

GENERAL DYNAMICS
Ordnance and Tactical Systems

QS-AS-52.0.3 Rockets Quality Clauses (Q760 through Q774)

Revision	Change Description
9/27/2024	Initial release
01/21/2025	Change Rev to EFF DATE in front of Quality Clause revision to match PO flow down. No other changes made to flow down requirements.

Q760 MFC-CC-001 (EFF DATE 9/27/2024): SUPPLIER PROCESS CHANGE CONTROL

Some or all of the products acquired under this agreement will be incorporated into higher level assemblies that may be subject to stringent “qualification testing” requirements for critical government applications; even minor changes to Seller’s products or processes may necessitate “requalification” or produce unacceptable results in higher level assemblies. Since the impact of any such product/process change can be most efficiently assessed prior to product integration into higher level assemblies and the potential cost of remediation/retrofit activities for end products deployed worldwide could be substantial, as a cardinal commitment under this contract,

Seller expressly commits to:

1. Maintain a robust sourcing/quality process for the products delivered hereunder,
2. Rigorously comply with the notification requirements specified below; and
3. Include provisions with its sub-tier suppliers that are adequate to implement the requirements of this provision.

For GD-OTS Designed Products:

Prior Approval/Notification – Form/Fit/Function/Material Changes:

- Prior Approval: Seller shall not implement, or otherwise deliver to GD-OTS, products incorporating any alterations to product form, fit, and/or function without the express prior written approval of GD-OTS Procurement Representative. Such approval shall not be unreasonably withheld but shall be dependent upon Seller’s thorough documentation of such proposed changes (including any analysis necessary to confirm continued suitability). Seller’s notification and GD-OTS’ limited approval of such form, fit and/or function alterations shall not be interpreted to waive any other contractual requirement(s) or to otherwise relieve Seller from delivering fully compliant products to GD-OTS documentation.
- Notification: Prior to delivering any products incorporating a “material change”, Seller shall provide advance notice to GD-OTS, as they become aware and allow sufficient time to reasonably evaluate the proposed change and, if necessary, to place an end-of-life order for the unchanged products.
- For purposes of this clause a “material change” is any alteration to the design (including Software/Firmware), technical specifications, materials, component sourcing, production process, facilities or location (from original manufacturing location), whether instigated by Seller or its sub-tier suppliers.

For COTS Products:

All Changes: Seller shall notify GD-OTS of changes to form, fit, and/or function that may affect end item performance to products purchased within the last 24 months of the change date. Seller shall provide

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notification via a Product Change Notices (PCN) or some other communication method. These notifications shall be submitted to GD-OTS' Procurement Representative as the Seller becomes aware. Seller shall also notify GD-OTS of any changes that may affect the performance of the hardware.

Risk Notification – Product Alerts: GD-OTS shall be promptly notified whenever Seller becomes aware or reasonably suspects that any product delivered to GD-OTS is, or contains a component that is, subject to a recall notice, warning alert, GIDEP Alert, and/or any other type of notification or concern regarding product authenticity, quality, safety, process integrity, and/or specification compliance.

Q761 MFC-CC-003 (EFF DATE 9/27/2024): REQUIREMENTS FLOWDOWN

The Seller shall have systems and methods to assure full compliance to all quality Purchase Order (PO) notes and requirements applicable to this PO. When products or services applicable to this PO are procured by the Seller from sub-tier suppliers, the Seller shall flow the quality PO note requirements and all other requirements, as necessary, to assure full compliance is achieved.

Q762 MFC-DC-001 (EFF DATE 9/27/2024): SUPPLIER RETENTION OF QUALITY AND INSPECTION RECORDS

Quality and inspection records shall be established and maintained by the Seller to provide evidence of conformity to requirements and the effective operation of the Quality Management System.

As a minimum, records must be maintained for a period of seven (7) years after completion of this Purchase Order (PO) or as otherwise stated elsewhere in this PO. Records may be archived to an offsite location but shall remain legible and readily retrievable. These records shall be available for review by GD-OTS or its customers. GD-OTS reserves the right to periodically audit the Seller's historical records, retention policies and practices.

Q763 MFC-DC-003 (EFF DATE 9/27/2024): Certificate of Conformance

Seller shall submit a signed/stamped and dated Certificate of Conformance (C of C) with each shipment.

Note: For GD-OTS Vendor Item Control or Source Control Drawings, Seller shall certify to the part number specified on the Purchase Order.

