Mirion Technologies (MIRION) Inc.

Supplier Manual

Approval Signatures	Signature on file	Signature on file
	General Manager Steve Earl	Quality Assurance Steve Shemanski

ABOUT THIS MANUAL

Introduction

In today's lean, just-in-time manufacturing environment, product found to be nonconforming at receiving or during production causes serious schedule disruptions, resulting in higher production costs, late deliveries, and most importantly dissatisfied customers. Mirion's' expectations of our suppliers is to control the quality of production components, materials and services through adherence to the applicable standards, specifications, drawings and our purchase order/contact requirements.

Purpose

This manual outlines the manner in which we expect supplier's to conduct business with MIRION to ensure that purchased product and services meet requirements.

Scope

The information in this manual applies to all MIRION suppliers who have an interest in, or who are currently doing business with MIRION.

Procurement Policy

The success of MIRION and the satisfaction of our customers depend on our suppliers' ability to meet quality, cost, and delivery objectives. We seek to work with partners who share our desire to continually improve performance, and add value to our product offering.

Through our sourcing processes we:

- Analyze markets to build a worldwide panel of suppliers, systematically seeking out the best sources and selecting only those suppliers with the best proven performance in quality, costs, delivery, and security of supply,
- Stimulate supplier creativity through contracts stipulating continuous improvement, quality, cost, and delivery objectives,
- Develop strong relationships and long-term partnership agreements,
- Encourage active supplier participation in co-development initiatives,
- Assess and monitor performance improvement plans with critical suppliers.

APPLICABLE STANDARDS and DOCUMENTS

Standards

The following National and International Standards referenced form the foundation of the requirements of this manual:

Standards	
ISO 9001:2015	Quality Management System Requirements
ISO 14001:2015	Environmental Management Systems
ISO 17025 – 2017	General Requirements for the Competence of Calibration and Testing Laboratories
ANSI/NCSL Z540.3-2006 6th edition 2013	Requirements for the Calibration of Measuring and Test Equipment
IPC – A – 610	Acceptability of Electronic Assemblies; Class 2
IPC-J-STD-001	Requirements For Soldered Electrical And Electronic Assemblies
IPC – 7711/7721	Rework, Repair and Modification of Electronic Assemblies
ANSI/ESD-S-20.20	The Protection of Electronic Parts Assemblies & Equipment
CSA N299.3-16	Quality assurance program requirements for the supply of items and services for nuclear power plants, Category 3
CSA N299.4-16	Quality assurance program requirements for the supply of items and services for nuclear power plants, Category 4

Additional National and International Standards may be passed down specific to the unique needs of each MIRION facility.

Applicable Documents

The following documents are referenced within this manual:

Document	Document Identifier
Supplier Evaluation Questionnaire	Controlled and Distributed Locally
First Article Inspection Report	Controlled and Distributed Locally
Request for Deviation Waiver (Concession)	Controlled and Distributed Locally
Request for Supplier Corrective Action	Controlled and Distributed Locally
Supplier Corrective Action	Controlled and Distributed Locally
Material Rejection Report (MMR)	Controlled and Distributed Locally

Attachments

The below referenced attachments are a component of this manual:

Title	Attachment Designation
Transmittal Acknowledgement	Controlled and Distributed Locally
First Article Inspection Report	Controlled and Distributed Locally
Request for Deviation Waiver	Controlled and Distributed Locally
Non-Disclosure Agreement	Global Supply Chain Controlled
Purchase Order Terms and Conditions	Global Supply Chain Controlled

1 ▪ QUALITY SYSTEM REQUIREMENTS

In this Section

This section is divided into the following subsections:

1.1 QUALITY

Overview

MIRION is the world's leading supplier in Measurement Solutions for Safety and Security; we maintain high quality standards and a stringent quality assurance program. It is MIRION'S mission to provide continually to our customers the highest quality systems, and solutions for their monitoring and measurement needs. Conversely, MIRION requires our suppliers to maintain a quality system that will allow us to satisfy our quality requirements and those of our customers.

1.2 QUALITY SYSTEM

Required Quality System

MIRION requires suppliers to maintain an effective Quality Management System, it is preferred that a suppliers' Quality Management System conform to ISO 9001:2015 requirements.
Understanding that various market segments operate under distinct Quality Management System requirements the conformance to other national or international quality standards will be considered acceptable.

