1.0 Purpose

1.1 To maintain a supplier quality program to meet the CIRCOR Aerospace and Defense Quality Policy, and to fulfill the CIRCOR Aerospace and Defense Continuous Improvement Principles. This quality program is based upon systems conforming to the requirements of AS9100 and applies to Legacy and New Suppliers for the Motor Technology Product line.

1.2 The purpose is to maintain and seek continuous improvement and to satisfy the needs and requirements of our customers. Also to maintain through the use of quality assurance and statistical process control, the provision of supplies “First Time Quality" at minimum cost. It is to also ensure that all supplier personnel apply this policy and are actively involved in a quality improvement program.

2.0 Scope

2.1 This manual describes the Purchasing System and Supplier Development Program which has been prepared to meet the requirements of AS9100 and any other specific customer (or other relevant International standard) requirements as identified. This manual provides, on subsequent pages, a description of the company, details of Supplier Quality policy and objectives, and the formal working methods by which CIRCOR Aerospace and Defense shall ensure that purchased products meet their requirements and those of their customers.

3.0 Definitions / Acronyms

3.1 AS9100 = A widely adopted and standardized quality management system for the Aerospace and Defense industry.

3.2 PPM = Parts per Million

3.3 FAI = First Article Inspection

3.4 FAA = Federal Aviation Administration

3.5 CAR = Corrective Action Report

3.6 C of C = Certificate of Conformance

3.7 SPS = Supplier Performance Scorecard

3.8 MSDS = Material Safety Data Sheets

3.9 QMS = Quality Management System

3.10 SPC = Statistical Process Control

3.11 RMA = Return to Manufacturer Authorization

4.0 Responsibility

4.1 CIRCOR Aerospace and Defense has committed to the principles of **AS9100.** CIRCOR Aerospace and Defense places the responsibility of the supplier development program within the Supplier Quality and Purchasing process. The Quality Department shall have the responsibility of monitoring and developing the performance of suppliers.

4.2 Suppliers of products and materials must be approved according to the supplier approval process as described in section 6.6. Purchase orders are issued by CIRCOR Aerospace and Defense, and material releases are issued by the receiving sites buyers as noted on the release. Suppliers providing goods and services in conjunction with the descriptions and prices listed on the purchase order are doing so in accordance with the terms and conditions listed on the purchase order. It is CIRCOR Aerospace and Defense's responsibility to appraise the supplier's quality performance in a fair manner, and it is the supplier's right to be aware of this appraisal.

5.0 Policy / Procedure / Process

5.1 **Our Quality Policy**

5.1.1 CIRCOR Aerospace and Defense Inc., a customer Focused, global provider of control solutions and services for critical Aerospace and Defense and defense applications, is committed to meeting or exceeding customer expectations by continually improving the QMS through compliance to statutory and regulatory requirements.

5.2 **Supplier Quality Objectives**

5.2.1 95% Delivered Quality

5.2.2 90% On Time Delivery

5.2.3 Zero Past Due Corrective Action Requests

5.3 **Statement of Continuous Improvement Principles**

5.3.1 CIRCOR Aerospace and Defense considers continuous improvement to be of great importance in achieving sustainable Business Excellence throughout the Company.

5.3.1.1 Quality (continuously meeting customer requirements) is defined by the customer; the customer wants products and services that, throughout their life, consistently meet their needs and expectations at a cost that represents value.

5.3.1.2 Quality Excellence can best be achieved by preventing problems from occurring rather than by detecting and correcting them as they occur.

5.3.1.3 All work that is done by CIRCOR Aerospace and Defense employees and suppliers is part of a process that and thereby, affect the quality of its output and the ultimate customer's satisfaction with our products.

5.3.1.4 Sustained quality excellence requires continuous improvement. This means, regardless of how good present performance may be, it can become better.

5.3.1.5 People provide the intelligence and generate the actions that are necessary to realize these improvements.

5.3.1.6 Each employee is a customer for work done by other employees or suppliers, with a right to expect good work from others and an obligation to contribute work of high caliber to those who, in turn, are his or her customers.

5.3.2 The goal of Continuous Improvement principles is to achieve superior external and internal customer satisfaction levels leading to measurably superior Business Excellence results throughout all its operations Each employee's commitment to the precepts of Continuous Quality Improvement and management's further commitment to implementation of supporting managerial and operating systems is essential to realizing the goal.

5.3.3 Each employee is responsible for the continuous review of existing systems and procedures and for improving them, as required, in line with the above statements.