For GD-OTS Part Numbers, Vendor Item Control, or Source Control Drawings, C of C shall identify at a minimum:

1. Manufacturer's name
2. GD-OTS Purchase Order number
3. Material quantity
4. GD-OTS drawing number and Revision
5. GD-OTS parts list revision when parts list is specified on GD-OTS drawings or defined in the Purchase Order.
6. Seller part number and revision when specified as part of the GD-OTS drawing requirements

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For Seller Part Numbers, C of C shall identify at a minimum:

1. Seller's name
2. GD-OTS Purchase Order number
3. Material quantity
4. Seller part number
5. Date/lot code (if applicable)

For Special Processes Used to Produce Purchased Part by GD-OTS, C of C shall identify at a minimum:

1. Special processor's name
2. Date special process performed
3. Material number special process performed on
4. Material quantity special process performed on
5. Indication that special process was performed in accordance with stated specification
6. Signed/stamped and date of special process completion by Manufacturer

Q764 MFC-DC-006 (EFF DATE 9/27/2024): Acceptance Test Procedure

Seller shall prepare separate detailed test procedures, encompassing tests required for in-process and final acceptance when defined by the TDP. Each item of hardware, or part thereof, which requires acceptance testing, shall be covered by an Acceptance Test Procedure (ATP).

Final and in-process acceptance test procedures require GD-OTS approval prior to the delivery of the first unit of hardware. Subsequent changes or modifications shall be approved by GD-OTS prior to incorporation. Where these tests are performed utilizing equipment controlled by computer software or firmware, the software or firmware associated with, or affecting, those tests require GD-OTS approval at the same time(s) as the remainder of the acceptance test procedure.

Q765 MFC-DC-020 (EFF DATE 9/27/2024): Nadcap Transition Phase

Special Process Definition - A documented method used to manufacture products where:

When a product undergoes a physical, chemical or metallurgical transformation or inspection, conformance to the specification cannot be readily verified by normal inspection methods, and the quality of the product depends on use of specific equipment operated in a specific manner, under controlled conditions, by trained personnel with instructions, procedures and standards.

All Welding, Brazing, Additive Manufacturing, and Lockheed Martin Controlled Special Process Specifications shall be approved by GD-OTS including those provided by sub-tier special process suppliers. Only suppliers listed as approved for these specific special processes may be used in the manufacture of GD-OTS' contracted articles.

All remaining special processes require either GD-OTS' Quality Representative approval or Nadcap

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accreditation.

To view the Nadcap approved process suppliers list; search the eAuditNet website:
<https://www.eauditnet.com/eauditnet/eau/user/login.htm> . Search by the supplier's name and address to view the approved special process suppliers.

Prior to selecting/using a Nadcap special process supplier, the Seller and/or sub-tier suppliers shall contact the selected Nadcap special process supplier and confirm that they currently perform the specific Type, Class, Method, etc. per the associated drawing requirements.

Seller shall have documentation records available providing objective evidence of adherence to this PO Note requirement. GD-OTS reserves the right to access these records upon request.

Q766 MFC-IN-003 (EFF DATE 9/27/2024): First Article Inspection - 12 Months

A GD-OTS First Article Inspection (FAI) is required on this product in addition to any other inspection requirements elsewhere in this Purchase Order (PO). The FAI shall be approved by GD-OTS' Quality Representative prior to the shipment of the material. GD-OTS' customer shall have the right to inspect all work included in PO at the Seller's facility.

A request to conduct New or Partial/Delta First Article Inspection must be received at least (35) calendar days in advance of the planned inspection to allow for GD-OTS' participation if required.

FAI shall be performed by the Seller in accordance with the latest revision of Aerospace Standard AS9102. Seller shall utilize the current AS9102 forms, or equivalent, including:

Form 1 - Part Number Accountability

Form 2 - Product Accountability - Materials, Special Processes and Functional Testing

Form 3 - Characteristic Accountability, Verification and Compatibility Evaluation

Seller shall be required to perform a new FAI when there is a lapse in production exceeding twelve (12) months. Any changes or deviations as defined in AS9102 shall require a full or partial (delta) FAI. In addition:

- a) all design or process changes shall require a full or partial delta (FAI).

Changes must be communicated to GD-OTS in advance. Actions associated with changes shall require a new Full (complete) or Partial (addressing changes) First Article Inspections (FAI) as a contractual obligation, stated herein and in the Process Change Control requirement.

FAI does not relieve the Seller of responsibility of nonconforming hardware found at GD-OTS' facility. For

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any questions, contact GD-OTS' Procurement Representative.