Calibration Laboratories are required to maintain a quality system that complies to ANSI/NCSL Z540.3-2006 6th edition 2013, or ISO/IEC 17025

Additionally, suppliers must adhere to the requirements of this manual and those requirements imposed by purchase order/contract.

1.3 QUALITY MANUAL & PROCEDURE

Required Documents & Notifications

Upon request by MIRION the supplier shall furnish a copy of its' quality manual and supporting procedures.
The supplier shall notify MIRION of any major changes to the quality system, quality management, top-level management and/or ownershipor Material or Special Process Suppliers.

1.4 CONTROL OF SUB-TIER SUPPLIERS

Required Controls

The supplier is responsible for the quality of materials and components provided by sub-tier suppliers and sub contractors.
MIRION suppliers are required to impose controls on their suppliers comparable to the controls applied to suppliers by MIRION.
Occasionally, the supplier may be required to pass down special requirements to their sub-tier suppliers. Such pass down requirements shall be specified on the supplier's purchase orders.

Sole Sources

MIRION on its drawings and parts list when necessary specifies particular manufactures part numbers; these items are considered sole source items. They are to be procured from either the manufacturer listed or their authorized distributor.

1.5 PART/ITEM SUBSTITUTION

Due to regulatory requirements at no time can an item be substituted for, unless approved by MIRION via Waiver prior to delivery. Unauthorized substitution of is considered a cause for rejection.

1.6 SUSPECT/COUNTERFEIT ITEMS (S/CI)

Suppliers to MIRION shall establish and maintain effective controls to prevent the introduction of suspect or counterfeit items to MIRION facilities.

A suspect item is one in which there is an indication by visual inspection, testing, or other information that it may not conform to established government or industry accepted specifications or national consensus standards.

A counterfeit item is a suspect item that is a copy or substitute, without legal right or authority to do so, or one whose material, performance, or characteristics are knowingly misrepresented by the vendor, supplier, distributor, or manufacturer.

Because falsification of information or documentation may constitute criminal conduct, MIRION may temporarily segregate items, and related paperwork, that are suspected to be S/CI, pending a determination as to whether the segregated items should be impounded as evidence. MIRION is legally required to provide such information pertaining to suspect/counterfeit items received to the National Nuclear Security Administration (NNSA), the Department of Energy (DOE) and or the Nuclear Regulatory Commission (NRC) as required.

1.7 QUALITY ASSURANCE PLANS

From time to time, a series of comprehensive quality or special process requirements may need to be passed down to the supplier. As a result, MIRION will require the supplier to develop and submit a Quality Assurance Plan (QAP) for approval a prior to commencement of work. This requirement will be included on the MIRION purchase order/contract.

2 ▪ SUPPLIER APPROVAL PROCESS

In this Section

This section is divided into the following subsections:

2.1 APPROVAL PROCESS REQUIREMENT

When MIRION determines that a supplier fits within our supply chain needs, MIRION Purchasing requires that a "Supplier Evaluation Questionnaire" be completed and returned. A decision to move forward as an approved supplier may require other documentation which may include but is not limited to financial requirements.

2.2 DOCUMENT AUDIT

Responsibility

MIRION will review the supplier's quality manual and supporting documentation to determine if the documented quality system meets MIRION requirements.

2.3 ON-SITE ASSESSMENT/AUDIT (If required)

Components

MIRION may perform an on-site assessment of a supplier's facility. MIRION will contact the supplier to schedule such assessments. These on-site assessments may include the following activities:

- Quality Management System
- Business
- Technology

These assessments are described below

Quality System

A Quality System assessment/audit determines whether the supplier's quality system is in place, functioning effectively, and has the ability to deliver a quality product.

Business

A business assessment determines whether the supplier has the needed financial stability, production capacity, and other resources needed to fulfill MIRION needs and continuity of supply.

Technology

A Technology assessment determines whether the supplier has the required technical resources, such as production and inspection equipment, facilities, engineering resources, and electronic commerce capability as required.

Approval

If the assessment determines that the supplier meets all of the MIRION requirements, MIRION awards the supplier with Approved status. Approved suppliers are then eligible to bid on the supply of production components, materials, or services.

3 ▪ PRODUCT VERIFICATION

In this Section This section is divided into the following subsections:

3.1 RECEIPT VERIFICATION

Purchased materials received at MIRION may be subjected to an incoming inspection for verification of conformance to the applicable drawings, specifications and purchase order/contract requirements.

