



<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			1 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

# Supplemental Purchase Order Conditions

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## Table of Contents

Paragraph - Title	Page
1 Purpose and Scope.....	2
2 Definitions .....	<b>Error! Bookmark not defined.</b>
3 Referenced Documents and Retrieval Location.....	2
4 Responsibilities .....	<b>Error! Bookmark not defined.</b>
5 Authority .....	2
6 Requirements (or Procedure, or Instruction, or Policy).....	2
7 General SPOC Requirements .....	2
7.1 Group Requirements.....	8
8 Document Issue Record .....	109

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			2 of 112
Owner/Author: Kyle Weber Accountable: VP of Quality Assurance		Effective Date: 13-May-2024 Original Date: 10-Feb-2016	

## 1 Purpose and Scope

- **Purpose** – The purpose of this document is to inform Suppliers, Service Providers and Contractors what documentation is required in addition to Specific Purchase Order Requirements for businesses:  
***Mission Systems Davenport Inc.***
- **Scope** – This document is applicable to all Suppliers, Service Providers and Contractors directly involved in product realization.

## 2 Referenced Documents and Retrieval Location

All referenced documents are located in the Eaton Business Operating System, or you may contact your Eaton Procurement Agent.

## 3 Authority

The authority for this requirements document is: The Procurement Organization (Supplier Development) and Quality Organization at Mission Systems Davenport Inc.

## 4 Requirements (or Procedure, or Instruction, or Policy)

Supplemental requirements contained and defined within this procedure.

## 5 General SPOC Requirements

### Table of Contents

#### **SPOC 50 General Requirements (Applies to All Suppliers)**

- 50.1 Applicability
- 50.2 Subcontracting Requirements
- 50.3 Quality Requirements, Flow Down, and Communication
  - 50.3.1 Flow Downs
  - 50.3.2 Supplier Communication
- 50.4 Eaton Part Number Naming - Spares
- 50.5 Right of Entry
- 50.6 Changes Affecting Goods and Services
  - 50.6.1 Changes to Materials, Components or Source of Supply
  - 50.6.2 Changes to Name, Cage Code, Location, and Ownership or Control
  - 50.6.3 Major Changes
- 50.7 Notice of Escapement
- 50.8 Configuration Management
- 50.9 Notification of Design and Manufacturing Changes
- 50.10 Source of Supply
  - 50.10.1 Specified Source Documentation Requirements (not FAI)
  - 50.10.2 Specified Source Documentation Requirements (FAI)
  - 50.10.3 Material, Component, or Supplier Specified on the PO
  - 50.10.4 Approved Supplier List (ASL)
- 50.11 Quality Records
  - 50.11.1 Access to Records
  - 50.11.2 Records Storage
  - 50.11.3 Disposition of Records
  - 50.11.4 Corrections

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			3 of 112
Owner/Author: Kyle Weber Accountable: VP of Quality Assurance		Effective Date: 13-May-2024 Original Date: 10-Feb-2016	

50.11.5 General Component / Assembly Traceability  
50.11.6 Traceability Variance  
50.12 Prohibited Practices  
50.13 General Quality System Requirements & Quality Audits  
50.13.1 Evaluation of sub-Suppliers  
50.14 Obsolescence  
50.15 Eaton-Consigned Material  
50.16 Nonconforming Consigned Material  
50.17 Business Continuity Management  
50.18 Crisis Management  
50.18.1 Lower-Tier Supplier Crisis Management  
50.18.2 Disaster Recovery  
50.19 Material substitutions  
50.20 Purchased Raw Material Periodic Compliance Verification  
50.21 Specification Availability  
50.22 Packaging  
50.23 Packaging and handling of Electrostatic Discharge Sensitive Parts  
50.24 Packaging of Moisture Sensitive Parts  
50.25 Restrictions for use of Mercury and or Mercury Containing Components  
50.26 Prohibited and Conflict Materials  
50.26.1 Conflict Materials  
50.27 Critical Safety Items  
50.28 Auditing of Critical Safety Item Controls.  
50.28.1 Critical Safety Requirements  
50.29 Airworthiness / Safety Critical  
50.30 FAA production approval (8130-3; -9)  
50.31 Return of Scrap Materials or Parts  
50.32 Cosmetic Part – Visual Inspection Requirement  
50.33 NADCAP Special Processes, Accreditation - Certified Processes and Personnel  
50.34 Shipments Made to Pak Source  
50.35 Suppliers of Explosives & Ammo  
50.36 Parts Requiring Oxygen Cleaning (Specified on Drawing)  
50.37 Calibration System  
50.38 Submitting Documentation- Supplier Certification Channel  
50.38.1 Submitting First Article Inspection (FAI) Documentation  
50.39 Performance Monitor and Control - Supplier Score Cards  
50.39.1 Quality  
50.39.2 On-Time Delivery  
50.39.4 Composite Score  
50.39.5 Data Integrity and Appeal Process  
50.39.6 Score Card Example  
50.39.7 Supplier Performance Incentive (Payment Terms) - Obsolete  
50.39.8 Supplier Source Inspection Requirements (Quality)  
50.40 Fixed Process Requirements  
50.41 Quality Requirements - Buyer Partners with FAA Approved Production Certificates  
50.42 Control of Government / Customer or Eaton Owned Property at Suppliers  
50.42.1 Control of Government / Customer or Eaton Owned Property  
50.42.2 Records  
50.43 Physical Inventory  
50.44 Maintenance  
50.45 Shipment to Eaton

50.46 Characteristic Accountability  
50.47 Quality Sampling of key Characteristics  
50.48 Direct Shipments  
50.49 Direct Shipment Authorization  
50.50 Part Marking Requirements  
50.51 Certification to Federal Aviation Regulation - 14 C.F.R. 25.853  
50.52 Environment, Health and Safety  
50.53 Registration, Evaluation Authorization and Restriction of Chemicals (REACH)  
50.54 Lot Control Information  
50.55 Specific Customer Flow Down and Information  
50.56 Source Inspection Sampling Requirements  
50.57 Prohibited substances in supplier materials and parts  
50.58 GIDEP – Government Industry Data Exchange Program  
50.59 Counterfeit Electronic Parts Prevention  
50.60 Subcontracting with a Foreign Seller  
50.61 Regulatory Approvals  
50.62 Aerospace Quality Management System (AQMS) Certification  
50.63 Subcontracting  
50.64 Commercial Invoice Requirements for Import into the United States  
50.65 Inspection  
50.66 Quality Assurance Inspection  
50.67 Maintenance, Repair, Overhaul, FAA Regulated, Non-FAA Certified Requirements - Deliverable.  
50.68 Digital Product Definition (DPD)/Model Based Definition (MBD)  
50.69 Manufacturing Plan  
50.70 Performance

## **SPOC Groups – SPOC 001 through SPOC 021 Details**

SPOC Group Requirements

UNSPSC Code Numbers for business system

## **Supplemental Purchase Order Condition (SPOC) Technical Details**

### **SPOC 100 – Certification of Conformance / Shipping Declaration Document / Packing Slip**

- 100.1 Certification Requirements
- 100.2 Certification Requirements for OSP Parts
- 100.3 Buy Back of parts

### **SPOC 110– Notification, Containment, and Corrective Action of Material Found**

- 110.1 Material Review Authority: Material Review Board (MRB)
- 110.2 Request for Material Review Action / Deviation Waiver
- 110.3 Material Discovered Nonconforming after Shipment
- 110.4 Containment of Nonconforming Material
- 110.5 Corrective Action
- 110.6 Request for Reversals
- 110.7 Return Purchase Orders for Replacement, Reworked or Repaired Parts
- 110.8 Failure Reporting

### **SPOC 120 Eye Examinations**

### **SPOC 130 Commercial off the Shelf Parts and Products (COTS)**

- 130.1 Parts and Products Requiring a Mil Standard

### **SPOC 140 Key Characteristics Management**

- 140.1 Drawing key Characteristic Notes
- 140.2 Examples of Measurable Key Characteristic

140.3 Supplier Data Collection

**SPOC 150 First Article Inspection (FAI) Requirements**

150.1 First Article Requirements

150.2 Periodic/Repeat FAIs

150.3 Additional FAI Requirements

150.4 Approvals

150.5 Documentation and Records

150.6 First Article Forms and Instructions

**SPOC 160 Castings Tooling Control**

**SPOC 170 Certification Documentation Exception**

**SPOC 180 Shipping Containers**

**SPOC 190 – Acceptance Test Procedure (ATP) Approval Requirements**

190.1 Typical Test Process Attributes and Test Data Sheet Requirements

190.2 Data Submittal for Supplier Developed Test Procedure

190.3 Change Control

**SPOC 200 – Software Quality Assurance: Quality Management Systems – Requirements for Aviation, Space and Defense organizations – Deliverable Software**

**SPOC 210 – Control of Items with Limited Shelf-Life**

210.1 Control of Items with Limited Shelf-Life Definitions

210.2 System for Shelf Life and Storage Life Control

210.3 Cure Date Identification for Storage Life Controlled Elastomers

210.4 Certification Requirements

210.5 Shelf Life of Uncured Compounds Shipped to Eaton

210.6 Shelf Life of Cured Elastomers Shipped to Eaton

210.7 Bearing Lubrication

210.8 Shelf Life of Compounds Applied to Products

210.9 Limited Calendar life Material on Assembly

**SPOC 220 – Repair and Overhaul Maintenance Requirements**

220.1 Drug and Alcohol Testing Program

220.2 Use of DER Repairs or Installation of PMA Parts in Eaton Designed Parts

220.3 Inspection Requirements

220.4 Shipping Certification Requirements

**SPOC 230 Electronics & Wiring Commodities**

**SPOC 240 Approved Sources for Controlled Processes (NADCAP)**

240.1 Nadcap Reporting

**SPOC 250 – Government and Customer Directed Source Inspection**

250.1 U.S. Government Notification Requirements

250.2 Eaton Customer Notification Requirements

250.3 Evidence of Source Acceptance

**SPOC 260 Design and Control of Special Tools and Gages**

**SPOC 270 Free, Libre and Open-Source Software (FLOSS)**

**SPOC 290 – Packaging and Package Identification**

290.1 Product Delivery

290.2 Weight Limitations

290.3 Prohibited Packaging

290.4 Inappropriate Closures

290.5 Fluid-Soaked Packages

290.6 Hazardous Materials and Dangerous Goods

290.7 Shipping Documents / Packing Slip

290.8 Airworthiness Certification, Labeling and Consolidation Box Marking

290.9 Country of Origin and Marking (includes U.S.A.)

290.10 Electro-Static Discharge (ESD) Labeling and Packaging

**SPOC 300 Freight to be paid by Eaton**

**SPOC 310 Eaton Source Inspections: Verification of Hardware**

**SPOC 320 Eaton Printed Wiring Boards (PWB)**

**SPOC 330 Electronics Solder Requirements**

**SPOC 340 Electronics Marking Requirements**

**SPOC 350 Electro-Static Discharge Requirements**

**SPOC 360 Military Customer First Article Inspection**

**SPOC 370 Foreign Object Damage (FOD) Control**

**SPOC 380 Counterfeit Parts Prevention**

380.1 Applicable Documents

380.2 Definitions

380.3 Requirements

380.4 A Certificate of Conformance will be provided for the following:

380.5 OCM OEM

380.6 Authorized Distributor

380.7 Purchase of Electronic Parts and Electronic Assemblies

380.8 Test laboratories

380.9 Reporting Requirements

380.10 Reporting Form

**SPOC 390 Failure Mode and Effects Analysis (FMEA) and Reporting Process**

390.1 Types of FMEA's

390.2 FMEA Usage

390.3 Reporting Information

**SPOC 400 Single Lot Requirements**

**SPOC 410 Single Raw Material Lot**

**SPOC 420 Manufacturing Plan Required**

**SPOC 430 – Manufacturing Readiness Review (MRR)**

430.1 MRR Objective

430.2 MRR Team

430.4 MRR Presentation

430.5 MRR Data Package

**SPOC 440 Standard Repairs of Printed Board Assemblies (PBA)**

**SPOC 450 Insulation, Isolation, Dielectric Testing**

**SPOC 460 Integrated Circuit (ICT) and Flying Probe (FP) Requirements**

**SPOC 470 Supplier Required Source Identification**

**SPOC 480 Plastic Parts Mold Identification**

**SPOC 490 Chemicals and Gases**

490.1 Certification Requirements for Gas Cylinder

490.2 Regulations & Procedures for Shipping Hazardous Materials

**SPOC 500 Supplier Deviation Request: Form SCSP741.02.01 - Shipping Nonconforming or Incomplete Parts and Assemblies from Supplier to Eaton**

**SPOC 510 Durometer Requirements**

510.1 Method of measurement

510.2 Supplier Reporting Requirements

**SPOC 520 Notice of Change Process**

**SPOC 600 Airbus Common Specific Requirements**

600.1 GRESS E-0009 and GRESS AP1013

**SPOC 625 Boeing Common Specific Requirements**

625.1 Boeing Approved Source for parts and processes.



<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			7 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
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625.2 AS9102 First Article Inspection Report, for Boeing Aerospace Company (BAC)

Standard Hardware parts only. Special Clause

625.3 X31764 Quality Purchasing Data Requirements (BCA)

625.4 Boeing Common Quality Requirements

**SPOC 650 Lockheed Common Specific Requirements**

**SPOC 9999 Delegation Supplier Quality Representative (DSQR Certified)**

## 5.1 Group Requirements

In all cases, contents of SPOC Manual SPOC 50 (General Requirements) will be reviewed and complied with in conjunction with the purchase order flow down of specific Group SPOCs, and individual SPOCs noted on PO. All PO's procuring parts will have a minimum of one group SPOC as (001 – 021). To use the Table 1 find the SPOC Group Number or numbers that matches the parts or products you are providing to Eaton. Then the corresponding individual SPOC numbers will be listed on the right. SPOC definitions are available below the table starting with SPOC 100 and ending with SPOC 9999.

### SPOC Group Requirements Table 1

SPOC Group Number: <b>UNSPSC # {/WC}</b>	Individual SPOC's Invoked by SPOC Group
<b>SPOC 001 Raw Metal Material:</b> Bar Stock, Plate Stock, Powder Metals, Metal Alloys, Aluminum Bar or Block or Sheet, Aluminum Extrusion, Solder Rings, Solder <i>UNSPSC: {11170000/WC - Alloys}</i> <i>UNSPSC: {23271800/WC-Welding and Solder Suppliers}</i>	50 (all), 100, 110, 290, 370, 500, 520
<b>SPOC 002 Machined Metal; Includes Required Special Processing (single part – if multiple parts then use SPOC 004):</b> Housings, Beds, Mounting Plates, Skid Plates, Pipes, Spacers, Tubes, Covers <i>UNSPSC: {31230000/WC – Machined Raw stock}</i> <i>UNSPSC: {31120000/WC - Machined Extrusions}</i>	50 (all), 100, 110, 150, 140, 210, 240, 290, 370, 500, 520
<b>SPOC 003 Metal Casting; Includes Required Special Processing:</b> Investment Casting, Forgings, Cast Assemblies, Cast with post Machine Operations, High Pressure Die Castings <i>UNSPSC: {31100000/WC – Castings}</i> <i>UNSPSC: {31130000/WC – Forgings}</i>	50 (all), 100, 110, 140, 150, 160, 210, 240, 290, 370, 480, 500, 520
<b>SPOC 004 All Metallic and Non-Metallic Assemblies and Sub-Assemblies; Includes Required Special Processing:</b> Welded or Brazed Tube Assemblies, Fabricated Tube Assemblies, Welded or Brazed Sheet Assemblies, Fabricated Plate Assemblies, Spin Formed Components, Stamped Components, Bonded Sheet Assemblies. Pumps, Valves, Pressure Valves, Motors, AC Motors, Fans and Blowers, DC Chargers, Generators, Kinetic Power Transmissions, Aircraft Accumulators, Aircraft Fuel Tanks and Systems, Fluid and Gas Regulators. Hydraulic Hose and Tube Fittings, Non-Electric Motors, Riveted Plates, Strap or Harness Assemblies (Seat Belts or Cable Assemblies –i.e., Tri Ball), Bulkheads, Separator Membranes, <i>UNSPSC: {27120000 /WC – HYD. Hose &amp; Tube Fittings}</i> <i>UNSPSC: {31360000 /WC – Riveted Plates}</i>	50 (all), 100, 110, 140, 150, 170, 190, 210, 230, 240, 290, 330, 370, 380, 470, 500, 510, 520



<p>UNSPSC: {73180000/WC- General Assemblies, Includes All Process Services}  UNSPSC: {40150000 /WC – Pumps and compressors}  UNSPSC: {26100000 /WC – AC and DC Motors, Valves}  UNSPSC: {26110000 /WC – Generators/Kinetic}  UNSPSC: {40180000/WC-Tubing and Tube assemblies}  UNSPSC: {31300000/WC-Machined Forgings Assemblies}  UNSPSC: {31340000/WC - Fabricated Sheet Assemblies}  UNSPSC: {31320000/WC- Fabricated Bar Stock Assemblies}  UNSPSC: {31280000/WC - Spin formed components}  UNSPSC: {31350000/WC-Fabricated Tube Assemblies}</p>	
<p><b>SPOC 005 Metal, Plastic, and Wood Components that are Off The Shelf:</b>  Bearings, Springs, Couplings, Standard/Retaining/ Miscellaneous Hardware (Commercial and Military), Mounting Hardware, Spin Formed Components, Pipe &amp; Pipe Fittings, Tubes &amp; Tube Fittings, Air Fittings and Connectors, TEEs (Plastic or metal) Noise Control Housings or Enclosures, Cylinder Bottles, Flask, Plenum, Compress Air Tank, Cable Ties, Pallets.  UNSPSC: {31170000/WC - Bearings}  UNSPSC: {31160000/WC – Springs, Couplings, Standard /Retaining/Miscellaneous Hardware, Mounting Hardware, COTS Parts, Pallets}  UNSPSC: {40170000/WC - Pipe &amp; Pipe Fittings}  UNSPSC: {27130000/WC - Air Fittings and Connectors}  UNSPSC: {31260000/WC - Noise Control Housings or Enclosures}</p>	<p>50 (all), 100, 110, 130, 150, 290, 370, 500, 520, SPOC 625 (Boeing COTs Part Numbers).  Not all SPOC 005 are COTs – Parts that are special design released on an Eaton drawing are typically not COTs.</p>
<p><b>SPOC 006 Raw Plastic Material and Plastic Parts (single part – if multiple parts then use SPOC 004):</b>  Thermoset Plastics, Injection Moldings, Profile Extrusions, Resins, Rosin, Formed Components, Bar Stock, Plate Stock, Molding Assemblies, Protective Caps and Dust covers, tubes, cable ties, polyethylene, nylon, Pre-Preg, Machined Plastic Part, Fiberglass, Teflon.  UNSPSC: {31140000/WC – Injection Moldings}  UNSPSC: {31110000/WC – Profile Extrusions}  UNSPSC: {12190000/WC – Resins &amp; Rosins}  UNSPSC: {31270000/WC – Formed Components}</p>	<p>50 (all), 100, 110, 130, 150, 160, 210, 290, 370, 480, 500, 520</p>
<p><b>SPOC 007 Elastomeric:</b>  O-Rings, Preformed Packing, Separators, Foams, Hoses, Diaphragm Seals, Film, Belts, Bladder Assemblies, Neoprene, Delrin, Bumpers, Breathing Hoses, Rubber Sheets, Foam and Rubber Pads, Gaskets, Heat Shrink.  UNSPSC: {13100000 /WC – O-rings, Grommets (rubber and elastomers parts or material); Belts, Bladders}  UNSPSC: {40160000/WC – Filtering and purification, separators}  UNSPSC: {40140000 /WC – Fluid and Gas distribution}  UNSPSC: {13110000 /WC – Foams, films, Packing}  UNSPSC: {40142000 /WC - Hoses}  UNSPSC: {31410000 /WC – Diaphragm Seals, Seals}  UNSPSC: {31400000/WC-Gaskets}</p>	<p>50 (all), 100, 110, 130, 150, 210, 290, 370, 500, 510, 520</p>
<p><b>SPOC 008: Metallic and Non-Metallic Identification Tags</b>  Nameplates, Decals, Plates, Information Plates, Port ID  UNSPSC: {55120000/WC-Signage, Labels, Decals, and accessories}</p>	<p>50 (all), 100, 110, 130, 150, 210, 370</p>

UNSPSC: {55000000/WC-Publishing Products}	
<b>SPOC 009: Shipping Products</b> Shipping Assemblies, Packing Tubes, Cases, Shipping Crates, Pallets, and Envelopes UNSPSC: {24110000/WC- Shipping Containers} For SPOC 180 use UNSPSC: {39121300/WC}	50 (all), 100.1, 110, 180, 220.4, 290.2, 370 No First Article is required
<b>SPOC 010 Electrical, Electronic Components, Printed Wire Boards, &amp; Rigid Printed Boards:</b> Resistors, Diodes, Capacitors, Wire, Mechanical Wire, Transducers, Micro Assemblies, Radio Frequency Components, Controls, Relays, Plugs, Lugs, Connectors, Vibrators, Voltage Regulators, Electrical Terminals, Passive and Discrete, Semi-Conductors, Spark Plugs, Fixed Network Equipment and Components, Solenoid, Fuses, Bulbs. UNSPSC: {32170000 /WC – Resistors, Capacitors, Inductors, Ferrite Bead, signal filters, Choke, Magnet, Solenoid}, Electrical Terminal UNSPSC: {32110000 /WC – Diodes, fuses, circuit breakers, Coils – Discrete Active Components, Amplifiers, Crystal, Devices, Switches, All other parts not listed in other UNSPSC codes} UNSPSC: {31150000 /WC – Mechanical Wire} UNSPSC: {32100000 /WC – Micro Assy's & Radio Frequency Components, Printed Circuit Boards, Integrated Circuit Boards, Flex Circuit Boards, Panel} UNSPSC: {39120000 /WC – Controls, Relays, Lugs, Plugs & Connectors, Sockets, Transducers, Indicators, transformers, Power Conditioning Equipment, lights, LEDs, sensors} UNSPSC: {43220000 /WC – Fixed Network.}	50 (all), 100, 110, 130, 140, 230, 290, 320, 340, 350, 370, 380, 440, 450, 460, 500, 520
<b>SPOC 011 Soft Goods:</b> Nonwoven Fabrics, Specialty Fabric or Cloth, and Mesh Screens, Wire or Cloth Mesh, Silicone fiberglass, Velcro, felted Nomex, Polly Net Mesh, insulation sleeving, Tape, Leather, Polyester and Nylon Webbing, Thread, Nylon Thread, Kevlar Thread. UNSPSC: {11160000/WC-Fabrics and materials}	50 (all), 100, 110, 130, 150, 210, 290, 370, 500, 520
<b>SPOC 012 Electrical Assemblies &amp; Deliverable Software/Firmware:</b> Computer Equipment, Software, Firmware, Flight Instrumentation, Control Indicators and Signal Devices, Media Storage, Power Conditioning Equipment, Printed Circuit Assemblies, Printed Wiring Board (bare board), Flex Rigid Printed Boards, Electric Cable/Accessories, Wiring Harness. UNSPSC: {43210000/WC – Computer Equipment, other Equipment} UNSPSC: {43230000/WC – Software} UNSPSC: {25200000/WC – Flight Instrumentation} UNSPSC: {32150000/WC – Control indicating and signaling devices} UNSPSC: {43200000/WC – Media Storage Devices} UNSPSC: {26120000 /WC – Wire electric cable, Wiring Harness, PCA's, Heaters, Power Supplies}	50 (all), 100, 110, 130, 140, 150, 190, 200, 230, 290, 320, 330, 340, 350, 370, 380, 440, 450, 460, 500, 510 520
<b>SPOC 013 Calibrated Test Equipment &amp; Tooling:</b> Temperature & Heat Measuring, Electrical Measuring & Test, Liquid and Gas Flow Measuring and Observing Instruments, Gas Cylinder Filling Equipment, Pressure Measuring and Control Instruments,	50 (all), 100, 110, 140, 190, 260, 290, 370, 500

Nondestructive Examination Equipment, Precision Measuring Equipment, Test Fixtures, Manufacturing Fixtures. <i>UNSPSC: {41110000 /WC-Laboratory, scientific equipment, and fixtures}</i>	
<b>SPOC 014 Chemicals (including COTs):</b> Adhesives & Sealants, Grease, Lubricants, Oils, Anti Corrosives, Compounds, Mixtures, Cleaning and Disinfecting Solutions, Paint, Coatings, Bio Chemicals, Gas Materials, Metal Finishing, Epoxy, Resin, Batteries, Tapes, Polish, Tuftane, Glass Powder. <i>UNSPSC: {31200000 /WC – Adhesives and Sealants}</i> <i>UNSPSC: {15120000 /WC – Grease, Lubricants, Oils, Anti Corrosives}</i> <i>UNSPSC: {12350000 /WC – Compounds &amp; Mixtures}</i> <i>UNSPSC: {47130000 /WC – Cleaning and Disinfecting Solutions}</i> <i>UNSPSC: {31210000 /WC – Paints and Primers}</i> <i>UNSPSC: {12000000 /WC – Bio Chemicals &amp; Gas Materials}</i> <i>UNSPSC: {73120000 /WC – Metal Finishing}</i> <i>UNSPSC: {26110000 /WC – Batteries}</i>	50 (all), 100, 110, 130, 210, 290, 370, 490, 500, 520  COTs Items do not require a C of C or chemical breakdown documentation unless specifically called out by the Eaton Drawing. Expiration dates <u>when applicable to the product</u> are required.
<b>SPOC 015: Overhaul &amp; Repair:</b> Includes all return to service product replacement parts and assemblies, parts kits. <i>UNSPSC: {73152100 / WC-Manufacturing Equipment and Repair Services}</i> <i>UNSPSC: {85160000 /WC – Medical Equipment Maintenance Refurbish and Repair}</i>	50 (all), 100, 110, 130, 140, 150, 170, 190, 200, 210, 230, 240, 290, 320, 330, 340, 350, 370, 380, 440, 450, 460, 470, 500, 510 520
<b>SPOC 016 Service Providers and Testing:</b> Repair, Overhaul, Warranty, Rework, Technical Reports (Certification Reports, Test Reports (EMI, Functional, In Circuit, Product Performance Analysis (Quall Testing, Engineering Development / Prototype, DOE). Creation of technical manuals. Creation of Manuals, Instructions, CDs, DVDs, etc. containing technical data. <i>INSPSC: {40000000/WC- Laboratory and Measuring and Observing and Testing Equipment, Reports}</i> <i>UNSPSC: {41100000/WC-Laboratory and Scientific equipment}</i> <i>UNSPSC: {82110000/WC-Writing and Translations}</i>	50 (all), 110, 140, 190, 210, 220, 260, 290, 370, 380, 440, 450, 500
<b>SPOC 017 Tooling Supplies:</b> Hand Tools, Metal Cutting Tools, Abrasives and Abrasive Media, Dolly, Transports, Drills, End Mills, Sponges, Tips, Repair Parts for Tools <i>UNSPSC: {27110000/WC – Hand Tools}</i> <i>UNSPSC: {23240000/WC – Metal Cutting Tools}</i> <i>UNSPSC: {31190000/WC – Abrasives and Abrasive Media}</i>	50 (all), 290, 370, 500
<b>SPOC 018 Safety:</b> Personal Safety and Protection, Rubber Gloves, eye protection (safety glasses), Respiratory Protection, Disposable Clothing, Special Environmental Fixtures and Accessories. <i>UNSPSC: {46180000/WC – Personal Safety and Protection}</i> <i>UNSPSC: {46182000/WC – Respiratory Protection}</i>	50 (all), 100, 110, 130, 290, 370, 500
<b>SPOC 019 Specialty Products:</b> Ceramic Fiber Products, Ceramic Caps and Pads, Filters/Signal Filters, Tube Polymer, Glass Material and Glass Parts, Sleeving, Fiber Board, Catalyst Materials, Insulation Blankets. <i>UNSPSC: {31370000 /WC – Ceramic Fiber Products}</i>	50 (all), 100, 110, 140, 150, 290, 370, 500, 520
<b>SPOC 020 Explosives:</b>	50 (all), 50.34, 100, 110, 150, 290, 370, 500, 520

UNSPSC: {12130000/WC – explosive Materials}

**SPOC 021 Vendor Owned Prints and Vendor Part Numbers:**

50 (all), 100, 110, 210, 290, 380, 500

## SPOC 50 General Requirements (Applies to All Suppliers)

The Supplemental Purchase Order Conditions (SPOC) Manual QSP-7.4.2.2.1 contains quality and related process requirements that are applicable when identified on the face of Buyer's PO's.