5.4 Management Philosophy

5.4.1 CIRCOR Aerospace and Defense is a major supplier to major Aerospace and Defense equipment manufacturers. CIRCOR Aerospace and Defense customers are of the most demanding in the world; demanding "world-class quality" specifying a supply of defect-free product, delivered on time, and at a world competitive price. CIRCOR Aerospace and Defense has chosen to fulfill this commitment utilizing AS9100 as our fundamental quality system.

5.4.2 To ensure CIRCOR Aerospace and Defense success, we must rely on our suppliers to meet those same requirements. CIRCOR Aerospace and Defense's goal is to develop a community of suppliers who are best-in-class in the products and services rendered. Therefore, it is CIRCOR Aerospace and Defense's belief that the way to achieve this goal is for CIRCOR Aerospace and Defense and all of its suppliers, to not only meet, but exceed the customer's expectations, where possible.

5.4.3 CIRCOR Aerospace and Defense Supplier Quality Program places emphasis on defect prevention, rather than defect detection. Defect prevention aims to eliminate the cost of rework, scrap, returned product, and helps prevent untimely delays. Defect prevention is achieved through sound quality planning utilizing proven process capabilities, and the use of statistical process control. Striving to continuously improve our products and processes requires the same commitment from our suppliers.

5.4.4 Part of our quality commitment emphasizes that our personnel are available to assist in resolving manufacturing problems concerning purchased products where practical. All of this will allow us to complete our goal in the timely manner that our customers demand. Thus, the initial action of both the supplier and CIRCOR Aerospace and Defense is to recognize that WE are both suppliers and customers to each other. CIRCOR Aerospace and Defense has affirmed their commitment, and now the supplier has to ask the same questions. What do you do to satisfy your customer's requirements? Is the management committed? What does a customer expect from you? Is management committed to consistent Quality and Continuous Improvement? Are you taking steps to reduce scrap, rework, and rejections?

5.5 Business Practices

5.5.1 All purchases made by CIRCOR Aerospace and Defense are made through purchase orders. No other communication is considered valid for the purpose of entering into a contract with a supplier of goods and services.

5.5.2 Material releases may be sent that outline raw material, fabrication, and shipment authorizations against the purchase order agreement. In the event that a supplier in unable to provide the product and/or meet the delivery date requested, the supplier must contact the Purchasing Representative at CIRCOR Aerospace and Defense. The supplier should define the problem and include CIRCOR Aerospace and Defense part number and revision, the reason for the delay, and the number of parts which can be delivered on the required date and/or when the requirement can be fulfilled. **This contact must be made within 48 hours of the receipt of the material release or purchase order.**

5.6 Statement of Health, Safety, and Environmental Protection

5.6.1 The Management Team of CIRCOR Aerospace and Defense considers the health, safety, and environmental protection aspects of our business to be of great importance; as the prevention of personal injury, the avoidance of damage to health, and the protection of the environment contribute to the running of an efficient business.

5.6.2 CIRCOR Aerospace and Defense management practices and employee work activity will, without exception, ensure so far as is reasonably practicable:

5.6.2.1 The health, safety and welfare at work of its employees, contractors and visitors.

5.6.2.2 The health and safety of all other persons affected by the business activities of the Company's operations.

5.6.2.3 The effective planning and implementation of environmental controls and prevention of pollution.

5.6.2.4 The design of products and the provision of necessary information; in line with appropriate legislation, standards, and best practices.

5.6.2.5 CIRCOR Aerospace and Defense is committed to a policy of consultation, planning, and management review to ensure full cooperation and active support to achieve the above. Additionally, it is committed to a policy of planning continuous improvement in Health, Safety and Environmental Protection activities and management review to achieve defined and planned objectives, goals, and targets.

6.0 Supplier Requirements

6.1 Introduction

6.1.1 This manual has been developed to acquaint CIRCOR Aerospace and Defense suppliers with our expectations and our suppliers responsibilities to ensure that all materials and services furnished to CIRCOR Aerospace and Defense, comply with all purchase order requirements, blueprint specifications, First Article Inspection submission, where applicable, and any regulatory requirements that may apply.

6.2 Purpose

6.2.1 CIRCOR Aerospace and Defense requires each supplier to establish, maintain, and document a quality system that is in compliance to AS9100. This CIRCOR Aerospace and Defense Supplier Quality Assurance Manual describes the fundamentals that must be in place in each supplier's quality system, to provide the foundation for being a consistent quality supplier, and to gain future business. The requirements outlined in this manual are an essential element of maintaining continual supplier status with CIRCOR Aerospace and Defense.

