

Clause Number	Clause Description
LQC01	Special Process Approvals

The Supplier and/or sub-tier Supplier performing a special process shall be certified by General Dynamics-OTS, Inc. and listed on the GD-OTS approved special process list at the GD-OTS supplier portal page (<https://www.gd-ots.com/suppliers/quality-clauses/>). When part specific special processes apply, these are defined in the GDMS in section 3.0. Each shipment shall be accompanied by one (1) legible and reproducible copy of a certificate for all processes used and the name of the company performing such process.

Clause Number	Clause Description
LQC02	Quality Management System – ISO9001

The Seller shall maintain a system that complies with or is equivalent to ISO 9001 requirements. If the Seller declares equivalency, it is the Seller's responsibility to provide evidence thereof. Compliance to this paragraph does not relieve the Seller of the responsibility to provide parts that meet the applicable GDMS requirements. The Supplier's inspection system shall be subject to periodic and random audits and must be approved by General Dynamic's quality assurance representative. The Seller shall accommodate General Dynamics quality system audits at all reasonable times for all shifts and locations when GD-OTS products are being produced.

Clause Number	Clause Description
LQC03	Quality Management System – AS9100

The Seller shall maintain a system that complies with or is equivalent to ISO9001/AS9100 requirements. If the Seller declares equivalency, it is the Seller's responsibility to provide evidence thereof. Compliance to this paragraph does not relieve the Seller of the responsibility to provide parts that meet the applicable GDMS requirements. The Supplier's inspection system shall be subject to periodic and random audits and must be approved by General Dynamic's quality assurance representative. The Seller shall accommodate General Dynamics quality system audits at all reasonable times for all shifts and locations when GD-OTS products are being produced.

Clause Number	Clause Description
LQC04	Calibration System Requirements – ISO 10012

The Seller shall provide and maintain a calibration system that complies with ISO 10012. Compliance with the provisions of this clause in no way relieves the Seller of the final responsibility to furnish acceptable supplies or services as specified herein. This system shall be subject to audit by the Buyer's quality representatives. This provision shall be applicable to all inspection, test and measuring equipment supplied by the Buyer for the use of the Seller, as well as the Seller's own equipment.

Clause Number	Clause Description
LQC05	Calibration System Requirements – ISO/IEC 17025

The Seller shall provide and maintain a calibration system that complies with ISO/IEC 17025. Compliance with the provisions of this clause in no way relieves the Seller of the final responsibility to furnish acceptable supplies or services as specified herein. This system shall be subject to audit by the Buyer's quality representatives. This provision shall be applicable to all inspection, test and measuring equipment supplied by the Buyer for the use of the Seller, as well as the Seller's own equipment.

Clause Number	Clause Description
LQC06	Source Surveillance

All subcontractor Sellers shall accommodate General Dynamics surveillance audits. Periodically, General Dynamics will facilitate a system, process, and/or product surveillance at the Seller's facility. These surveillance assessments may include government representatives from the responsible technical agency. Depending on the complexity of the product, the size of the facility, and the content of the surveillance assessments, activity may require multiple days to complete. A minimum of 20 days advance notification will be given to the Seller and General Dynamics will negotiate to arrive at a mutually agreeable schedule. Audit follow-up visits will be scheduled and conducted if required.

Clause Number	Clause Description
LQC07	Source Inspection

Parts are subject to source inspection. Upon receipt of the Purchase Order, Seller shall promptly notify Buyer's Supplier Quality Engineer (SQE) to identify Buyer source inspection points. The Seller will at no additional cost supply process and inspection records and, when requested, shall perform the selected process or inspection required by this specification under the surveillance of the purchaser. The Seller will correct any discrepancies found and provide written proof of the corrective action. Seller shall notify the GD-OTS Program Quality Engineer/Supplier Quality Engineer/Supply Chain Management at least 72 hours, unless otherwise specified in the Purchase Order, in advance of the time that goods or services will be available for Buyer's source inspection.

Clause Number	Clause Description
LQC08	Certificate of Conformance

One (1) legible and reproducible copy of a certificate of conformance containing the signature of a responsible quality representative of the Seller shall accompany each shipment. The statement of conformance shall state that the parts meet the purchase order requirements. At a minimum, the CoC shall reference the GD-OTS Purchase Order Number and the GDMS Number and revision. The part specific GDMS may require additional certifications.

Clause Number	Clause Description
LQC09	Certificate of Conformance – Special Process Certification

For each special process designated in the GDMS, one (1) legible and reproducible copy of a statement of conformance shall accompany each shipment. The certification shall include the specification number with revision level, name of the special process supplier representative, and the name and address of the agency performing the process. When parts are serialized each serial number must be listed, otherwise the batch or lot number shall be listed.