The electronic version of the Manual can be acquired at WEBSITE: [Aerospace \(eaton.com\)](http://Aerospace.eaton.com) Suppliers may contact Buyer's Authorized Representative to obtain the SPOC Manual or can visit the WEBSITE.

The SPOC Manual is effective starting August 5, 2015. The QRs stated on all Buyer POs released to Suppliers prior to August 5, 2015, remain valid until performance of the PO is complete.

Buyer's Quality Organization is responsible for the content, updates, and configuration control of the SPOC Manual within Buyer's Quality Management System (QMS). The Manual is divided into three sections:

- 1) SPOC 50 General Requirements
- 2) SPOCs 1 through 21 Group SPOCs
- 3) SPOCs 100 through 999 Provides Technical Details.

All Suppliers doing business with Buyer are required to conform to the applicable SPOCs.

The SPOC Manual and the SPOCs stated on a PO form part of the contract between Buyer and the Supplier in accordance with the PO Terms and Conditions (referred to as the Agreement). Capitalized terms under this in the SPOC Manual have the meanings ascribed to them in the Agreement.

### 50.1 Applicability

Applicable SPOCs are specified on the face of the PO by group as identified in SPOCs 1 through 21 and/or by specific SPOC number(s) and/or text. Conflicts among the documents constituting the Agreement are resolved with reference to the Agreement.

### 50.2 Subcontracting Requirements

Flow downs by a Supplier to its lower-tier suppliers must include all applicable requirements of the PO, including without limitation engineering requirements, SPOCs, special processes, controlled sources, and other applicable requirements called out on the PO or identified in engineering drawings or other technical data. For Goods and Services being delivered under US Government contracts, flow downs include the applicable FAR, DFARS and other US Government agency clauses included in the Agreement.

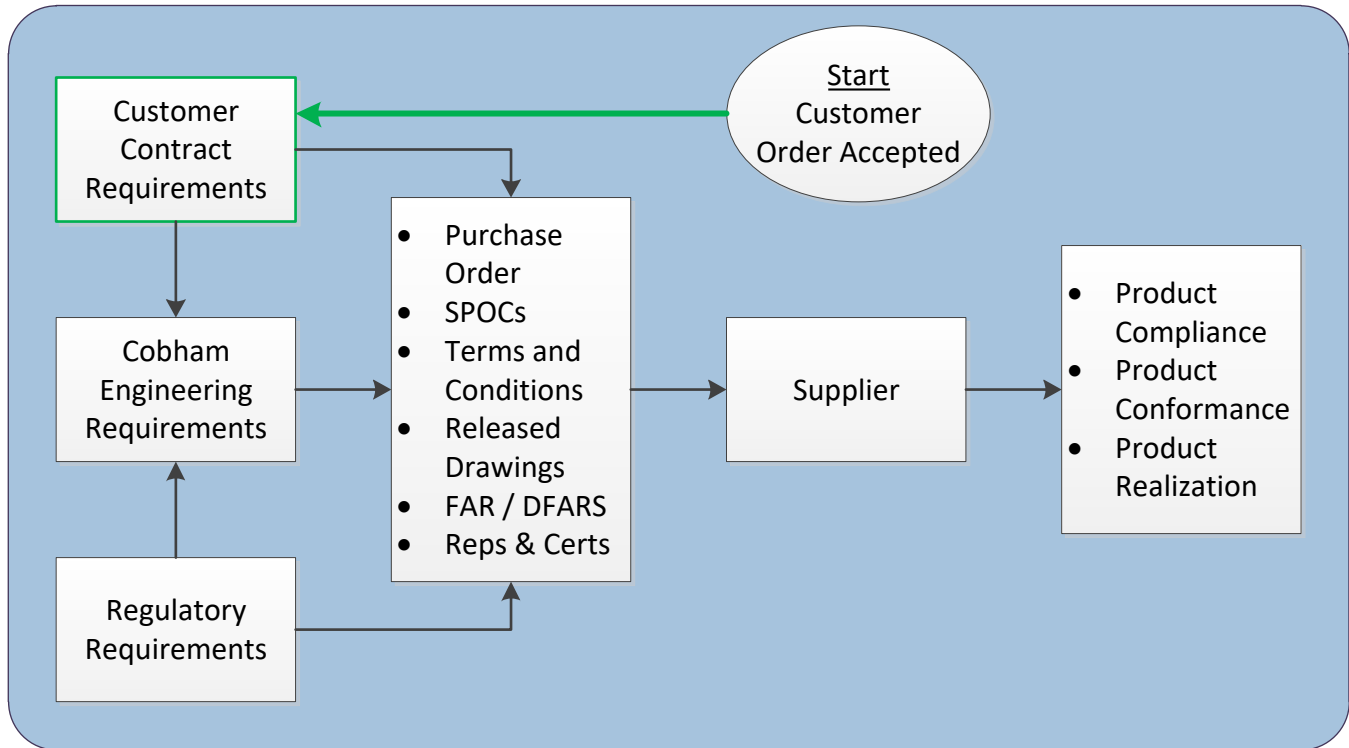
### 50.3 Quality Requirements, Flow Down, and Communication

The core requirement for quality is for the Supplier to comply with 100% of Buyer's requirements for Goods shipped and Services performed. If Supplier's quality and delivery systems are not capable of meeting 100% of the PO requirements, Buyer expects Supplier to pursue measurable continuous improvement activities to its quality and delivery systems to ensure that Supplier meets 100% of the PO requirements.

#### 50.3.1 Flow Downs

The Supplier shall flow down to external providers applicable requirements including customer requirements.

The following chart demonstrates the flow down of customer requirements to the Supplier and to the Supplier's lower-tier suppliers.



### 50.3.2 Supplier Communication

Per the Agreement, Buyer's Authorized Representative is the only individual with authority to bind Buyer contractually, whether as to terms and conditions, technical requirements, quality requirements or any other requirements.

The objective of collaborative communication between the Supplier and Buyer is to meet our common customer's expectations effectively. Technical or other communications between Buyer's and the Supplier's functional organizations, such as the engineering and quality groups, are allowed to resolve issues and to provide clarification of the PO requirements. Examples of technical communications include working on a non-conformance/corrective action, drawing and specification clarifications, design for manufacturability, or error proofing strategies or processes. If discussions potentially change the technical or other requirements of a PO, then the Supplier must contact Buyer's Authorized Representative before proceeding with any change in accordance with the Agreement.

Handwritten, lined-out or initialed changes to purchase orders are not permitted. Handwritten, lined-out or initialed changes to engineering drawings/specification or technical data are not permitted except where: A) Provided for by Eaton site procedure, **and** B) Signed by Eaton Engineering. All Suppliers are required to comply with the Terms and Conditions and SPOC Manual requirements.



## Verbal and/or email authorizations are **NOT** permitted.

### 50.4 Eaton Part Number Naming - Spares

Part or assembly numbers appearing on a purchase order with the prefix “**SPAR-**” are the same as part numbers without the prefix. All assigned SPOCs and other flow downs associated with the part number following Spares- are exactly the same. The supplier is expected to execute the requirements presented in the flow downs. Example: Part Number STD13102-200 is a resistor and assigned SPOC 010. SPAR-STD13102 is the exact part number; a resistor with a SPOC 010 assignment. In this example, the supplier will provide STD13102. The SPAR- prefix is used to route the parts to support other point of use destinations other than production.

### 50.5 Right of Entry

The supplier shall allow the Buyer, End Users, its Customers and regulatory authorities to visit its premises or the premises of any of Supplier’s lower-tier suppliers upon reasonable advance written notice for any purpose related to performing the PO, including without limitation conducting quality assurance inspections and audits.

- During such inspections or audits, Buyer and End Users may:
  - inspect and test the Goods, the raw materials and components used to produce the Goods, the Tooling and Buyer’s Property and Supplier’s tooling and equipment used to produce the Goods, and the work being performed in the supply, manufacture, or assembly of the Goods; and
  - Review the quality assurance systems used by Supplier or any of its lower-tier suppliers.
- To the extent possible, Supplier will coordinate inspections or audits of its or its lower-tier suppliers’ premises and may accompany Buyer and End Users on such visits.
- Buyer reserves the right to inspect the Goods at Supplier’s facility (to perform source inspection) at any time on reasonable advance written notice. Supplier will provide reasonable cooperation and assistance and provide office accommodations, at its expense, to facilitate Buyer’s source inspection. Such source inspection may be attended by Buyer and End Users. Source inspection will not constitute acceptance of the Goods for purposes of triggering Buyer’s payment obligation. Acceptance of all Goods and Services will be made in accordance with the Agreement.
- Where Supplier is located in or subcontracts with a supplier or subcontractor located in a country which does not have a bilateral airworthiness agreement with the United States, Supplier will obtain and maintain on file and require its affected supplier(s) or subcontractor(s) to obtain and maintain on file, subject to review by Buyer, or copies provided to Buyer upon request, a letter from the applicable government where the goods or subcontracted element is to be manufactured stating that Buyer and the FAA will be granted access to perform inspections, surveillance and tests and to review procedures, practices, processes and related documents related to quality assurance, quality control, flight safety, and configuration control.

### 50.6 Changes Affecting Goods and Services

The supplier shall notify the Buyer of changes to processes, products, or services, including changes of external providers (suppliers) or location of manufacture, and obtain Eaton’s approval.

The Supplier must notify Buyer of any changes that affect the Goods and Services delivered. **All such changes must be approved by Buyer’s Authorized Representative in advance and in writing.**

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			15 of 112
Owner/Author: Kyle Weber Accountable: VP of Quality Assurance		Effective Date: 13-May-2024 Original Date: 10-Feb-2016	

### 50.6.1 Changes to Materials, Components or Source of Supply

If a material or component or a source of supply is specified on the PO or Buyer's specifications, designs, drawings, and similar technical documents, Supplier will not use any unapproved: (i) materials or components; or (ii) source of supply, unless Buyer's Authorized Representative has approved in writing such unapproved materials, components or source of supply. If Supplier uses any such unapproved materials, components or source of supply suppliers without Buyer's prior written approval, Buyer will have the right to reject to Goods and return these to Supplier without any liability whatsoever to Buyer.

When Buyer's specifications, designs, drawings, and similar technical documents specify a material, component or source of supply, the Supplier must provide written documentation (evidence) that it used the specified material, component or source of supply. When the Supplier signs the Certificate of Conformance (SPOC 100.1), this signature certifies that all of the PO requirements have been met, including without limitation the use of specified materials, components, or sources of supply.

If the Supplier is performing a first article inspection (FAI) using a Buyer source-controlled drawing that specifies a material, component or calls source of supply, the Supplier must provide written documentation (evidence) that it used the specified material, component or source of supply at the same time it submits its FAI test report. This documentation may include without limitation a copy of the Supplier's purchase order for the specified material or a certification from the specified source of supply provided to the Supplier.

When a material, component or source of supply is not specified on the engineering drawing or other technical data or is specified as "suggested," the Supplier may use other sources of supply.

### 50.6.2 Changes to Name, Cage Code, Location, and Ownership or Control

Supplier will promptly notify Buyer's Authorized Representative in writing of any change in the Supplier's name, cage code, DUNS number, location of facilities or manufacturing equipment, or ownership or control of the Supplier or of any change in Supplier's organization or method of doing business that will or may affect Supplier's performance of any PO or this Agreement.

Without limiting this SPOC 50.6.2, the Supplier will provide advance written notice to Buyer's Authorized Representative of the following:

- Any change in location of facilities or manufacturing equipment prior to relocation and with adequate time (minimum 90 days) for re-qualification of the Supplier's quality system, hardware and processes.
- Changes in senior company management or in senior quality leadership.
- Changes to its quality or manufacturing systems or controlled processes and its quality system certification, applicable, including suspensions or disapprovals.
- Changes in the holder of design authority for the Goods or Services purchased from the Supplier or a Change in the location of the design office.
- Where the Supplier has design authority or provides parts under its configuration control, Supplier changes the fit, form or function or safety of product.

Supplier's notifications will contain the following information at a minimum:

- Supplier Cage Code and DUNS number
- Old data and new data (i.e., if an address change, list the prior address and the new address)
- Name, phone number and email address of Supplier quality contact

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			16 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

### 50.6.3 Major Changes

The Supplier will inform Buyer's Authorized Representative before making any changes defined as a "Major Industrial Change," a "Major MRP/ERP (Material Resource Planning)/ (Enterprise Resource Planning Change)," or a "Major Supplier Change" (collectively, "Major Change").

Major Industrial Change means a change in: (1) plant location (physical address) where Goods are manufactured or assembled; or (ii) processes used to manufacture the Goods.

Major MRP/ERP Change means any change in Supplier's planning processes that may impact materials, processes, tooling, or transportation in the supply chain that pertains to the Goods.

Major Supplier Change means any change from Supplier's lower-tier supplier(s) used to produce the Goods at the time the First Article Inspection ("FAI") was performed on the Goods.

The Supplier will notify Buyer in writing as soon as it becomes aware of a possible Major Change and, in any event, prior to implementing such Major Change. Supplier's notice must include at least the following information:

- Good(s) affected.
- Detailed description of the Major Change.
- Reason for the Major Change.
- Requested start date and implementation schedule for the Major Change.
- Identification of risk(s) and proposed mitigation(s).

**50.7 Notice of Escapement** When a nonconformance is determined to exist or is suspected to exist on goods and/or services provided to Buyer under this Contract, Seller shall provide written Post Delivery Notification Letter or Letter of Disclosure [Notification of Escapement (NOE)] to Buyer's Authorized Procurement Representative. Seller shall provide the letter and all required NOE information within three (3) business days of when nonconformance was determined. However, if the nonconformance affects safety of flight or is mission critical; Seller shall immediately provide the letter and all available information.

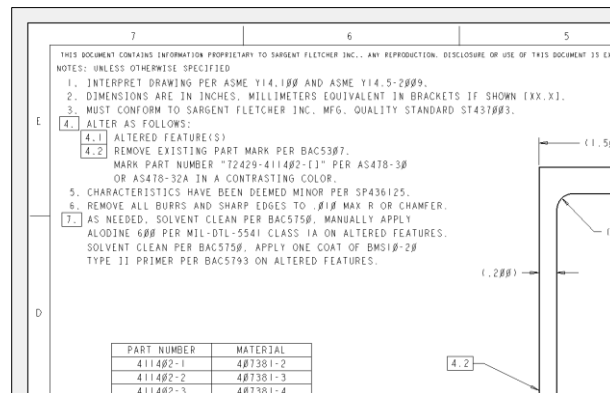
At minimum, Seller shall include the following NOE information:

- Date(s) goods and/or services were shipped and their destination under this Contract
- Buyer's contract number, line item number and name of good.
- Part number(s) and when applicable, the associated serial number(s) and / or lot number(s)
- Quantity
- Date of manufacture and any other pertinent information
- Specific description of nonconformance (i.e., "should be" and "is" condition) with reference to applicable engineering documentation
- Statement declaring whether the nonconformance was determined to exist or suspected to exist
- Preliminary root cause and root cause corrective action
- Name of Seller's Quality personnel involved in the collection and reporting of the NOE information



## 50.8 Configuration Management, Technical Specifications, and Drawing Requirements

The Supplier will ensure that Goods delivered, and Services performed meet the requirements of the then current configuration of all drawings, specifications, technical data, and other requirements of the PO. It is the Supplier's responsibility to have or obtain the latest revision of all requirements. Standards and specifications called out on drawing notes must be understood and performed as indicated. The Signed Certificate of Conformance provided with the supplier's shipment is acknowledgement that conformance and compliance to the drawings are fully met. If help is needed to obtain required documentation, then Contact your Buyer's Authorized Representative.



## 50.9 Notification of Design and Manufacturing Changes

Suppliers with design authority or provide parts under your configuration control are required to notify Eaton promptly, in writing, of any changes of fit, form or function, or safety of product and obtain written approval prior to manufacture and delivery. Supplier will submit proposed changes to the Buyer's Authorized Representative including but not limited to: process – material – design – software.

## 50.10 Source of Supply

When the source of supply is specified on an Eaton engineering drawing and/or technical data in any way, **only** those sources listed will be used. **Use of any alternate sources must be approved by Eaton in writing** and added to the Eaton released drawing before purchasing parts from the alternate source. Contact the Eaton Buyer's Authorized Representative to obtain the latest revisions. When the source of supply is not specified on the drawing or specified as "suggested", other sources may be used. Records pertaining to specified source control are to be kept by the Supplier for a period defined by Eaton's terms and conditions and made available to Eaton upon request. Quality identification requirements are highlights in SPOC 470.

### 50.10.1 Specified Source Documentation Requirements (not FAI)

When an engineering drawing calls out for a specific source to be used for a product or service, the Supplier must provide documentation (evidence) that the correct source was used. When the Supplier signs the Certificate of Conformance (see SPOC 100.1) this signature is stating that all of the requirements have been legally met including the use of specific source requirements called out by engineering drawings.

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	<b>Page</b>
<b>Title: Purchase Order Requirements</b>			<b>18 of 112</b>
Owner/Author: Kyle Weber Accountable: VP of Quality Assurance		Effective Date: 13-May-2024 Original Date: 10-Feb-2016	

### 50.10.2 Specified Source Documentation Requirements (FAI)

When performing a first article and there is an Eaton source controlled drawing involved, documentation providing proof the specified Supplier was used is required. This documentation must be sent with the first article. The documentation from the source Supplier may be a copy of the source Suppliers PO, or certification from the source Supplier, etc.

### 50.10.3 Material, Component, or Supplier Specified on the PO

If a material or component or a lower-tier supplier are specified on the PO or on Buyer's specifications, designs, drawings, and similar technical documents, Supplier will not use any unapproved: (i) materials or components; or (ii) lower-tier suppliers, unless Buyer's Authorized Representative has approved in writing such unapproved materials, components or lower-tier suppliers in advance. If Supplier uses any such unapproved materials, components or lower-tier suppliers without Buyer's prior written approval, Buyer will have the right to reject to Goods and return these to Supplier without any liability whatsoever to Buyer.

### 50.10.4 Approved Supplier List (ASL)

Buyer maintains an approved supplier list (ASL) identifying suppliers authorized to provide Goods and Services. The Supplier's lower-tier suppliers do not have to be on Buyer's ASL; however, Suppliers are expected to control their lower-tier suppliers by an on-boarding process, to have an effective quality management and delivery system that meets the requirements of the PO, and to monitor their lower-tier suppliers' systems and processes.

## 50.11 Quality Records

Quality Records are written verification that the Supplier's methods, systems, and processes were performed according to their quality management system. Quality Records are defined in the AS9100 Standard. The Supplier will retain quality and related Records per Terms and Conditions.

### Examples of Quality Records

- Management review records
- Records of Education, training, skills and experience
- Records that the realization process and resulting product meet requirements
- Records related to the review of customer requirements
- Design and development inputs
- Design and development review records
- Design verification records
- Design validation records
- Design and development change review records
- Supplier evaluation records
- Validation arrangements for processes
- Product identification records including material certifications
- Records related to customer property
- Calibration and verification records

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	<b>Page</b>
<b>Title: Purchase Order Requirements</b>			<b>19 of 112</b>
Owner/Author: Kyle Weber Accountable: VP of Quality Assurance		Effective Date: 13-May-2024 Original Date: 10-Feb-2016	

- Internal audit records
- Product conformity record (FAIs)
- Records of the nature of nonconformities and any subsequent action taken
- Results of Corrective Actions taken
- Compliance records: Burn certifications, Flotation, Material, etc.
- Inspection and test data
- Radiographic film

### 50.11.1 Access to Records

The supplier shall allow the right of access by Eaton, its customers, and regulatory authorities to the applicable areas of facilities and to applicable documented information (e.g., documents, records), at any level of the supply chain, to review progress and performance with respect to production, schedule, cost, quality or protection of Buyer's proprietary rights under any PO. Eaton reserves the right to access records at the direct Supplier/PO holder, or its sub-tier Suppliers that are involved in the manufacture of Eaton products. The Supplier will make the records available within 48 hours, or 2 business days, of the request for access.

### 50.11.2 Records Storage

Records must be stored in an area which meets all local Fire and Life Safety Codes that prevents loss, damage or deterioration. All data stored by electronic means will be secure with back- up procedures and audited to verify the integrity of the data. This process is to be built into the site Disaster Recovery Plan.

### 50.11.3 Disposition of Records

The Supplier will contact the Eaton Buyer's Authorized Representative for disposition instructions of Eaton records upon termination of business activity.

### 50.11.4 Corrections

Changes or corrections to Records, regardless of the media, will be made as follows: draw a single line through the old data, enter the correct data, date, and apply stamp or initials or signature of individual making the correction. No erasures, covering, or "white-out" is permitted on any documentation being sent to Buyer or any Buyer documentation.

### 50.11.5 Traceability

- This SPOC does not apply to Tooling and Buyer's Property.
- Supplier will maintain Records tracing the Goods, including without limitation raw materials, piece parts, components, and sub-assemblies used to produce the Goods, to their original manufacturers, including the mill supplying raw material, by batch or lot and date code. Such Records include without limitation a COFC from the original manufacturer of the raw materials, piece parts, components, or sub-assemblies.
- Supplier will:
  - require its lower-tier suppliers to provide a COFC with each shipment of raw materials, piece parts, components, and sub-assemblies in the same form as required for Supplier's shipments;

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			20 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

- inspect all shipments of raw materials, piece parts, components, and sub-assemblies from its lower-tier suppliers, including without limitation the documentation accompanying such shipments, for conformity with the applicable requirements; and
- maintain Records showing the method of inspecting the raw materials, piece parts, components, and sub-assemblies received by Supplier from its lower-tier suppliers.
- The Supplier will provide, upon request, a list of all raw materials, piece parts, components, and sub-assemblies used to produce the Goods.

