool category identified below against the respective requirements for each of the Buyer's sites identified in Table 1.

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T001	Engineering Directed Standard Tool/Perishable Tool Inspection Requirements – continued Table 1 Buyer Inspection Requirements by Tool Category																																				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; text-align: center; vertical-align: middle;">Common Characteristics for Cutting Tools (Except Savs)</td> <td> Damage Check Identification Material Type Surface Finish/Treatment Overall Length Flute Length Cutter Diameter Backtaper Pilot Diameter (Where Applicable) Pilot Length (Where Applicable) Helix Margin Width Relief & Clearance Angles Run-Out (Concentricity) Shank Diameter Hardness (Shank, Adapters) Threaded Shank (Integrated or Adapted) Hex Size, Length, Seat Angle and Thread Key Characteristics </td> <td style="width: 20%; text-align: center; vertical-align: middle;">End Mills</td> <td> Radial Rake Angle Corner Radius Radius Mismatch Preset Flats Length/Depth End Concavity </td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">Counter-sinks</td> <td> Countersink Angle Axial Rake Angle Seat Angle Thread 2A Fit Countersink/Pilot Radius </td> <td style="text-align: center; vertical-align: middle;">Counter-bores</td> <td> Radial/Axial Rake Corner Radius Flat/Perpendicular Cutting Edges </td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">Drill/Countersinks (Single Pass Tools)</td> <td> Countersink Angle Countersink Axial Rake Angle Transition Between Countersink and Drill Radius or Counterbore Lip Height Variation Chisel Edge Centrality </td> <td style="text-align: center; vertical-align: middle;">Drill/Countersink/Counterbore</td> <td> Countersink Angle Countersink Axial Rake Angle Transition Between Countersink and Drill Radius or Counterbore Lip Height Variation Chisel Edge Centrality </td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">Web Thickness (W2)</td> <td> Web Thickness (W2) Alignment of Secondary Cutting Edges Key Characteristics Identified by Drawing </td> <td style="text-align: center; vertical-align: middle;">Drill/Countersink/Counterbore</td> <td> Web Thickness (W2) Alignment of Secondary Cutting Edges Key Characteristics Identified by Drawing </td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">Straight Shank Drills</td> <td> Lip Height Variance Chisel Edge Centrality Core Diameter (W1) Web Thickness (W2) Point Type Alignment of Secondary Cutting Edges </td> <td style="text-align: center; vertical-align: middle;">Taper-Lok Drills</td> <td> See Paragraph IV for Verification by Buyer </td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">Threaded Shank Drills</td> <td> Lip Height Variance Chisel Edge Centrality Core Diameter (W1) Web Thickness (W2) Point Type Alignment of Secondary Cutting Edges </td> <td style="text-align: center; vertical-align: middle;">Circular Saw Blades</td> <td> Arbor Hole Kerf Width Number of Teeth Magnetic Particle Inspection (per ASTM-E-1444) </td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">Chucking Reamers</td> <td> Chamfer Lip Height Chamfer Angle Core Diameter Concentricity (between centers) </td> <td style="text-align: center; vertical-align: middle;">Hole Saws</td> <td> End Configuration Arbor Threads </td> </tr> <tr> <td style="text-align: center; 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	<p>D. For all PO's with "Buyer Source Inspection" as the point of acceptance, Seller will utilize the designated approved 3rd party inspection facility called out by the PO.</p>																																				