6.3 Quality System Procedures

6.3.1 CIRCOR Aerospace and Defense requires each supplier to establish, maintain, and document a quality system that is in compliance to AS9100. This CIRCOR Aerospace and Defense Supplier Quality Assurance Manual describes the fundamentals that must be in place in each supplier's quality system, to provide the foundation for being a consistent quality supplier, and to gain future business. The requirements outlined in this manual are an essential element of maintaining continual supplier status with CIRCOR Aerospace and Defense.

6.4 CIRCOR Aerospace and Defense Supplier

6.4.1 Regardless of the function performed, all suppliers must be able to show compliance to all of the above and below listed requirements.

6.5 Continuous Improvement

6.5.1 The supplier should be working towards continuous improvement projects to improve in areas such as:

6.5.1.1 Volume Efficiencies.

6.5.1.2 Inventory Reduction.

6.5.1.3 Process Improvements.

6.5.1.4 Improved Cpk/Ppk values.

6.5.1.5 Reduction of scrap materials.

6.5.1.6 Optimizations of time, space, and labor to eliminate unnecessary operations.

6.5.1.7 Any other area that would impact quality and cost improvements, (i.e., lean manufacturing, value analysis, value engineering, etc.).

6.5.2 Continuous Improvement activity not only improves your process capabilities, but assists in reduction of waste, rework, scrap, and puts more dollars on the bottom-line. Continuous Improvement activities help your company remain competitive in areas such as pricing, quality and growth.

6.6 **Supplier Selection**

6.6.1 The approval process begins when the Purchasing Department considers a new supplier for a new or existing product or material. Suppliers are evaluated and selected based upon their ability to meet contract specification, and their ability to meet CIRCOR Aerospace and Defense Quality Requirements as outlined within this manual.

6.6.2 In selecting a potential supplier, CIRCOR Aerospace and Defense Purchasing and Supplier Quality may research and consider the following criteria:

6.6.2.1 Evidence of a Quality Operating System.

6.6.2.2 Competitive Pricing.

6.6.2.3 Technical Resources.

6.6.2.4 Supplier's current PPM, quality and delivery performance with others.

6.6.2.5 Financial strength and sound business practices.

6.6.2.6 Evidence of Continuous Improvements.

6.6.2.7 Customer nominated.

6.6.2.8 Original Equipment Manufacturer.

6.6.2.9 Capacity

6.6.2.10 Availability of product / service.

6.6.2.11 Only known source at the time.

6.6.3 The supplier must complete a Supplier Survey Form PB:110 prior to receiving an order. The survey shall be reviewed by Supplier Quality to assure that the necessary controls are in place that will assure consistent quality product.

6.6.3.1 Note: For a supplier that has multiple locations, the approval of one location does not signify approval of other locations. Each individual facility will be treated as though they are a new supplier.

6.7 **Quality System Assessment**

6.7.1 To assess a Supplier's Quality System, the supplier is required to submit a copy of their QMS certification and Nadcap certifications to provide evidence of their current registration as part of a Form PB:110 evaluation process. The supplier is also responsible to send a copy of the renewed or updated certificate when applicable. For those suppliers not registered with a 3rd Party Certification Body, the supplier will be required to complete a Self-Assessment Audit of their Quality System as part of the PB:110 process.

6.7.2 CIRCOR Supplier Quality will evaluate the Supplier completed PB:100 / Self-Assessment Audit. If an On-Site Audit is either requested or required, the Buyer will contact the supplier to arrange an on-site visit or audit at a mutually agreed date.

6.7.3 In the event of an on-site audit, the results of the audit will be reviewed with the supplier. If non-conformities are reported in the results, the supplier shall develop and submit a corrective action plan to CIRCOR Supplier Quality.

6.8 **CIRCOR Aerospace and Defense Approval Process**

6.8.1 Once the potential new supplier has successfully met the conditions listed above, CIRCOR Supplier Quality may approve the supplier to be included on the CIRCOR Approved Supplier list.

6.9 **CIRCOR Supplier Development Process**

6.9.1 CIRCOR Aerospace and Defense may schedule and conduct post-award surveys of suppliers on the basis of the type of articles and materials being procured, known problems or difficulties, procurement source history, fabrication, capability, and items that cannot be inspected upon receipt.