This SPOC applies to distributor's raw materials, piece parts, components, and sub-assemblies used to produce the Goods. The Supplier's traceability system must account for any and all components that require replacement past initial installation. Traceability must be maintained throughout the manufacturing process to shipment of the Goods to Buyer. In addition to raw material, piece parts, component and sub-assembly traceability, the Supplier will, upon request, provide all necessary processing history for the Goods in question, including without limitation process name, date and time, location, and identification of the personnel performing all manufacturing functions. The Supplier will also maintain Records showing the method of inspecting the raw materials, piece parts, components, and sub-assemblies received by the Supplier from its lower-tier suppliers.

### 50.11.6 Traceability Variance

The Supplier will obtain prior written approval of Buyer's Authorized Representative before using any raw materials, piece parts, components, and sub-assemblies to produce any Goods without full traceability. Supplier will reference Buyer's approval on Supplier's COFC for any Goods without full traceability. Buyer's approval for use of Goods without full traceability is conditioned on Supplier providing, at its sole cost, the following and any other information requested by Buyer: 1) validation from the original manufacturer that the date and batch codes on the COFC are genuine; and 2) testing a representative sample of the raw materials, piece parts, components, and sub-assemblies to produce the Goods to verify conformance with the specifications or other requirements.

### 50.12 Prohibited Practices

The following acts or practices are prohibited unless the Supplier obtains the prior written approval of Buyer's Authorized Representative.

- a) Unauthorized Repair - Repairs (by welding, brazing, soldering, or the use of adhesives) of parts damaged or found faulty in the fabrication process; repairing holes in castings, forgings, or other materials by plugging.
- b) Unauthorized Processing - Addition, revision, or deletion of thermal, chemical, or electro chemical processes in manufacturing when processes are subject to specification control by Buyer.
- c) Improper Material Submittal - Submission of material having known defects/problems to Buyer without written notification and approval.
- d) Improper Material Re-submittal - Resubmission of material to Buyer without the material being clearly identified as resubmitted material.

### 50.13 General Quality System Requirements & Quality Audits

Suppliers and their lower tiers supplies are responsible for maintaining a QMS that complies with applicable Buyer quality standards. The Supplier will, upon request, provide its certificate of registration from an organization accredited by a member of the national or international accreditation forum (IAF) to the industry standard listed below or successfully pass a compliance audit conducted by Buyer's Quality organization or its designee. Supplier will immediately notify Buyer in writing if Supplier fails to comply with AS9100 or loses its AS9100 certification or any other required certification or accreditation (see a through h below).

The Supplier is subject to periodic quality inspections or audits whether by the IAF or Buyer. During such inspections or audits, Buyer and End Users may inspect and test the Goods, the raw materials and components used to produce the Goods, the Tooling and Buyer's Property and Supplier's tooling and equipment used to produce the Goods, and the work being performed in the supply, manufacture or assembly of the Goods. Buyer reserves the right to provide Buyer-identified quality system findings, associated quality system data, and quality performance data to the Supplier's Certification/Registration Body (CRB).

Additionally, Buyer and End Users may review the QMS used by Supplier or any of its lower-tier suppliers. The Supplier is responsible for all costs associated with QMS audits.

Buyer's required quality systems are as follows:

- a) **Manufacturing with Design Authority:** AS/EN/JISQ 9100; design must be included in scope of registration, and Suppliers may not exclude design portions of the Standard.
- b) **Manufacturing without Design Authority / Special Processes:** AS/EN/JISQ 9100
- c) **Repair and Overhaul:** National Aviation Authority (NAA) Certification (local and/or international regulatory agency) and/or AS9100 or AS9110
- d) **Special Processors (non-manufacturing):** AS9003 or satisfactory audit to NADCAP (AC7004)
- e) **Materials Laboratories and NDT Laboratories:** ISO 17025, or AS9003, or satisfactory audit to NADCAP (AC7004)
- f) **Distribution and Brokers:** AS/EN/JISQ 9120
- g) **Calibration Laboratories:** ISO 17025
- h) **Software Suppliers:** AS/EN/JISQ 9100 and AS9115
- i) **Special Processes:** Ensure customer requirements do not specify special processors i.e.: Nadcap, Plating. Etc. must be on their ASL.

**Alternate quality system standards which do not meet the above requirements must be approved by Buyer's Authorized Representative.**

Employee Awareness and Training – Suppliers shall ensure that their employees are aware of:

- their contribution to product or service conformity;
- their contribution to product safety;
- the importance of ethical behavior.

#### 50.13.1 Evaluation of Lower-tier Suppliers

All Suppliers will establish processes to effectively monitor and control the processes of the Supplier's lower-tier suppliers, including without limitation performing periodic evaluations of such lower-tier suppliers. Failure to provide proof of such processes may result Buyer auditing the Supplier's QMS at the Supplier's expense.

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			22 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

## 50.14 Obsolescence

The Supplier will develop and implement a part obsolescence management process, including the following elements at a minimum:

- Annual assessment of bills of material (BOMs) to identify any actual or potential obsolescence that might impact production or delivery of Goods.
- Proactive identification and detection of part, material or manufacturing or test equipment obsolescence issues.
- An action plan to resolve each obsolescence issue, including forecast analysis and product support decisions (i.e., lifetime buy, redesign or product sunset).
- A lifetime buy inventory management plan to ensure long term ability to produce the Good.
- Advanced written notification to the Buyer Buyer's Authorized Representative of any potential interruption in the ability to meet Buyer forecasted demand due to an obsolescence issue.

Supplier's written notice will include at least the following information:

- A description of the obsolete item.
- The reason for the obsolescence.
- The estimated date the item will no longer be available.
- Any proposed alternatives.

Supplier will work diligently to minimize the cost and operational impact of any obsolescence, including without limitation the effects of interchangeability to Buyer and End Users. Upon notice of an obsolescence issue, Supplier will permit Buyer to make a last time buy of the affected Goods.

## 50.15 Eaton-Consigned Material

The Supplier will not return unused consigned material without written authorization from the Eaton Buyer's Authorized Representative.

## 50.16 Nonconforming Consigned Material

If authorized for return, the material will be labeled "Return of Consigned Materials, Do Not Route to Stores" on the outside of the shipping container.

The Supplier will identify the part number, dash number and the reason for return on the packing slip.

## 50.17 Business Continuity Management

The Supplier will maintain robust business continuity management (BCM) processes, including without limitation disaster preparedness and recovery plans. The Supplier's BCM plan will include contingencies in the event that key people, processes, or technology becomes unavailable. This BCM plan will apply without limitation in case of natural disasters, labor disputes, lockouts, evictions, power or systems failures, hazardous spills, fire, floods, explosions, sabotage, riots, war or other civil disturbances, and voluntary or involuntary compliance with any laws, regulations, or requirements of any government authorities. The Supplier's BCM Plan will also include actions to mitigate any disruptions in supply from its critical lower-tier suppliers. Buyer reserves the right to review the Supplier's BCM plan at any time upon written request.



## 50.18 Crisis Management

The Supplier must notify Buyer's Authorized Representative within twenty-four (24) hours if it experiences an incident, including without limitation those listed in SPOC 50.17 that may affect its ability to produce or make timely delivery of the Goods or Quality Records.

### 50.18.1 Lower-Tier Supplier Crisis Management

The Supplier must notify Buyer's Authorized Representative within forty-eight (48) hours of receiving notification that any of its critical lower-tier suppliers have experienced an incident, including without limitation those listed in SPOC 50.17 that may impact the Supplier's ability to produce the Goods or make timely delivery of the Goods or Quality Records.

### 50.18.2 Disaster Recovery

In the event of a supply interruption, the Supplier will cooperate as requested by Buyer until the delivery schedule is recovered. Nothing in this SPOC 50.18.2 relieves the Supplier of its obligation to make timely delivery of conforming Goods or Services or waives any of Buyer's remedies in case of the Supplier's failure to make timely delivery of conforming Goods or Quality Records.

## 50.19 Material substitutions

Material and part substitutions are only allowed with released Engineering (released drawings, substitution documents, etc.) or written engineering approval. Contact your Buyer's Authorized Representative when a substitution is required for cause that is not covered by Eaton engineering.

## 50.20 Purchased Raw Material Periodic Compliance Verification

Materials control ensures that raw materials conform to the applicable physical, chemical and other technical requirements, including without limitation shelf life, by establishing a re-testing or audit schedule for each raw material source. The re-testing schedule is based on objective evidence (usually OEM, regulatory, or specifications) which supports the frequency and degree of re-testing actually performed.

## 50.21 Specification Availability

Suppliers must contact the appropriate Eaton Buyer's Authorized Representative or other appropriate approved contacts to receive the latest revision of Eaton's specification documents. The latest revision of the Industry or Military specification will be the revision in effect, unless otherwise specified. It is the responsibility of the Suppliers to have and/or obtain the latest revision of these specifications.

## 50.22 Packaging

All Goods must be protected during manufacture, transport and storage to prevent damage, including without limitation any special packaging required for electrostatic discharge protection, moisture sensitive components, corrosion protection, special cleaning, or explosive or corrosive materials. For painted parts,



regardless of size, painted parts must be protected at the piece part level to ensure there is no paint on paint contact between parts.

### 50.23 Packaging and Handling of Electrostatic Discharge Sensitive Parts

Goods that are electrostatic discharge sensitive are defined in MIL-STD-1686. The Supplier is responsible to identify the components that are static sensitive components by referring to the OEM's specification sheet. Such Goods must be handled, stored, shipped, and marked in accordance with MIL-HDBK-263 at all times.

### 50.24 Packaging of Moisture Sensitive Parts

The Supplier will package moisture sensitive Goods per J-STD-033:

- a) Moisture Barrier Bag (MBB) with desiccant
- b) Humidity Indicator Card (HIC)
- c) ESR-001 Requirement

### 50.25 Restrictions for use of Mercury and or Mercury Containing Components

All Goods provided by Supplier will contain no metallic mercury and must be free from contamination by mercury. The Supplier will not use mercury, mercury components or mercury bearing instruments or equipment that cause contamination during the manufacture, process, service, assembly, or test of Goods.

### 50.26 Prohibited & Conflict Materials

Eaton prohibits certain materials during the manufacture, process, service, assembly, or test of Eaton product. The Supplier will not incorporate into any articles to be delivered under this purchase order, specialty metals not melted in the United States, its possessions, Puerto Rico, or a qualifying country. Specialty metals are defined in Defense Federal Acquisition Regulation Supplement (DFARS 252.225-7014 and its Alternate 1). Qualifying countries are listed in DFARS 252.225-7009. The certification form shown below, or the Supplier's equivalent format may be used. The Supplier will provide the following:

1. Eaton Purchase Order \_\_\_\_\_
2. Description of Material \_\_\_\_\_
3. Material Specifications \_\_\_\_\_
4. Lot, heat or batch number \_\_\_\_\_
5. Source of procurement \_\_\_\_\_
6. Origin of material \_\_\_\_\_
7. Name & location of melting facility \_\_\_\_\_
8. Name & location of mill \_\_\_\_\_





9. Mill certification and all other requirements as specified in the applicable raw material specification including chemical and physical analysis

Supplier \_\_\_\_\_

Signature \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

### 50.26.1 Conflict Materials

To support the compliance of Buyer's customers with the Dodd-Frank Wall Street Reform and Consumer Protection Act ("Dodd-Frank Act") and regulations adopted to implement the Dodd-Frank Act, Supplier will, from time to time, as requested by Buyer in writing, report on Supplier's use of "conflict minerals" in the Goods purchased by Buyer from Supplier. Supplier will report such data in the form requested by Buyer. "Conflict Minerals" is defined by the Dodd-Frank Act and its implementing regulations.

### 50.27 Critical Safety Items

If a component or sub-assembly is identified on the drawing or Purchase Order as a Critical Safety Item it is subject to U.S. Public Law 108-136 (National Defense Act for Fiscal Year 2004; Section 802, Quality Procurement of Aviation Critical Safety Items and Related Services). In order to comply with US Public Law 108-136, AS9017 (Control of Aviation Critical Safety Items) must be followed. In particular, sections 3.9, 5.6.1.2, and 5.6.1.3 of AS9017 dictate that frozen planning is in effect.

#### Typical Note on drawing when the part is classified as CSI

22.	<b>CRITICAL SAFETY ITEM</b>	CSI CSP
22	CRITICAL CHARACTERISTIC PER SPI63B125.	

Only suppliers, and sub-tier suppliers (i.e., outside processors such as coating or passivation), authorized on the drawing or the associated Approved Suppliers, Materials, and Process List (ASMPL) are authorized to manufacture this component or sub-assembly. Supplier shall maintain sub-tier identification and control activity on file for Eaton, customer, and/or end customer review, upon request. Should a change of a sub-tier supplier become necessary, SPOC section 50.6.3 (Major Changes) shall be followed and added to the ASMPL prior to use.

#### Typical Note on Purchase Order when the part is classified as CSI

Notes:						
Line	Part Number - Rev Description	Promise Date	Need By Date	Quantity	Unit Price	Extended Price
1	1663402-1 REV .AB PW ASSY,PROCESSOR Vendor Part Number: Notes: QSP-7.4.2.2.1 SPOC 012  Circuit boards shall only be reworked one time. If additional rework is required, a request including justification shall be sent to the Cobham Buyer for Cobham Integrated Product Team (IPT) approval.  This is a critical safety item (CSI) part: See SPOC's 50.27 & 50.28 in QSP-7.4.2.2.1 SPOC 012 Manual for requirements.			1.00 EACH	\$0.00	\$0.00
		12/31/2018	12/31/2018	1.00	\$0.00	\$0.00
<b>TOTAL:</b>						<b>\$0.00</b>

## 50.28 Auditing of Critical Safety Item Controls

The Supplier will conduct self-audits and sub-tier audits as specified in the controlling of specifications invoked by the design data. Results of these audits will be provided to Buyer as required by the PO or Contract or upon request.

### 50.28.1 Critical Safety Items Requirements

- Supplier shall ensure that the component or sub-component is manufactured in accordance with the most recent revision of the drawing, as specified on the PO.
- Material Review Board, (MRB) is not allowed at the supplier or sub-tier supplier. Any drawing non-conformances shall be approved by Eaton and end customer (if required) prior to shipment to Eaton. Use as is or repair (i.e., welding) is not allowed unless approved by Eaton.
- 100% inspection of items identified as a critical characteristic on the drawing and/or related specifications are required unless an Eaton approved sampling plan such as Acceptance Quality Limit, (AQL) has been allowed in the ASMPL. This data shall be supplied with the shipment.
- Deviations to the materials and special processes called for on the drawing are not allowed unless approved by Eaton Engineering and end customer (if required) prior to shipment to Eaton. Contact your buyer when a deviation request is required.
- Component or sub-assembly shall be serialized by the supplier if required on the drawing. Records for manufacturing processes associated with the serial number shall be made available to Eaton and end customer review (if required), upon request. In the absence of a serial number, the supplier shall ensure the component or sub-assembly is traceable to a single lot per SPOC 50.54 and/or SPOC 400.

## 50.29 Airworthiness / Safety Critical

Procurement of Airworthiness / Product Safety Critical, or Flight Safety Critical items or materials: A copy of the quantitative data will be supplied with the material for each shipment, or a FAA Form 8130-3 Airworthiness Approval Tag must be included with the shipment.

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			27 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

### 50.30 FAA Production Approval (8130-3; -9)

This is in addition to the certifications required in Table 2. Suppliers holding an FAA production approval will ship parts with 8130-3 tags reflecting newly manufactured certification. This requirement applies to both new shipments and parts that may have been rejected or returned by Buyer or from a Buyer customer location. Suppliers will contact Buyer's Authorized Representatives if there are any questions in issuing new 8130-3 tags as Buyer OEM sites can only return parts to Suppliers requiring Part 21 type rework and have not been used in revenue flights. Prior to FAA Conformity Inspection Seller will submit goods to Buyer's Quality Assurance Representative who will initiate and complete FAA Form 8130-9 "Statement of Conformity" upon acceptance of Sellers hardware.

### 50.31 Return of Scrap Materials or Parts

For the return of scrap materials and/or parts the Supplier must have written authorization from the Eaton Buyer's Authorized Representative or designated legal agent prior to returning product back to Eaton. When required, the Supplier will segregate and return, at no cost to Eaton, all scrap material incurred in producing parts to the Eaton site initiating the Purchase Order. Government-owned material determined to be scrap should not be disposed of without obtaining prior written approval from the government representative.

### 50.32 Visual Inspection Requirement

Obvious blemishes (e.g., digs, pits, scratches, burrs, etc.) are not permitted. Parts should be packaged individually or in containers using dividers. Suppliers will ensure that their inspection practices include a thorough visual examination of Goods and will refer to site specific workmanship specifications where available.

### 50.33 NADCAP Special Processes, accreditation - Certified Processes

All Suppliers and their lower-tier suppliers must obtain NADCAP accreditation to execute the following controlled processes **when NADCAP Certification requirements are identified on the PO or contract (see Example A below)**. NADCAP requirements will be **specifically called out on a PO if a Supplier must be NADCAP certified to perform the special process**. For specific processes the person performing them might also be required to be certified, welders must be certified to the specific standard they're welding to and a weld certification with the welder's title and signature must be available to Eaton upon request. Penetrant Inspectors must be certified to the specification they're inspecting to, and a Penetrant certification is required with every lot/shipment. The Penetrant Inspector must be identified on the certificate of conformance, their signature is required and their stamp with a "P" and the inspector identification number (see Example B below) is required. Otherwise, a NADCAP certified Supplier is not required. Additionally, the notes on the PO will specify the specific process to augment flow out NADCAP requirements. In some cases, the contract number requiring NADCAP certified processes will also be noted on the PO. SPOC 240 will provide NADCAP reporting requirements. Contact your buyer if there are questions concerning NADCAP for guidance. Some of the special processes typical to NADCAP compliance are below.

- a) Non-Destructive testing
- b) Chemical Processing
- c) Non-conventional Machining and Surface Enhancement Elastomers
- d) Material testing in accordance with a controlled Materials Testing specification
- e) Coatings & Composites


- f) Heat Treating (including Brazing)
- g) Welding (including Torch and Induction Brazing)
- h) Electronics / Wiring
- i) Elastomeric Seals and Sealants
- j) Fluids Distribution


The Supplier or its lower-tier supplier is responsible for the cost of NADCAP accreditation.

Notes:						
Line	Part Number - Rev Description	Promise Date	Need By Date	Quantity	Unit Price	Extended Price
1	1666740-1 REV .A TIE ROD WELDMENT			1.00 EACH	\$0.00	\$0.00
Vendor Part Number: Notes: QSP-7.4.2.2.1 SPOC 004 NADCAP Certification Required for this part.						
			09/03/2015	1.00	\$0.00	\$0.00
<b>TOTAL:</b>						<b>\$0.00</b>

Example A: NADCAP required as illustrated on face of PO

**PROCESSES PERFORMED:**

CLEAN & PENETRANT INSPECT ASTM E-1417M-16 TY I METH A LEV 2/AMS2644F  
 \* ACCEPT/REJECT CRITERIA PER PD434005 REV K CLASS B  
 \* PENETRANT INSP PERFORMED BY: *Angel Leiva* STAMP  DATE: 12/27/17  
 ANGEL LEIVA, LEV II INSPECTOR

We hereby certify that the above listed parts have been processed  
 accordance with applicable specifications.  
 \*\*\*\*\*  
 \* Discrepancies must be reported within\* CERTIFIED BY: *Quinton Pham*   
 \* 10 days of receipt of parts \*  
 \*\*\*\*\*  
 CONNELL PROCESSING, INC.  
 QUINTON PHAM, QC INSPECTOR




Example B: The certification has the level of the inspector, their signature and their stamp, the stamp is required for dye penetrant inspections, it must have a "P" on it and be traceable back to the inspector. There is a certificate of conformance statement and it is signed by an authorized representative of the company.

## 50.34 Shipments Made to Pak Source

The Supplier will attach a bar code label to the outside box when shipping material to location: Pak Source 600 Mill St. Rock Island, IL 61201. The label can have other information on it (does not have to stand alone). If multiple part numbers, then list all of them. Existing labels are acceptable with information below included.

### Sample Label

- This label to be used when shipping to:  
Pak Source  
600 Mill St. Rock Island, IL 61201
- To be visible from exterior of container.
- Does not need to be specific size, as long as it is legible.
- Bar code represents value only (no prefix/suffix)

Part Number: _____	 1 2 3 4 5 6
Revision Level: _____	 1 2 3 4 5 6
Quantity: _____	 1 2 3 4 5 6

### 50.35 Suppliers of Explosives & Ammo

Suppliers shipping explosives or ammunition to Buyer are required to supply Ammunition Data Cards per MIL-STD-1167 or equivalent and initiator/primer lot numbers per MIL-STD-1168 with each individual shipment. Specific drawing or material specification sheets must be used for testing the individual parts listed below. The results of the individual tests must be sent with each individual shipment to Buyer. Each shipment of Goods containing explosives or ammunition must comply with Electrostatic Discharge (ESD) packaging requirements per SPOC 350.

Drawing/Specification Number	Part Name
CC-114	Primer
CC-133	Booster
CC-175	Semiconductor Bridge (SCB) Initiator
851AS276	Initiator

For questions concerning testing or reporting requirements for Goods containing explosives or ammunition, contact the Buyer's Authorized Representative.

### 50.36 Parts Requiring Oxygen Cleaning (Specified on Drawing)

The presence of any contaminant in certain components can result in injury or damage to the component or Good. Oxygen cleaning will be specified on the engineering drawing and the part must be cleaned and supplied in accordance with Buyer Specification ST1637806, Cleanliness Requirements for Oxygen Equipment, or the other cleaning specification called out on the engineering drawing. If the Supplier needs assistance with this requirement, contact Buyer's Authorized Representative.

### 50.37 Calibration System

The Supplier will provide and maintain a calibration system in accordance with MIL-STD-45662, ISO 10012-1, and/or ANSI Z540-1. If the Supplier uses lower-tier suppliers for testing or calibration, the Supplier must be able to demonstrate technical competence to a laboratory standard such as ISO IEC 17025 and the lower-tier suppliers must provide a certification to the applicable requirements.

## 50.38 Submitting Documentation - Supplier Certification Channel

Read SPOC 100 for details on documentation requirements. SPOC 100 applies to all Suppliers.

Additionally, all Suppliers must **SCAN and EMAIL** required documentation, certifications and COC to the buyer via a secure file transfer system and/or with each shipment (NOT FIRST ARTICLE DOCUMENTATION – SEE 50.38.1).

Buyer's Receiving & Inspection department will use the documentation to check conformance at receipt and archive the Supplier's documentation to meet Buyer's record retention requirements.

The Supplier will include a subject line in the **EMAIL** formatted as follows. **<Part Number>**: **<PO Number>**: **<Supplier CODE Number>**. Note: place a space before and after the colons. **<>**: **<>**: **<>** No other information may be placed in the subject line.

**Example: 309D019-1: PO 161487: 2956**

### 50.38.1 Submitting First Article Inspection (FAI) Documentation

First Article Documentation includes a bubble drawing containing a released Eaton drawing. There are security risks emailing drawings over the internet without being sent through a secure program or system. Therefore, to protect the Supplier and Buyer IP, the FAI documentation maybe included with the shipment of the parts, or the Suppliers can also send an electronic copy of the First Article documentation via Secure File Transfer. Secure File Transfer instructions will be provided by Buyer purchasing agent. Suppliers should **not** send drawings or FAI documentation with dimensions or product technical information via email without being in a secure format.

## 50.39 Performance Monitor and Control - Supplier Score Cards

On an annual basis, Buyer defines the minimum performance expectation measured in conventional ways such as parts per million (PPM) and percent (%) conforming for quality and percent on time to promise date (OTTP) on a Supplier level, as well as on a part number level. When a Supplier does not meet these minimum performance levels, Buyer reserves the right to require the Supplier to engage in an aggressive improvement project led by the Supplier's top management, with the participation of Buyer's stakeholders. These projects will be focused on improving the Supplier's business operating systems and quality management systems that will result in the sustainable achievement of Buyer's minimum performance expectation.

As of January 2016, Buyer's minimum performance expectation is:

- A) Quality 99% based on Receiving Inspection and Value Stream Yield.**
- B) Delivery 98% on-time to promise (OTTP) based on meeting promise dates.**

Certain Critical Suppliers will receive a monthly scorecard by the 15<sup>th</sup> each month. This score card will graphically show the Supplier's monthly performance and the twelve (12) month rolling performance in three categories: Quality yield, Corrective Action (CA) responsiveness and on time delivery along with an overall score that weighs the three categories (45% quality, 45% on-time delivery, and 10% CA responsiveness), and calculates the value.

This scorecard is an outcome of data pulled from Buyer's QMS and Business Systems. The data is acquired each month from Buyer's FRACA and Buyer's business system (OTD) and will be used by Buyer to demonstrate



<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			31 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

the Supplier's quality yield, CA responsiveness and on time delivery performance. Data is validated by the Supplier's development organization with assistance from quality assurance and supply chain organizations. This data is considered actionable by both Buyer and the Supplier and should be utilized for continuous improvement as well as future business opportunities.