Clause Number	Clause Description
LQC10	Certificate of Conformance – Cleaning Process

For each cleaning process designated in the GDMS, one (1) legible and reproducible copy of a statement of conformance shall accompany each shipment. The certification shall include the specification number with revision level, name of the cleaning process supplier representative, and the name and address of the agency performing the process. When parts are serialized each serial number must be listed, otherwise the batch or lot number shall be listed.

Clause Number	Clause Description
LQC11	Foreign Object Debris/Damage

Seller shall apply adequate measures to ensure that product is free from burrs, loose items and foreign objects. Seller shall have an established FOD program available for review. For additional information or assistance, contact your GD-OTS supplier Quality Representative. GD-OTS recommends using the following resources for definition of a FOD program:

- NAS 412, "Foreign Object Damage / Foreign Object Debris (FOD) Prevention"
- International Aerospace Quality Group (IAQG) Supply Chain Management Handbook (SCMH) Section 7.3, "Foreign Object Debris"
- For GD-OTS contracts issued under Defense Contract Management Agency (DCMA) provisions, Policy 8210-1 (aka 8120.1), "Contractor's Flight and Ground Operations" applicable sections addressing FOD
- NAS 412 is a National Aerospace Standard (NAS) developed and published through the Aerospace Industries Association (AIA). Copy of this standard is available through the AIA web-site: [http://www.aia-aerospace.org/national\\_aerospace\\_standards/](http://www.aia-aerospace.org/national_aerospace_standards/)
- IAQG/SCMH Section 3.4 is published through the International Aerospace Quality Group (IAQG). Copy of this handbook is available through the IAQG web-site: <http://www.sae.org/iaqg/handbook/scmhtermsfuse.htm>
- DCMA 8210-1 is a Defense contract Management Agency policy published through the DCMA. Copy of this policy is available through the DCMA web-site: <http://www.dcmamil/policy/>

Clause Number	Clause Description
LQC12	Foreign Object Debris/Damage – AS9146

Seller shall maintain a FOD Prevention Program in accordance with Aerospace Standard AS9146, Seller shall ensure that applicable Quality Clause for FOD prevention requirements are flowed down to Seller's subcontractors through each tier.

Clause Number	Clause Description
LQC13	Record Retention

Records associated with the manufacturing and inspection of these parts shall be maintained for a minimum of 10 years unless otherwise specified in the Purchase Order. The records shall be readily retrievable and stored in an environment that prevents damage, deterioration, or loss. These records shall also be made available to the purchaser within 48 hours upon request at no additional charge to the purchaser.

Clause Number	Clause Description
LQC14	Serialization/Traceability

The Seller shall serialize components, subsystems, and assemblies, as required by drawings and/or the GDMS Section 3.0. Serialization shall be such that duplication of serial numbers will be precluded.

The Seller's quality control system shall provide traceability of all serialized materials to the source. When two or more serialized parts are joined in assembly, a list for each assembly serial number with part numbers, change letters, and component serial numbers must accompany each shipment.

All material and applicable documents must be identified by serial number.

Clause Number	Clause Description
LQC15	Lot/Batch Control/Traceability

The Seller shall assign a lot or batch number to components, subsystems, and assemblies, as required by drawings and/or the GDMS.

The Seller's quality control system shall provide traceability of all materials to the source.

All material and applicable documents must be identified by a manufacturing lot or batch number by the Supplier. Where marking of individual parts is not practical due to size or shape, the manufacturing lot number or batch number shall be marked on the smallest unit packaged by the Supplier.

Clause Number	Clause Description
LQC16	Counterfeit Parts/Materials

Seller is required to prevent the delivery of any counterfeit parts to GD-OTS or its customers. Counterfeit part prevention should include:

- Training of personnel for awareness in the prevention of counterfeit parts
- Application of a parts obsolescence monitoring program
- Controls for acquiring externally provided product from original or authorized manufacturers, authorized distributors, or other approved sources
- Requirements for assuring traceability of parts to their original or authorized manufacturers
- Verification and test methodologies to detect counterfeit parts
- Monitoring of counterfeit parts reporting from external sources
- Quarantine and reporting of suspect or detected counterfeit parts

Counterfeit definition: An unauthorized copy, imitation, substitute, or modified part (e.g., material, part, component), which is knowingly misrepresented as a specified genuine part of an original or authorized manufacturer. NOTE: Examples of a counterfeit part can include, but are not limited to, the false identification of marking or labeling, grade, serial number, date code, documentation, or performance characteristics.

Additional requirements for counterfeit part prevention of electrical parts, assemblies or electronic components are included in the terms and conditions.

Clause Number	Clause Description
LQC17	Customer Tooling/Equipment

Seller shall establish and maintain a documented system to ensure the control, maintenance and calibration of tooling, jigs, inspection and test equipment on loan from GD-OTS or their customer. Seller shall not modify, add on, or replace any customer tooling without Buyer's written authorization. Seller shall immediately report to the Buyer the loss of any customer tooling or any customer tooling found damaged, malfunctioning, or otherwise unsuitable for use.

