



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

MRAS – 9000
March 6, 2008
Page 1 of 20

MRAS – 9000

Supplier Quality System Requirements

Basic Quality Assurance Program Requirements



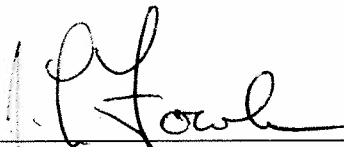
MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

MRAS – 9000
March 6, 2008
Page 2 of 20

Issued By: Sourcing Quality

Title: MRAS – 9000
Supplier Quality System Requirements
Basic Quality Assurance Program Requirements

Approval:



J. Fowler
Manager, Supplier Quality

Date Issued: 6/13/03
Date Revised 3/6/08
Number: MRAS - 9000



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

Table of Contents		
Title	Revision Status	Page
Introduction	New	4
Part I	New	5
Part II	New	9
Appendix Q	New	12
Part I Audit Check List	New	20
Part II Audit Check List	New	29

Unique Requirements		
Appendix I • TBD	New	TBD



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

MRAS – 9000
March 6, 2008
Page 4 of 20

Introduction

Supplier Quality System Requirements

1. This document establishes the minimum quality system requirements necessary for Suppliers who provide material or services to Middle River Aircraft Systems (MRAS). This document applies when referenced in the MRAS procurement document PR279, PR313, Q341.
2. The requirement is divided into two parts as follows dependent on the type of supplies or services provided.

PART I Suppliers of material or special processes, where it is essential to assure quality through control of work operations and manufacturing processes as well as inspection and tests. This type of Supplier is typical of one where MIL-I-45208 would be considered for application.

PART II Distributors or Warehouses

Appendix Q Applies to Part I and II

3. Application of the requirements is based on the specific material or service provided.
4. In the event of conflict in quality system requirements, the order of precedence shall be:
 - 1) Procurement Document (excluding this document)
 - 2) Applicable Purchaser's Drawing
 - 3) Specifications referenced on the drawing
 - 4) This document
 - 5) All specifications referenced in this document



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

MRAS – 9000
March 6, 2008
Page 5 of 20

MRAS – 9000 Part I
Basic Quality Assurance Program Requirements

=====

NOTICE: Copies of this document are not controlled and may not be the most current version.

I. SCOPE:

This Buyer specification establishes Seller requirements to assure an effective system for the control of product quality.

II. PURPOSE:

The requirements described herein are designed to achieve economic and efficient control of quality at the initial point of manufacture and through all subsequent phases of manufacture, inspection and test to assure conformance with the requirements imposed by this Purchase Order ("PO").

III. APPLICABILITY:

All requirements specified herein are applicable to the extent specified in this PO:

BUYER DOCUMENTS:

QUALITY ASSURANCE PROVISION A7-A7Z
CONTROL OF PROCESSES AND LISTING OF APPROVED PROCESSING SOURCES

QUALITY ASSURANCE PROVISION P6
FIRST ARTICLE INSPECTION REQUIREMENTS

IV. CONTROL OF PURCHASES:

- A. Seller shall notify the Buyer's Procurement Quality Assurance ("PQA") organization, in writing, when 50% or more of the Buyer's PO task (i.e., 50% of the part numbers, cost, labor hours, etc.) is to be outsourced to subcontracted suppliers or other divisions of Seller's company. If Seller has previously notified Buyer of the outsourcing on a previous PO for the same part number, Seller does not have to notify Buyer on the new PO.



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

- B. Seller shall assure that all applicable requirements of this PO are properly included in POs to subcontracted suppliers. POs shall include the applicable revision for all referenced specifications and documents.
- C. Seller shall flow down MRAS - 9000, or an equivalent document that has been submitted to and approved, in writing, by Buyer's PQA organization, to the subcontracted supplier. Seller shall determine the capability of the subcontracted supplier to manufacture and control the product prior to placing the PO with the subcontracted supplier.
- D. If Seller elects to use a sales office to process this PO, the sales office shall:
 - 1. Notify Buyer's PQA organization within 24 hours of PO receipt and identify the manufacturing facility that will be used.
 - 2. Assure the identified manufacturing facility is approved to MRAS - 9000 by Buyer prior to flowing PO tasks to the manufacturing facility.
 - 3. Impose Buyer PO terms and conditions of this PO on the manufacturing facility in full. Provide copies of all PO referenced documents to the manufacturing facility.