### 50.39.1 Quality

The Supplier's quality performance rating is its demonstrated performance with respect to the quality of the Goods or Services (percentage of supplied Goods or Services) which meet all requirements.

Example: Three pieces of nonconforming Goods out of 1500 pieces delivered = 99.98% first pass acceptance yield. Any one unit of measure (UOM) will be viewed as one piece, part, or container.

Negative trends or duplications in the Supplier's reported non-conformance may also be given due attention and consideration as a reflection of the Supplier's corrective action process viability. Best in class is 99%. Quality represents 45% of composite score.

### 50.39.2 On-Time-Delivery

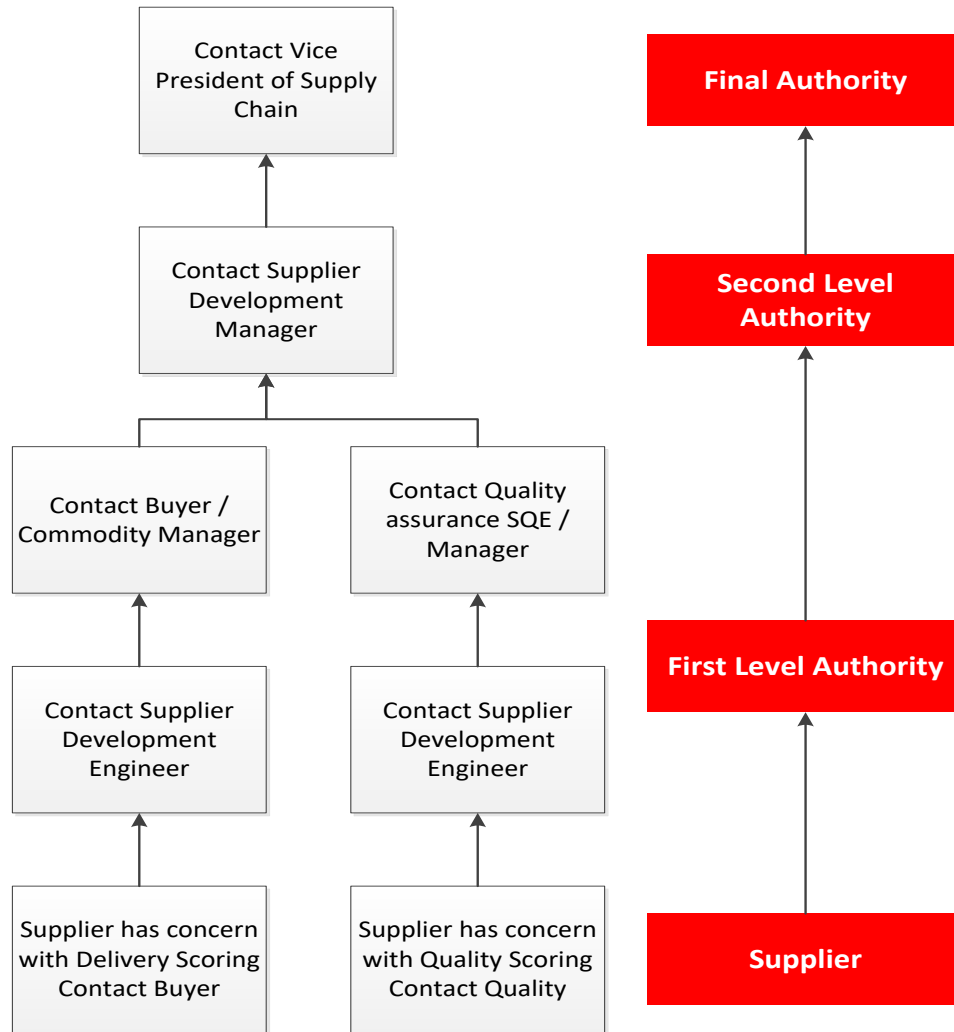
Supplier delivery performance (on-time to delivery (OTD)) is the Supplier demonstrated performance with respect to on time delivery. OTD is calculated as the number of pieces received on time versus the total number of pieces received in a reporting period. The OTD calculation window represented in the score card is set to thirty (30) calendar days early to promise date. One day past promise date is considered late. Any Goods received outside of the OTD window will be counted as not on time. Best in class is 98% and an OTD of five days early to promise date. OTD represents 45% of composite score.

### 50.39.4 Composite Score

The composite score has three categories. Suppliers in the "green" are positioned for growth, being a DSQR preferred supplier, and are considered in good standing. Suppliers in "yellow" are maintained with possible restrictions for growth. Suppliers in "red" are subject to transition to other suppliers, formal recovery plans, and / or corrective actions.

### 50.39.5 Data Integrity and Appeal Process

Suppliers are encouraged to review their score cards every month. It is each Supplier's responsibility to communicate any concerns it has about the score card Buyer. It is critical that the Supplier and Buyer are in agreement of the accuracy of the scores based on the performance criteria established in this document. If the Supplier disputes its score card, the Supplier must contact initial the dispute with Buyer's Authorized Representative, who will use the process described in the following chart.



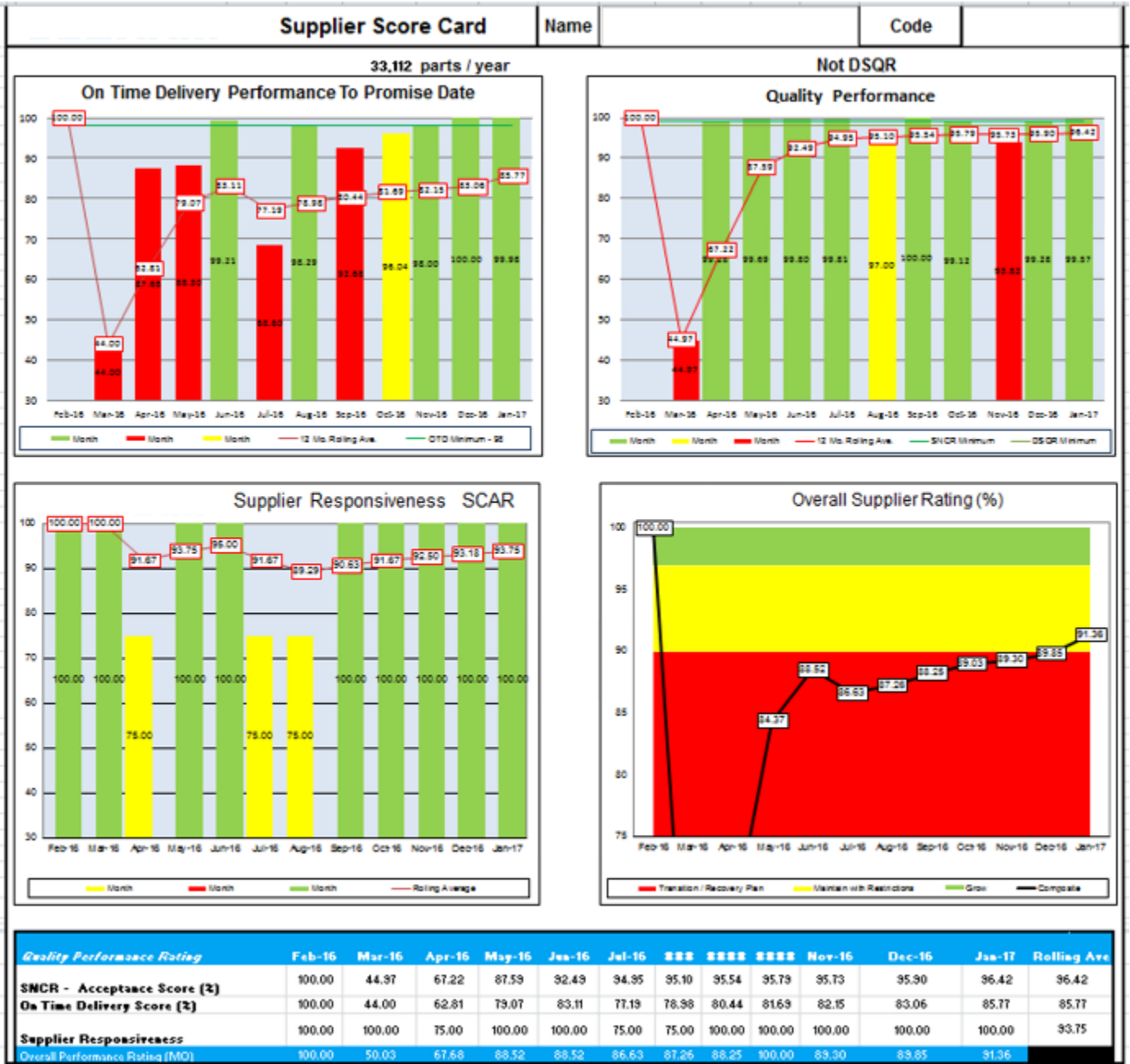


## 50.39.6 Score Card Example

**Quality:** 99.0% to 100% is Green, 97% to 98.99% is Yellow, <97% is Red

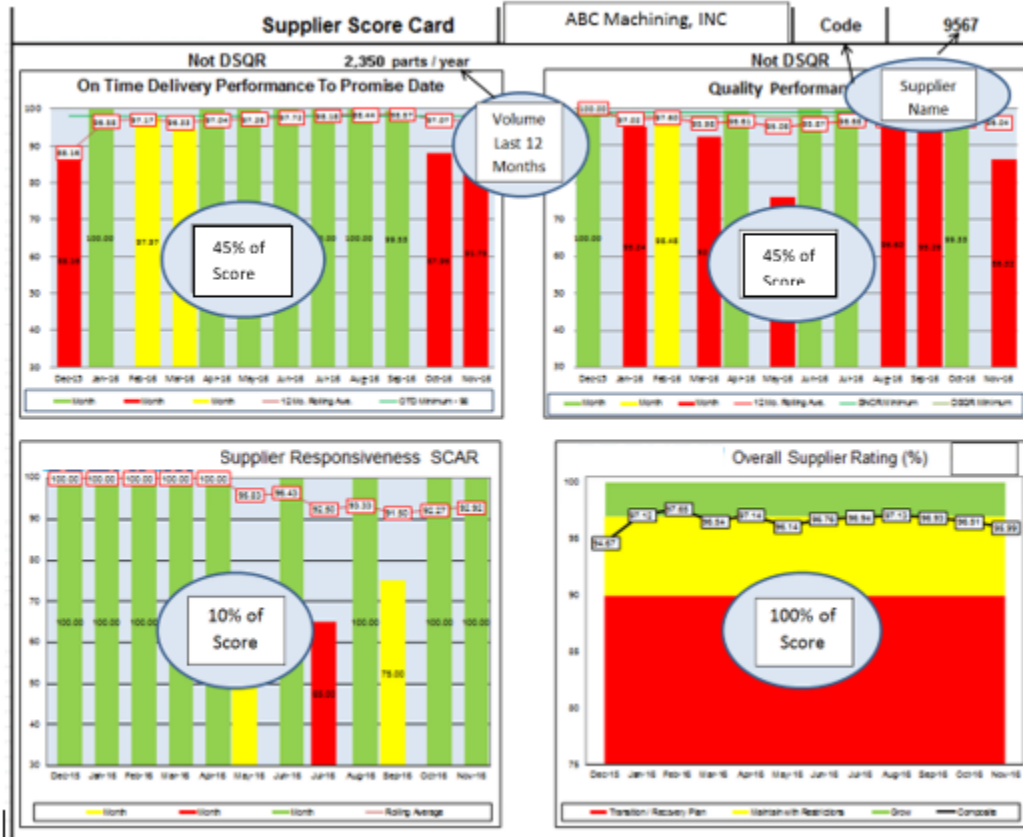
**OTD:** 98% to 100% is Green, 93% to 97.99% is Yellow, < 93% is Red

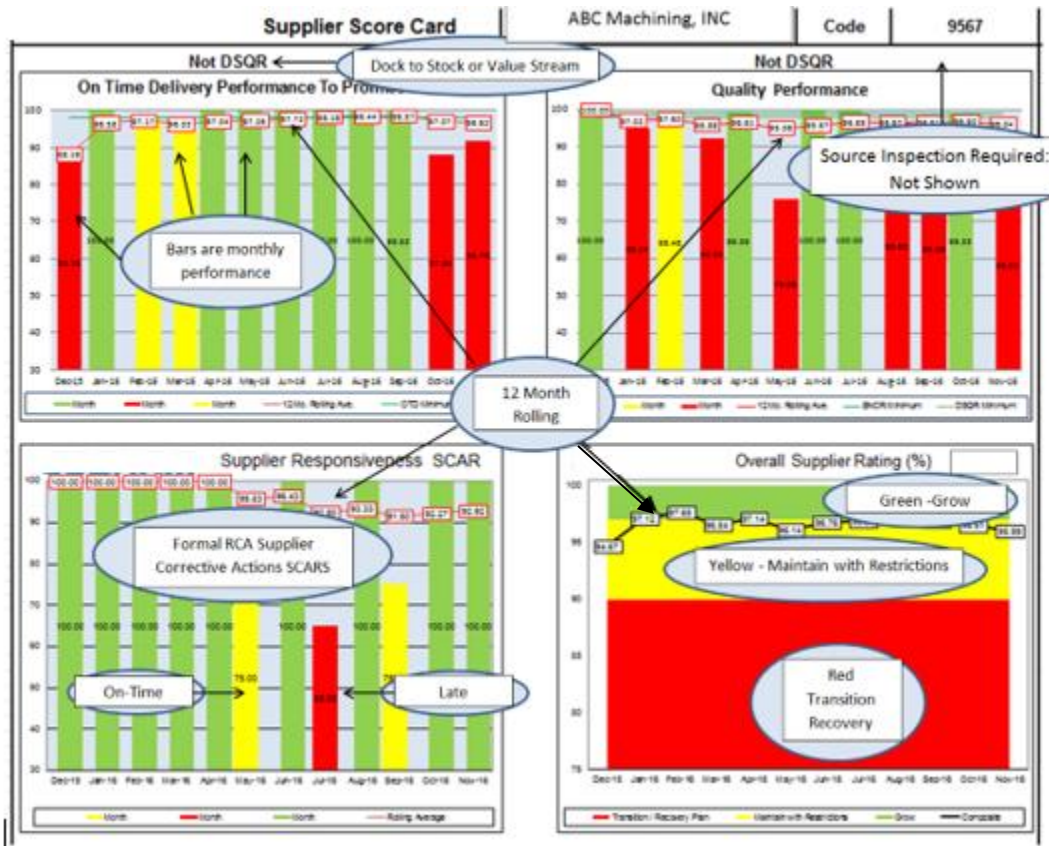
**Responsiveness:** 90% to 100% is Green, 70% to 89.99% is Yellow, <69.99% is Red.



Owner/Author: Kyle Weber  
Accountable: VP of Quality Assurance

Effective Date: 13-May-2024  
Original Date: 10-Feb-2016



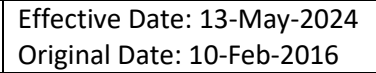


### 50.39.7 Supplier Performance Incentive (Payment Terms)

The pay for performance initiative is no longer available. See Terms and Conditions for payment terms.

### 50.39.8 Supplier Source Inspection Requirements (Quality)

Suppliers with 3-month average quality score of < 97% or a supplier that has created a warranty failure for the end user are subject to Supplier funded 3<sup>rd</sup> party source inspection being performed at the supplier prior to shipment. The supplier will be notified that source inspection is required along with the scorecard. Costs associated with Supplier Funded Source Inspection are the responsibility of the supplier. Supplier scorecards are updated monthly. Supplier funded Source inspection will end when there have been 3 consecutive months with deliveries where the quality score is 99% or greater, and the completion of a Sustainability Checklist with evidence confirming implementation. Source Inspection does not absolve supplier of future nonconformance's identified on product at Buyer or end user. Buyer can institute Buyer funded source inspection at their discretion for any reason in order to mitigate risk and support Buyer's customers. Source inspection shall be supported by Supplier through providing a working area, production schedules, and information to complete the source inspection. Buyer funded source inspection shall remain in place at the sole discretion of the Buyer.



## **50.41 Quality Requirements - Buyer Partners with FAA Approved Production Certificates**

If the PO identifies SPOC 50.41, the Goods are being furnished by a partner of Buyer holding a FAA Production Certificate, as specified by Federal Aviation Regulations (FAR) Sub-Part G, paragraph 21.132. Inspection and acceptance is delegated to the partnering Supplier in accordance with Federal Aviation Regulation (FAR) 21.146. Certification is required with each shipment stating that the articles supplied were produced in accordance with a quality management system approved by the FAA.

## **50.42 Control of Government / Customer or Eaton Owned Property at Suppliers**

Government, customer or Eaton owned acquired/furnished property is:

- a) Tooling, test equipment and material supplied by Eaton for use in the performance of a specific purchase order.
- b) Tooling, test equipment and material made by the Supplier and paid for by Eaton in the performance of a purchase order. The Supplier is responsible for such property in accordance with the General Terms and Conditions clause of this Order and this Government/Customer or Eaton Owned property clause.
- c) The Supplier's Quality Management System to control, use, preserve, protect, repair and maintain such property will be reviewed and approved by Eaton. Documentation should be submitted to the Buyer's Authorized Representative for approval.

### **50.42.1 Control of Government / Customer or Eaton Owned Property**

The Supplier will have a system, which includes written procedures for control of all tooling, test equipment and material. Procedures will be in accordance with the controls specified within the terms and conditions and this SPOC. Each individual piece of test equipment and tooling acquired under this order will be marked in a permanent manner with the appropriate identification number and ownership as provided by the Buyer's Authorized Representative.

### **50.42.2 Records**

The Supplier will maintain a record of all Government/customer and Eaton owned property. The list will include:

- a) Description and gage/tool name.
- b) Eaton identification number (applicable to equipment, tooling, test equipment, gages, etc.).
- c) Part Number (applicable to material).
- d) Eaton Purchase Order number, contract or equivalent code.
- e) Supplier name and address.
- f) Signature of the company's approved representative.
- g) Date of certification.
- h) Program name (if supplied).
- i) Eaton Purchase Order site Supplier code.

When the property is transferred to another Supplier or returned to Eaton, the Supplier is required to maintain all records of the move for 10 years or longer if specified in a contract with Eaton.

### 50.43 Physical Inventory

Supplier is required to maintain a physical inventory of all of the Government/customer or Eaton owned property acquired/furnished against this Purchase Order and furnish a listing when requested from an Eaton Buyer's Authorized Representative or Representative.

### 50.44 Maintenance

The Supplier is to maintain the calibration on all the gages and test equipment as required. Supplier is required to report immediately to the Buyer's Authorized Representative any loss, theft or destruction of, or damage to, the Government/customer or Eaton owned property while in its possession. No modifications or changes to any of the test equipment or tooling are permitted without prior Eaton written approval. Contact the Eaton Buyer's Authorized Representative before the transfer of test equipment, or tooling between Supplier facilities location to other sub-Suppliers. Report to Eaton any acquired/ furnished property that becomes excess to the needs of the purchase order.

### 50.45 Shipment to Eaton

Supplier should contact the applicable Eaton Buyer's Authorized Representative to determine the correct address to return Eaton or Customer supplied property.

### 50.46 Characteristic Accountability

Suppliers must have a verifiable methodology for controlling and recording inspection of all design characteristics, as well as a method of validating received components from their lower-tier suppliers. The Supplier will maintain a detail inspection plan (DIP) for parts inspection ensure that all engineering drawing characteristics and notes are inspected and/or controlled by appropriate methods. A DIP may be used as a record or may reference supporting records such as routings, receiving or in-process inspection sheets, final test/inspection reports, or statistical data as long as the DIP and/or supporting records are complete, accurate and the results are reproducible. The DIP will define the manufacturing operation at which the characteristic is inspected and the inspection method used, including the type of tooling/gaging instrumentation used. The Supplier will maintain a plan which clearly documents the proposed control dimensions for all design characteristics. DIPs are not applicable to commercial items or commercial off-the-shelf (COTS) items as defined by the FAR.

### 50.47 Quality Sampling Key Characteristics

At a minimum, the Supplier will inspect all design characteristics per the aerospace sampling plan ANSI / ASQ Z1-4. C = 0. Suppliers will not institute alternate sampling plans without the prior written approval of Buyer's Authorized Representative.

#### Inspection Sampling by Attributes

Sampling plans are derived from ANSI/ASQC Z1.4 but are modified to zero defects only for acceptance.

#### Buyer will not pass lots with known defects.

Minor Characteristics (SL1) are checked at a 2.5% AQL.

Major Characteristics (SL2) are checked at .65% AQL.

Tightened inspection (SL3) is a .4% AQL and Critical is 100% inspection.



<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			39 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

## 50.48 Direct Shipments

Direct ship is an FAA-approved authorization to allow the transfer of product from an Eaton Aerospace manufacturing site that is not listed on the current Production Certificate, or an approved external manufacturing Supplier, to a non-military OEM customer acting on behalf of an Eaton Aerospace site that is listed on the Production Certificate.

## 50.49 Direct Shipment Authorization

Direct shipment from the Supplier to Buyer's customer requires the prior written authorization of Buyer's Authorized Representative. Send requests for direct shipping must be sent to Buyer's Authorized Representative. A Letter of Authorization (DSA) is issued from the Eaton Quality Assurance Department authorizing the direct shipment for specific part numbers for a limited time period and/or limited quantity of parts to a specific end-item user.

## 50.50 Part Marking Requirements

MIL-STD-130 applies to all EATON drawings as the "Identification Marking" specification, unless there is a conflicting specification listed on the drawing (not to be confused with "Identification Marking Method" specifications such as AS478, which describe only marking methods and not marking content). In addition to drawing requirements, at a minimum, products supplied to MSD shall be identified with the following:

- EATON CAGE Code – EATON Part Number
- Drawing Revision, and Mod number, if applicable
- Manufacturer's Batch/Lot/Work Order Number
- Date of Manufacture
- Any Additional Information Required by the Drawing/Specification (e.g., Test Pressure, serial number)
- MSD nonconformance number, if applicable
- Supplier Acceptance Stamp (optional)

These requirements do not apply to products with specific definition of marking contents (such as those with nameplates containing pre-defined fields) or where these requirement conflict with the "Identification Marking" specification. If parts cannot be labeled due to size, or when identification of the part itself would result in damage or mutilation, the item shall be individually bagged and tagged with the above information. The supplier shall not include their own CAGE code in the part marking (including bag & tag) unless MSD has granted specific license to the supplier to sell MSD products directly to entities other than MSD.

The supplier must maintain lot traceability throughout the value stream, from raw material through shipment to MSD. The Supplier will obtain prior written approval from Buyer's Authorized Representative before using any raw materials, piece parts, components, or sub-assemblies without full traceability. Supplier will reference Buyer's approval on Supplier's C of C for any goods lacking full traceability.

Unless otherwise stated, parts procured as samples with a "-S" part number specified on the Purchase Order shall be physically identified with part number as specified on the engineering drawing, excluding the "-S" (e.g., 12345-1). However, the Certificate of Conformance, FAI, and other documentation accompanying the shipment shall include the "-S" in the part number (e.g., 12345-1S).

**50.51 Certification to Federal Aviation Regulation - 14 C.F.R. 25.853**

The regulation applies only to Goods supplied for use on commercial aircraft. All deliveries of production Goods that are non-metallic in structure or makeup, by way of illustration and not limitation plastics, foams, wire shielding and sheathing, and laminations that include non-metallic, fabric and fabric materials, must be accompanied by a COFC stating that the Goods meet Burn Testing Requirements in accordance with Federal Aviation Regulation 14 C.F.R. 25.853A, B or C. If the Supplier is in doubt as to whether or not the Goods must be certified to meet this Federal Aviation Regulation, the Supplier will contact Buyer for clarification prior to delivery of the Goods. All metallic Goods, by way of illustration and not limitation castings, bar-stock, sheet metal, and machined aluminum, are excluded from this requirement. The requirement applies unless otherwise stated on the drawing or specification referenced on the PO.

**50.52 Environment, Health and Safety**

Supplier accepts full and sole responsibility to maintain an environment, health and safety management system ("EMS") appropriate for its business. Buyer expects that the Supplier's EMS promotes health and safety, environmental stewardship, and pollution prevention by appropriate strategies.

**50.53 Registration, Evaluation Authorization and Restriction of Chemicals (REACH)**

This SPOC 50.53 applies to any Goods delivered for use in the European Economic Area. Supplier will comply with European Union Regulation (EC) No. 1907/2006 ("REACH"). Supplier agrees to provide the information requested by Buyer for REACH compliance within forty-five (45) days after the date of Buyer's notice, or such other time period as the parties may agree, in the format provided or requested by Buyer at no additional cost to Buyer. Buyer may disclose such information to Buyers and End Users or the applicable regulatory authorities for purposes of REACH compliance.

**50.54 Lot Control Information**

All parts to be furnished on this order shall be identified with a serial number or lot number or date code and the manufacturer's identification as applicable. The lot number shall be a unique number assigned to a group of identical parts that are produced concurrently by a common process. A date code consisting of a series of numbers that indicate day, week, month, or year of manufacture is an acceptable method of lot numbering. The manufacturer's identification can be his name, initials, registered trademark, symbol, logotype, or code identification number assigned in Cataloging Handbook H4-1.

