



Axiom Space Quality Clauses

Axiom Space, Inc.

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TABLE OF CONTENTS

AxQ-001.	Flow Down Requirements	5
AxQ-002.	Quality System	5
AxQ-003.	Discrepancies - Deliverable Data Required as Applicable	5
AxQ-004.	Foreign Object Debris (FOD)/Damage Program	5
AxQ-005.	Electrostatic Discharge (ESD) Control Program	5
AxQ-006.	Cleanliness - Deliverable Data Required as Applicable	5
AxQ-007.	Approved Suppliers	5
AxQ-008.	Approved Special Processes	5
AxQ-009.	Supplier Design/Process Changes - Deliverable Data Required as Applicable	6
AxQ-010.	Key Characteristics (KC) - Deliverable Data Required as Applicable	6
AxQ-011.	Certificate of Calibration - Deliverable Data Required as Applicable	6
AxQ-012.	Acceptance Test Plan (ATP) - Deliverable Data Required as Applicable	6
AxQ-013.	Right of Access	6
AxQ-014.	Standards of Workmanship - Deliverable Data Required as Applicable	7
AxQ-015.	Fracture Critical Control	7
AxQ-016.	Surveillance	7
AxQ-017.	Source Inspection - Deliverable Data Required as Applicable	7
AxQ-018.	Nondestructive Inspection - Deliverable Data Required as Applicable	7
AxQ-019.	Test Specimen/Destructive Analysis - Deliverable Data Required as Applicable	7
AxQ-020.	Government Source Inspection - Deliverable Data Required as Applicable	7
AxQ-021.	First Article Inspection (FAI) - Deliverable Data Required as Applicable	7
AxQ-022.	Digital Data	7
AxQ-023.	Raw Materials Test Reports - Deliverable Data Required as Applicable	8
AxQ-024.	Objective Evidence of Dimensional Inspection - Deliverable Data Required as Applicable	8

AxQ-025.	Corrective Action - Deliverable Data Required as Applicable	8
AxQ-026.	Supplier Product Non-conformance - Deliverable Data Required as Applicable.....	8
AxQ-027.	Certificate of Compliance (CoC) - Deliverable Data Required as Applicable	8
AxQ-028.	Limited Life Material - Deliverable Data Required as Applicable.....	8
AxQ-029.	Part Identification/Traceability - Deliverable Data Required as Applicable.....	8
AxQ-030.	Packaging and Handling	9
AxQ-031.	Counterfeit Goods.....	9
AxQ-032.	ITAR Registration.....	9
AxQ-033.	Records Retention	9
AxQ-034.	Safety and Health Plan.....	9
AxQ-035.	Government Furnished Property.....	9
AxQ-036.	Safety Data Sheet (SDS)	9
AxQ-037.	Certificate of Analysis.....	9
AxQ-038.	Specifications	10
AxQ-039.	Product Disposition	10
AxQ-040.	Requirements for Conformance	10
AxQ-041.	Qualification of Personnel	10
AxQ-042.	Product Acceptance.....	10
AxQ-043.	Human Spaceflight Items.....	10
AxQ-044.	Production Part Approval Process Products (PPAP)	10
AxQ-045.	Reliability Analysis Data (Failure Rate/Mean Time Between Failure).....	11
AxQ-046.	Reliability Performance Data (Run Time/Cycles)	11
AxQ-047.	Reliability Failure Modes Data	11
AxQ-048.	Reliability Failure Modes Data (FMEA/CIL) -Deliverable Data Required as Applicable	11
AxQ-049.	Reliability Analysis Data (Failure Rate/Mean Time Between Failure) or Reliability Performance Data (Run Time/Cycles)	12

AxQ-050.	Reliability Failure Modes and Effects Analysis Data.....	12
AxQ-051.	Reliability Failure Modes and Effects Analysis (FMEA) and Critical Item List (CIL) Data.....	12
AxQ-052.	Raw Materials Test Reports (MTR)	12
AxQ-053.	Raw Materials Test Reports	12
AxQ-054.	Raw Materials Test Reports	13
AxQ-055.	Fasteners for Space Flight Applications	13
AxQ-056.	Wire and Cable Packaging and Sourcing:	13

AxQ-001. Flow Down Requirements

All applicable requirements are a deliverable to the Supplier and all in the supply chain shall flow-down to their sub-tier Suppliers the applicable specifications and requirements of this PO or contract, including any key characteristics and applicable requirements from Axiom's customer and regulatory authorities. Suppliers are required to apply appropriate controls to their direct and sub-tier external providers to ensure the requirements of the PO comply.