V. RECEIVING CONTROL:

Seller shall maintain a receiving inspection function to assure:

- A. Incoming materials are fully inspected by Seller for damage, material correctness, dimensional correctness, identification and compliance with other PO, drawing specification requirements.
 - 1. Proper identification includes, as applicable: numbers, dash numbers, heat lot (melt) numbers, x- serial numbers, traceability serial numbers, material type and presence of special process inspection stamps.
- B. When test reports or certificates of chemical and analyses are received from each of Seller's suppliers as part of a delivery, Seller shall maintain such reports and analyses on file as records.
- C. Seller shall properly segregate inspected items from items awaiting inspection.
- D. Seller shall identify material as to acceptance or status
- E. Seller shall maintain and store records of inspection and tests.



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

VI. MANUFACTURING AND INSPECTION:

- A. Seller shall utilize written instructions for manufacturing and inspection operations. Instructions may in the form of planning, manufacturing operation sheets, orders, shop orders, travelers or any other document.
- B. Such instructions shall specify, in sufficient detail, controls and conditions of manufacture peculiar to the item being manufactured, assembled, inspected and tested. Controls shall include without limitation:
 - 1. Sequence of manufacturing, test and inspection operations
 - 2. Identification of manufacturing and inspection tools and equipment to be used
 - 3. Process instructions such as feeds and speeds of cutters oven times and temperatures, etc.
 - 4. Reference to applicable drawings, specifications of PO, and supplemental instructions, including the level
 - 5. Accept and reject criteria
 - 6. Lot quantity accountability.
- C. Seller may use sampling plans, provided the sampling plans are in accordance with existing military or government standards or have been submitted to, and approved, in writing, by Buyer.

VII. TOOLING, INSPECTION MEASURING AND TEST EQUIPMENT:

Seller shall maintain and control without limitation supplied by Buyer, subcontractors or customers to a degree that remains acceptable for production usage. Seller shall maintain control and periodically inspect and calibrate measuring and test equipment in accordance with the requirements of ANSI/NCSS Z540-1 or similar industry standard.



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

MRAS – 9000
March 6, 2008
Page 8 of 20

VIII. UNUSUAL VISUAL CONDITIONS

1. An unusual visual condition can exist when a delivered product contains a technically acceptable visual condition, which could result in unfavorable reaction or questions when seen by a customer.
2. Examples include, but are not limited to the following:
 - a. Discoloration
 - b. Uneven surface condition
 - c. Evidence of rework/repair
 - d. Result of process change, which alters the appearance of the part and said part, differs from parts shipped prior to the process change
3. If the visual condition violates an engineering requirement or is a result of a repair, MRB disposition is required.
4. If the visual condition does not violate engineering requirements, but is considered an "Unusual Visual Condition", the manufacturing source must contact the Buyer who will work with the Customer Program Quality Leader for concurrence prior to the part being shipped. Product delivered that has been determined to contain UVC's that are unacceptable to MRAS or MRAS' Customer is subject to rejection.

IX. DRAWING AND CHANGE CONTROL:

- A. Seller shall control drawings, specifications and work to the extent necessary to assure that only documents of revision contractually specified are used. These controls assure removal of obsolete documents from the inspection and test areas.

X. FIRST ARTICLE INSPECTION:

Seller shall comply with the First Article Inspection requirements. Ref: Quality assurance Provision P6 (Form Q341)

XI. SPECIAL PROCESSES:

Seller shall comply with the applicable process source control requirements and limitations of Provision A7-A7Z (Form Q341)



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

XII. CORRECTIVE ACTION AND NONCONFORMING MATERIAL CONTROL:

Seller shall establish and maintain a system for nonconforming material and processing buyer's requests corrective action.

XIII. PACKAGING AND SHIPPING:

A. Seller shall assure that items receive the required cleaning preservation and special packaging as specified in the When none are specified, Seller shall observe good practices to assure protection and preclude transit damage.

B. Seller shall maintain records of each shipment.

XIV. RECORDS:

Seller shall maintain records of inspections and tests such records shall contain, at a minimum, the information: nature of observations; number of observations; number of discrepancies; type of discrepancies; quantity accepted; quantity rejected; and corrective actions taken. Unless otherwise directed by Purchase Order, record retention is to be in accordance with Appendix Q Paragraph K.



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

MRAS – 9000 Part II
Basic Quality Assurance Program Requirements
DISTRIBUTOR QUALITY REQUIREMENTS

=====

NOTICE: Copies of this document are not controlled and may not be the most current version.