3.2 FIRST ARTICLE INSPECTION

When furnishing parts or new revisions to MIRION, a request for a First Article Inspection may appear on the purchase order/contract. The purpose of the First Article Inspection is to obtain measured data from the supplier's facility along with a control sample. The sample item is re-measured by MIRION, and the results compared. This enables MIRION to determine if there are any misinterpretations of the drawing or non-conformances.

The sample item should be forwarded as directed by the purchase order/contract. Unless otherwise instructed, retain the remainder of the order at your facility until notified of the results of First Article Inspection and directed to proceed.

The supplier shall perform a first article layout on development and new production part numbers for all drawing characteristics and notes, and chararacteristics affected by engineering drawing change and process change. The report shall be documented and submitted to Mirion for approval. The product item(s) used by the supplier for first article layout must be appropriately identified within the initial shipment, and the outside of the container labeled as "First Article Enclosed"

3.3 SOURCE INSPECTION/VERIFICATION

During the product realization process, MIRION may impose a requirement for source inspection/verification. Requirements for source inspection/verification will be stated on the MIRION Purchase Order/Contract.
Prior to delivery, a MIRION representative and/or our customers' representative may perform inspections at the specified hold points or a complete final inspection of the item. Source verification will include review of applicable documentation as well as a physical inspection of the item.

3.4 REQUEST FOR DEVIATION/WAIVER (Concession)

Required Authorization

A supplier is never permitted to knowingly ship product that deviates from the drawing, specification limits, or design intent without **prior written authorization** from MIRION. If such a condition exists, the Supplier must submit a Request for Deviation/Waiver to MIRION.

Testing

If directed by MIRION, the supplier must send samples of all nonconforming items to MIRION for evaluation. The cost of any testing required in determining the acceptability of the product may be debited to the supplier.

Deviation/Waiver Acceptance

MIRION will determine the item's acceptability and what actions, if any, are required beyond the Deviation/Waiver. A MIRION purchasing representative will communicate this to the supplier.
The Deviation/Waiver is only intended to be an interim action and is **not** to be interpreted as an engineering change. The supplier must begin work immediately to correct the condition in question.
A copy of the approved Deviation/Waiver is required to be included with all shipments of items covered by the approved Deviation/Waiver.

Containment

In all cases, the supplier must fully contain all products suspected of being nonconforming at the supplier location. In addition, the supplier may be required to sort any suspect product at MIRION or may be debited for any costs for this sorting.

3.5 MATERIAL REJECTION

In the case of a non-conformance, MIRION may issue a material rejection report/notification. The material rejection report will specify critical information such as: part number, serial numbers, description of the defect, number of defective pieces, and whether corrective action is required. It shall be determined by Mirion Quality; whether or not Supplier is to be issued written notification (SCAR).

3.6 REQUEST FOR CORRECTIVE ACTION

When corrective action is requested by MIRION, it is the supplier's responsibility to respond within the time requested (see Section 7 of this manual).

3.7 ADDITIONAL PROCUREMENT QUALITY ASSURANCE REQUIREMENTS

Based on the critical operations of some components and assemblies additional quality documentation may be required. Additional requirements may include: the use of Certified Welders, inspection of welds by a Certified Weld Inspector, Pressure Testing and Certified Material Test Reports (CMTR's). Additional requirements will be imposed via the purchase order/contract. These requirements are in addition to those specified on applicable drawings.

4 ▪ MANUFACTURING CONTROL

In this Section This section is divided into the following subsections:

4.1 WORKMANSHIP

Standards

When workmanship standards are not referenced on MIRION drawings or specifications, the Supplier is expected to follow industry-accepted standards for the commodity being purchased.

4.2 Electrical Safety (NRTL or CSA*)

Defined

A NRTL certified product is a product that's been tested by an OSHA recognized testing laboratory and meets the requirements of a product appropriate safety standard.

Certification of a product by a NRTL grants the manufacturer the privilege to display on their product and/or packaging the testing laboratories certification mark.

Requirement

When NRTL items are required, the MIRION purchase order/contract will state "NRTL Certified Item". The supplier shall provide NRTL items. The items shall have individual NRTL marking on each product (as size permits), the bulk packaging shall be NRTL marked, and/or provide a NRTL certification at the time of delivery.

4.3 RoHS

Defined

RoHS "The Restriction of the use of certain Hazardous Substances" in electrical and electronic equipment". The RoHS directive bans the placing on the market of new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.

Requirement

When RoHS compliant items are required, the MIRION purchase order/contract will state in the component description “RoHS”. The supplier shall provide a “Certification of Compliance” stating that the items provided are RoHS compliant.