The supplier may use any lot numbering and manufacturer's identification scheme which meets the requirements of this document and/or MIL-STD-1285, latest issue. The lot number and manufacturer's identification shall be marked as required by the applicable drawing or specification. If the applicable drawing or specification has no requirements, the lot number or date code and manufacturer's identification shall be marked directly on the part, if practical. If not practical, it shall be marked on the accompanying paperwork or on the containers.

SERIAL # (If Applicable) \_\_\_\_\_

LOT # (If Applicable) \_\_\_\_\_

DATE CODE (If Applicable) \_\_\_\_\_

MANUFACTURER'S IDENTIFICATION (If Applicable) \_\_\_\_\_



## 50.55 Specific Customer Flow Down and Information

All Suppliers must read and understand the requirements in SPOC 600 series. These are additional requirements or provide information on handling of parts specific to Buyer's customers. As an example: SPOC 625.2 provides information on handling of Boeing Commercial Aircraft parts and SPOC 625.3 is a flow down Boeing wants all suppliers to know and comply with.

## 50.56 Source Inspection Sampling Requirements

The following inspection of parts is to be performed at final inspection per the table below.

Critical Characteristics 100%, Major Characteristics SL2 & SL3, Minor Characteristics SL1.

Lot size	SL3 .4% AQL	SL2 .65% AQL	SL1 2.5% AQL
2-8	*	*	5
9-15	*	*	5
16-25	*	20	5
26-50	32	20	5
51-90	32	20	7
91-150	32	20	11
151-280	32	20	13
281-500	48	47	16
501-1200	73	47	19
1201-3200	73	53	23
3201-10,000	86	68	29
10,001-35,000	108	77	35
35,001-150,000	123	96	40
150,001-500,000	156	119	40
500,001 and over	189	143	40

## SPOC Groups – SPOC 001 through SPOC 021 Details

## 50.57 Prohibited substance in supplier materials and parts

Materials and parts shipped to Eaton are to be free from of the following substances:

- Asbestos (all forms) –global regulations (e.g., EU REACH Annex XVII) prohibit the use of asbestos.
- Penta-bromodiphenyl ether and octa-bromodiphenyl ether – global regulations (e.g., EU 76/769/EEC, RoHS, US EPA) restrict their marketing and use.
- Polychlorinated biphenyls (PCBs) – global regulations (e.g., Stockholm Convention, US Environmental Protection Agency) prohibit the use of PCBs.

## 50.58 GIDEP – Government Industry Data Exchange Program

GIDEP (Government-Industry Data Exchange Program) is a cooperative activity between government and industry participants seeking to reduce or eliminate expenditures of resources by sharing technical information essential during research, design, development, production and operational phases of the life cycle of systems, facilities and equipment. Suppliers are required to participate in this program in order to help

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			42 of 112
Owner/Author: Kyle Weber Accountable: VP of Quality Assurance		Effective Date: 13-May-2024 Original Date: 10-Feb-2016	

identify issues related to counterfeit parts and other suspect materials or parts that otherwise will enter the supply chain. For more information go to website: [www.gidep.org](http://www.gidep.org)



### 50.59 Counterfeit Electronic Parts Prevention

Supplier shall establish a program to prevent the risk of introducing both counterfeit electronic parts as well as non-electronic parts and materials. This includes: Identification, mitigation, detection, and avoidance techniques, and reporting of suspect or confirmed counterfeit parts, assemblies, and/or materials; Training for the detection and prevention of counterfeit parts.

### 50.60 Subcontracting With a Foreign Seller

Buyer's approval of Supplier's request for approval to subcontract with a foreign third party a portion of the goods ordered hereunder is contingent upon the following:

1. Supplier must have on file a "rate of drawback" request with the United States Bureau of Customs (a copy of which will be furnished to Boeing) and shall pay all United States Custom Duties, using the "drawback" method, on all supplies which will be used on aircraft to be exported from the United States by Buyer or a Buyer customer;
2. Supplier will maintain and furnish Buyer with records of all such imports incorporated into the supplies ordered hereunder; and
3. Buyer will file for drawback, using Supplier's record of imports, upon exportation of the aircraft and retain the refund as a price reduction of the supplies ordered hereunder. In addition to furnishing the documentation specified above, Supplier shall, as requested by Buyer, furnish any other documentation and establish any administrative controls or invoicing procedures which may be required to properly and economically import and to allow Buyer to export any articles and/or items utilizing the supplies furnished hereunder and to obtain the refund of moneys paid in connection therewith. Seller shall also be responsible for assuring that its subcontractors furnish any documentation which may be required to carry out the intent of this Clause.

### 50.61 Regulatory Approvals

For aircraft regulated by the FAA or non-U.S. equivalent agency, regulatory approval may be required for Supplier to make direct sales (does not include "direct ship" sale through Buyer) of modification or replacement parts to owners/operators of type-certified aircraft. Unless explicit direction is given to the contrary, no articles (or constituent parts thereof) ordered by Supplier shall contain any FAA-PMA markings and shall not be certified under an FAA PMA approval. Regulatory approval, such as Parts Manufacturer Approval (PMA), is granted by the FAA or appropriate non-U.S. equivalent regulatory agency. Supplier agrees

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			43 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

not to engage in any such direct sales of Products or Services under this Agreement without regulatory approval. Any breach of this provision will be deemed a material breach of this Agreement. For Supplier proprietary parts, Supplier agrees to notify Buyer of application for PMA or other applicable regulatory approval and subsequent approval or denial of same. Upon receipt of proof of PMA or other applicable regulatory approval, Boeing may list Seller in the illustrated parts catalog as seller of that part.

## 50.62 Aerospace Quality Management System (AQMS) Certification

Supplier shall ensure the following relative to AQMS certification:

- The CRB is accredited to perform aerospace quality management system assessments. The CRB must use approved auditors and operate in accordance with the corresponding International Aerospace Quality Group (IAQG) certification/registration scheme.
- The Supplier maintains objective evidence of CRB certification/registration on file at Supplier's facility. Objective evidence shall include: The accredited AQMC certification(s) of registration; the audit report(s), including all information pertaining to the audit results in accordance with the applicable certification/registration scheme; copies of all CRB finding(s), objective evidence of acceptance of corrective action(s), and closure of the finding(s).
- The CRB has Supplier's written permission to provide audit results/data to IAQG membership as required by the applicable IAQG certification/registration scheme;
- Buyer is immediately notified in writing should the Supplier's certification/registration be suspended or withdrawn, or accreditation status of Seller's CRB is withdrawn;
- Buyer-identified findings and Supplier's quality performance data is provided to the CRB during certification/registration and surveillance activity;
- CRB shall be provided access to applicable proprietary data to the extent necessary to assess Supplier's compliance to AQMS requirements. CRB shall agree to keep confidential and protect Buyer proprietary information under terms no less stringent than Supplier's contractual agreement with Buyer;
- Supplier complies with all CRB requirements imposed to issue and maintain certification/registration;

## 50.63 Subcontracting

Supplier shall maintain complete and accurate records regarding all subcontracted items and/or processes. Supplier's use of subcontractors or suppliers shall comply with Supplier's quality assurance system approval for said subcontractors or suppliers. Unless Buyer's prior written authorization or approval is obtained, Supplier may not purchase completed or substantially completed goods or services. For purposes of this PO, completed or substantially completed goods or services shall not include components or assemblies or subassemblies. No subcontracting by Supplier shall relieve Supplier of its obligation under the applicable PO. Utilization of a Buyer-approved source does not constitute a waiver of Supplier's responsibility to meet all specification requirements.

Supplier shall include as part of its subcontracts those elements of this document and **Eaton's Terms and Conditions** that protect Buyer's rights including but not limited to right of entry provisions, proprietary information and rights provisions and quality control provisions. In addition, Supplier shall provide to its subcontractor's sufficient information to document clearly that the work being performed by Supplier's subcontractor is to facilitate performance under this PO. Sufficient information may include by is not limited to PO Number or the name of Buyer's Procurement Representative.

## 50.64 COMMERCIAL INVOICE REQUIREMENTS FOR IMPORT INTO THE UNITED STATES

Every article of foreign origin imported into the United States shall be marked with the country of origin in accordance with U.S. Customs regulations 19CFR134. Since all Buyer imported parts are subject to delivery to the ultimate consumer, in accordance with 19CFR134, Buyer requires marking of all foreign origin imported parts. Very limited exceptions are allowed in accordance with Customs regulations (see below). For any other exceptions, non-US suppliers must submit exception requests to the appropriate Buyer procurement agent prior to shipment, who will then forward to Global Trade Controls (GTC) Import for approval. Rubber stamp and other surface marking methods, including inks, paints, and coatings, shall be used in accordance with this specification. Intrusive methods are not authorized. Location and part mark method shall be consistent with drawing part mark requirements, if applicable. The marking shall consist of the following, as applicable:

- a. Country of Origin - The English language name of the country in which the imported article was manufactured.
- b. The marking must be conspicuous, legible, and permanent.
- c. The wording need only consist of the English language name of the country of origin such as FRANCE, CHINA, or JAPAN, unless there is also wording on the container, unit, etc. that makes reference to United States, U.S.A., and/or America. If such references are present, the country of origin marking must be a phrase such as 'Made in China', 'Assembled in France', 'Product of Japan', placed in close proximity to the wording that makes reference to the U.S.A, and be in at least comparable size.
- d. Abbreviations which unmistakably indicate the name of a country, such as 'Gt. Britain' or 'UK' for 'Great Britain' are acceptable. Variant spellings which clearly indicate the English name of the country of origin, such as 'Brasil' for 'Brazil' and 'Italie' for 'Italy' are acceptable.

Exceptions: The following items are not required to be marked with the Country of Origin, but the Country of Origin shall be marked on the packaging/container which ordinarily reaches the ultimate purchaser (CFR 134.22): 1. Articles that are incapable of being marked, 19 CFR 134.32 (a): 2. Articles that cannot be marked without damage to the article, 19 CFR 134.32 (b) 3. Products of the United States, 19 CFR 134.32 (m) 4. Articles cited on the J-list, 19 CFR 134.33 Buyer requires that the provisions/requirements set forth above be included in Sellers direct supply contracts as well as the obligation that they be flowed to the sub-tier supply chain, when shipping to Boeing in the United States.

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			45 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

## 50.65 Inspection

SUPPLIER SHALL MAINTAIN, AND HAVE AVAILABLE ON A TIMELY BASIS, QUALITY RECORDS TRACEABLE TO THE CONFORMANCE OF PRODUCT/PART NUMBERS DELIVERED TO BUYER. SUPPLIER SHALL MAKE SUCH RECORDS AVAILABLE TO REGULATORY AUTHORITIES AND BUYER'S AUTHORIZED REPRESENTATIVES. SUPPLIER SHALL RETAIN SUCH RECORDS FOR CALENDAR YEAR + 10 YEARS FROM THE DATE OF SHIPMENT UNDER EACH APPLICABLE ORDER FOR ALL PRODUCT/PART NUMBERS UNLESS OTHERWISE SPECIFIED ON THE ORDER.

At the expiration of such period set forth above and prior to any disposal of records, Supplier will notify Buyer of records to be disposed of and Buyer reserves the right to request delivery of such records. In the event Buyer chooses to exercise this right, Supplier shall promptly deliver such records to Buyer at no additional cost on media agreed to by both parties.

Buyer requires that the provisions/requirements set forth above be included in Suppliers direct supply contracts related to the Products/Part Numbers. Supply Chain shall mean network of material, equipment, information, and services integrated into products and services for the ultimate customer.

## 50.66 Quality Assurance Inspection

SUPPLIER MUST PROVIDE A STATEMENT ON THE PACKING SHEET CERTIFYING ITS QUALITY ASSURANCE DEPARTMENT HAS INSPECTED THE PARTS AND THEY ADHERE TO ALL REQUIREMENTS, APPLICABLE DRAWINGS/SPECIFICATIONS.

OR

WHEN THE SUPPLIER IS LOCATED OUTSIDE OF THE UNITED STATES AND THEY SUBMIT AN EASA/JAA/FCAA FORM-1, THE FOLLOWING CONDITIONS MUST EXIST ON THE FORM:

1. BLOCK 11 STATUS IS IDENTIFIED AS "NEW"

AND

2. BLOCK 12 TITLED "REMARKS" CONTAINS a STATEMENT CERTIFYING THE SELLER'S QUALITY ASSURANCE DEPARTMENT HAS INSPECTED THE PARTS.

AND

3. BLOCK 12 TITLED "REMARKS" DOES NOT CONTAIN CERTIFICATION STATEMENTS OF PMA, PROTOTYPE, NOT TO BE INSTALLED ON CERTIFIED AIRCRAFT, OR ANY STATEMENT THAT DOES NOT SUPPORT PC700 CERTIFICATION.

AND

4. BLOCK 13a "CERTIFIES THAT THE ITEMS IDENTIFIED ABOVE WERE MANUFACTURED IN CONFORMITY TO: APPROVED DESIGN DATA AND ARE IN CONDITION FOR SAFE OPERATION"

Buyer requires that the provisions/requirements set forth above be included in Suppliers direct supply contracts as well as the obligation that they be flowed to the sub-tier supply chain

## 50.67 MAINTENANCE, REPAIR, OVERHAUL, FAA REGULATED NON-FAA CERTIFICATED REQUIREMENTS - DELIVERABLE

Suppliers' facility and quality system are required to be Buyer approved and, at Buyer's discretion, must pass an on-site quality audit performed by Buyer as well as sustain such approved status on an on-going basis. Representatives of Buyer and/or the Federal Aviation Administration (FAA) may inspect and evaluate Supplier's facilities, systems, data, equipment, personnel and all products processed under this contract (If Supplier is non-domestic, the government agency equivalent to the FAA may conduct such inspection and evaluation). Work performed under this contract must comply, if applicable, with 14 CFR 43, maintenance, preventive maintenance, rebuilding, and alteration, and 14 CFR 145.211, quality control system. As required by 14 CFR 145.217, Contract Maintenance the Buyer's repair station quality manager or designee remains directly in charge of the work performed by Supplier under this contract. Matters requiring instruction or direction outside of Supplier's Buyer approved processes must be directed to the Buyer's Procurement Representative for coordination. Supplier shall include with each shipment; all documentation required by this contract including a description of the work accomplished, the revision status and date of the technical data used and Supplier's certificate of conformance. If Supplier is located in the United States and performs safety-sensitive functions, as described in 14 CFR 120, Drug and Alcohol Testing Program, Seller must be able to demonstrate compliance with the antidrug and alcohol misuse prevention programs for personnel engaged in safety-sensitive functions, including subcontracts at any tier, for work accomplished under this contract. If Supplier meets the definition of a hazmat employer under 49 CFR 171.8 definitions and abbreviations, Supplier must have a hazardous materials training program that meets the training requirements of 49 CFR 172, subpart H, training.

## **50.68 Digital Product Definition (DPD)/Model Based Definition (MBD)**

Supplier shall conform to Buyer's processes and obtain Buyer approval as DPD Capable if Supplier receives, downloads, and/or uses Buyer's DPD geometry in any format. If Supplier receives Buyer's DPD geometry in MBD format, Supplier is required to obtain Buyer's approval as MBD-capable. If Supplier provides Buyer's DPD geometry to Supplier's subcontractors in any format, Supplier shall impose the same requirements and is responsible for its subcontractor's conformance. If Supplier provides Buyer's DPD geometry in any format to Supplier's subcontractors, Supplier shall comply with all applicable export laws.

## **50.69 Manufacturing Plan**

If requested, Supplier shall submit to Buyer a Manufacturing Plan for review and acceptance. Said plan will be in a format directed by Buyer.

## **50.70 PERFORMANCE**

Definition. "Ozone-depleting substance," as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR Part 82 as--

- (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or
- (2) Class II, including, but not limited to hydro chlorofluorocarbons.



Supplier shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), and (d) and 40 CFR Part 82, Subpart E, as applicable:

Warning

Contains \*\_\_\_\_\_, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

Warning

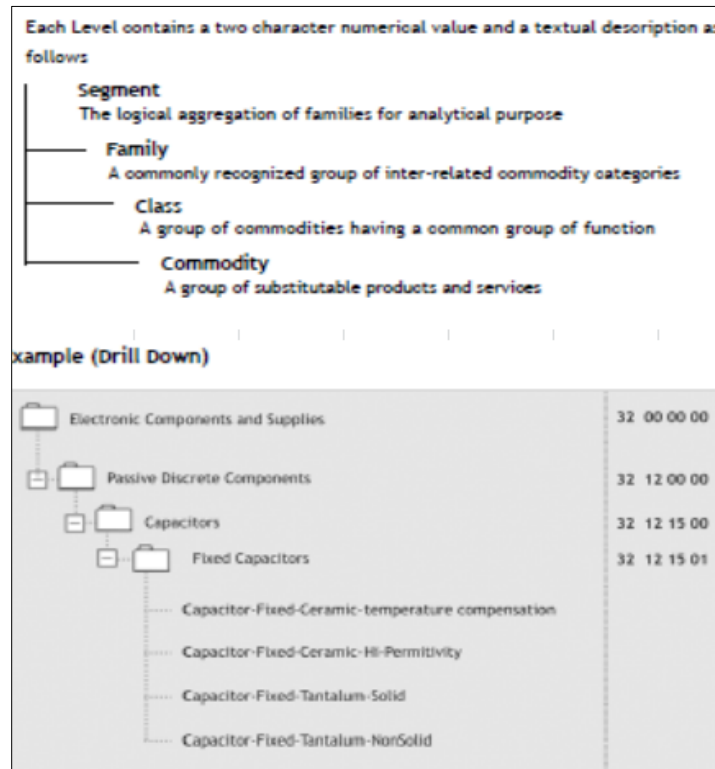
Manufactured with \*\_\_\_\_\_, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

\* Supplier shall insert the name of the substance(s).

Buyer requires that the provisions/requirements set forth above be included in Supplier's direct supply contracts as well as the obligation that they be flowed to the sub-tier supply chain. For the purpose of this note Supply Chain shall mean Supplier's direct and indirect suppliers performing value-added activity on the products and services. It focuses on direct and lower-tier suppliers

## UNSPSC Code Numbers for business system

The UNSPSC code numbers shown in table 1 are for internal Eaton business system commodity assignment only. The number is split into four sets of data as follows: Segment/Family/ Class/Commodity. {32121501}. All SPOC groups will have Segment # and Family # minimum. Class and Commodity # are optional. More than one segment number can be assigned to a SPOC group. The first four digits drive selection of Group SPOC Number.





## **SPOC 100 – Certification of Conformance / Shipping Declaration Document / Packing Slip**

The Supplier is responsible for maintaining and supplying accurate and legible certification documentation as objective evidence of meeting drawing, specification, technical data, or purchase order requirements. The Supplier will submit this particular certification of compliance with each shipment, signed by its Quality Manager or their authorized representative which states that the product or service supplied is in full conformance with all physical configuration and functional test specifications; that all raw materials used conform to applicable specifications; that any special processes employed on the product conform to applicable specifications; and that inspection and test records, physical and chemical analysis, and process control data is on file and available for examination. By furnishing this certification, Supplier represents that he is the manufacturer or duly authorized distributor, or agent for the manufacturer of the product.

### **100.1 Certification Requirements**

Suppliers shall provide a certificate of conformance with each delivery to MSD confirming that all Purchase Order terms and technical requirements have been met. Where functional testing is used to confirm part conformity, evidence of testing shall be included with the certificate of conformance. Separate packages and C of C documents shall be submitted when components from multiple heats or batches are shipped at the same time.

All Certificates of Conformance shall include:

- The name, address and contact information for the Supplier manufacturing location shipping the component
- Date of shipment
- Delivery address
- Purchase Order and line item/release number
- Part number and revision number
- Product nomenclature
- Quantity of product shipped
- Traceability information including, serial numbers, lot numbers, etc.
- MSD nonconformance number when applicable
- Statement confirming compliance with Purchase Order and Technical requirements
- Signature from Supplier's authorized personnel to release shipment to MSD

For Age-Sensitive or shelf-life products, including cured and uncured products, with a design or contract defined shelf life, the Certificate of Conformance shall also include:

- Traceability information including material batch numbers
- Cure date or date of manufacture
- Shelf life or expiration date

Note: Product must have 75% remaining shelf life when received by MSD unless authorized by the Buyer's Authorized Representative

Raw Material (Mill) Certificates of Conformance shall be traceable to the OEM, and shall also include:

- Chemical composition including base elements and percentages
- Traceability information including batch, heat or cast numbers as applicable

- Results of applicable mechanical testing and physical analysis in accordance with technical requirements

Special Process Certificates of Conformance shall also include:

- The process(s) performed including all controlling specifications and revision levels
- The special process supplier's NADCAP cert. # if applicable
- Applicable test results

Note: For a list of what is considered a Special Process by MSD, refer to section 8.5.1.2 of [AS9100](#)

By furnishing these certifications, Supplier represents that they are the manufacturer, or duly authorized distributor or agent for the manufacturer of the product. Certifications must be from the OEM of the product or process.

Parts being returned after previously being RTV'd shall include reference to the MSD nonconformance document and actions taken to resolve the nonconformance.

## 100.2 Certification Requirements for OSP Parts

A full certification package is not required for MSD furnished equipment provided for a specific OSP job. The supplier shall only provide certification for the work being performed.

**Certification Requirements Table 2 - Group SPOC's 001 through 010**

Group SPOC Certification Requirements: P= Send in with every Lot Shipment. FAI = Send in with Lot Shipment.	QSP-7.4.2.2.1	Raw Metal Materials	Machined Metal	Metal Casting	Metal: Formed, Processed, Mechanical & Sub-Assemblies	Metal Components, Wood, Plastic, COT's	Raw Plastic Materials & Plastic Parts	Elastomeric	Metallic & Non-Metallic Identification Tags	Shipping & Assembly	Electrical, Electronic Components, PWB & RPWB
		SPOC 001	SPOC 002	SPOC 003	SPOC 004	SPOC 005	SPOC 006	SPOC 007	SPOC 008	SPOC 009	SPOC 010
Requirements											
Supplier Name & Address	Documentation Required Every Shipment	P	P	P	P	P	P	P	P	P	P
Eaton P.O. or Customer P.O. or Part Number sufficient to trace material to what was ordered.		P	P	P	P	P	P	P	P	P	P
Material Certification traceable to the Original Manufacturer (OEM)		P	P	P	P		P	P	P	P	
Signed Certificate of Conformance (CofC) from supplier's quality representative.		P	P	P	P	P	P	P	P	P	P
Test Reports / Functional Test when called out on drawing.					P						P
Special Process certifications i.e.: Heat Treat, Chemical Processing etc.		P	P	P	P	P					
Material Age/Shelf Life when called out on drawing or specification. SPOC 220.					P		P				
NADCAP Reporting when required on PO, SPOC 240.			P	P	P			P			

Chemicals & Gases											
Source Control Qualified Product List (QPL); Specified Source when called out on drawing.	Documentation Required for every FAI Shipment, follow up records must be maintained per T & C's	FAI	FAI	FAI	FAI		FAI	FAI	FAI		
Heat Treat Certifications when called out on drawing.		FAI	FAI		FAI						
Finish Treatments, Passivate, Plating, etc. When called out on drawing.			FAI	FAI	FAI				FAI		
Test Reports / Functional Test when called out on drawing. Spoc 190.					FAI						
First Article Inspection Reports, SPOC 150.			FAI	FAI	FAI		FAI	FAI	FAI		
Durometer Readings when called out on print or PO, SPOC 510.								FAI			
Burn Certification when called out on drawing.							FAI		FAI		

**Certification Requirements Table 2 - Group SPOC's 011 through 021**

Requirements	QSP-7.4.2.2.1	Soft Goods	Electrical Assemblies & Deliverable Software & Firmware	Calibrated Test Equipment & Tooling	Chemicals	Overhaul & Repair	Service Provider	Tooling Supplies	Safety	Specialty Products	Explosives	Vendor Owned Drawings, Vendor part numbers
		SPOC 011	SPOC 012	SPOC 013	SPOC 014	SPOC 015	SPOC 016	SPOC 017	SPOC 018	SPOC 019	SPOC 020	SPOC 021
Group SPOC Certification Requirements: P= Send in with every Lot Shipment. FAI = Send in with Lot Shipment.												
Supplier Name & Address	Documentation Required Every Shipment	P	P	P	P	P	P	P	P	P	P	P
Eaton P.O. or Customer P.O. or Part Number sufficient to trace material to what was ordered.		P	P	P	P	P	P	P	P	P	P	P
Material Certification traceable to the Original Manufacturer (OEM)		P			P	P			P	P	P	
Signed Certificate of Conformance (CofC) from supplier's quality representative.		P	P	P	P	P	P	P	P	P	P	P
Test Reports / Functional Test when called out on drawing.			P	P	P	P				P		P
Material Age/Shelf Life when called out on drawing or specification. SPOC 220.			P		P	P				P		P
NADCAP Reporting when required on PO, SPOC 240.			P			P				P		
Explosives Reporting SPOC 500 when called out on drawing.												
Chemicals & Gases					P							
Source Control Qualified Product List (QPL); Specified Source when called out on drawing.	Documentation Required for every FAI	FAI	FAI		FAI		FAI			FAI	FAI	
Heat Treat Certifications when called out on drawing.						P						

Finish Treatments, Passivate, Plating, etc. When called out on drawing.			FAI			P						
First Article Inspection Reports, SPOC 150.						P						
Durometer Readings when called out on print or PO, SPOC 510.						P						
Burn Certification when called out on drawing.												