AxQ-002. Quality System

The Supplier shall implement and maintain a Quality Management System (QMS) that is acceptable to the Buyer and at a minimum, is following AS9100, Quality Management Systems - Requirements for Aviation, Space, and Defense Organizations, to ensure quality of product and/or service. Axiom quality representatives shall have access to and witness the Suppliers' QMS. Suppliers providing a product or service under this PO or contract must ensure personnel awareness of their contribution to product or service conformity, product safety, and the importance of ethical behavior. It is preferable that the suppliers meet the requirements of AS9100.

AxQ-003. Discrepancies - Deliverable Data Required as Applicable

All deviations noted from established drawings must be reported to the Buyer immediately. No deviation will be considered approved without written confirmation of the fact from Axiom. No action is to be taken until the Supplier receives written authorization from Axiom.

AxQ-004. Foreign Object Debris (FOD)/Damage Program

The Supplier shall establish and maintain requirements for a Foreign Object Debris/Damage (FOD) prevention program to prevent introduction of foreign objects into the product during manufacturing, assembly, testing, handling, and shipment. FOD prevention may include clean room disciplines, housekeeping, and tool control such as a 5S Program.

AxQ-005. Electrostatic Discharge (ESD) Control Program

The Supplier shall develop and maintain an Electrostatic Discharge (ESD) Control Program that meets the requirements to the latest revision of Joint Electron Device Engineering Council (JEDEC) standard and Joint Electronic System Development (JESD) 625 or ANSI/ESD 20.20 and includes documented employee training to this standard.

AxQ-006. Cleanliness - Deliverable Data Required as Applicable

The levels of cleanliness levels for hardware shall be identified on engineering drawings, POs or contract. Handling specifications for internal movement and shipping of product is deemed necessary to maintain product cleanliness conformance. Cleaning and encapsulation of material shall be performed in a facility that meets or exceeds the conditions of the cleanliness requirement.

AxQ-007. Approved Suppliers

An approved suppliers list must be maintained by the Supplier that includes the method of approval and scope of approval.

AxQ-008. Approved Special Processes

Material processing shall be accomplished by the National Aerospace and Defense Contractors Accreditation Program (NADCAP) or Axiom approved process (i.e., anodize, chem etch, paint, welding, soldering, Non-Destructive

Testing suppliers. Written authorization from Axiom is required for suppliers that are not NADCAP. Certification submission is required.

AxQ-009. Supplier Design/Process Changes - Deliverable Data Required as Applicable

Any changes or deviations to this PO or contract, the Supplier shall notify and obtain written authorization from Axiom for changes in design, manufacturing, test, assembly, location, or source of supply of their supply chain.

AxQ-010. Key Characteristics (KC) - Deliverable Data Required as Applicable

Attributes identified as Key Characteristics (KC) shall demonstrate a process capability of 1.33 Cpk or be inspected 100%. The Supplier shall have documented objective evidence on file which supports the process capability of 1.33 or greater, or the actual inspection and/or test data as verification of conformance to the drawing KC. The objective evidence shall be made available to Axiom on request within a reasonable amount of time.

KC is described as an attribute or feature whose variation has a significant influence on product fit, performance, service life, or producibility; that requires specific action for the purpose of controlling variation (AS9100D standard).

- KCs for a part, subassembly, or system are those selected geometrical, material properties, functional, and/or cosmetic features, which are measurable, and whose variation control is necessary for fulfilling customer requirements and enhancing customer satisfaction.
- Process KCs are those selected measurable characteristics of a process whose control is essential to manage variation of part or system KCs.
- Substitute KCs may be identified when a customer-defined KC is not readily measurable, within the production/maintenance setting, and other characteristics may need to be controlled to ensure conformance.