4.4 CE COMPLIANCE

Defined

CE marking is a mandatory European marking for product groups to indicate conformity with the essential health and safety requirements set out in European directives. To permit the use of a CE mark on a product, proof that the item meets the relevant health and safety requirements must be documented.

Requirement

When CE compliant items are required, the MIRION purchase order/contract will state the component or product must be CE compliant. The supplier shall provide the item marked accordingly and a "Declaration of Conformity" stating that the items are CE compliant.

4.5 TRACEABILITY

Defined

The ability to record the production, status and location of materials by lot identity, batch number or serial number through all processes from initial purchase to final customer delivery; the capability to retrieve this information either forwards (from lower build levels upward), or in reverse (from higher build levels downwards), or from any individual process.

Requirement

When traceability is a specified requirement of the purchase order/contract, serial numbers, lot codes or batch numbers shall appear on all associated quality documentation, shipping documentation, as well on the product.

4.6 LOT CONTROL

Defined

A **lot** consists of product that is manufactured, under the same process conditions, from the same batch of raw material.
The primary purpose for identifying a **lot** is the ability to locate and potentially recall all manufactured or intermediate products when problems arise during processing, or post installation and use.

Requirement

When purchase order/contract requirements state the need for **lot** control, each container (packaging) of material and individual item (as size and configuration permits) shipped to MIRION must be marked with the lot number. All shipping documentation and associated inspection documentation must be traceable to the **lot** number shipped.

4.7 SHELF LIFE

Defined

The length of time a material, substance, product, or reagent can be stored under specified environmental conditions and continue to meet all applicable specification requirements and remain suitable for its intended purpose or use.

Requirement

MIRION requires its supplier's to provide Cure Dates, Shelf Life information and expiration dates for items This information must appear on all product labeling, shipping and quality documentation.

4.8 MIRION SUPPLIED MATERIALS

Requirement

When MIRION provides raw material or constituent parts to a supplier for the manufacture or assembly of a product, the supplier shall maintain the provided items in such a manner to prevent loss, damage, or misuse and maintain accurate inventory records. MIRION maintains the rights to verify and validate the quantities and condition of the materials at the suppliers' premises.

4.9 MAINTENANCE

Maintenance Level

The supplier must maintain all facilities, machinery, tools, measuring devices, and other equipment in such a manner that the supplier can support MIRION production requirements, and the quality of materials, parts or assemblies manufactured for MIRION. Preventative maintenance of equipment should be in line with the manufacturers' instructions and recommendations.

MIRION Supplied (owned) Equipment and Tooling

All of the above maintenance requirements apply equally to any MIRION supplied (owned) equipment, Calibrated equipment, and tooling; stored or in use by a supplier. MIRION supplied (owned) equipment and tooling must be maintained in such a manner as to maintain quality product throughout the expected life of the equipment or tooling. The supplier is also required to notify MIRION if equipment , Calibrated equipment,or tooling is damaged.
The supplier, sufficiently in advance, shall notify MIRION when equipment , Calibrated equipment,or tooling is approaching the end of its intended life cycle.

5 ▪ DRAWING CHANGE CONTROL

In this Section

This section is divided into the following subsections:

5.1 EXTERNAL DRAWING CHANGE CONTROL

Required System

The supplier must have a system for assuring that the latest MIRION drawings and specifications are in effect at their facility.

Required Procedures

The supplier's quality system must contain a procedure that includes the following:

- The method used for receipt, review, distribution and implementation of all changes to drawings and specifications.
- A procedure/process for addressing and eliminating obsolete drawings and specifications, and defining which current drawings must be in place at each location in the supplier's process.

5.2 PROCESS and ENGINEERING CHANGE CONTROL

Required System

Suppliers must have systems in place to control changes to operation sheets, routers, drawings, specifications, processes or produced product. The system must also be capable of handling changes requested by MIRION.

5.3 SUPPLIER REQUEST FOR PROCESS or DRAWING CHANGE

Required Form

The supplier may request changes to a MIRION released part, process, drawing or specification using the Request for Deviation/Waiver.

Approval Process

a.) The supplier must submit a Request for Deviation/Waiver to your purchasing representative indicating the following:

- Purchase Order
- Drawing or part number
- Description of problem
- Recommended change
- Reason for change or "rationale"

Approval Process

b.) After a review of the Request for Deviation/Waiver by appropriate MIRION personnel, if feasible, changes will be made to the applicable drawings and/or specifications.

c.) Upon MIRION approval and the appropriate changes are incorporated into the applicable drawings and/or specifications, a purchasing representative will notify the supplier of the request change status. A change order and a new document package will be issued.