*Supplier is required to keep all certs and / or objective evidence on file for a period defined by Eaton's terms and conditions even if the requirement to attach the certs is waived.*

#### Notes AA:

- 1) Vendor Owned Drawings - Components / assemblies do not require a signed C of C; however, must have a valid packing slip matching the physical parts / assembly. Parts can be checked to Vendor Drawing.
- 2) If SPOC 170 is on the PO, then all documentation is required to be sent in with each shipment.
- 3) Eaton furnished material does not require duplicate certs from another supplier performing value add work. Material shipped from Eaton should have documentation on file.

*Supplier is required to keep all certs and / or objective evidence on file for a period defined by Eaton's terms and conditions even if the requirement to attach the certs is waived.*

### **100.3 Buy Back of Parts**

In reference to Table 2 – Certification Requirements: Parts that are returned from suppliers that were originally purchased by Eaton or components purchased by the supplier authorized through an Eaton PO do not require a C of C; however, must be checked to assure the parts returned match the label or trace documentation prior to returning to stock. Typically, these parts originated from the OEM or authorized representative.

### **SPOC 110– Notification, Containment, and Corrective Action of Nonconforming Material**

Material that departs from drawing, specification or maintenance requirements (nonconforming) will be identified, segregated and controlled to prevent unauthorized use or delivery to Eaton or other designated destinations. The Supplier will provide prompt notification to the Eaton Buyer's Authorized Representative, and written notification on Supplier letterhead to both the Eaton Buyer's Authorized Representative and site Supplier Quality Manager if a nonconforming product or process is identified or an external corrective action is received related to Eaton purchase orders after shipment to Eaton has taken place.

### **110.1 Material Review Authority: Material Review Board (MRB)**

The Supplier will not exercise Material Review authority without written approval by Eaton's Quality Organization. This applies to material that is Eaton designed and/or designs controlled to Eaton specifications or other OEM designed hardware. Action will not be taken on any nonconformance which could affect safety of personnel; adversely affect performance, durability, interchangeability or reliability; materially affect weight; or otherwise result in failure of the end article to perform its intended function (form, fit, and function). All doubtful cases will be submitted to Eaton's Material Review Board by contacting the Buyer's Authorized Representative. Eaton reserves the right to reject the decision of the Supplier Material Review Board (MRB).



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**INSTRUCTION: QSP-7.4.2.2.1**

**Rev W**

Page

**Title: Purchase Order Requirements**

52 of 112

Owner/Author: Kyle Weber

Effective Date: 13-May-2024

Accountable: VP of Quality Assurance

Original Date: 10-Feb-2016

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			53 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

## 110.2 Requests for Material Review Action / Deviation Waiver

The Supplier may request consideration for nonconforming material that cannot be reworked to fully conform to drawing or purchase order requirements. Request for Material Review Board (aka Deviation Waiver Request SPOC 500) will be submitted on the appropriate nonconforming material document (e.g., SPOC 500 – Request for Material Review Board (aka Deviation Waiver Request)) or equivalent as applicable to the Eaton site. Nonconforming articles will be retained by the Supplier until the completed, dispositioned and approved Material Review document is returned to the Supplier. The signed off Request for Material Review Board (aka Deviation Waiver Request) **must accompany** the parts physically. Eaton reserves the right to subtract monies from the purchase order or debit the Supplier, for Eaton incurred costs related to the Supplier responsible for the Request for Material Review Board (aka Deviation Waiver Request SPOC 500) actions.

## 110.3 Material Discovered Nonconforming after Shipment

The supplier shall notify the Buyer of nonconforming processes, products, or services and obtain approval for their disposition.

The Supplier will notify within 24 hours Buyer's Authorized Representative and V.P Quality when nonconforming product has been shipped. The notification will include part numbers, design activity CAGE code or CDA code, traceability (lot, serial and manufacturer numbers), ship dates, quantities, and a description of the nonconformance.

This applies to any nonconformance that departs from drawing, specifications, aftermarket maintenance technical data or purchase order requirements. The Supplier will contact the Eaton Buyer's Authorized Representative promptly and send written notification to the Eaton Buyer's Authorized Representative, and the Quality Assurance Management at the Eaton site.

## 110.4 Containment of Nonconforming Material

When a nonconformance is discovered, or the Supplier is notified of a discrepancy, the Supplier must take immediate action to determine if the condition exists on any other work-in-process, in Stores at the Supplier's facility, or in prior shipments. Containment action must be taken and documented prior to the next shipment of the part number involved. Containment activities taken and/or planned will be communicated to the Eaton Aerospace site within 24 hours when formally requested through Quality Notification of discovery of a nonconforming shipment. The Supplier will not wait for the discrepant hardware to be returned to begin an investigation.

## 110.5 Corrective Action

The Supplier is responsible for prompt replies to Eaton requests for information on nonconforming conditions and completing a Supplier Corrective Action Report within 30 days of the date of the initial report unless otherwise agreed upon in writing.

Supplier Corrective Actions can be initiated for:

- On Time Delivery continually falling below required level of 98%.
- Quality continually falling below the requirement of 99%.
- On-Site audit findings by an Eaton auditor.
- Scoring above acceptable levels on the Risk Analysis Table in SCSP-741.
- Other concerns that might arise doing business with a supplier.

The Supplier Development Group will initiate and send the Supplier Corrective Action Report to the suppliers, the suppliers will then have 30 days to complete and return the report with all relevant objective evidence to the person who they originally received it from. The Supplier Development Group will review the report and the objective evidence and determine if is acceptable or if it needs to be returned to the supplier for further root cause investigation.

### 110.6 Request for Reversals

Nonconformance's identified as the Supplier's Responsibility are documented on the Supplier Scorecard. If the Supplier's investigation of the nonconformance concludes that the nonconformance should not be charged as the Supplier's Responsibility, then a request to reverse the responsibility must be submitted by the Supplier within 30 days of score card notification. Any nonconformance listing on a Supplier's Scorecard constitutes notification whether or not the part is returned. Requests for reversal submitted later than 90 days after nonconformance notification may not receive consideration from the Eaton site.

### 110.7 Return Purchase Orders for Replacement, Reworked or Repaired Parts

Any part being supplied to Eaton on a return purchase order must either fully comply with all applicable drawing requirements or have Eaton MRB written approval for any repairs. Under no circumstances are parts known to be used or overhauled to be sent as a replacement for an OEM part. For parts that cannot be reworked to full drawing compliance economically or where repair authorization will not be granted, parts are to be scrapped at the Suppliers' facility. Supplier will contact the Eaton Purchasing agent prior to scrapping the parts, Eaton reserves the right to witness the scrapping activity.

PARTS RETURNED TO THE SUPPLIER UNDER THIS ORDER FOR REWORK/REPAIR WILL BE ACCOMPANIED BY PROOF OF SUPPLIER'S INSPECTION ACCEPTANCE WHEN RESUBMITTED TO BUYER. WHEN NO FAULT IS FOUND BY THE SUPPLIER FOR NON-CONFORMING PRODUCT(S), THE ORDER WILL BE ACCOMPANIED BY PROOF OF SUPPLIER'S TEST DATA AND INSPECTION ACCEPTANCE. RESUBMITTED PARTS WILL ALSO BE ACCOMPANIED BY A COPY OF OR REFERENCE TO THE APPLICABLE BUYER NONCONFORMANCE DOCUMENT(S). Buyer requires that the provisions/requirements set forth above be included in Supplier's direct supply contracts as well as the obligation that they be flowed to the sub-tier supply chain. For purposes of this note, Supply Chain means Seller's direct network of suppliers providing material, equipment, information, and services integrated into products and services.

### 110.8 Failure Reporting

Eaton reserves the right to request failure analysis on nonconforming product submitted from the Supplier. Upon request, the Supplier will submit failure analysis, a short term customer escape prevention plan, and a permanent corrective action plan, focusing on the root cause of the discrepancy. Reports will be submitted



<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			55 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

within 30 calendar days of request unless otherwise specified. Eaton reserves the right to issue a Supplier Corrective Action Request (SCAR) in addition to a (NC) for system quality management failures.

## SPOC 120 – Eye Examinations

Suppliers that are certified by Eaton as a Designated Supplier Quality Representatives (DSQR) Supplier (SPOC 9999), earning preferred Supplier status, must have their DSQRs pass an eye examination. The records of the eye examinations will be maintained by the Supplier and made available upon request by Eaton.

DSQR certified Individuals who inspect material for final acceptance must have:

- 1) Color Vision Eye Examination every 36 months.
- 2) Near-Vision Eye Examination every 36 months.
- 3) Individual(s) must meet the minimum standards in one eye, corrected with or without glasses.

### Color Vision Tester

Examples of acceptable testing methods include: Pseudo Chromatic plates, Dvorine, Ishihara, Richmond, Farnsworth lantern, Keystone Orthoscope, Titmus vision tester, Titmus II Vision Tester, Titmus 2 Vision Tester. There are standard definitions of what is a pass/fail on these tests that should be followed.

### Near-Vision Eye Examination

Examples of acceptable testing methods include: Snellen 14/18 or better, 20/25 or better, Jaeger type 1, Ortho-Rated 8 or equivalent method.

A medical professional must perform the eye examinations (eye clinic, occupational health clinic, onsite health clinic or medical department).

### NDT Requirements

Near-Vision Eye Examination requirements for persons performing Nital / Temper Etch will be Jaeger type 2 – 20/30 or equivalent. For Inspectors certified to the requirements of NAS410 (NDT) or Mil-STD-867 (Nital / Temper Etch), and for personnel performing visual inspection of welds, Suppliers may administer their own eye examinations per the standard.

## SPOC 130 Commercial off the Shelf Parts and Products (COTS)

Unless specifically called out on a purchase order, customer document, or engineering released drawing, components and parts designated as COTS do not require certifications or a signed C of C to be sent in at time of shipment, but certification for manufactured COTS must be made available upon request by Eaton. COTS items are typically commercially available products and are typically dock to stock. Examples are bolts, nuts, rivets, washers, spacers, cutting tools, non-specially designed tooling, paper products, software like Microsoft office, etc.

### 130.1 Parts and Products Requiring a Mil Standard

Parts or Products that are designated on a drawing with a Mil Spec or on a Qualified Products List (QPL) MUST have a certification stating the parts or products meet the specific requirement sent in with every shipment.

## SPOC 140 Key Characteristics Management

Key Characteristics (KC) for a part, subassembly or system are selected geometrical, material properties, functional design, and/or cosmetic features which are measurable, whose variation control is necessary in meeting Customer requirements and enhancing Customer Satisfaction.

When drawings call out “key Characteristics per SP436125” then the supplier is to comply with requirements outlined in AS/EN/SJAC 9103. The AS 9103 is an Aerospace standard designed to drive improvement of manufacturing processes through effective management of key characteristic variation. The key characteristic focus is intended to improve confidence for specified part features whose variation has a significant influence on end product form, fit, function, and service life.

## 140.1 Drawing key Characteristic Notes

Drawings will have notes on them indicating the key characteristic level per Eaton SP436125.

D	26.	.040 +/- .004 THICKNESS, 2024-T3 BARE SHEET PER AM PHOSPHORIC ANODIZE PER BAC5555 AND APPLY BR6747-1 CAGE CODE: 1KU10; ENGINEERING MATERIAL ITEM NUMBE BAC5514-5137 ALL OVER.
	27.	CRITICAL CHARACTERISTIC PER SP436125.

- **Critical characteristic drawing note.** Critical characteristics shall be identified on the Engineering Drawing by a note symbol. The accompanying note shall read, "Critical Characteristic per SP436125."
- **Major characteristic drawing note.** Major characteristics shall be identified on the Engineering Drawing by a note symbol. The accompanying note shall read, "Major Characteristic per SP436125."
- **Minor characteristic drawing note.** If critical or major characteristics are not required on the Engineering Drawing, a note shall be added that reads, "Characteristics have been deemed Minor per SP436125."
- **Note symbols.** When more than one feature is attached to a leader line, the note symbol shall be located to the left or right of each feature, note, geometric characteristic, etc., which has been identified as major or critical. Note symbols for single features shall be located within the proximity of the feature.
- **Critical Safety Item (CSI).** Critical safety items shall be identified on the engineering drawing by symbol(s) per Y14.100. A critical characteristic note symbol shall be assigned to identify CSI status.

## 140.2 Examples of Measurable Key Characteristic

Characteristics shall be selected based upon the specific function of the part or subassembly. Determining factors shall be the product’s fit, performance, service life, and manufacturability. Critical and major characteristics shall be identified on the appropriate drawing. If Characteristics are not identified as critical or major, they shall be considered minor and shall not be identified on the drawing.

### **Definitions of Characteristics**

**Critical Characteristic:** A characteristic which, through judgment and experience, indicates that if not maintained in accordance with drawing specifications, would cause an unsafe condition; or a characteristic which is essential to the function of the end product.

**Major Characteristic:** Any dimension, tolerance, finish, or material; any installation, assembly, manufacturing, or inspection process; or any other characteristic which, if not in conformance with drawing specifications, would affect fit, form, or function of the end item.

**Minor Characteristic:** These are characteristics other than critical or major which, if not maintained in accordance with drawing specifications, would not reduce the suitability of the product and would have no adverse effect on safety. Such characteristics may be important for correct assembly but does not impact function.

**Mechanical parts.** The following list of potential critical or major characteristics is not intended to be all inclusive. Eaton shall consider dimensional, functional, process, and other features when selecting characteristics.

- Dimensional features:
- Bearing journal diameters
- Pilot diameters
- Press fit diameters in structural lugs
- Seal ride surfaces
- Valve seat diameters
- Functional features:
- Balance data/shaft concentricity
- Presence of lubrication holes not readily obvious
- Features affecting end item interchangeability
- Valve geometric tolerance
- Processing features:
- Heat treat surface temper
- Surface treatments
- Surface finish
- Structural adhesive bonding
- Oxygen Cleanliness
- Deburring

**Electrical/electronic parts or systems.** The following list of potential critical or major characteristics is not intended to be all-inclusive. Eaton shall consider dimensional, functional, process, and other features when selecting characteristics.

- Relay or power contact device
- Operate and release time
- Contact transfer time
- Contact voltage drop at full load
- Coil pull-in voltage
- Electronic power supply
- Output voltage overload range
- Output voltage over range of input voltage
- Output voltage over control range
- Output waveform/ripple

- Input current waveform
- Efficiency
- Output of monitoring circuits
- Case grounding resistance

**Lamp/lighted panel**

- Output light intensity at specific power conditions
- Output light intensity over control range
- Output light chromaticity or spectral power density
- Output light spatial distribution
- Lighting contrast ratio and uniformity

**Amplifier**

- Transfer characteristics including gain and phase margins
- Bandwidth at specified signal amplitude
- Dynamic range
- Efficiency/power dissipation

**Circuit breaker or power controller**

- Time to trip at specified load currents
- Response to control inputs (mechanical or electrical)
- Output of status indications (if applicable)
- Off-state output indications (if applicable)
- Off-state output voltage (if applicable)

### 140.3 Key Characteristic Supplier Data Collection

Suppliers are required to establish and use a Statistical Process Control System to collect and monitor key characteristic performance data during the manufacturing process. Eaton will collect and assess key characteristic data by contacting the supplier. Transmission of specific key characteristic data is expected to be provided by the supplier within 48 hours or 2 business days.

### SPOC 150 – First Article Inspection (FAI) Requirements

The Supplier holding the Eaton Purchase Order is responsible for assuring completion of the First Article Inspection Report (FAI) per AS9102 and this SPOC (See Spoc 50.50 for “-S” Requirement) for all Eaton design characteristics generated by the Supplier or their sub-tiers. The FAI requirement applies to each bill of material or parts list item with an Eaton part number that is invoked in the product design, including lower-level Eaton detailed drawings identified on top level assembly drawing(s), and each cavity or tool serial number for products whose dimensions are controlled by the tool. FAIs may be required on Customer or Supplier Drawings that are non-Eaton designs or CAGE codes if specified on the Purchase Order. **Eaton or Customer FAI approval does not relieve the Supplier of the responsibility and/or liability for full compliance with all contract requirements.** The following items are exempt from the requirements of this SPOC or Identify Eaton Site Specific Requirements:

- a) Bar and sheet stock.

- b) Unaltered material consigned by or purchased from Eaton Aerospace or its authorized distributors.
- c) Eaton vendor item. While these drawings do not require a detailed FAI, they will be documented on form 1 of AS9102 for all assemblies and/or lower level FAIs where they form part of the top-level assembly part number.
- d) Discrepant hardware either returned to the manufacturing Supplier or sent to an alternate Supplier and disposition rework or repair.
- e) Nonfunctional hardware (protective covers, shipping hardware, COTs, etc.), unless otherwise specified.
- f) Unless otherwise specified, catalog and COTS parts do not require a FAI.

## 150.1 First Article Requirements

The Supplier will meet the requirements specified in AS 9102. **Table 3 First Article Inspection Report** below summarizes the FAI requirements and when an FAI is required. When the drawing calls out what Supplier to use then as part of the first article shipment the Supplier must send proof that the specified source Supplier was used. This proof must be shipped to Eaton with the first article inspection reports. **Example:** documentation from the source Supplier; copy of PO, Receipt from source Supplier, etc. Follow-on production after the completion of a successful FAI does not need another FAI unless one of the conditions in table 3 is invoked. (Table 3 follows on the next page).

**FIRST ARTICLE INSPECTION REPORT (TABLE 3)**

OCCURRENCE	FAIR TYPE REQUIRED	CUSTOMER FAIR REVIEW REQUIRED	REQUIRED FORMS**	NOTES
First Production Run New Base Part Number First Receipt from a Supplier	Full	Full	AS9102 Form 1 Form 2 Form 3	Partial on Base Line number if all characteristics were conforming on previous FAIR*
Design/Program change that could affect the characteristics Fit, Form or Function	Full	Full	AS9102 Form 1 Form 2 Form 3	
Change in Process/Manufacturing; Source, Inspection Method, Tooling, Material, Supplier/Manufacture Location	Full	Full	AS9102 Form 1 Form 2 Form 3	
Changes that invalidate original results; Engineering, Manufacturing, Tooling, etc.	Full	Full	AS9102 Form 1 Form 2 Form 3	
A Revision to a Print/Drawing	Partial	Partial	AS9102 Form 1 Form 2 Form 3	Depending on revision*
Assemblies	Full	Full	AS9102 Form 1 Form 2 Form 3	Partial depending on which items are affected*
Lapse in production for 2 or more years	Full	Full	AS9102 Form 1 Form 2 Form 3	

Nonconformance/Corrective Action	Partial	Partial	AS9102 Form 1 Form 2 Form 3	CAR/FAIR on all affected characteristics on the next production run*
Upon Customer Request	Full	Full	AS9102 Form 1 Form 2 Form 3	This could be a partial depending on the request by the customer*

\*Contact Eaton Supplier Development Group.

\*\* Bubble Print with all characteristics numbered and recorded on AS9102 Form 3 or equivalent required.

The following forms or their equivalent must be used when a performing First Article Inspection report:

AS9102 Form 1 – Part Number Accountability.

AS9102 Form 2 – Product Accountability, Materials, Special Processes and Functional Testing.

AS9102 Form 3 – Characteristics Accountability, Verification and Compatibility Evaluation.

First Article Inspections IAW latest revision in effect of SAE AS9102 must be performed and conducted on a sample part representative of the first production run. This will apply to final assemblies, subassemblies and individual parts manufactured or assembled to a specific drawing. Results of the FAI must be completed and signed by the Supplier's quality representative and provided to Eaton concurrent with the parts. Each FAI must include a "bubbled" drawing identifying the location of all characteristics referenced on Form 3.

## 150.2 Periodic/Repeat FAIs

Eaton reserves the right to exercise the requirement of additional and/or periodic/repeat FAI requirement on a part number basis to assure continued product conformity. Also, Eaton reserves the right to validate multiple production lots if needed to determine overall process capability. FAI requirements are outlined in Table 3.

## 150.3 Additional FAI Requirements

For United States-initiated Purchase Orders, when a first time FAI is being conducted by a Supplier located outside of the United States, the Supplier will notify the Eaton Buyer's Authorized Representative to assure that proper notification is made to the FAA prior to FAI completion. The 1st tier Supplier holding the Eaton Purchase Order will have the responsibility of assuring hardware manufactured internally and/or procured from their Suppliers are maintained and are in compliance with the Two Year (2) lapse in production requirement in accordance with AS9102. Evidence of continued manufacturing may be requested by Eaton either at the 1<sup>st</sup> tier Purchase Order Holders facility or at their sub-tier Suppliers as applicable.

## 150.4 Approvals

When an FAI is required per Table 3, an Eaton Quality Engineer (or an Eaton-delegated authorized agent) is required to review FAIs prior to hardware release from Eaton Receiving Inspection. A listing of Quality Engineer contacts will be made available to Suppliers to address questions associated with the FAI process or technical requirements.

## 150.5 Documentation and Records

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			61 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

Eaton will send an acknowledgement of acceptance for the FAI when it is approved to the supplier, and this will be retained by the Supplier with the FAI documentation. For FAIs that do not require customer review the Supplier-approved AS9102 forms will be retained. All documents used to support the review and approval of an FAI are considered part of the FAI package and will be retained by the Supplier per Quality Records defined in Section 1 (see Eaton Terms and Conditions for record retention requirements). Retention of FAI Records  
Exception: FAI records may not be discarded as long as active shipments of the respective product are being made with ties /accountability back to that specific FAI record. Eaton reserves the right to request the FAI package at any time. When requested, the Supplier will ensure that FAI documentation is provided within 48 hours for USA, Canada, Mexico or UK and 5 business days outside of USA, Canada, Mexico or UK. FAIs will be compliant with AS9102.

### 150.6 First Article Forms and Instructions

The Supplier may use the forms in the AS 9102 specification or they can use **their equivalent** forms. Contact the Buyer's Authorized Representative or the Quality Department to obtain the electronic version of **buyer's** FAI form numbers 1, 2, and 3.

### SPOC 160 Castings Tooling Control

Castings Tool Life Management Control will require inspections and refurbishment based upon the volume of "shots" indicated in table 4 below, (This is a guide, and the Supplier may find they have to inspect these items more frequently). Additionally, frequency of **FAI** is based on the number of production pieces since the last approved FAI. The Supplier will assure that all table 4 conditions have been satisfied prior to usage of the Casting Tool. Frequencies are, at a minimum, tracked by the Supplier / Manufacturer and do not relieve the Supplier of the responsibility / liability to meet the drawing and/or authorized deviation. The Supplier is required to establish and maintain written procedures to assure compliance with these frequencies.



Table 4			
Check	Item Description	Suggested Frequency ( Shots)	Check For Items
	Visually Inspect Fixture Condition	Each Set Up	Overall operation and appearance of tool
	Check First Parts - after Shot 1	Each Run	Check part conforms to process key characteristics
	Leader Pins:	10,000	bent, damaged, loose bolts.
	Leader Pin Bushings:	10,000	damaged, missing, loose.
	Ejector Pins:	10,000	bent, damaged, loose nuts, correct setting per process sheet, excessive wear/roundness, aluminum buildup
	Ejector Sleeves:	10,000	damaged, worn, loose, correct setting, loose nuts.
	Metal Cores:	50,000	bent, damaged, buildup, undersized/undercuts.
	Parting Line Surface:	50,000	remove buildup, flash, nicks.
	Casting Cavity Surface:	50,000	check for damage, cracks, chips, buildup, undercuts.
	Mounts Plate Bolts:	50,000	checking tightness, missing bolts.
	Pour Cups/Angle Plates:	50,000	flush with parting line, loose bolts, undercuts.
	Ejector Plate:	50,000	free operation, loose carrier bolts, head of return pins flush with/below surface.
	Mount Rail:	50,000	loose bolts, missing bolts, damage.
	Vents:	50,000	open, flush/depressed per process sheet, damage.
	Core Prints/Vents:	50,000	remove trash, buildup, check damage.
	Perform Complete Product FAI	50,000	Visually Checked Last Shot for Other Defects.
	Complete Inspection and Tool Refurbishment	250,000	Break Down Tool, Repair / Replace / Refurnish

## SPOC 170 Certification Documentation Required

If SPOC 170 is called out on the purchase order, then all the certification documentation called out in SPOC 100 TABLE 2 (P and FAI) must be included with each lot shipped.

## SPOC 180 Shipping Containers

Wooden, Plastic Bags, Anti-static Bags, Pressure seal Polyethylene, Metal or Composite Shipping Containers, Pallets and Specific Product Containers received for shipment of product from Eaton must pass kind, count and condition when applicable.

## SPOC 190 – Acceptance Test Procedure (ATP) Approval Requirements

Where required by Eaton Engineering Drawing or Procurement Specification, ATP, or Test Requirements Document, the Supplier will submit the test results and test characteristics with lot shipment. Eaton Engineering may, at their discretion, approve test documents and plans containing less information than required by this SPOC. In such cases, those documents will take precedence over the requirements of this SPOC. These documents must be signed by the approving Eaton Engineer.