SCOPE:

This document sets forth the minimum system requirements of a “Distributor” as such term is hereafter defined, and applies to Seller to the extent that Seller is a Distributor. These requirements pertain to management, procedures, systems, test, and inspection controls necessary to assure conformance to drawings, specifications and purchase order (“PO”) requirements.

“Distributor” shall mean any Seller that is strictly buying products from other suppliers and selling them to Buyer without adding any value to the products. Repackaging shall not be considered a value-added task for the purposes of this definition.

I. GENERAL

- A. Seller shall comply with the requirements of this specification and Appendix Q. Seller does NOT have design authority for any product provided to Buyer.
- B. Seller shall assure traceability to qualified product lists (QPL or any Buyer directed source) whenever applicable.
- C. Modifications of supplies to be delivered hereunder by Seller are strictly prohibited except where approved by the original equipment manufacturer (“OEM”) or this PO.

II. MEASURING and TEST EQUIPMENT:

Seller shall maintain a documented military or ISO based system for the calibration and maintenance of inspection equipment.



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

DISTRIBUTOR QUALITY REQUIREMENTS

III. RECEIVING INSPECTION:

- A. Seller shall establish receiving inspection procedures with adequate instructions to assure material received from its subcontracted suppliers are inspected to and meet Buyer's PO requirements. Verification of product conformance to drawing, specification and Buyer PO requirements shall be per inspection sampling plans, audits, certifications of conformance at Seller's or manufacturer's facilities, as appropriate. Supplies shall be verified against the latest applicable engineering changes.
- B. Seller shall segregate inspected material from material not yet inspected.

IV. CORRECTIVE ACTION:

- A. Seller shall have a system to obtain corrective action for internal and external problems. The system shall track issues and due dates as well as corrective action when adverse trends are identified.
- B. Seller shall establish membership in the Government Industry Data Exchange Program ("GIDEP") and notify Buyer upon receipt of GIDEP information that affects products shipped to Buyer.



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

MRAS – 9000
March 6, 2008
Page 12 of 20

DISTRIBUTOR QUALITY REQUIREMENTS

V. CONTROL OF PURCHASES:

- A. Seller shall assure items are procured from subcontracted suppliers listed on this PO or as directed by engineering in the build-to package (e.g., QPL, EPS Manual, specification control drawing, etc.).
- B. Seller shall include in its POs to subcontracted suppliers, an adequate description of the products being procured. The description shall include, but not be limited to, part number, drawing revision, packaging and shipping instructions and data requirements. Seller shall furnish all applicable requirements, specifications, drawings and other applicable documents to subcontracted suppliers.
- C. Seller shall include Buyer's quality requirements (Appendix Q and applicable sub-clauses) in its contract arrangements with its subcontracted suppliers.
- D. Seller may procure products from other distributors as long as all OEM certification and test reports traceable to the lot or batch number accompanies the products to the point where the material is accepted by Buyer.
- E. Seller having more than one facility may transfer products between those facilities as long as all OEM certifications and test reports traceable to the lot or batch number accompanies the products to the point where the material is accepted by Buyer.



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

MRAS – 9000 Appendix Q
SELLER QUALITY REQUIREMENTS

=====

NOTICE: Copies of this document are not controlled and may not be the most current version.

- A.** Seller shall maintain an International Organization of Standards ("ISO"), Aerospace Standard ("AS") or Military Standard - equivalent quality system acceptable to Buyer for the Items (including "items" and "Work" as such terms may be used in this PO's definitions) covered herein. Widely recognized Government or Industry Quality System standards should be used as guidelines. Upon Buyer's request therefor, Seller shall provide to Buyer documentation that describes Seller's System.
- B.** Seller shall provide and obtain for Buyer, Buyer's Customers, and appropriate regulatory agencies access to any and all facilities, including those facilities of Seller's subcontractors, where work on Items is being performed or is scheduled to be performed under this Purchase Order ("PO"). Buyer shall have right to perform in-process inspection, audits, and system surveillance at Seller and Seller's subcontractors' facilities as part of verification of conformance to the requirements of this PO. Work under this PO is subject to Buyer's periodic audit of Seller's compliance with Seller's internal procedures and other documents applicable to this PO. Seller shall provide, at no cost to Buyer, Government or appropriate regulatory agencies, suitable facilities at Seller and Seller's subcontractors' manufacturing locations for Buyer, Government, and regulatory agency representatives to perform compliance verification. Seller shall include the provisions of this paragraph in each purchase order, if any, with each of its subcontractors where work is being performed or is scheduled to be performed in connection with this PO, and shall require that this paragraph B is inserted in all subcontracts at every tier.
- C.** Seller shall maintain complete records of all manufacturing, inspecting and testing in connection with the Items. At Buyer's election, such records shall be made available to the Buyer, Buyer's Customers and/or appropriate regulatory agencies during the performance of this PO and after completion of this PO or for the duration specified in Appendix Q or as specified elsewhere in this PO. Upon Buyer's request therefor, Seller shall forward such records to Buyer at no cost to Buyer.