Suppliers are never permitted to ship product pending Deviation/Waiver approval without **written authorization** from MIRION.

6 ▪ PACKAGING and LABELING

In this Section

This section is divided into the following subsections:

6.1 PACKAGING

Each supplier must adequately plan for packaging, designed to eliminate shipping damage. Suppliers will provide disposable recyclable packaging that provides for protection from any damage that may occur during shipping and handling. Packaging, labeling and shipping materials must comply with the requirements of common carriers, in a manner to secure the lowest transportation costs.

Environmental

In an effort to reduce bulky waste and preserve the environment, MIRION requests that Styrofoam or Styrofoam Peanuts **not** be used as filler material in packages. Packages that contain Styrofoam are not accepted at MIRION facilities.
Disposable packaging materials must be safe for recycling.

6.2 ELECTROSTATIC SENSITIVE DEVICES (ESD)

All ESD products supplied to MIRION shall be directly packaged in conductive field shielding barriers or packaged in conductive and / or anti-static material with the next packaging layer being a conductive field-shielding barrier.

6.3 HAZARDOUS MATERIALS/DANGEROUS GOODS

Defined

A Hazardous Material/Dangerous Good is any solid, liquid, or gas that can harm people, other living organisms, property, or the environment. Hazardous Material/Dangerous Goods may be radioactive, flammable, explosive, toxic, corrosive, biohazardous, an oxidizer, an asphyxiant, a pathogen, an allergen, contain chlorofluorocarbons or may have other characteristics that render it hazardous in specific circumstances.

Required

Hazardous Goods and Radioactive materials must be packaged, labeled, documented and shipped in accordance with destination specific and carrier regulations and directives. Receipt of Hazardous Goods will not be accepted by MIRION without proper labeling and documentation. If the supplier requires help to identify and comply with these regulations please contact MIRION.

6.4 SHIPPING DOCUMENTATION

Shipping Documentation must minimally contain the following information:

- Cert of Compliance
- MIRION part number
- MIRION purchase order/contract number
- Quantity
- Manufacturers part number (if applicable)
- Lot identification or Date Code with Shelf Life (if applicable)
- Serial numbers (if applicable)
- Request for Deviation/Waiver (If applicable)
- Commercial Invoice list Harmonized Tarrif Codes for all international shipments.

6.5 INTERNATIONAL SHIPMENT

Special requirements for international shipments exist. These requirements will be forwarded by MIRION purchasing when purchase orders/contracts are placed. Contact your purchasing representative at MIRION if you have questions.

7 ▪ CORRECTIVE ACTION

In this Section

This section is divided into the following subsections:

7.1 PURPOSE

To ensure that identified nonconformances are addressed; actions taken are documented and effective in eliminating and preventing recurrence.

MIRION prefers its' suppliers use a documented closed-loop corrective action system whenever a problem is encountered in their facility, or after the product has been shipped to MIRION.

7.2 CORRECTIVE ACTION

When Issued

MIRION may issue a request for corrective action for nonconforming material, parts, assemblies, failure to make on time delivery, or as a result of an audit.

Actions & Timeline

Actions	Timeline
Supplier must take immediate containment action upon notification of a nonconformance, 2 days.	Upon initial notification.
Supplier to submit initial observation and define the containment plan. The containment plan must clearly define the actions taken at the supplier's facility, to assure that no further nonconforming product is shipped to MIRION. • Report the results of the investigation into cause of the problem. • Submit permanent corrective action to be taken to prevent recurrence, and the effectivity date	Within the time requested by MIRION.
MIRION will verify the validity and effectiveness of the corrective actions submitted.	When Corrective Action implementation is complete.

8 ▪ SUPPLIER MONITORING

In this Section This section is divided into the following subsections:

8.1 PURPOSE

MIRION continually monitors its supplier's Quality, Cost and Delivery (QCD) to ensure they continue to meet requirements, and to ensure that suppliers continue to ship acceptable material, parts, or assembles. This monitoring may consist of:

- A Quality System surveillance audit at the supplier's facility
- Source Inspection of product at the supplier's facility
- Overall quality of supplied items
- Review of supplier furnished data packages
- Monitoring of On-Time deliveries
- Monitoring of cost of goods and services
- Pricing Performance

8.2 SUPPLIER SURVEILLANCE

Availability

The suppler must make their facility available for on-site process/product surveillance by MIRION. MIRION will contact the supplier in advance to schedule process/product surveillance.