6.9.2 When required by CIRCOR, the supplier shall utilize pre-production planning using internal multi-disciplinary teams. Current approved methods include but are not limited to:

6.9.2.1 Design & Process Failure Modes & Effects Analysis (DFMEA, FEMA)

6.9.2.2 Feasibility Review

6.9.2.3 Quality Function Deployment (QFD)

6.9.2.4 Mistake Proofing or "Poke-Yoke" Devices Implanted

6.9.3 In addition, to further assure the process capability of all significant design characteristics, and to build a network of written communication between all activities involved in product and build activities, it is the supplier's responsibility to provide documentation of the care exercised in product and process development, it's monitoring, and the quality control exercised

6.10 **Control Plans**

6.10.1 Where required, suppliers that produce a component or product are required to submit control plans, FMEA's, and a flowchart / diagram of their process with their initial FAI submission. The supplier, depending upon the complexity of their product requirement, may also be asked to provide a Risk Analysis.

6.11 **First Article Inspection (FAI)**

6.11.1 For all components, or production parts, or special processes provided to CIRCOR Aerospace and Defense, the supplier shall comply with and submit a FAI, per guidance provided in AS9102, unless otherwise directed by CIRCOR Aerospace and Defense Supplier Quality.

6.11.2 All FAI paperwork and samples should be labeled as such and sent per the requirements on the specific purchase order.

6.11.3 Designated special requirements, critical items, or key characteristics, as defined by the customer to CIRCOR Aerospace and Defense, shall be defined within the purchase order or on the supplied blueprint. Characteristics with the appropriate symbols or as specified on the purchase order, must meet a Cpk value of 1.33 minimum unless otherwise specified.

6.12 **Records, Prints & Specification Change Control**

6.12.1 It is the supplier's responsibility to ensure that copies of all applicable drawings, blueprints, or specifications are available and fully understood by the personnel within the supplier's organization that is directly responsible for assuring compliance with the specified requirements. If copies are not in the supplier's possession or when clarification and/or interpretation is required, it is the supplier's responsibility to obtain the assistance or necessary information required through the CIRCOR Aerospace and Defense Purchasing Representative.

6.12.2 **Written authorization must be obtained in advance from CIRCOR Aerospace and Defense, prior to making any product, material or processing changes**. Any changes requested by the supplier must be sent in writing to the Purchasing Representative. Written response from CIRCOR Engineering must be received prior to incorporating any changes into production that affects the form, fit, function, durability, appearance, or interchange ability of any product or component furnished to CIRCOR Aerospace and Defense. Where applicable, new control plans and a FAI must be submitted.

6.13 **Incoming Material Quality**

6.13.1 The supplier is responsible for ensuring that all material obtained from outside sources for use in products supplied to CIRCOR Aerospace and Defense conform to all specified requirements. If the supplier is a distributor, that supplier is responsible for adhering to all requirements.

6.13.2 Evidence of this conformance will be maintained by the supplier and will be made available on request, to CIRCOR Aerospace and Defense.

6.14 **Certifications to Regulations**

6.14.1 Suppliers are responsible for insuring that all material and processes used in the manufacturing and sale of products to CIRCOR Aerospace and Defense are in compliance with all statutory and regulatory requirements regarding environmental laws and regulations, mechanical, electrical and electromagnetic devices. This applies in the country of manufacture and sale.

6.14.2 As defined within the Purchase Order, if the product provided is affected by regulations such as those imposed by FAA or other regulatory authorities, the supplier is required to certify compliance of the product with such standards prior to initial production shipments and as required thereafter. The written certification with supporting test data shall be directed to CIRCOR Aerospace and Defense's Supplier Quality.

6.14.3 MSDS (Material Safety Data Sheets) for raw materials and chemicals must be sent with each shipment.

6.15 **Control of Customer Supplied Product**

6.15.1 The supplier will ensure that all products supplied by CIRCOR Aerospace and Defense, or from CIRCOR Aerospace and Defense customers, will be managed in accordance with a documented procedure which ensures that the product is verified, stored, and maintained to CIRCOR Aerospace and Defense requirements. This will include receipt and verification records, product inventory records and procedures for rejecting non-conforming material. Any tools or equipment owned by CIRCOR Aerospace and Defense or by CIRCOR Aerospace and Defense customers must be permanently and clearly marked with the owners name and the part number or similar method which provides traceability to the owner. Control of customer supplied product at suppliers is subject to audit by CIRCOR Aerospace and Defense Supplier Quality.