AxQ-011. Certificate of Calibration - Deliverable Data Required as Applicable

The Supplier of calibration service shall provide a Certificate of Calibration for each item calibrated. The certificate must include the date of calibration, readings when received and after service, calibration due date, model number and serial number of the calibration equipment and a statement that all equipment/standards used to the National Institute of Standards and Technology (NIST). Calibration must conform to manufacture's specifications unless otherwise communicated on the PO.

AxQ-012. Acceptance Test Plan (ATP) - Deliverable Data Required as Applicable

The Supplier shall prepare an Acceptance Test Plan (ATP) with written approval by Axiom. Test requirements for acceptance criteria shall be well defined and detailed. The ATP verifies that the system under test validates the functionality of the delivered product. The ATP shall be developed to meet the requirements and show traceability to the requirements. Supporting test data must be provided with written and signed Axiom approval.

AxQ-013. Right of Access

With reasonable notice Axiom, Axiom customers, and regulatory authorities shall have the right to access the facilities at all levels of the supply chain. All applicable records where the manufacturing, processing, assembly, test, and shipment of the product is performed shall be available upon request.

AxQ-014. Standards of Workmanship - Deliverable Data Required as Applicable

The Supplier must provide documented standards of workmanship (control of design features, materials, and assembly process).

AxQ-015. Fracture Critical Control

The Supplier shall comply with the requirements of all flight and fracture critical designated products. The analysis and the testing correlation procedures and results shall be implemented to identify risk and reduce the potential of catastrophic failure.

AxQ-016. Surveillance

Axiom representatives, including its direct or indirect customer, shall have the right to review and monitor the quality system of the Supplier. Axiom will coordinate with the Supplier, mandatory surveillance points. Supplier shall give Axiom reasonable notice prior to starting any test, processing, manufacturing, or assembly relative to the PO. The Supplier is expected to grant a designated representative access to the facility where all activities are conducted including sub-contractor locations.

AxQ-017. Source Inspection - Deliverable Data Required as Applicable

Source inspection shall be conducted by Axiom representative(s) at the Suppliers facilities or where designated in this PO prior to shipment. Inspection/test and or in-process inspection/test of the product shall be performed by the Supplier and witnessed by an Axiom representative. The inspection points shall be well defined and reasonable notice to Axiom must be given. Evidence of source inspection must accompany each shipment.

AxQ-018. Nondestructive Inspection - Deliverable Data Required as Applicable

A certificate of inspection shall accompany each shipment that list the non-destructive inspections performed and must include the inspector's signature or stamp on the non-destructive inspection report.

AxQ-019. Test Specimen/Destructive Analysis - Deliverable Data Required as Applicable

A specimen of a suitable size and configuration for analysis shall accompany each shipment made against this order. The part shall be of the same material and shall have been processed with the lot it represents through all processes. With written authorization, Axiom will accept Supplier's destructive test results and analysis. The destructive analysis report shall provide the techniques that were used to derive the specimen's performance to ultimate destruction.

AxQ-020. Government Source Inspection - Deliverable Data Required as Applicable

Before shipment from the Seller's facility, an inspection by a Government source inspector shall be required. Evidence of Government inspection must be included on all shipping documents.

AxQ-021. First Article Inspection (FAI) - Deliverable Data Required as Applicable

The Supplier shall perform and furnish the First Article Inspection (FAI) per AS9102, First Article Inspection (FAI), on the purchased product. The FAI shall take place at the Supplier's facility with supplier personnel and resources.

AxQ-022. Digital Data

Suppliers shall comply with Axiom's digital data requirements when transferring digital data. Supplier shall adhere to a document control processes that provide traceability of digital data requester and sender.

AxQ-023. Raw Materials Test Reports - Deliverable Data Required as Applicable

No longer applicable per revision B. This quality clause is only applicable to open POs that have previously invoked this requirement. This is being superseded by Quality Clause AxQ-052.

The lot number of each report shall be traceable to material. The test report shall include objective evidence of compliance with the material's condition and origin. Copies of each test report and certification shall be submitted with each shipment.

AxQ-024. Objective Evidence of Dimensional Inspection - Deliverable Data Required as Applicable

Objective evidence of the inspection report shall accompany each shipment that all goods furnished under this PO/contract were dimensionally inspected for compliance with drawings and other PO/contract requirements. Inspection evidence shall consist of records of actual readings taken during the inspection of each part, with the dimensions, tolerances, and method.