Personnel Involved

The MIRION quality representative conducting the surveillance may be supported by representatives from other MIRION functions/organizations (i.e. Purchasing, Engineering, Manufacturing, etc.).

8.3 QUALITY SYSTEM AUDIT

Periodically, MIRION may audit the supplier's quality system. This may be a full or abbreviated documentation audit and / or an on-site audit. The purpose of these audits is to evaluate any changes that may have occurred in the supplier's quality system, and to assess the supplier's continuing commitment to quality.

8.4 SUPPLIER OVERALL PERFORMANCE RATING

Purpose

The "Supplier Overall Performance Rating" enables MIRION to determine a supplier's continual suitability as a supplier to MIRION.
"Supplier Overall Performance Rating" is calculated from the scores of Quality, Delivery, and Pricing Performance

Monitoring and Reporting

MIRION continually monitors a supplier's performance rating. Reporting is accomplished on a quarterly basis.
It is MIRIONS' policy not to share performance ratings with anyone other than the supplier.

Quality

A supplier's Quality Rating is calculated based results of inspection and the usage decision. The Quality Rating is a points based system. Points are awarded on an Inspection Lot basis. Incoming vs Defects found at assembly
An Inspection Lot can be a quantity delivered to our dock or can be an individual part found defective during installation and use.

Delivery

The date on the MIRION purchase order/contract reflects an **on site** date. **Zero** days late, but no more than **3 days** early is considered an on time delivery.
Delivery ratings are based on late and/or early receipts.
Your MIRION buyer and/or the Procurement Manager will address delivery issues.

Appendix A

Certificate of Conformance/Compliance

When required by Purchase Order all “Certificate of Conformance/Compliance” as a minimum must contain following information:

1. Suppliers name.
2. Mirion Technologies company name.
3. MIRION Purchase Order number.
4. MIRION part number or the manufacturer part number as stated on purchase order.
5. Description of the items delivered.
6. A listing of all line items covered by the Certificate of Conformance and any concessions or purchase order requirements not met (as applicable).
7. A statement of conformance (referencing Test Procedures and/or special processes, as applicable).
8. Date Codes, Serial Numbers, or Cure Dates as required by the Purchase Order.
9. A reference to any attachments to the Certificate of Conformance (i.e. Material Certifications, Painting, Plating, Welding or Non-destructive testing, as required by the purchase order)
10. A signature and title of an authorized representative for Quality.

Appendix B

Purchase Order Passdown Requirements
Quality Requirement Codes

QC1 Substitution of Parts/Materials

Supplier shall not substitute any parts or materials specified on Mirion procurement documents, Drawings or Bills of Materials, without the express written approval of Mirion.

If approval is granted, Mirion will provide a red-lined or updated drawing, Bills of Materials, or an updated purchase order to Supplier.

Suppliers shall not proceed without the written approval via, and/or the updated documents.

QC2 Procurement of Materials from "Brokers"

Brokers can be a significant risk for delivery of suspect / counterfeit or used items. Mirion expects the Supplier to procure materials and items directly from the material manufacturer or authorized distributor networks. Due to the availability of suspect counterfeit or used materials in the marketplace the supplier is only authorized to procure materials from a Mirion authorized supplier.

Suppliers are required to contact the Mirion Purchasing representative for authorization and names of Mirion approved brokers.

QC3 Suspect / Counterfeit or Used Items

Supply chains from other than directly from the original manufacturer can be a significant risk for delivery of suspect / counterfeit or used items.

Suppliers are prohibited from delivering suspect / counterfeit or used items to Mirion. By acknowledgement/acceptance of this Purchase Order/Contract, the supplier certifies that for all items on this order:

a. The supplier is a current manufacturer's authorized franchise or distributor, and

b. That the items have not been procured by the supplier through other supply chains. *Examples of types of material, parts, and components known to have been misrepresented include (but are not limited to) fasteners; valves; pipe and fittings; electrical equipment and devices; plate, bar, shapes, channel members, and other heat treated materials and structural items, welding rod and electrodes, and computer memory modules.*

The Supplier's responsibility also extends to labels and/or trademarks or logos affixed, or designed to be affixed, to items supplied or delivered to Mirion. In addition, because falsification of information or documentation may constitute criminal conduct, Mirion may reject and retain such information or items, at no cost, and identify, segregate, and report such information or activities to cognizant regulatory officials.