6.16 **Controlling Manufacturing Process / Product Traceability**

6.16.1 Lot traceability of the raw material, work in-process, and finished materials used by a supplier furnishing goods and services to CIRCOR Aerospace and Defense must be identified from receipt at the supplier's facility through delivery to CIRCOR Aerospace and Defense per instructions provided in the Purchase Order. All raw materials used or purchased by the supplier in the fabrication of CIRCOR Aerospace and Defense products shall conform to the contractual specifications. Evidence of this conformance will be maintained by the supplier and made available upon request to CIRCOR Aerospace and Defense. The supplier must manage inventory to ensure stock rotation and to optimize stock turns.

6.16.2 Special processes are those processes that cannot be adequately evaluated for conformance to specifications through inspection and non-destructive testing alone. These include, but are not limited to operations such as chemical processing, heat treating, plating, etc. Regardless, the supplier must demonstrate control over these processes so that an assurance of compliance to the specifications is accomplished and the special processes shall be from Nadcap certified sources only unless approved by CIRCOR Aerospace and Defense Supplier Quality.

6.16.3 The Supplier is required to be able to document their quality system and quality performance. The Supplier must maintain adequate records of all inspections and tests performed, particularly those stated within the control plans.

6.17 **Inspection & Product Monitoring**

6.17.1 All parts and materials supplied to CIRCOR Aerospace and Defense must be subjected to inspection and testing on a frequency which will be adequate to ensure conformance to the engineering drawings, part or product specifications and standards; and further to ensure that no non-conforming product / material reaches CIRCOR Aerospace and Defense facilities.

6.17.2 The supplier must permit CIRCOR Aerospace and Defense or their customers access to the facilities where we can perform a source inspection or any other associated function that involves the assurance of contractual obligations.

6.18 **Measuring Systems Equipment**

6.18.1 The supplier must provide and maintain adequate gages and other measuring / test equipment in sufficient quantity required ensuring continued measurement and accuracy, and quality product management. Gages and other measuring equipment must be calibrated and the calibration must be traceable to the National Institute of Standards and Technology (NIST), or the appropriate International Standards Organization requirements.

6.19 **Gage Measurement Review**

6.19.1 Upon request from CIRCOR Aerospace and Defense, the supplier shall supply a Gage R&R on measuring equipment used to monitor product.

6.19.2 Gage R&R acceptability standards are:

Gage R&R Error %	Acceptability
Less that 10%	Acceptable Measurement System
10% - 30%	May be acceptable based on the importance of the application.
Over 30%	Considered not acceptable – every effort should be made to improve the measurement system.

6.20 **Statistical Process Control**

6.20.1 Many suppliers have reduced costs through the implementation of Statistical Process Control (SPC). The techniques are relatively easy to utilize and place much of the responsibility on the individual worker. The main function of SPC is to prevent poor quality from occurring by controlling the process.

6.20.2 Suppliers are required at minimum to use statistical methods for the control and continuous improvement of characteristics identified in purchase order language or via supplied drawings/blueprints. Statistical process control should be effectively implemented to deal with assignable causes. The use of statistical problem solving methods is encouraged for reduction of variation due to common causes.

6.20.3 Where flowed by Purchase Order or drawings/blueprints, suppliers may be required to evaluate process capability on a regularly scheduled basis and must resubmit a revised control plan and FAI whenever a change in the manufacturing process occurs. If it is determined that a process is not statistically capable, or a process has changed from a capable to a non-capable status, the supplier is expected to determine the cause of variation and take corrective action immediately to return the process to a controlled condition. The supplier is further expected to notify CIRCOR Aerospace and Defense immediately and have a reaction plan in place to contain the suspect product within 24 hours, and to be able to identify all suspect lots, and disposition material produced during this period.

6.21 **Product Protection, Preservation, and Labeling Requirements**

6.21.1 The supplier's system is required to provide controls that will assure CIRCOR Aerospace and Defense purchased materials are protected against damage, contamination, and corrosion during manufacturing, storage and shipment. Where applicable, the system shall also include storage control provisions for products subject to limited shelf life.

6.21.2 All materials must be properly labeled and include CIRCOR Aerospace and Defense part number and revision, quantity, gross weight and the supplier's name. Minimum of 2 labels should be used and placed on the container in adjacent box corners.

6.21.3 Additionally, packing slips and invoices are required to contain CIRCOR Aerospace and Defense part number and revision as well as the respective CIRCOR Aerospace and Defense purchase order number.