AxQ-025. Corrective Action - Deliverable Data Required as Applicable

Axiom shall initiate corrective action investigation request upon notification or receipt of a non-conformance of product. A written report shall be furnished within a reasonable time period, which is specific and conclusive to prevent a re-occurrence of the discrepancy. The Seller shall maintain a system to prevent re-occurrence and shipment of non-conforming product.

AxQ-026. Supplier Product Non-conformance - Deliverable Data Required as Applicable

The Supplier shall notify Axiom of non-conforming product. The Supplier will not ship products until Axiom has provided written authority. Axiom shall not accept products without prior written approval.

AxQ-027. Certificate of Compliance (CoC) - Deliverable Data Required as Applicable

A Certificate of Compliance (CoC) stating that all items supplied meet all PO, specifications, and requirements. A CoC shall accompany all shipments. It is preferred that the CoC be signed by an authorized company official, with the title. The CoC information shall identify the product, quantity, current revision and all services or processes performed.

AxQ-028. Limited Life Material - Deliverable Data Required as Applicable

When items are delivered under this PO or contract with shelf-life control, temperature control or any perishable items, the Supplier shall clearly label and provide Limited Life information. Supplier shall submit CoC or label the containers with manufacture's name, type of material, date of manufacture, lot/batch, storage temperature and shelf-life. All products must have 80% of their original shelf-life remaining upon receipt unless otherwise stated in the PO.

AxQ-029. Part Identification/Traceability - Deliverable Data Required as Applicable

The Supplier must provide a means of product traceability that is clearly identified to the purchased product. Traceability is required on all raw materials to the manufacture's lot/date cod/serial number or unique item identifier. For products that are manufactured to Axiom requirements must conform to the PO/contract or as identified on released drawings.

AxQ-030. Packaging and Handling

DELIVERABLE DATA REQUIRED AS APPLICABLE

The best commercial practice must be used to prevent damage. As a minimum, the Supplier must package all material in a manner that will ensure protection against corrosion, oxidation, deterioration, and physical damage during shipment. A label must be affixed with the PO number or part number.

AxQ-031. Counterfeit Goods

The Supplier must detect and prevent the use of counterfeit, suspect counterfeit, unapproved, or suspect unapproved parts. Supplier shall not furnish to Axiom any goods under this PO or contract that are an unauthorized copy, obsolescent part, imitation, substitute, or modified part which is knowingly misrepresented as a specific genuine part of an original or authorized manufacturer. Counterfeit parts must be controlled to prevent reentry into the supply chain.

AxQ-032. ITAR Registration

Suppliers must be in compliance with 22C.F.R. 120 et seq., International Traffic in Arms Regulation of the Export Administration Act.

AxQ-033. Records Retention

The Supplier shall retain records for a minimum of five-years after completion of contract unless otherwise specified. The Supplier shall establish a documented procedure to define the controls needed for identification, storage, protection, retrieval, retention, and disposition of records.

AxQ-034. Safety and Health Plan

The Supplier must maintain a Safety and Health Plan that addresses employee and subcontractor's safety and occupational health for work that is completely or partly on the Supplier's premises, property owned or controlled by Axiom or the Government and contracted offsite locations.

AxQ-035. Government Furnished Property

The Supplier must maintain a Government Property Management Plan that adheres to the provisions of FAR 52.245.1, Government Property.

AxQ-036. Safety Data Sheet (SDS)

DELIVERABLE DATA REQUIRED AS APPLICABLE

The Supplier shall provide a Safety Data Sheet (SDS) that aligns with the Globally Harmonized System (GHS) of Classification and Labelling of Chemicals which meets required 16 section formatting per 29 CFR 1910.1200 Appendix D, Safety Data Sheets covering hazard information required to safely use, handle, store and dispose of chemicals and hazardous materials.

AxQ-037. Certificate of Analysis

DELIVERABLE DATA REQUIRED AS APPLICABLE

The Supplier shall provide a Certificate of Analysis, ascertaining that an item requiring special control and handling has met its product specification, quality, and has not degraded or become contaminated.

AxQ-038. Specifications

Unless otherwise noted, the latest specification or engineering standards revision identified by drawing, PO or contract apply. Standards Organizations (SAE, AWS, NIST, ASTM, ISO, DoD, etc.)