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

D. Control and Processing Nonconforming Material and Corrective Action

Seller shall implement and maintain a system, which provides for identification, documentation, segregation and disposition of nonconforming material and shall ensure effective, positive corrective action is taken (including repetitive nonconformances dispositioned "Use As Is" by Buyer's or Seller's material review board ["MRB"] actions) to prevent, minimize, or eliminate nonconformances. Seller's system shall ensure that non-conforming material is not used for production purposes. Seller shall maintain records of all nonconforming material, dispositions, assignable causes, corrective actions, and effectiveness of corrective actions for the period specified in this PO. Seller shall evaluate each nonconformance for its potential to exist in previously produced or delivered Items. If a nonconformance exists, Seller shall notify Buyer, in writing, within 24 hours for issues impacting flight safety, and, in writing, within 5 working days for all other issues. Buyer shall forward requests for corrective action, if any, to Seller when Buyer detects unsatisfactory performance by Seller and/or any of its subcontractors. Seller shall respond to all Buyer requests for corrective action. When requested by Buyer, Seller shall provide trend data and findings for Buyer returned Items. Seller shall assess all Buyer identified non-conformances and take the appropriate actions to ensure causes of nonconformance are corrected. If Seller is unable to verify or duplicate the nonconformance or refuses responsibility for the nonconformance, Seller shall notify Buyer. If Seller does not respond by Seller Confirmation Action Request ("SCAR") within 30 days of receipt by Seller of the nonconforming Item, Seller shall be deemed to have accepted responsibility for the identified nonconformance.

E. Material Review Authority

Material Review Authority (MRA) for Seller-Designed Items

When Seller has been granted Material Review Authority, this authority excludes nonconformances which affect a parameter controlled by Buyer drawing or specification or which affect form, fit, function, interchangeability or reliability. Seller shall submit dispositions of nonconforming Items, if any, regarding any such parameter(s) to Buyer for approval.

MRA for Buyer-Designed Items

Seller dispositions are limited to scrapping of Items, eliminating the nonconformance by rework to engineering, or returning to vendor. On Items of Buyer design, Seller shall document nonconforming Items for submittal to Buyer's MRB for dispositions as required by this PO. Seller's continued processing, prior to Buyer's MRB disposition, of any Buyer-designed Items containing a nonconformance prior to Buyer's MRB disposition will be at Seller's risk.



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

MRAS – 9000
March 6, 2008
Page 15 of 20

Additional MRA Requirements for Buyer-Designed Items

If seller has written delegated MRA, on Buyer-designed Items, Seller shall exercise such MRA except for non-conformances of a parameter that affects form, fit, function, interchangeability or reliability.

Material Review Board Submittals

All submittals for Buyer MRB disposition of Seller or Buyer- designed Items or requests for MRA shall be submitted in accordance with Buyer instructions. Seller shall not incorporate any nonconforming Items into any product, process, procedure or data that affects a parameter controlled by Buyer drawing or specification or has an effect on form, fit, function, interchangeability or reliability unless and until Seller has received prior written approval from Buyer. Buyer and Buyer's customers shall each have the right to refuse to accept any nonconformances. When Government source inspection is a requirement of this PO, and Buyers customer has delegated MRA to Sellers cognizant Government source representatives, Seller shall submit material review dispositions to Seller's local Government representative for concurrence.

F. General Requirements

A controlled process is an operation performed on an Item where the operation is not readily inspectable subsequent to its conclusion. Controlled processes have verifiable controls inherent to the process i.e. heat treat, plating, nondestructive testing, etc. The controlled processes are not applicable to standard hardware (nuts, bolts, washers, etc.) that is ordered to military, federal or industry specifications or standards (e.g., MS, AN, NAS, etc.) or to metallic raw material (plate, sheet, bar, extrusion, etc.) that is purchased from a mill. The list of both Buyer-controlled processes and Buyer- approved sources can be can be obtained by contacting the Buyer. Seller shall use Buyer-approved sources for Buyer-controlled processes.