## 190.1 Typical Test Process Attributes and Test Data Sheet Requirements

The scope of the test requirements will determine what information is needed with the shipment. If clarification is required, then contact the Eaton Buyer's Authorized Representative or Quality Engineer.

- a) Supplier Acceptance Test Procedures (SATP)
- b) Qualification Test Procedures (QTP)
- c) Lot Acceptance Test Procedures (LATP)
- d) Functional Test Procedures (FTP)

**190.1.1** Test Data Sheets will be enclosed in a data sheet envelope and attached to each individual unit. Each ATP data sheet will include the following:

- a) Supplier name and address.
- b) Purchase Order Number.
- c) Date of testing, start and completion.
- d) Signature or stamp of individual performing the test.
- e) Eaton assigned Supplier code (if applicable).
- f) Test procedure specification document number, date, and revision letter.
- g) Eaton assembly part number, including the dash number.
- h) List actual quantitative test results, when applicable. Minimum and maximum test limits.
- i) Test reports must be certified and signed by a member of the Supplier's quality organization with his title being indicated.
- j) In those cases where test reports from the Supplier's outside testing laboratory are being furnished, the Supplier will co-sign. The co-signer must be a responsible member of the Supplier's quality organization with his title being indicated.
- k) Any variation from the requirements stated will require written approval from Eaton's Quality Engineering Department.
- l) Test Equipment used will be calibration controlled in accordance with MIL-STD-45662A, or ANSI/NCCL Z540-1-1994, or ISO 10012-1, whether used in the Supplier's plant or at another source.
- m) Any serial number of the unit tested, such that the result for each serial number is known.
- n) The Supplier will maintain documentation that demonstrates the adequacy of the testing procedure. The documents will be stored at the Supplier facility for a period defined by Eaton's terms and conditions.

## **190.2 Data Submittal for Supplier Developed Test Procedure**

The Supplier will submit a copy of the proposed test procedure to the Eaton Buyer's Authorized Representative, who will forward it to the appropriate Engineering or Quality group for review and approval. Test plans, data sheet format and contents are subject to Eaton approval prior to manufacture and shipment of production parts. The document must be submitted 60 days prior to scheduled delivery of production or development articles. Shipments will not be made until this approval has been obtained. Objective evidence of Eaton approval will be maintained by the Supplier.

## **190.3 Change Control**

Changes to an Eaton approved Test Procedures require re-approval prior to implementation, and the changes may not be incorporated until receipt of written approval from Eaton. Test procedures that have been approved with comments may be corrected at the next required revision.

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			64 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

Note: Eaton approval of the Supplier Test Procedures does not relieve the Supplier of the responsibility for determining that the product complies with the requirements of the Purchase Order, engineering drawings, and applicable specifications.

## **SPOC 200 – Software Quality Assurance: Quality Management Systems – Requirements for Aviation, Space and Defense Organizations – Deliverable Software**

The Supplier and sub-tiers will comply with the appropriate revision AS 9115, Aerospace Deliverable Software. Any software, including non-deliverable software, used to create or revise Deliverable Software will be categorized as Deliverable Software.

## **SPOC 210 – Control of Items with Limited Shelf-Life**

This SPOC covers the certification and shipment requirements of items that require shelf-life control of uncured compounds and storage life control of cured elastomers. The items include:

- Uncured compounds (for example: paint, adhesives, curing agents, primers, varnishes, elastomeric molding compounds, pressure sensitive adhesives, Prepregs, sealants, inks etc.). Items such as tapes and labels which have pressure sensitive adhesive back are categorized under uncured compound.
- Cured Elastomers (for example: O-rings, gaskets, plate seals, molded shapes etc.)
- The Supplier will furnish with each shipment the compound number of the material from which the items were manufactured.
- Compound information will be packaged with each shipment against the Purchase Order.

### **210.1 Definitions**

**Shelf Life:** For uncured compounds - the maximum period of time that the uncured compounds may be stored under the manufacturer's recommended storage condition and remain suitable for use.

**Storage Life:** For cured elastomers - the maximum period of time that the appropriate packaged cured elastomers may be stored under specific conditions, after which time it is regarded as unserviceable for the purposes for which it was originally manufactured. The time of manufacture is the time of cure for thermoset elastomers or the time of conversion into a finished product for thermoplastic elastomers.

### **210.2 System for Shelf Life and Storage Life Control**

Unless otherwise specified, shelf life is to be as recommended in SAE AS1933, SAE ARP5316, or MIL-HDBK-695 as applicable. The Supplier will maintain a documented system for storing and controlling uncured compounds with limited shelf-life and age-sensitive cured elastomers. The system will include a method of identifying and controlling such items.

### **210.3 Cure Date Identification for Storage Life Controlled Elastomers**

Elastomeric parts will be identified by marking the cure date on the part or container. Cure date information will be packaged with each lot shipped, indicating either the applicable quarter of year digit, letter "Q", and terminated with the last two digits of the applicable year (example: Items cured in June 2014 would be cure-date marked "2Q14"), or the actual date of cure. When the Supplier is the manufacturer or distributor of the item on order, the maximum age of the item or items for assemblies will not exceed 24 months from cure date to date of receipt by Eaton.

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			65 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

## 210.4 Certification Requirements

When shipping shelf-life controlled compounds and storage-life controlled elastomers, the Supplier will include the following additional information on the Certification of Conformance:

- Date of manufacture for shelf-life controlled compounds
- Cure date (QQ/YY) for storage-life controlled elastomers
- Shelf-life expiration date (MMYY) for shelf-life controlled compounds or storage-life controlled elastomers
- Batch and or lot number as applicable
- Date of shipment
- Manufacturer's name

## 210.5 Shelf Life of Uncured Compounds Shipped to Eaton

On the shipment date, the item must have 50% or greater shelf life remaining for distributors and 75% or greater shelf life for OEMs unless approved by the procuring site. Where no shelf-life information is available consult the procuring Eaton site for direction. All lots must be segregated and identified to maintain batch and/or lot number and cure date.

## 210.6 Shelf Life of Cured Elastomers Shipped to Eaton

On the shipment date, unless otherwise specified or required by drawing or specification, elastomers which have a storage life control in accordance with ARP5316 for elastomer seals must have 50% or greater storage life remaining. Elastomeric hoses which have a storage life control in accordance with AS1933 must have 75% or greater storage life remaining. Where no storage life information is available consult the procuring Eaton site for direction. All separate lots and/or batches of shelf-life controlled elastomers will be segregated and identified to maintain lot and/or batch number and cure date.

## 210.7 Bearing Lubrication

Unless otherwise required by specification: Bearings that are lubricated for use will be shipped to Eaton less than 18 months from the lube application date. Bearings lubricated with preservative compounds will be inspected for corrosion prior to shipping if more than 5 years from the application date.

## 210.8 Shelf Life of Compounds Applied to Products

The Supplier will maintain a documented system for identification and control of limited shelf-life compounds so compounds that have expired shelf life will not be used on product being produced for shipment to Eaton.

## 210.9 Limited Calendar life Material on Assembly

Mil-HDBK-695, SAE-AS1933, SAE-ARP5316 apply in general and as modified herein and/or by applicable drawing/specification. The Supplier will physically mark each assembly with the cure date/shelf life of the oldest elastomeric component installed in the assembly. Unless otherwise specified, when assemblies are received the minimum remaining shelf life for the oldest elastomeric component and the entire assembly will be 32 quarters. The assembly date will also be marked on the assembly. All markings must be legible.

## **SPOC 220 – Repair and Overhaul Maintenance Requirements**

National Aviation Authority (NAA) Certification (local and/or international regulatory agency) and/or AS9100 or AS9110 compliance are required for Suppliers and sub-tier Suppliers performing maintenance. AC7004 Aerospace Quality System will be accepted in lieu of SAE AS9100 for Suppliers only conducting Special Process services accredited by Nadcap. Additional regulatory approvals may be requested and reflected on the Purchase Order (PO). AS9100 and/or AS9110 certification will be required for Eaton Aftermarket Suppliers that do not hold a National Aviation Authority (local and/or international regulatory agency) Repair Station certificate. Suppliers performing Special Processes / Services:

- a) Suppliers holding a National Aviation Authority (NAA) Repair Station Certificate must have the appropriate ratings listed on the NAA Air Agency certificate Operations Specifications.
- b) Suppliers that do not hold a National Aviation Authority (NAA) appropriate ratings will be identified on the Eaton Approved Supplier List (ASL).
- c) Suppliers that perform special process that do not hold regulatory or are not listed on the Eaton ASL will be assessed by the procuring site as defined in Eaton Aerospace Procedures. Suppliers performing Special Processing / Services on Military material will be assessed as defined by Eaton Procedures and approved by the procuring site.

### **220.1 Drug and Alcohol Testing Program**

All safety sensitive functions (product maintenance and/or preventive maintenance) performed on Eaton purchase orders will be accomplished by personnel covered by a FAA compliant Drug and Alcohol Testing Program if performed within the United States and its Territories. This is pursuant to 14 CFR Part 120 Drug and Alcohol Testing Program and 49 CFR Part 40 Procedures for Transportation Workplace Drug and Alcohol Testing Programs affects maintenance (not manufacturing) carried out at certificated and non-certificated subcontractors at any tier.

### **220.2 Use of DER Repairs or Installation of PMA Parts in Eaton Designed Parts**

Usage of approved Designated Engineering Representative (DER) repairs on Eaton products: Any approved DER repair held by the Supplier that is intended to be used in the repair, overhaul, or installation of detail parts under an Eaton purchase order will be submitted for written approval by Eaton prior to use. The use of non-Eaton approved Supplier FAA-PMA parts in repair or overhaul of products will be approved in writing by Eaton prior to installation.

The FAA 8130-3 or equivalent form(s) will be filled out when DER repairs are required to be approved by Eaton prior to shipment. Suppliers without National Aviation Authority for part ordered, the Supplier will also provide Sub-tiers FAA 8130-3 or equivalent form, and C of C from Production.

### **220.3 Inspection Requirements**

100% inspection of each dimension which is affected by the repair / fixed processes is required. The Supplier will furnish one (1) copy and maintain on file a completed Teardown and Findings Report (or equivalent) for functional components as requested by the purchase order.

### **220.4 Shipping Certification Requirements**

FAA 8130-3 or equivalent forms are required when Supplier is NAA approved. If CAAC approved, then an AAC-038 is required with each shipment.

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			67 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

A Certificate of Conformance in accordance with SPOC 100 is required when the Supplier is not a holder of a National Aviation Authority approved Air Agency Certificate or products are used for military programs or data is not regulatory and/or OEM approved.

## SPOC 230 Electronics & Wiring Commodities

Suppliers of Printed Boards (PB), Printed Board Assemblies (PBA) and Cables & Harnesses (C&H) will be audited and approved to the appropriate specification as outlined below. However, Suppliers will process and certify hardware to specification(s) contractually flowed down.

- a) Rigid Printed Boards (PB) {a.k.a. PWB}: IPC-A-600 (latest) Class 3 and IPC-6011/6012 (latest)
- b) Printed Board Assemblies (PBA) {a.k.a. CCA}: J-STD-001 (latest) Class 3
- c) Flex / Rigid Flex PB: IPC-A-600 (latest) Class 3 & IPC-6011/6013 (latest)
- d) Cables & Harnesses (C&H): IPC/WHMA-A-620 Class 3
- e) Sub-tier Suppliers that perform specific sub-processes used in the manufacturing of these three commodities (PBs, PBAs, and C&H) will be managed and approved by the respective commodity Suppliers as part of their overall quality management system.

## SPOC 240 Approved Sources for Controlled Processes (NADCAP)

Controlled process specification types are listed in 50.33. Suppliers and their Sub Suppliers requiring a special controlled process to complete a part or assembly using NADCAP approved sources. Eaton reserves the right to audit and approve these sub-tier Suppliers. The Supplier shall execute due diligent to check certification is current and has not expired. If uncertain then contact Eaton Quality Assurance and/or the Buyer's Authorized Representative.

### 240.1 Nadcap Reporting

When a Nadcap certification is required, the Supplier will provide the following information:

- a. Special Process
- b. Supplier Name
- c. Nadcap Certificate Number and Expiration Date

## SPOC 250 – Government and Customer Directed Source Inspection

This SPOC applies to any quantities reflecting a U.S. Government Prime Contract Number noted on the Purchase Order. When Government Source Inspection is required, the inspection will be conducted at the Supplier's facility unless otherwise specified on the Purchase Order. The Supplier will make available all necessary specifications, documents, facilities and assistance. U.S. Government material will not ship without evidence of Government Source Inspection approval unless the prime DCMA office provides alternate instructions in writing. This SPOC also applies to Eaton Customer Source inspection; however, Eaton customer's quality representatives do not have the authority to approve quantities reflecting a U.S. Government Prime Contract Number noted on the Purchase Order unless granted by the U.S. Government Contract.

### 250.1 U.S. Government Notification Requirements

Upon receipt of the order containing quantities reflecting a U.S. Government Prime Contract Number, promptly notify the Government Source Inspection (GSI) Representative who normally services your facility and provide a copy of the order so that appropriate planning for Government Source Inspection can be



<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			68 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

accomplished. The GSI Representative will be notified no more than 7 workdays before completion of the order. If unsure of the DCMA Representative, contact the Eaton Buyer's Authorized Representative immediately. GSI may request the Supplier to furnish all work instructions down to the lowest level(s), including all mandatory government inspection points, prior to the initiation of any work. You are required to have reasonably accessible to the Government Quality Assurance Representative all drawings, specifications, engineering data, technical instructions, and detailed inspection procedures used in fulfilling the requirements of the Eaton Purchase Order.

## 250.2 Eaton Customer Notification Requirements

Promptly notify the Customer Source Inspection Representative as directed on the Purchase Order or by the Buyer's Authorized Representative. Careful attention should be given to planning source inspection to meet Purchase Order schedules. If unsure of the Customer Quality Assurance Representative notify the Eaton Buyer's Authorized Representative immediately.

## 250.3 Evidence of Source Acceptance

Evidence of Source Inspection acceptance for a single shipment will be the authorized stamp or signature on the packing list. If Government Source Inspection / Defense Contract Management Agency is required then in addition to an authorized stamp, a letter of delegation (LOD) authority between DCMA offices is required, showing that the specific part number being shipped has been granted GSI delegation. The LOD authority must be linked to the part numbers and quantities that have been granted delegation. Where the total PO quantity is greater than the quantity pegged to the U.S. Government Prime Contract(s) Number, the LOD will be issued for the quantities associated with the Prime Contract(s) only. Material received at Eaton not indicating Government Representative inspection at source will be subject to rejection at Receiving Inspection.

## SPOC 260 Design and Control of Special Tools and Gages

Tools and gages will follow the requirements of the drawing. Certification of gages, tooling, and test equipment must be performed by a Supplier using calibrated equipment traceable to the National Institute of Standards and Technologies, (NIST) or equivalent. Records will be kept by the Supplier (identified on the PO) and the certified items must be labeled with the tool identification and the calibration expiration date.

## SPOC 270 Free, Libre and Open-Source Software (FLOSS)

SPOC 270 applies only to POs that require the use or delivery of software, including without limitation software residing on hardware. **FLOSS** means software licensed pursuant to the General Public License ("GPL"), Lesser/Library GPL ("LGPL"), the Affero GPL ("APL" or "Affero License"), the Apache license, the Berkeley Software Distribution ("BSD") license, the MIT license, the Artistic license (i.e., "PERL"), the Mozilla Public License ("MPL"), or any variations of these licenses, and includes without limitation licenses referred to as "Free Software License," "Open Source License," "Public License," or "GPL Compatible License." **FLOSS** also means software that incorporates or embeds software in, or uses software in connection with, as part of, bundled with, or alongside any open source, publicly available, or "free" software, library or software documentation;

software that is licensed under a FLOSS license; and software provided under a license that subjects the delivered software, in whole or in part, to any FLOSS license; requires the delivered software, in whole or in part, to be licensed for the purpose of making derivative works or be redistributable at no charge; or obligates

Buyer to sell, loan, license, distribute, disclose, or otherwise make the delivered software or any Goods incorporating the delivered software, in whole or in part, available or accessible to any third party, whether in object code or source code forms.

Supplier will disclose to Buyer in writing any FLOSS that will be used or delivered in connection with a PO. Supplier will obtain the prior written approval of Buyer's Authorized Representative before using or delivering any FLOSS in connection with performance of the PO. Buyer may in its sole discretion withhold its approval for Supplier to use FLOSS.

## **SPOC 290 – Packaging and Package equipment Identification**

### **290.1 Product Delivery**

The Supplier must ensure all items are packaged and preserved adequately to guarantee that the hardware is delivered to Eaton undamaged and free of corrosion. The exterior shipping Container will be sufficiently strong and functional to ensure safe product delivery and the identification must be maintained for subsequent distribution once received. Packages must withstand superimposed stacking loads, both as presented to the carrier and as may be expected during shipment. Unless otherwise specified, all hardware will be packaged and preserved in accordance with the drawing, applicable specifications, or purchase order requirements. If there is no drawing or specification requirement, hardware will be packaged and identified in accordance with Aerospace Industry Standards (ATA Spec 300, ASTM-D-3951-98 and MIL-TD-2073).

### **290.2 Weight Limitations**

Hand-handled containers, including bundles are not to exceed 50 pounds (22.7 KG) gross weight. Containers in excess of 50 pounds will be put on skids or pallets to permit mechanical handling. Containers handled by hand may be skidded or palletized to consolidate a shipment, but individual containers must be properly identified, stacked, and secured to the pallet. Shipping skids/pallets or boxes will not exceed 2,500 pounds (1,136 KG) gross weight and have appropriately placed slots or openings compatible to mechanical handling equipment, pallet jacks or fork trucks.

### **290.3 Prohibited Packaging**

- a) Newspaper wadding, loose-fill dunnage, macerated (shredded) paper, peanut foam, eco-foam, shredded materials, discarded paper, and broken or recycled foam-in-place are not acceptable as packing (dunnage) materials in any container.
- b) Bags made from bubble wrap or grocery paper sacks will not be used as unit packs.
- c) Wood containers constructed from OSB wafer board, particle board, very thin plywood or any other manufactured wood product which is fragile and will not tolerate handling, stacking and re-closing throughout the entire transportation system and subsequent supply chain handling and forwarding.
- d) Used containers or boxes unless specifically designed to be reusable and are in adequate shape.
- e) Parts that have contact preservation (oil), or have residual fluids or operating oils, will not be packed/wrapped in paper bags, bubble wrap, sheet foam, or Kraft paper.
- f) Skin packs that have film-to-film attachments under the item, making part removal difficult, or subjecting the item to damage during opening. Multi-compartment skins packs or blister packs unless they can be positively re-closed after opening and provide continued part protection.

- g) Any type of container closure, or lack of a closure, which will result in safety issues, damaged parts or unserviceable packaging when opened.
- h) Any packaging material which may cause Foreign Object Debris/Damage (FOD) or part contamination, part obstruction or leave non-preservation residue.

## 290.4 Inappropriate Closures

Staples are prohibited as a means of closure for exterior shipping containers. Staples are permitted in non-closure portions of box type containers, such as bottom closure, side stitching, etc. The portion of the container meant to be opened must remain staple-free. Staples and other penetrating forms of unit package closure also are prohibited for use on bags (polyethylene or paper), bubble wrap, sheet foam, Kraft paper or other intermediate or interior containers. These types of unit packages must be heat sealed (if applicable) or sealed by folding, taping, Zip-Lock, or zipper sealing, etc.

## 290.5 Fluid-Soaked Packages

Fluid tight packaging will be as required by hazardous material / dangerous goods regulations and as follows:

- a) Bagged and the heat-sealed closed in accordance with MIL-DTL-117. The bags will be made from MIL-PRF-22191, Type I material also known as “bearing bag” material. This method is required for corrodible parts which have contact preservative.
- b) For non-corrodible items, residual fluids may be contained by bagging and sealing in heavy duty (6mil or thicker) zip lock type polyethylene bag.
- c) If the item has internal fluids which may be released during transportation, the first bag will be surrounded by appropriate absorbent packing and enclosed in a second fluid tight bag or package.

## 290.6 Hazardous Materials and Dangerous Goods

The Supplier will define, mark, label and prepare for hazardous goods, dangerous material and/or dangerous equipment for shipment in accordance with Department of Transportation HM181, CFR Title 49, “Dangerous Goods”, as classified by IATA, IMDG or ICAO. Due to regulation requirements and potential liability issues, Eaton will report violations of hazardous materials & dangerous goods regulations to the appropriate governmental agencies.

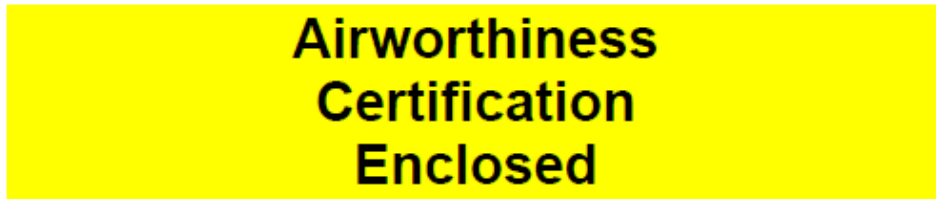
## 290.7 Shipping Documents / Packing Slip

The Packing List is required to be attached to the exterior of container #1 in a weather-proof envelope marked “Packing List Enclosed”. If there are multiple boxes in a shipment, then each box must have a packing list or copy of the packing list attached on Box 1. Other shipping documents; including the C of C, and/or Specific additive customer requirements will be specified via PO and linked to receiving inspection line items. These items may be attached to the exterior of the #1 container or can be placed inside of box 1. Identification, certifications, and traceability sheets, if provided, will be placed inside the container or inside Box 1 of a multiple container shipment. All subsequent containers/packages must be mark and numbered appropriately. I.E., box 1 of 4; 2 of 4; 3 of 4; 4 of 4.

## 290.8 Airworthiness Certification, Labeling and Consolidation Box Marking

When the PO requires a FAA 8130-3 airworthiness certification or equivalent form (Form 1), the certification form(s) and container identification will have a bright yellow airworthiness label with bold black printing, similar to that shown in **Figure 4**, permanently attached to the shipping container.

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	<b>Page</b>
<b>Title: Purchase Order Requirements</b>			<b>71 of 112</b>
Owner/Author: Kyle Weber Accountable: VP of Quality Assurance		Effective Date: 13-May-2024 Original Date: 10-Feb-2016	



**Figure 4** Airworthiness Label for Exterior Container

## 290.9 Country of Origin and Marking (includes U.S.A.)

Country of origin marking is mandatory to comply with Customs Regulations and/or Eaton requirements. Packaging of articles must be legibly, conspicuously and permanently marked with the parts' country of origin. For a product to be called Made in USA, or claimed to be of US origin without qualifications or limits on the claim, the product must be "all or virtually all" made in the U.S. The term "United States," as referred to in the Enforcement Policy Statement includes the 50 states, the District of Columbia, the U.S. territories and possessions. "All or virtually all" means that all significant parts and processing that go into the product must be of U.S. origin. That is, the product should contain no - or negligible – foreign content. U.S. Suppliers should contact the Federal Trade Commission, Division of Enforcement, since the phrase "made in U.S.A." is under their jurisdiction. This site <http://www.ftc.gov/bcp/online/pubs/buspubs/madeusa.htm> provides guidance. For the purpose of this SPOC, the designation "U.S.A." is not adequate country of origin marking. It is the Supplier's responsibility to ensure that marking on the product reflects the true country of origin of the product and that no illegal transshipment through a third country has occurred. The Supplier must also ascertain that foreign Suppliers are familiar with the country of origin rules.

## 290.10 Electro-Static Discharge (ESD) Labeling and Packaging

Packaging and labeling for ESD product should comply with Eaton ST1637819; reference Mil-Std-1686 or ANSI/ESD S2020. Components are to be handled, stored, shipped, and marked in accordance with MIL-HDBK-263 at all times.

## 290.11 Packing and Shipping Instructions

**Traffic/Shipping Dept. Phone: 563-383-6441**

### 290.11.1 Deviations

Any deviation or exception to these packing or shipping instructions must be approved by Eaton's Procurement Dept. in writing (email) and coordinated with Eaton's Traffic/Shipping Dept. **PRIOR TO SHIPMENT.**

C.O.D. shipments will be **REFUSED.** **No pre-pay and add of shipping costs is permitted.**

### 290.11.2 Packaging Instructions

- All Goods must be packed to prevent damage during shipment using materials and methods compliant with ASTM D3951 (Standard Practice for Commercial Packing) and SPOC 290. AS stated in SPOC 290.3 **DO NOT USE** the following cushioning materials: packing "peanuts", popcorn, or shredded paper.

- Check the PO, Purchase Order Terms and Conditions of Purchase for Goods and Services, and applicable US Government Additional Terms/Flow Downs for additional or alternative packaging instructions, if any.