Documentation:

1. GD-OTS' Quality Representative shall review the AS9102, Form 1 (Part Number Accountability) or equivalent for completeness, verify legibility; print name, sign/stamp and date appropriate blocks as evidence of GD-OTS' acceptance.

3. FAI is required for all the part/assembly number(s) included on this PO with no exception.

Note: When a drawing for an assembly includes a parts list and/or sub-assembly drawings, all revision levels shall be included and validated on the AS9102, Form 1.

4. FAI is required for sub-assemblies and detail parts that make up the configuration item(s) included on this PO, with the following exceptions:

Catalog and Commercial Off-the-Shelf:

If the part number, as listed on this PO, is for a GD-OTS or Seller designed product that has a standard catalog or commercial off-the-shelf hardware included at sub-assembly levels, then FAI is not required for the standard catalog or commercial off-the-shelf parts/assemblies.

Q767 MFC-PK-001 (EFF DATE 9/27/2024): COMMERCIAL PACKAGING

Preservation, packaging, and packing of all deliverable goods shall be in accordance with the latest revision of ASTM D3951, standard practice for commercial packaging, unless other requirements are specified in this order.

Polyethylene Plastic material such as Pink Poly material shall not be used as a packaging material in direct contact with electro-mechanical/electronic/electrical components (i.e. as an insert in waffle packs or trays).

Note: "Pink Poly" is a term commonly used to refer to polyethylene plastic treated with an antistatic agent.

Q768 MFC-PK-002 (EFF DATE 9/27/2024): Electrostatic Discharge Protection (High Reliability)

Electrostatic discharge sensitive (ESDS) articles shall be manufactured, tested, packaged, and shipped in an environment that assures protection of the device and meets ANSI ESD S20.20 or equivalent. Packaging material and containers shall be in accordance with ANSI ESD S541 and clearly identify ESDS articles in accordance with ANSI ESD S20.20, or equivalent. Static dissipative material or anti-static material shall not be used as static shielding (primary) packaging material.

Note: Polyethylene Plastic material such as Pink Poly material shall not be used as packaging material in direct contact with components or, for example, as an insert in waffle packs or trays. This material is not

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adequate protection for ESD sensitive devices.

Note: "Pink Poly" is a term commonly used to refer to polyethylene plastic treated with an antistatic agent. This PO note takes precedence over GD-OTS' Commercial Packaging note (MFC-PK-001).

Q769 MFC-PR-001 (EFF DATE 9/27/2024): REVISION LEVEL CONTROL

When providing products per GD-OTS' drawings, Seller shall submit documentation (i.e.: Shipping List, Certificate of Conformance, etc.) with each shipment, indicating GD-OTS' drawing number and the revision level as referenced on the Purchase Order, to which the part is manufactured.

For referenced military, industrial, and commercial standard part numbers, Seller shall use the latest revision at time of the Purchase Order placement unless otherwise stated in the Purchase Order.

CANCELLED SPECIFICATIONS:

When a military specification and/or standard has been cancelled and/or replaced, the Seller shall contact GD-OTS to work with the specific program materials manager to determine the applicable specification and its revision.

Q770 MFC-PR-002 (EFF DATE 9/27/2024): MATERIAL REVIEW AUTHORITY

Once a deviation or waiver (nonconforming) condition is identified, continuing to add value to the item(s) without GD-OTS approval is at Seller risk. Unless otherwise specified in this purchase order or other contractual documentation, the Seller and/or any of their suppliers/subcontractors do not have authority to process use-as-is, repair, or standard repair procedures via their Material Review Board (MRB).

This MRB authority requirement is not applicable to Commercial Off the Shelf Products (COTS).

These dispositions, including Request for Deviations and Request for Waivers, require GD-OTS MRB disposition and shall be submitted to GD-OTS for approval (this does not include rework or scrap). The Seller shall utilize DD Form 1694 or an equivalent Seller form for submittal to GD-OTS for approval. Definitions for Use-as-is, Repair, Rework, Deviation, and Waiver are as follows:

Deviation- A written authorization, granted prior to the manufacture of an item, to depart from a specification or drawing for a specific unit(s) or a specific period.

Rework- Work performed in reprocessing material to make it conform to the contract requirements. A rework item complies with drawing or other specified requirements following the application of the rework process.

Repair- A process designed to make material acceptable for its intended function, but not in conformance with documentation or other specified requirements. Repair is distinguished from rework in that the item

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to be repaired shall not comply with applicable drawings after the repair, but shall be acceptable for the intended use.

Use-As-Is (UAI)- A disposition of material with a minor defect when the appropriate authority determines that the material is satisfactory for use without any additional rework or repair. Defects other than minor, must be reworked to a minor level prior to being documented as use-as-is.