Supplier is accountable for replacing any suspect / counterfeit or used items at their expense.

QC4 Reporting of Non-compliances or Use of Suspect / Counterfeit or Used Items

In the event that any materials provided to Mirion are found defective, counterfeit (suspect or otherwise) or used, or Supplier determines a defect in the assemblies delivered to Mirion, Supplier shall notify Mirion of the defect within 5 (five) days of discovery of said noncompliance. Notification shall be to the Mirion Purchasing representative.

QC5 Certificate of Conformance

With each delivery, Supplier shall provide a Certificate of Conformance on Company Letterhead, meeting the following requirements (multiple Purchase Order line items may be covered on one Certificate of Conformance):

QC5A (COMMERCIAL)

(1) The certificate shall identify the purchased material or equipment, such as by the purchase order number.

(3) The certificate shall identify any procurement requirements that have not been met, together with an explanation and the means for resolving the non-conformance/s.

(4) The certificate shall identify Lot/Batch/Serial Number/s, Manufacture Date or Cure Date and the Expiration Date of the materials provided, as applicable.

QC5B AUGMENTED REQUIREMENTS

(1) The certificate shall identify the purchased material or equipment, such as by the purchase order number.

(2) The certificate shall identify the specific procurement requirements met by the purchased material or equipment, such as codes, standards, and other specifications. This may be accomplished by including a list of the specific requirements or by providing, on-site, a copy of the purchase order and the procurement specifications or drawings, together with a suitable certificate. The procurement requirements identified shall include any approved changes, waivers, or deviations applicable to the subject material or equipment.

(3) The certificate shall identify any procurement requirements that have not been met, together with an explanation and the means for resolving the non-conformance/s.

(4) The certificate shall identify Lot/Batch/Serial Number/s, Manufacture Date or Cure Date and the Expiration Date of the materials provided, as applicable.

(5) The certificate shall be signed or otherwise authenticated by a person who is responsible for this quality assurance function and whose function and position are described in the Purchaser's or Supplier's quality assurance program.

QC6 Traceability / Lot / Batch Control

Traceability/Lot/Batch Control is a requirement for items delivered to Mirion under this Purchase Order/Contract. These items/material shall have a unique "lot" number ("batch" number, or "heat" number, or serial number/s, or date codes as applicable) affixed to the items (tubes, bags, boxes, etc., as appropriate) and recorded on all associated documents (i.e. Certificates of Conformance and Packing Slips) subsequently allowing Mirion and the supplier to identify the source of all materials delivered, providing positive recall by identifying "lot" number (or "batch" number or "heat" number) when defective or suspect/counterfeit or used items are discovered.

While a single traceable lot, batch or date code per item delivery is desired, supplier may provide more than one traceable lots, batches, date codes, etc. for a particular delivery, provided the required documentation for each item's lot, batch, and or date code, as applicable, is recorded on the furnished documents (i.e. Certificates of Conformance and Packing Slips).
When multiple lot, batch or date codes are delivered the individual lot, batch or date code items are required to be packaged in a fashion that does not comingle the different lot, batch or date codes.

Suppliers shall require sub-suppliers, as applicable, to document and provide "lot" (or "batch" number, or "heat" number, or serial number/s, or date codes as applicable) numbers for all items delivered on this order.

Suppliers shall maintain the sub-supplier records for a period of 20 years. At the conclusion of the 20 year storage period, prior to disposal, Supplier shall offer to Mirion all applicable records. Should Mirion specifically state in writing not to accept the records, supplier may dispose of the records at his convenience.

In lieu of supplier maintaining records for 20 years, supplier may provide alternative period to Mirion Purchasing as to the period that records will be maintained. At the conclusion of said storage period, Supplier shall offer to Mirion all applicable records prior to disposal.

QC7 Raw Materials for Fabricated Metal and Polymer Items

Material Test Reports (MTRs) shall be supplied for all material utilized in the construction/supply of assemblies or items delivered to Mirion.

CMTRs shall, as a minimum, contain the following information:

Material Type
Material Description (size, configuration, weight)
Material Specification
Heat Number, Lot, or Batch; as applicable to the Material type.
Chemical Properties
Physical Characteristics
Signature of authorized representative from the supplying mill.

QC8 Heat Treatment Certification

Heat Treatment Certification required; see drawing for Heat Treat requirements.