6.22 **Defects or Non-Conforming Materials**

6.22.1 In the event defective material / parts are received at a CIRCOR Aerospace and Defense facility, the supplier shall be contacted by the CIRCOR Aerospace and Defense Quality Department or Purchasing. Based on the severity and type of defect, the product may be returned, and/or a Request for Corrective Action will be issued.

6.22.2 At point of rejection, CIRCOR Aerospace and Defense Supplier Quality may require the supplier to:

6.22.2.1 Send someone from the supplier's facility to immediately sort the parts/material and ensure non-conforming product/material has been removed.

6.22.2.2 Send immediate replacement product / parts (if the product received was expected to be used for production immediately, the supplier may have to arrange to air ship new product to the facility) and have CIRCOR Aerospace and Defense, return the entire shipment, at the supplier's expense, issuing our receiving facility an RMA number.

6.22.2.3 Authorize CIRCOR Aerospace and Defense to sort product / parts, at supplier's expense, to assure continued production needs and arrange for credit and/or replacement parts.

6.22.2.4 Or any combination of the above if deemed appropriate by the CIRCOR Aerospace and Defense receiving facility.

6.22.3 Additionally, within 24 hours of that notification, the supplier is responsible to isolate and contain any product with a similar batch / lot number, and CIRCOR Aerospace and Defense Supplier Quality indicating the containment plan in detail.

6.22.4 Whatever the situation, communication and feedback to the CIRCOR Aerospace and Defense facility is vital.

6.22.5 If the material is to be returned to the supplier, the cost of transportation will be the supplier's responsibility. If the material must be sorted or reworked at the CIRCOR Aerospace and Defense facility, the cost of this work will be debited to the supplier. In almost all cases, CIRCOR Aerospace and Defense will contact the supplier before sorting/rework commences.

6.22.6 Individual parts which are discovered to be defective during processing at CIRCOR Aerospace and Defense will be subject to return to the supplier for credit and / or scrapped at the individual plant with permission from the supplier.

6.23 **Segregation or Quarantine Control**

6.23.1 The supplier shall have an effective system for containment and quarantine, or segregation, of any and all non-conforming or "suspect" materials, and shall display that on their control plans. The system shall positively identify and divert form normal production channels, any material not conforming to specifications and the method of prevention form being used in production or shipment to a customer.

6.24 **Corrective and Preventive Action**

6.24.1 The supplier shall initiate corrective action for any and all non-conforming product or material.

6.25 **Delivery Performance**

6.25.1 The supplier should make every effort to deliver product / material at a "100% On-Time" delivery mode. **A shipment is considered on-time if received at CIRCOR Aerospace and Defense within 10 days early for the required receipt date and no more than one day late.**

6.26 **Annual Layout Inspection**

6.26.1 CIRCOR Aerospace and Defense customers may require an annual layout inspection, and thus the supplier is responsible for maintaining an up-to-date file of the applicable drawing and its inherent specifications. If the blueprint is the supplier's own design, it is the supplier's responsibility to ensure an updated revision level is submitted to the receiving facility and to the CIRCOR Aerospace and Defense Buyer.

6.27 **Other Supplier Requirements**

6.27.1 The supplier shall make available at their facility, trained and knowledgeable personnel for all defined areas of responsibility that affect product quality.

7.0 CIRCOR Aerospace and Defense – Supplier Performance System

7.1 Supplier Performance

7.1.1 The extent of control on suppliers is dependent on the type and impact of their Product on the quality of CIRCOR Aerospace and Defense's final product

7.1.2 An approved supplier list is maintained by Purchasing of all suppliers.

7.1.3 Supplier performance will be monitored and documented.

7.1.4 At least quarterly a CIRCOR Aerospace and Defense management team will review the ratings to identify poor performing suppliers. Suppliers with performance issues are expected to work with CIRCOR Aerospace and Defense Supplier Quality and develop an action plan to resolve their issues. Supplier Quality will review effectiveness of the action plan and determine if any additional steps are necessary.

7.1.5 All suppliers will be required to submit an updated copy of their AS9100, ISO9000, NVLAP, and / or NADCAP certification within 90 days of the expiration date to the CIRCOR Aerospace and Defense Purchasing Manager

8.0 References

8.1 Supplier Survey PB:110

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-	All	Revised to Corona Quality System Requirements and Format	2/24/2014	CR	DM