Waiver- A written authorization to accept an item, which during production or inspection, is found to depart from specified requirements.

Q771 MFC-PR-003 (EFF DATE 9/27/2024): COUNTERFEIT PART PREVENTION **Flow Down Required******

Sourcing:

Seller shall only purchase products to be delivered or incorporated as work to GD-OTS directly from

- I. the Original Component Manufacturer (OCM)
- II. Original Equipment Manufacturer (OEM)
- III. through an OCM/OEM authorized suppliers (distributor)
- IV. or from suppliers that obtain such parts exclusively from the original manufacturer of the parts or their authorized dealers with no intermediaries.

Seller may use another source only if:

- I. the foregoing sources are unavailable,
- II. Seller's inspection and other counterfeit risk mitigation processes will be employed to ensure the authenticity of the work,
- III. the suppliers meet applicable DOD-adopted counterfeit prevention industry standards and processes (including tests) and;
- IV. Seller obtains the advance written approval of GD-OTS.

Approval to use another source other than defined above requires the submittal of a comprehensive risk mitigation test and inspection plan to GD-OTS' Procurement Representative. The risk mitigation plan shall define appropriate tests and inspections, as well as acceptance criteria, to validate the products authenticity.

Test results shall be reviewed and approved by GD-OTS' Quality Engineering prior to shipping or incorporating into deliverable hardware.

Counterfeit Prevention Processes:

Seller shall develop and implement a counterfeit product control plan using industry recognized standards applicable to the product being delivered as guidance. The plan shall be available for GD-OTS

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review upon request.

The Seller's counterfeit avoidance and detection systems are subject to GD-OTS and/or GD-OTS' customer audit and approval.

Traceability:

Seller shall implement systems that assure traceability of all material from the original manufacturer to product acceptance by GD-OTS.

For electronic parts, Seller shall have processes that enable tracking from the OCM, OEM or the OCM/OEM authorized suppliers, whether the electronic part is supplied as a discrete electronic part or is contained in an assembly.

This requirement applies to all work delivered to GD-OTS either directly or indirectly as components or included in assemblies.

This entire note, or requirements that meet the intent of this note, shall be flowed down to all sub-tier suppliers under this contract and the Seller shall provide evidence of compliance to this note upon request.

Q772 MFC-PR-019 (EFF DATE 9/27/2024): Statement of Work/Statement of Requirements Flowdown

A Statement of Work (SOW)/Statement of Requirements (SOR) and/or Procurement Specification document are applicable to this Purchase Order (PO).

Requirements contained within the SOW/SOR/Procurement Specification are in addition to the quality requirements contained elsewhere in the PO.

Articles will not be accepted by GD-OTS if the Seller fails to comply with these requirements.

Q773 MFC-SS-006 (EFF DATE 9/27/2024): Supplier Surveillance Process

Material delivered against this purchase order requires oversight performed by GD-OTS' Supplier Surveillance. Seller shall partner with GD-OTS under the guidelines of the Supplier Surveillance Program. Activities may include the following:

- Purchase Order Review or Contract Validation
- Special Process Compliance Assessment
- Production/Process Assessment
- Lean Six Sigma/6S/FOD Control Assessment
- Packaging and Shipment

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- Risk Assessment
- Corrective Action Follow-Up (CAFU)
- Quality Management System Assessment
- Inspection and Test Methods Evaluations
- Mandatory Inspection Points (MIPs)
- Drawing/Specification Configuration Reviews
- First Article Inspection Validation
- Material Compliance Audits
- Software Management Assessments
- In-Process Inspection
- In-Process Surveillance

GD-OTS reserves the right to perform surveillance activities at Seller's facility and/or Seller's Sub-tiers as agreed upon by both parties. GD-OTS and Seller shall develop a schedule and activities that are mutually acceptable to both parties. Schedule and activities may be subject to change depending on program requirements, personnel schedules, findings, supplier needs, etc., however all changes will be coordinated in advance.

Q774 MFC-TR-001 (EFF DATE 9/27/2024): Serial Number Traceability

Serial number traceability is required for this Purchase Order if identified in the TDP. Serial number schemes shall be developed, controlled, and implemented by the Seller, unless otherwise specified, and approved by GD-OTS.

When identified in the TDP, each deliverable part, assembly or end item shall be serialized sequentially and consecutively. Serial numbers shall be unique for each part and must be used once only, for this or any follow-on orders. A list of serial numbers to be shipped must be printed on the delivery sheet or attachment.