Clause Number	Clause Description
LQC18	Sub-Tier Supplier Control

The Seller shall ensure that their sub-tier suppliers are capable of attaining and maintaining a quality system acceptable to GD-OTS for the supplies and services covered by this purchase order. Records of sub-tier supplier's performance shall be maintained and available for review by GD-OTS as necessary. The product quality program of the Seller shall contain necessary provisions for surveillance of the sub-tier supplier product quality activities to assure satisfactory performance.

Clause Number	Clause Description
LQC19	First Article Inspection (FAI)

Seller shall perform FAI, or partial FAI per all requirements in AS9102. A copy of the first article report must accompany the shipment. The exclusion for unique single run production orders not intended for ongoing production (Section 1.3 Applicability), shall not apply. Parts and the systems, procedures, facilities required to process product to this specification are subject to surveillance by purchaser representatives. The Seller will at no additional cost supply process and inspection records and, when requested, shall perform the selected process or inspection required by this specification under the surveillance of the purchaser.

Clause Number	Clause Description
LQC20	First Article Inspection (FAI) Approval Required

Seller shall perform FAI, or partial FAI per all requirements in AS9102. A copy of the first article report must accompany the shipment. The exclusion for unique single run production orders not intended for ongoing production (Section 1.3 Applicability), shall not apply. Parts and the systems, procedures, facilities required to process product to this specification are subject to surveillance by purchaser representatives. The Seller will at no additional cost supply process and inspection records and, when requested, shall perform the selected process or inspection required by this specification under the surveillance of the purchaser.

Seller shall notify GD-OTS Program Quality Engineer/Supplier Quality Engineer/Supply Chain Management within 48 hours of receipt of this GDMS for the coordination and planning of the FAI, prior to start of related procurement, manufacturing, and/or processing. FAI may include the witnessing of in-process inspections to be accomplished during performance of FAI.

For FAI approval, the Seller will at no additional cost provide the FAI package. At a minimum, the FAI package shall consist of: FAIR Forms, production processes, production documentation, tooling documentation, inspection plans, inspection plans developed to identify progressive inspection checkpoints, and Certificates of Conformance that meet established requirements. Where the FAI package approval activity transpires is at the discretion of GD-OTS and may be conducted at the supplier's location.

The designated Program Quality Engineer/Supplier Quality Engineer will provide written approval on FAI form 1 block 23 (Customer Approval). Following GD-OTS receipt and approval of the initial FAIR, this process shall be repeated when changes occur that invalidate the original results. A copy of the approved FAIR must accompany the shipment.

Clause Number	Clause Description
LQC21	First Article Inspection (FAI) Review Required

Seller shall perform FAI, or partial FAI per all requirements in AS9102. A copy of the first article report must accompany the shipment. The exclusion for unique single run production orders not intended for ongoing production (Section 1.3 Applicability), shall not apply. Parts and the systems, procedures, facilities required to process product to this specification are subject to surveillance by purchaser representatives. The Seller will at no additional cost supply process and inspection records and, when requested, shall perform the selected process or inspection required by this specification under the surveillance of the purchaser.

Receipt and review of First Article package is required prior to shipping material. The First Article package shall consist of: FAIR Forms, dimensional inspection data and Certificates of Conformance that meet GDMS requirements.

The designated Program Quality Engineer/Supplier Quality Engineer will provide written review on FAI form block 21 (Reviewed By). Following GD-OTS review of the initial FAIR, this process shall be repeated when changes occur that invalidate the original results. A copy of the reviewed FAIR must accompany the shipment.

Clause Number	Clause Description
LQC22	Customer Furnished Material

The Seller shall exercise care with customer property while it is under the Seller's control or being used by the Seller. The supplier shall identify, verify, protect and safeguard customer property provided for use or incorporation into the product. If any customer furnished material is lost, damaged or otherwise found to be unsuitable for use, the Seller shall report this to the customer and maintain records.

Clause Number	Clause Description
LQC23	Material Review Board (MRB)

Unless otherwise specified in the Purchase Order, Material Review Board (MRB) authority is not delegated to the Seller. All decisions to "repair" or "use-as-is" and all "standard repair procedures" used by the Seller in the performance of this order require purchaser approval prior to implementation. Expressions used herein are as defined in Mil-Std-1520.

Clause Number	Clause Description
LQC24	Change Control

The Seller shall not change any process, material, inspection method, or procedure without prior written consent of the GD-OTS Buyer.

Clause Number	Clause Description
LQC25	Certificate of Analysis

One (1) legible and reproducible copy of a certificate of analysis containing the signature of a responsible quality representative of the Seller shall accompany each shipment. The statement of analysis shall state that the parts meet the purchase order test result, conditions, and other test detail requirements. At a minimum, the CoA shall reference the GD-OTS Purchase Order Number and the GDMS Number and revision. The part specific GDMS may require additional certifications.