Buyer approval, if any, of Seller or a source to perform a process is limited to that process specification and does not imply approval for any other process specifications embedded therein. **Note:** where Buyer's approval is a requirement within a process specification, Buyer will control approval. (Examples: Penetrant demonstration programs, heat-treat re- qualification programs, etc.) Seller shall review the list of Buyer-approved process sources, prior to using a process source for a controlled process, and select process sources that are approved by Buyer. Seller's utilization of Buyer-approved sources does not relieve Seller from the obligations to ensure subcontracted sources are in full compliance with applicable process specifications and to deliver conforming Items. Seller shall provide objective evidence of such compliance to Buyer upon request. Seller shall be responsible for ensuring that Seller or sources have the appropriate



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

revision level of the process standards/specifications prior to performing work in connection with the Items. Seller shall maintain objective evidence that each Buyer- approved process source, selected by Seller, is being monitored to assure compliance with all applicable process specifications. Seller shall provide objective evidence of such compliance to Buyer upon request. Seller shall ensure process controls are established and required process control tests are accomplished at required intervals to ensure continued compliance to process specifications. Records of all process control tests, e.g. monthly or by lot, and inspection of processed items performed by a Source shall be made available and maintained for the duration specified in Appendix Q Paragraph K, after completion of this PO. Seller shall ensure all purchase orders to Buyer-approved process sources contain:

- a) A requirement to submit a Certificate of Conformance ("C of C") with a unique certification number containing the following information:
 1. Title and specification number (including revision letter) of the process;
 2. Name and address of the process or NDT facility;
 3. Date the C of C was issued;
 4. Purchase order part number;
 5. Quantity of parts (to include quantity accepted/ rejected);
 6. Signature and title of authorized quality agent of seller; and
 7. Fracture durability classification or serialization when required.

- b) A requirement to ensure parts are suitably wrapped, boxed or racked to guard against shipping damage and apply rust or corrosion protection.

- c) Seller shall review testing lab C of C to ensure all required testing has been accomplished and meets all requirements of the testing specification. Seller shall maintain activity data on each Buyer-approved process source utilized by Seller, if any, compile an annual report, and submit to Buyer by 1 November, each year. The report shall contain the following information:
 1. Source name and address;
 2. Process specification used by specification number; and

The report shall be mailed to the following address:

MRAS- Supplier Quality MP 16
103 Chesapeake Park Plaza
Baltimore, MD 21220

Seller shall submit all requests for additional process approvals in writing to the Buyer.



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

MRAS – 9000
March 6, 2008
Page 17 of 20

Additional Requirements for Seller-Designed items

For Seller-designed Items:

1. Seller has the responsibility and authority to approve and control its own processing sources, including in-house processes.
2. Seller shall ensure that the assignment of personnel is commensurate with their level of experience, training and proficiency.
3. Buyer shall have the right to review and maintain surveillance of Seller's system for approval and control of Buyer-approved processes, including those performed in-house. If Buyer determines Seller's system has failed to control processing or testing, Buyer shall have the right to withdraw Seller's authority to approve and control Buyer-approved processes. In the event of withdrawal of such authority, Buyer shall have the right to direct Seller, at increase in cost to Buyer, to use Buyer-approved sources.

G. Calibration

Seller shall maintain a calibration system that is compliant with the requirements in ISO 9001, ISO 10012-1, MIL-STD 45662A, or ANSI 2540.

H. Product Certifications and Acceptance

Seller shall prepare a C of C statement that Items provided under this PO meet all applicable requirements. This C of C shall be included with Seller's shipping document to Buyer.

When Buyer's Customer requires source inspection, Seller shall obtain objective evidence of Buyer's Customer representative's inspection by signature and title or by stamp on any shipping documents required by this PO.

I. Changes to Seller's Operations

Seller shall notify Buyer, in writing, of any change in status of its quality system as a result of any Government or regulatory agency action. Seller shall also notify Buyer, in writing, upon any relocation or transfer of manufacturing operations, or change in any organization or procedure that could impact Item quality.



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

MRAS – 9000
March 6, 2008
Page 18 of 20

J. Selection and Control of Seller's Sub-tier Sources

Seller's quality system shall include procedures for determining the capability of sub-tier suppliers, prior to issuance of Seller's PO. When the Seller performs a Quality System Survey or Evaluation for a sub-tier supplier facility, the results of each survey or evaluation shall be documented. Seller is responsible for ensuring all materials, services and components it procures for incorporation into the Items conform to all requirements of this PO. Seller shall define and establish a program for determining the need for periodic re-audit or re-evaluation of Seller's sub-tier suppliers. Prior to production and award of subcontracts, Seller shall institute a program that will ensure control of the quality of all Items procured by Seller in support of this PO. Seller shall include the applicable portions of this PO in each of its purchase orders, if any, with each of its subcontractors where work is being performed or is scheduled to be performed in connection with this PO and require that, where applicable, such portions are inserted in all subcontracts at every tier.