AxQ-039. Product Disposition

The Supplier must obtain Axiom written authorization for non-conforming product disposition.

AxQ-040. Requirements for Conformance

Neither surveillance, source inspection or test made by Axiom at either Supplier's or Axiom facility including sub-contractor's facility absolve the Supplier of the responsibility to furnish products that conform to the requirements of the PO or contract.

AxQ-041. Qualification of Personnel

The Supplier shall employ competent personnel to ensure Axiom requirements are met for approval of product, processes, procedures, and equipment.

AxQ-042. Product Acceptance

The Supplier shall follow all requirements stated in the PO, contract, drawing, data specifications and process instructions to ensure product conformity, documentation and records are obtained.

AxQ-043. Human Spaceflight Items

NFS 1852.246-73 Human Space Flight item. The Supplier shall include the following statement in all subcontracts and POs placed by it in support of this contract, without exception as to amount or subcontract level:

"FOR USE IN HUMAN SPACE FLIGHT; MATERIALS, MANUFACTURING, AND WORKMANSHIP OF HIGHEST QUALITY STANDARDS ARE ESSENTIAL TO ASTRONAUT SAFETY.

IF YOU ARE ABLE TO SUPPLY THE DESIRED ITEM WITH A HIGHER QUALITY THAN THAT OF THE ITEMS SPECIFIED OR PROPOSED, YOU ARE REQUESTED TO BRING THIS FACT TO THE IMMEDIATE ATTENTION OF THE PURCHASER."

- Can the Supplier in question provide the item(s) at a higher level of quality of material(s)? Yes/No
 - If yes, please provide options for what specifically could be provided at a higher level and costs/schedule for the *higher level of quality materials*:
- Can the Supplier in question provide the item(s) at a higher level of quality of manufacturing? Yes/No
 - If yes, provide the options for what specifically could be provided at a higher level and costs/schedule for the *higher level of manufacturing*:
- Can the Supplier in question provide the item(s) at a higher level of quality of workmanship? Yes/No
 - If yes, provide the options for what specifically could be provided at a higher level and costs/schedule for the *higher level of workmanship*:

AxQ-044. Production Part Approval Process Products (PPAP)

DELIVERABLE DATA REQUIRED AS APPLICABLE

The Supplier shall comply with all requirements of the industry-standard Production Part Approval Process Products (PPAP) for all space flight products. Level 3 PPAP is required for all space flight products unless (a) the parts

supplied to Axiom are in production on another Space Flight Program and have a prior Level 3 PPAP (100% production tooling/100% production process) approval, in which case a copy of the part submission warrant is required and Axiom reserves the right to request further proof of documentation and/or data; or (b) the products are interim or prototype, in which case, and in lieu of a Level 3 submission, 100% inspection of all products, material certification for each product, and a control plan shall be provided in advance of every shipment to Axiom, and failure to supply this information will result in the rejection of Supplier's products. Products shall not be shipped from the Supplier's facility until PPAP approval is granted by Axiom or written authorization is given by purchasing agent or buyer. The Supplier is responsible for all costs incurred by Axiom or for any products shipped that do not conform to the requirements specified in the agreed upon PO.

AxQ-045. Reliability Analysis Data (Failure Rate/Mean Time Between Failure)

DELIVERABLE DATA REQUIRED AS APPLICABLE

This Quality Clause is only applicable to open POs that have previously invoked this requirement. This is being superseded by Quality Clause AxQ-049.

The Seller shall provide calculated and experienced failure rate data for provided equipment/hardware. The Seller will provide the Buyer "industry environment code" that was referenced to calculate the failure rates. The Seller is expected to grant the Buyer representative access to available reliability data for procured equipment. A Reliability Data Delivery (or Plan) is required within 45 days of award.

AxQ-046. Reliability Performance Data (Run Time/Cycles)

DELIVERABLE DATA REQUIRED AS APPLICABLE

This Quality Clause is only applicable to open POs that have previously invoked this requirement. This is being superseded by Quality Clause AxQ-049.

The Seller shall provide the Buyer operating time, power on time and/or experienced cycle performance data (as applicable) for provided equipment/hardware. Data Delivery is required upon delivery of the hardware.