QC9 Limited Shelf Life Items

Supplier is required to provide Manufacture Date or Cure Date and the Expiration Date which shall be clearly marked on Packing Slips, Certificate of Conformance, and where applicable on the item itself.

It is required that at the time of delivery, to Mirion, that a shelf life item has a minimum of **80%** of its' reaming shelf life.

QC10 (DELETED)

QC11 SDS

Safety Data sheets required with delivery.

QC12 Welding

Welding shall be in compliance as specified on drawings when welding is required for the manufacture or assembly of items delivered to Mirion.
Items applicable to this order are required to be reviewed/approved by Mirion prior to commencement of welding activities or are deliverable documents:

12a Welding Procedures, Welder Qualification, and Weld Rod certifications shall be maintained by the supplier and shall be available upon Mirion's request

12b Welder Qualifications to:

12b1 AWS D1.1, or AWS D1.3, or AWS D1.6, or AWS D9.1, Req'd as applicable
12b2 ASME Boiler Pressure Vessel Section VII, required as applicable
12b3 ASME Boiler Pressure Vessel Section IV; required as applicable.

12c Mirion Welding Specification 602727 applies.as applicable per Mirion's drawings

12d Certified Weld Inspection and reports required at the time of delivery to Mirion.

12e Weld Inspectors current credentials shall be maintained by the supplier and shall be available upon Mirion's request

12f Certified Material Test Reports (CMTRs) required for all material utilized in the welding activities of equipment including weld rod materials & gases, when applicable

12g Non-Destructive test certification required – see drawing

12h Mirion must be notified 5 business days in advance of the performance of weld inspection.

12i Certificate of Conformance required for performance of sandblasting in accordance with SSPC-SP6 or SSPC-SP-10 as specified, when applicable

QC13 Non-Destructive Testing

Non-Destructive test certification required; i.e. Radiographic, Penetrant, Magnetic particle, Ultrasonic.

QC14 Source Inspection

Prior to delivery, a MIRION representative and/or our customers' representative may perform inspections at the specified hold points or a complete final inspection of the item. Source inspection verification will include review of applicable documentation as well as a physical inspection of the item. Notify the Buyer / Planner at least 5 business days in advance for inspection.

QC15 Inspection Hold Points

Additional Quality Assurance inspection Hold Points are specified on the Purchase Order/Contract. Notify the Buyer/ Planner at least 5 business days in advance for hold point activities.

QC16 First Article Inspection

When furnishing parts for the first time or revisions of previously supplied parts to MIRION, a First Article Inspection Report is required. The purpose of the First Article Inspection is to obtain measured data from the supplier's facility along with a control sample. The sample item is re-measured by MIRION, and the results compared. This enables MIRION to determine if there are any misinterpretations of the drawing or non-conformances.
The report and sample item should be forwarded as directed by the purchase order/contract. Unless otherwise instructed, retain the remainder of the order at your facility until notified of the results of First Article Inspection and directed to proceed.

QC17 Calibration

Calibration Certificates/Reports Required. Calibration reports must include "As Found / As Left" Data (as applicable). All Calibrations are required to traceable to NIST.

QC18 Pressure Testing

Pressure testing of all pressure vessels must be performed in accordance with Mirion TP201160-003 or TP201166-003 as applicable.

QC19 CE Compliance

CE compliant items are required. The supplier shall provide the item marked accordingly and provide a "Declaration of Conformity" stating that the items are CE compliant.

QC20 Special Packaging

When this quality code is invoked, special packaging requirements will be included with/on the Purchase Order/Contract and or included on the drawing. If this QC code is shown on the Purchase Order/Contract and there is no special packaging requirements specified contact the Mirion Buyer/Planner.

QC21 Special Quality Assurance Plan

A series of comprehensive quality or special process requirements are required. The supplier is required to develop and submit a Quality Assurance Plan (QAP) to Mirion for approval prior to commencement of work.

QC22 ASME NQA-1-2009 Quality System

NQA-1 Quality System requirements invoked, an addendum is attached to the Purchase Order/Contract outlining the minimum Quality System requirements which need to be in place by the supplier for this order.

QC98 Miscellaneous

Additional requirements/attachments to the Purchase Order.

QC99 Quality Documents

Quality Documents must be delivered with each shipment. They should be placed in an envelope and clearly marked with the **Purchase Order Number** and the following statement **"Quality Documents Enclosed, deliver to Incoming Inspection"**.