K. Records

Maintenance and storage of records will be such that when requested for review, they are legible, readable and interpretable. If records are documented on a medium that can deteriorated over time or can become unretrievable due to obsolescence of an electronic systems (i.e. faxed copies, strip charts on thermal paper, electronic records, etc.), it will be the responsibility of the supplier to assure that there is technology available to recreate the records so that they are maintained in an environment that will eliminate deterioration and/or provide for timely retrieval.

Retention Period

Manufacturing Operation Sheets for Component – Manufactured Items – To be retained per the duration requirements specified below.

Product Acceptance Records and Serial/Lot Number Assignment records:

- a) Non-serialized parts – Five (5) years
- b) Serialized Parts – Ten (10) years
- c) Administrative Records – Two (2) years
- d) Radiographic Film – Five (5) years



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

- e) Ultrasonic strip charts or "C" scan records (including electronic generated data records) –PERMANENTLY
- f) Eddy Current strip charts (including electronic generate data records) – PERMANENTLY

Delivery of Data

The delivery of data to the Purchaser does not release the supplier from any requirements herein with respect to that data expect as agreed to in writing by the Purchaser.

Termination

- a) A supplier who ceases operations (i.e., goes out of business) shall contact the Purchaser to make arrangements for the transfer of all quality records to the MRAS Records Center for storage.
- b) A supplier who discontinues acceptance of MRAS purchase orders, but whose business remains intact, shall be responsible for the archival of all quality-related records for the time periods specified above.

SERIAL NUMBER USAGE

MRAS Assigned serial number shall be used only for items that are to be supplied to MRAS or their agent, either directly or through another manufacturer who supplies them directly to MRAS. If product is provided to a customer other than MRAS or their agent, or other source manufacturer, (e.g., after market sales, DOD, etc.) MRAS assigned serial numbers shall not be used.

ASSIGNMENT – Serial numbers shall be assigned, using a logical method that is documented in an issued procedure. This procedure is subject to review and approval by the Purchaser. Serial numbers may be subdivided to be used at different facilities or to different product lines.

NON-DUPLICATION REQUIREMENTS – Serial numbers shall not be duplicated for any reason; regardless of the part or assembly identification number, design, function or usage (i.e., engine or other product application) of the item being manufactured.

PERMANENCE – Once a serial number has been used to identify an item, (i.e., either a unique piece of hardware or an associated paperwork), it shall not be changed at any time or for any reason, even if the items are reworked and re-identified.



MIDDLE RIVER AIRCRAFT SYSTEMS
MRA Systems, Inc. -- A Subsidiary of GE

Lot Numbers

GENERAL – When a drawing, or a specification referenced on a drawing, requires the application of a lot number, that lot shall be as defined herein.

LOT INFORMATION – Lots shall be formed by grouping items which have the same part number, and which are manufactured under essentially the same conditions, and at essentially the same time.

- Typical lots would be formed from a single heat, or a single melt or single heat-treat batch.

NON-DUPLICATION REQUIREMENTS – Once a specific lot number has been assigned to a lot, that lot number shall not be assigned applies even if the parts involved are dissimilar in identification, design or function.

PERMANENCE – Once a lot number has been used to identify manufacturing or inspection records, it shall not be changed at any time, or for any reason, even if the items are reworked and re-identified.

MAXIMUM NUMBER CHARACTERS – Lot numbers shall be limited to a maximum of eight (8) alphanumeric characters. When lot numbers are included as part marking, the five letters, I, O, Q, X and Z shall not be used.

SERIAL NUMBER ASSIGNMENT – The system for assigning serial numbers shall provide the following information:

- a) Purchaser's part or assembly identification numbers.
- b) Date of assignment.
- c) Explanation for deviations from expected sequence or practice.
- d) Record of serial numbers assigned to rejected items.

Microfilming

Microfilming of records shall comply with the following controls:

- a) All microfiche/microfilm shall be stored in a fireproof container, or equivalent method, such as redundant storage at an independent storehouse facility.
- b) A system shall guarantee the film accurately reproduces the original document and assures legible irretrievability throughout the duration of the retention period.
- c) A referencing system shall indicate what documents are stored