AxQ-047. Reliability Failure Modes Data

DELIVERABLE DATA REQUIRED AS APPLICABLE

This Quality Clause is only applicable to open POs that have previously invoked this requirement. This is being superseded by Quality Clause AxQ-050.

The Seller shall provide the Buyer Failure Mode Effects Analysis (FMEA) for the provided equipment/hardware in accordance with Axiom FMEA format or another agreed format. The FMEA Data delivery (or plan) is required within 45 days of award.

AxQ-048. Reliability Failure Modes Data (FMEA/CIL) -Deliverable Data Required as Applicable

This Quality Clause is only applicable to open POs that have previously invoked this requirement. This is being superseded by Quality Clause AxQ-051.

The Seller shall provide the Buyer FMEA and Critical Item List (CIL) and Retention Rational for the provided equipment/hardware in accordance with Axiom FMEA format. The FMEA Data Delivery is required upon delivery of the hardware.

AxQ-049. Reliability Analysis Data (Failure Rate/Mean Time Between Failure) or Reliability Performance Data (Run Time/Cycles)

DELIVERABLE DATA REQUIRED AS APPLICABLE

The Seller shall provide historical/experienced failure rate data for provided equipment/hardware along with the associated environmental data the equipment/hardware has experienced. The Seller shall grant the Buyer representative access to available reliability data for procured equipment. If the data is not available, then a planned approach for the Failure Rate Data Delivery (Plan) shall be provided within 45 business days of the award. If Seller is unable to provide historical/experienced failure rate data, the Seller shall provide the Buyer operating time, power on time, and/or experienced cycle performance data (as applicable) for provided equipment/hardware. Data Delivery shall be provided upon delivery of the hardware.

AxQ-050. Reliability Failure Modes and Effects Analysis Data

DELIVERABLE DATA REQUIRED AS APPLICABLE

The Seller shall provide the Buyer a FMEA for the provided equipment/hardware in accordance with Axiom FMEA format or another agreed format. If the data is not available, then a planned approach for the FMEA Data Delivery (Plan) shall be provided within 45 business days of award. The FMEA is required upon delivery of the hardware.

AxQ-051. Reliability Failure Modes and Effects Analysis (FMEA) and Critical Item List (CIL) Data

DELIVERABLE DATA REQUIRED AS APPLICABLE

{Subsystem/Module/Assembly only Reliability Clause - in lieu of AxQ-050}

The Seller shall provide the Buyer a FMEA and CIL and Retention Rational for the provided equipment/hardware in accordance with Axiom FMEA format or another agreed format. FMEA, CIL, and Retention Rationale Data Delivery is required upon delivery of the hardware. If the data is not available, then a planned approach for the FMEA Data Delivery (Plan) shall be provided within 45 business days of award. The FMEA, CIL, and Retention Rationale are required upon delivery of the hardware.

This Quality clause is reserved for the purchase of items such as entire subsystems, assemblies, or modules.

AxQ-052. Raw Materials Test Reports (MTR)

DELIVERABLE DATA REQUIRED AS APPLICABLE

The lot number of each report must be traceable to material. The Material Test Report (MTR) must include objective evidence of compliance with the material's condition and origin. Copies of each test report and certification must be submitted with each shipment.

AxQ-053. Raw Materials Test Reports

DELIVERABLE DATA REQUIRED AS APPLICABLE

The lot number of each report must be traceable to material. This traceability requires certified MTR from the producer of the raw material (foundry or mill) which contains quantitative mechanical and chemical data. When/Where the mechanical properties of the material have been altered by heat treatment or metal working processes, the mechanical properties shall be re-determined and objective evidence of the material's condition assessed. The certified MTR shall be accompanied by supplemental MTR from the heat treatment or metal working facility. Copies of each test report and certification must be submitted with each shipment.

AxQ-054. Raw Materials Test Reports

DELIVERABLE DATA REQUIRED AS APPLICABLE

The lot number of each report must be fully traceable to material. This traceability requires certified MTR from the producer of the raw material (foundry or mill) which contains quantitative mechanical and chemical data. When/Where the mechanical properties of the material have been altered by heat treatment or metal working processes, the mechanical properties shall be re-determined and objective evidence of the material's condition assessed. The certified MTR shall be accompanied by supplemental MTR from the heat treatment or metal working facility. Copies of each test report and certification must be submitted with each shipment.

Full traceability is defined as documentation showing all transfers of custody from the original raw material manufacturer (foundry or mill) to the original part manufacturer, and through all intermediaries. A unique identifier (e.g.: lot and heat numbers) must corroborate each transfer. Copies of these transfers (e.g.: POs, etc.) must be submitted with each shipment.

AxQ-055. Fasteners for Space Flight Applications

The Seller recognizes the fasteners identified in this procurement document may be used in critical space applications to ensure the safety of the crew and mission. The Seller will make every effort to ensure all fasteners meet all requirements and specifications. Fasteners shall be handled, packaged, and stored in a manner designed to prevent damage; this includes environmental controls for temperature, humidity, and contamination. Fasteners shall be separated by lots to prevent commingling of lots. The Seller CoC shall identify the fastener, description, lot/heat number, quantity, PO, and provide traceability to its origin. Seller MTR shall confirm material condition and provide traceability to the lots procured. The Seller shall provide full traceability documentation from the Seller to the fastener's material origin (foundry or mill), as well as all transfers of custody in-between (e.g.: suppliers, distributors, stockists). Seller traceability documentation shall include all necessary information to establish full traceability (e.g.: POs, heat/lot numbers, unique identifiers, etc.).

AxQ-056. Wire and Cable Packaging and Sourcing:

- A. Scope: This Quality Clause shall apply to the procurement of wire per specifications SAE-AS22759/11, Wire, Electrical, Fluoropolymer-Insulated, Extruded TFE, Silver-Coated Copper Conductor, 600 Volt, SAE-AS22759/22 Wire, Electric, Fluoropolymer-Insulated, Extruded TFE, Silver-Coated High Strength Copper Alloy Conductor, 600 Volt, ROHS, and cable per ANSI NEMA WC27500, American National Standard for Aerospace and Industrial Electrical Cable. Wire and cable part numbers for these specifications are of the form M22759/11, M22759/22 and M27500 respectively.
- B. The shipment shall contain evidence of the source of manufacture for the wire or cable.
- C. Preparation for Delivery – Specific Supplier Requirements for Packaging:
 - 1. Wire segment ends shall be capped off (sealed) per manufacturer's standard practice.
 - 2. Polystyrene and/or Acrylonitrile Butadiene Styrene plastic wire spools are acceptable, black or dark grey. No metal spools.
 - 3. Holes in the spool shall be taped off to prevent extrusion through the holes.
 - 4. Each spool shall contain one continuous wire segment. Multiple spools may be used to complete the contracted order quantity.
 - 5. The preferred spool dimensions are up to 6.5-inch nominal flange diameter, and up to 5.5-inch nominal width between flanges. A spool's inner (drum) diameter shall be at least two inches or 20 times the insulated wire diameter, whichever is greater.

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6. There shall be at least ¼-inch clearance between the outer jacket surface of the spooled wire and a straight line across the spool flanges.
 7. Each spool shall be labeled with a minimum of: Axiom wire part number, wire manufacturer name or CAGE code, date of manufacture (month and year), lot number, segment length (in feet), and PO number.
 8. Wire manufacturers may add a conformal plastic wrap around the spooled wire. Cardboard wrap is not acceptable.
 9. Each spooled wire segment shall be packaged in a transparent metal-in static shielding bag that meets the requirements of ANSI/ESD S541, Standard for Packaging ESD Susceptible Items, and ANSI/ESD S20.20, Protection of Electrical and Electronic Parts. The bag shall contain an ESD warning symbol and be heat sealable. A small bag of desiccant conforming to MIL-D-3464, Desiccants, Activated, Bagged, Packaging Use and Static Dehumidification, Types I and II, shall be securely attached to the inner reel flange or to the external surface of the wrapping covering the wire. Select bag size to minimize entrapped air.
 10. Each bagged wire spool shall contain a humidity indicator card that encompasses a minimum humidity range of 60% to 80%. Humidity readings of 70% or more upon receipt is cause for rejection of the wire on that spool.
 11. Package the bagged wire in an outer protective shipping box. Label the shipping box with a minimum of: Axiom wire part number, wire manufacturer name or CAGE code, and PO number.
 12. Damage to a spool is cause for rejection of the wire on that spool.