### 290.11.3 Shipping Instructions

Follow the shipping instructions on PO; most shipments are routed via Ground Service. The Eaton Purchase Order number must appear on the carrier waybill, in reference section 1, or on the Less than Truckload (LTL) Bill of Lading. Any expedited shipments sent overnight or next day, second day service, or other expedited method must be authorized by Eaton's Procurement Dept. in writing (email) PRIOR TO SHIPMENT.

### 290.11.4 Weight

- **1 to 150 lbs.** Ship via UPS or FedEx per PO instructions. Do not declare a value or ensure the shipment, unless instructed by Eaton's Procurement Dept. in writing (email).
- **151 to 10,000 lbs.** Ship via LTL motor freight. Shipments must be routed FREIGHT COLLECT via a carrier specified by Tech Transport, Eaton's transportation broker, or by Eaton's Traffic/Shipping Dept.

Contact Tech Transport at 800-641-5300, ext. 503, for logistics or at <http://www.techtransport.com>. For regular ground service, use the attached Tech Transport instructions to identify the state where the shipment originates for best rate for the lane.

For expedited shipments, contact Eaton's Traffic/Shipping Dept. for specific instructions.

**Full truckload, flatbed, or over 10,000 lbs.** Contact Eaton's Traffic/Shipping Dept. for specific routing instructions.

### SPOC 300 Freight to be paid by Eaton

The Supplier will assess all freight charges for which Eaton is responsible when the freight is tendered to the carrier. Eaton participates in discount programs with national carriers; but discounts accrue only when Eaton is the payer of the original bill. The Supplier that holds the Eaton Purchase Order will be charged with any lost discounts.

### SPOC 310 Eaton Source Inspections: Verification of Hardware

Source Inspection of product by Eaton or its customer at Supplier's facility is required for material furnished on this order prior to shipment. The Supplier will contact the Buyer's Authorized Representative or other designee as directed by the purchase order 7 manufacturing days in advance of all required inspections. Suppliers do not have the authority to perform product release for this purchase order until the source inspection is completed. The Supplier will make available to the Buyer's Authorized Representative's Quality Representative any necessary specifications, documents, facilities and assistance. Evidence of Buyer's Authorized Representative's Quality Representative's acceptance/certification will accompany shipment. Support Systems Inc's QA Representative Approval at the source will be subject to rejection at Eaton Receiving Inspection, unless waived by Eaton's Quality Assurance in writing. Final acceptance will be at Eaton.

### SPOC 320 – Eaton Printed Wiring Boards (PWB)

Certificate of Conformance will specify serial number(s) of supplied PWB's. 100% electrical net list testing will be conducted after solder mask. The Supplier will perform continuity and circuit short testing on all double-sided and multi-layer Printed Circuit Boards (PCBs) before shipping to Eaton. If the board has a bonded heat

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			73 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

sink, 100% verification that the heat sink is not shorted to board is required. The number and location of test coupons will be in accordance with the Eaton specification. Thermally stressed X and Y coupons will be analyzed by the Supplier to determine acceptability of the product prior to shipment to Eaton. The Supplier will either internally or through an approved outside test facility perform a **solder ability** test per IPC-J-STD-003. Any discrepancy will have prior written approval by Eaton prior to acceptance.

### SPOC 330 – Electronics Solder Requirements

Product covered under this Purchase Order is to be assembled and soldered per ANSI/J-STD-001 Revision (latest), Class 3, (Standard Requirements for Soldered Electrical & Electronic Assemblies), and acceptance criteria based on IPC-A-610 Revision (latest). Workmanship and testing also will conform to the class of IPC-A-610 specified on the purchase order. Any exceptions or deviations must be defined on the Eaton drawing and / or Eaton specification. If solder testing is required per the drawing/specification, then the parts must meet the applicable soldering requirements of the specification listed below:

#### **PRODUCT TYPE SPECIFICATION METHOD**

- a) SEMICONDUCTORS MIL-STD-750 2026
- b) MICROELECTRONICS MIL-STD-883 2003
- c) RIGID PRINTED WIRING BOARDS MIL-P-55110 PARA A.3.7.4.5
- d) RIGID FLEX PRINTED WIRING BOARDS MIL-P-50884 PARA A.3.7.4.7 FLEXIBLE PRINTED MIL-P-50884 PARA A.3.7.4.7
- e) ALL OTHER PARTS MIL-STD-202 208

Components will have been tested to the requirements listed in the above list within 18 months of the date Eaton receives the components. The soldering test date (month and year) will be noted on the Certificate of Conformance supplied with each shipment.

### SPOC 340 Electronics Marking Requirements

If marking permanency is required per the drawing/specification, then the parts must meet the applicable marking permanency (resistance to solvents) requirements of their respective specifications:

#### **PRODUCT TYPE SPECIFICATION METHOD**

- a) Semi-Conductors MIL-STD-750 1022
- b) Micro-Electronics MIL-STD-883 2015
- c) Rigid Printed Wiring Boards MIL-P-55110 PARA A.3.8
- d) Rigid Flex Printed Wiring Boards MIL-P-50884 A.3.8
- e) Flexible Printed MIL-P-50884 PARA A.3.8
- f) All Other Parts MIL-STD-202 215

### SPOC 350 Electro-Static Discharge Requirement

For ESDS (Electrostatic Discharge Sensitive) items, the Supplier will establish and maintain a written electrostatic discharge control program for the control of Electro-Static Discharge (ESD) during fabrication, handling, and packaging of electrical and electronic parts, assemblies, and equipment. The program must comply with the requirements of the most current version of Mil-Std-1686 or ANSI/ESD S20.20.



<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			74 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

## SPOC 360 Military Customer First Article Inspection

Verification of First Article by the Military customer (military quality assurance and/or Defense Contract Management Agency) is required. The Eaton Quality Assurance Point of Contact will coordinate First Article inspection by the Military customer at the Supplier's facility.

## SPOC 370 – Foreign Object Debris/Damage (FOD) Control

Supplier shall establish a program for the prevention, detection, and removal of foreign objects **in accordance with AS9146**.

The Supplier will ensure that **Foreign Object Debris** and subsequent **Foreign Object Damage (FOD)** is eliminated from all parts prior to shipment. All Suppliers must maintain a FOD free environment during machining, manufacturing, assembly, maintenance, inspection, storage, packaging and shipping.

- Potential FOD includes but is not limited to burrs, chips, dirt, corrosion and contamination resulting from the manufacturing, assembly, maintenance, processing, cleaning, storage and subsequent packaging of parts.
- Suppliers must ensure all passageways- cast and/or machined are clear of chips, core material, dirt, breakout of cast walls, etc.
- Prior to closing inaccessible or obscured areas and compartments during assembly, Supplier will ensure the areas are free of FOD.
- Suppliers must ensure all parts are clean and FOD free prior to shipment.
- Suppliers are required to maintain a FOD prevention program, which includes prevention and elimination of FOD from the manufacturing processes and work area.

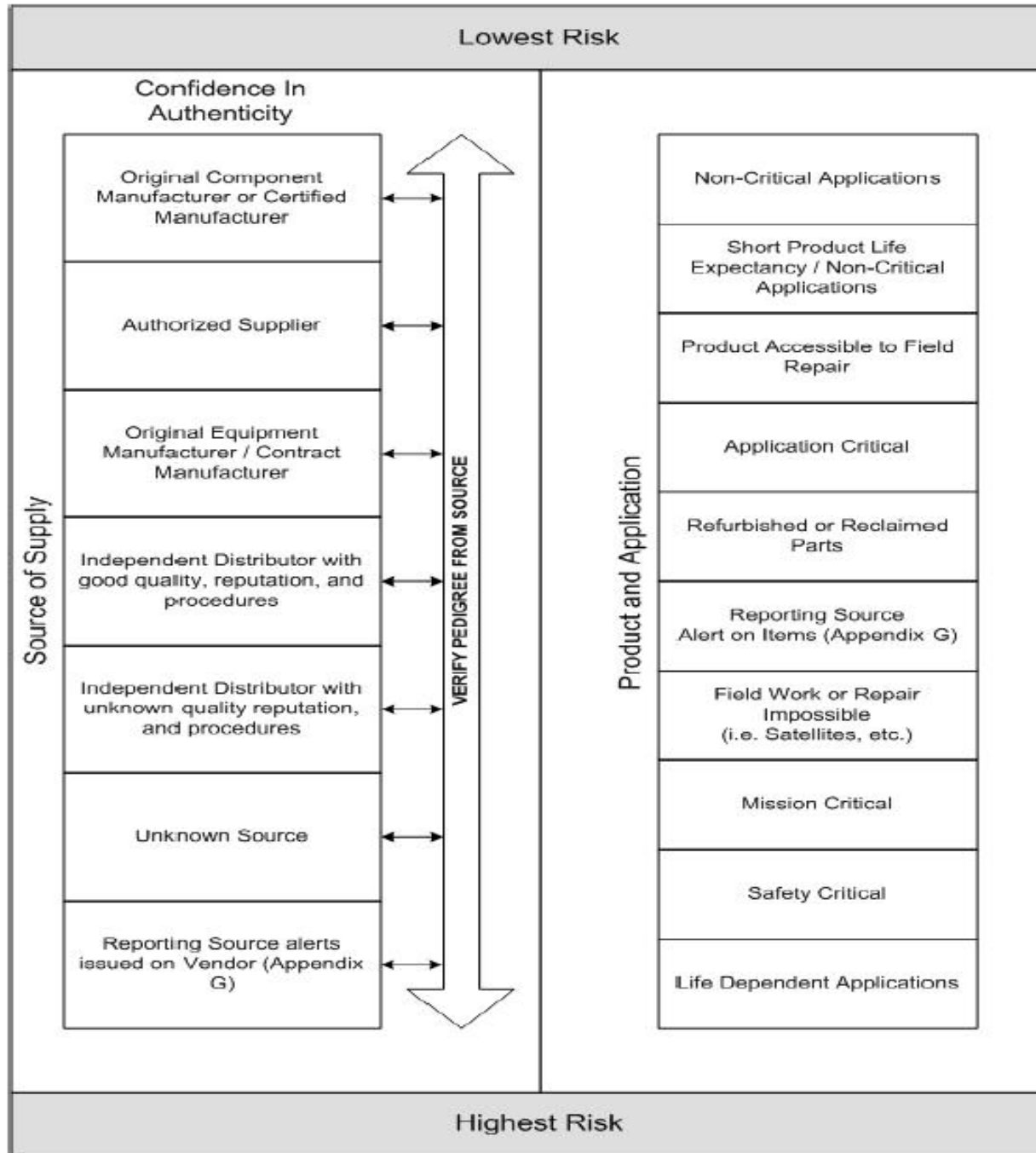
### **Specific attention should be given, where applicable, to items such as:**

- Housekeeping and cleanliness
- Food and beverage control
- Tool and small part accountability
- Loose objects
- Material handling and parts protection
- External cleaning following evidence of external contamination
- All oxygen parts defined by drawing must, in addition, be cleaned & supplied in accordance with the requirements of Eaton ST1637806; reference ATSM G93 - Standard Practice for Cleaning Methods and Cleanliness Levels for Material and Equipment Used in Oxygen-Enriched Environments.

Suppliers will ensure that the responsibility for the FOD prevention program is clearly defined, and appropriate personnel have received FOD awareness training. Suppliers are also responsible for the flow down of these requirements to their sub-tier Suppliers to ensure FOD free products at all points of manufacturing. For additional information regarding FOD prevention, refer to National Aerospace Standard NAS 412, "Foreign Object Damage / Foreign Object Debris (FOD) Prevention". The NAS 412 document may be used as a baseline FOD prevention resource.



## SPOC 380 Counterfeit Parts Prevention



- a) The Supplier will comply with DFARS 252.246-7007 CONTRACTOR COUNTERFEIT ELECTRONIC PART DETECTION AND AVOIDANCE SYSTEM (latest version), as applicable pursuant to FAR Subpart 246.870-2.”
- b) The Supplier is to flow down these requirements to applicable sub-Suppliers who are performing work on behalf of Eaton

c) The supplier will notify Eaton's Quality Management within 24 hours of identification of fraudulent, suspect, or counterfeit parts entering the supply chain.

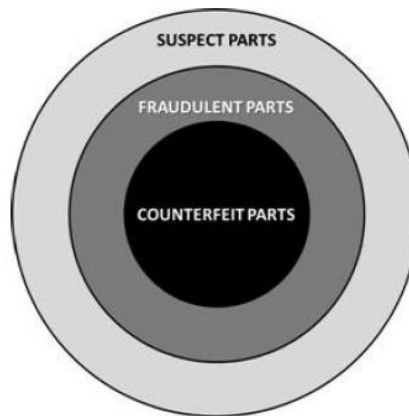
d) Maximize availability of authentic parts; OEM preferred

e) Procure parts from reliable sources; OEM preferred

f) Assure authenticity and conformance of procured parts;

g) Control parts identified as counterfeit within the Eaton supply chain and in the Contract Manufacturers' supply chain; and report suspect counterfeit parts, known counterfeit parts, and fraudulent parts to other potential users and to Government investigative authorities as required by contract or by law.

The provisions of this SPOC 380 are in addition to Supplier's responsibility to meet all contractual / purchase order requirements. The requirements of SPOC 380 are intended to supplement the requirements of a higher level quality standard (e.g., AS9100) and other quality management system documents. They are not intended to stand alone or to supersede or cancel requirements found in other quality management system documents, requirements imposed by contract, or applicable laws and regulations unless an exemption/variance has been granted in writing by the Eaton Vice President of Supplier Quality.



### 380.1 Applicable Documents

The following reference documents are directly associated with this topic.

#### SAE Publications

AS5553 Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition  
Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), [www.sae.org](http://www.sae.org).

AS6081 Counterfeit Avoidance Standard; [www.sae.org](http://www.sae.org)

AS6174A Assuring Acquisition of Authentic and Conforming Material [www.sae.org](http://www.sae.org)

#### Commercial Publications

IDEA-STD-1010 Acceptability of Electronic Components Distributed in the Open Market

Available from Independent Distributors of Electronics Association (IDEA), 6312 Darlington Avenue, Buena Park, CA 90621, Tel: 714-670-0200, [www.idofea.org](http://www.idofea.org).

### 380.2 Definitions

**Authorized Distributor:** "The term Authorized Distributor refers to either:

An OCM-Authorized Distributor or OEM-Authorized Distributor distributing electronic parts or assemblies under a binding contractual agreement with an OCM or OEM; or a Supplier that (i) provides electronic parts or assemblies under the terms of a long term agreement (LTA) with Eaton that specifically identifies those electronic parts, 1) procures electronic parts or assemblies only from sources from an OCM or OEM, 2) establishes an unbroken chain of custody for those electronic parts or assemblies with the source of supply, and obtains written approval from the Eaton Director of Supplier Quality to deliver such electronic parts and assemblies to Eaton. To establish an unbroken chain of custody, Suppliers must maintain physical segregation and control of electronic parts or assemblies procured from either an OCM/OEM and obtain and retain documentation that substantiates traceability of such electronic parts or electronic assemblies to the OCM, the OEM, or the OCM / OEM-Authorized Distributor.

For the purposes of this SPOC 419, Franchised Distributor is considered synonymous with Authorized Distributor."

**Broker:** "In the independent distribution market, brokers are professionally referred to as Independent Distributors. See definition for "Independent Distributor". For SPOC 380 purposes, the Independent Distributor, Broker, Non-Authorized, and Non-Franchised Distributor definitions are synonymous." Parts from a broker should be considered suspect until tested or validated by a third party test laboratory or OEM.

**CCA Transfer Material:** "All material transferred in accordance with the Eaton Aero Standard Transition Process from an Eaton site to a contract manufacturer or from the closing out of a contract manufacturer and the material transferring to another contract manufacturer."

**Certificate of Conformance (C of C, CofC):** "A document provided by a Supplier formally declaring that all Buyer's Authorized Representative purchase order requirements have been legally met. The document may include information such as manufacturer, distributor, quantity, lot and/or date code, inspection date, etc., and is required to be signed by a responsible party for the Supplier."

**Contract Manufacturer (CM):** "A manufacturing company that generates products or goods on behalf of Eaton, in accordance with Eaton specifications."

**Counterfeit electronic part, or assembly:** defined in accordance with the SAE G-19 Committee, as it may be amended from time to time. As of October 5, 2011, SAE G-19 Committee defines a counterfeit electronic part or assembly as: "A fraudulent part that has been confirmed to be a copy, imitation, or substitute that has been represented, identified, or marked as genuine, and/or altered by a source without legal right with intent to mislead, deceive, or defraud."

**Electronic Assembly:** "An assembly containing one or more electronic parts."

**Electronic Parts:** "Electrical or electronic devices that are not subject to disassembly without destruction or impairment of design use. They are sometimes called electronic components or piece parts."

**Fraudulent part:** "Any suspect part misrepresented to the Customer as meeting the Customer's requirements."

**Independent Distributor:** "A distributor other than an OCM or an Authorized Distributor. For SPOC 380 purposes, the Independent Distributor, Broker, Non-Authorized, and Non-Franchised Distributor definitions are synonymous."

**Life-Time Buy:** "Procurement of a quantity of parts that is intended to meet all future demand, to the end of all production and field support terms."

**Non-Authorized Distributor:** "In the independent distribution market, Non-Authorized Distributors are professionally referred to as Independent Distributors. See definition for "Independent Distributor". For SPOC

380 purposes, the Independent Distributor, Broker, Non-Authorized, and Non-Franchised Distributor definitions are synonymous.”

**Non-Franchised Distributor:** “In the independent distribution market, Non-Franchised Distributors are professionally referred to as Independent Distributors. See definition for “Independent Distributor”. For SPOC 380 purposes, the Independent Distributor, Broker, Non-Authorized, and Non-Franchised Distributor definitions are synonymous.”

**OCM, or Original Component Manufacturer:** “A company that manufactures a part that it has designed and for which it owns the intellectual property rights.

a) The part and/or its packaging are typically identified with the OCM’s trademark.

b) OCMs may contract out manufacturing and/or distribution of their product.

c) Different OCMs may supply product for the same application or to a common specification.”

**OEM, or Original Equipment Manufacturer:** “A company that manufactures products that it has designed and sells those products under the company’s brand name.”

**Pedigree:** “An unbroken chain of custody with known lineage directly from the OCM or OEM.

**Supplier:** “An entity that supplies electronic parts to Eaton or on behalf of Eaton to Eaton’s Suppliers and their sub-tier Suppliers. This includes, but is not limited to, Independent Distributors, Brokers, Third-Party Logistics (3PL) Providers, Contract Manufacturers, and Authorized distributors.”

**Suspect counterfeit part:** “A part in which there is an indication by visual inspection, testing, or other information that it may have been misrepresented by the Supplier or manufacturer and may meet the definition of fraudulent part or counterfeit electronic part or assembly (see following definitions).”

**Third-Party Logistics (3PL) Provider:** “Firms which provide outsourced or "third party" logistics services to companies for supply chain management functions. 3PL Providers typically specialize in integrated operations, warehousing and transportation services that can be scaled and customized to Customer’s needs based on market conditions and the demands and delivery service requirements for their products and materials.”

### 380.3 Requirements

Electronic Parts will be purchased only directly from the OCM or directly from an Authorized Distributor with part pedigree directly from the OCM. Electronic assemblies will only be purchased from the OEM or an Authorized Distributor with pedigree directly from the OEM. In the event that material is not available from these sources, then the Supplier will be governed by the requirements of this SPOC 380, paragraphs 380.2 through 380.8. All parts not purchased from an OCM, OEM, or Authorized Distributor MUST be sent to a third party testing and analysis laboratory capable of assuring the parts are not counterfeit.

### 380.4 A Certificate of Conformance will be provided for the following:

- a) Electronic part procured from an OCM or Authorized Distributor with established pedigree to the OCM, Electronic assembly procured from an OEM or Authorized Distributor with established pedigree to the OEM. There is a distinction regarding the level of documentation on a Certificate of Conformance to be supplied when buying parts manufactured to U.S. military standards and aerospace specifications versus parts made to commercial or industrial standards.
- b) For procurement of military grade components, a manufacturer’s certification to a specified military or aerospace specification or standard is required. This documentation will contain at a minimum the manufacturer, distributor, distributor purchase order number, part number, quantity, and date code of each quantity supplied.

- c) Governing specifications may require additional information to be provided.
- d) A copy of the manufacturer's certification will accompany shipment of parts, or, for parts procured through Authorized Distributors, shipment will be accompanied by a Certificate of Conformance showing proper supply chain traceability.
- e) For procurement of product for commercial or industrial use, product delivered by the manufacturer to the authorized distributor is not normally required to contain a formal Certificate of Conformance. In such cases, the accompanying documentation is a commercially acceptable packing list. This document normally identifies the manufacturer, distributor to whom the parts were supplied, distributor purchase order number, part number, and quantity.
- f) The Certificate of Conformance must be maintained on file by the distributor and will be made available to Eaton upon request.
- g) Shipments of commercial and industrial parts are typically accompanied by a distributor packing list and/or Certificate of Conformance.

If a Certificate of Conformance in accordance with these requirements cannot be provided, then the Supplier will comply with the requirements of this SPOC set forth in paragraphs 380.2 through 380.8.

### 380.5 OCM, OEM

The OCM, OEM, or Authorized Distributor will provide with the shipment a Certificate of Conformance, certifying that the component or assembly provided is the part number being procured on the Eaton Purchase Order. A Certificate of Conformance which certifies the vendor part number, with the Eaton ordered part number identified as "Reference or Customer P/N," **does not** indicate certification to the Eaton ordered part number, if the Eaton drawing includes additional requirements. A Certificate of Conformance from an Authorized Distributor must also establish traceability to the OEM or OCM.

- a) The preferable method is for the Authorized Distributor to provide a copy of the manufacturer's certificate for the lot number being supplied, or provided in an assembly, along with their Authorized Distributor certification.
- b) Acceptable, but not preferable, is an Authorized Distributor certificate identifying the Original Manufacturer and the source of the Authorized Distributor's authorization from the Original Manufacturer.

### 380.6 Authorized Distributor

The Authorized Distributor will affirm that it has valid agreements in place with an OCM or OEM for each product it sells to Eaton or to a Contract Manufacturer who is building product on behalf of Eaton. An Authorized Distributor will only ship products to Eaton or to sub-tier Suppliers on behalf of Eaton pursuant to the terms of an OCM or OEM agreement or under the terms of a long term agreement with Eaton that specifically identifies those Electronic Parts or Electronic assemblies. The Authorized Distributor will be considered an Independent Distributor with respect to any product procured other than pursuant to the terms of an OCM or OEM agreement or under the terms of a long term agreement with Eaton that specifically identifies those Electronic Parts or Electronic Assemblies. An OCM or OEM will not supply electronic parts to Eaton or to sub-tier Suppliers on behalf of Eaton that were acquired from Independent Distributors.



### 380.7 Purchase of Electronic Parts and Electronic Assemblies

Electronic Parts and Electronic Assemblies will not be purchased by Suppliers from Independent Distributors except (a) in the event that the parts are not available from the OCM or OEM or Authorized Distributor; (b) Eaton has granted its permission to do so in writing. These parts **MUST** be sent to a third party testing and analysis laboratory capable of assuring the parts are not counterfeit.

### 380.8 Test laboratories:

Test laboratories that purchase electronic parts or electronic assemblies on behalf of Eaton for up screening testing will purchase electronic parts or electronic assemblies only from the Original Component Manufacturer (OCM) or OEM or an Authorized Distributor with part pedigree directly from the OCM or OEM. In the event that material is not available from the Original Component Manufacturer (OCM) or OEM or an Authorized Distributor with part pedigree directly from the OCM or OEM, then the Test Laboratory will contact the Eaton Supplier Quality Group or the Buyer's Authorized Representative. All parts not purchased from an OCM, OEM, or Authorized Distributor **MUST** be sent to a third party testing and analysis laboratory capable of assuring the parts are not counterfeit. Eaton Quality and Engineering will determine the testing requirements based on table AA below.

Test/Inspection	Minimum Sample Size		Level
	Lot Size 200 or greater Devices	Lot Size 1-199 Devices (See NOTE 1)	
<b>Minimum Required Tests</b>			<b>Level A</b>
Documentation and Packaging			A1
Documentation and Packaging Inspection (4.2.6.4.1) (non-destructive)	All devices	All devices	
<b>External Visual Inspection</b>			<b>A2</b>
a. General (4.2.6.4.2.1) (non-destructive)	All devices	All devices	
b. Detailed (4.2.6.4.2.2) (non-destructive)	122 devices	122 or all devices, whichever is less	
<b>Remarking &amp; Resurfacing (destructive)</b>	See NOTE 2	See NOTE 2	<b>A3</b>
Solvent Test for Remarking (4.2.6.4.3 A) (destructive)	3 devices	3 devices	
Solvent Test for Resurfacing (4.2.6.4.3 B) (destructive)	3 devices	3 devices	
<b>Radiological (X-Ray) Inspection</b>			<b>A4</b>
X-Ray Inspection (4.2.6.4.4) (non-destructive)	45 devices	45 devices or all devices, whichever is less	
<b>Lead Finish Evaluation (XRF or EDS/EDX)</b>	See NOTE 3	See NOTE 3	<b>A5</b>
XRF (non-destructive) or EDS/EDX (destructive) (4.2.6.4.5) (Appendix C.1)	3 devices	3 devices	
<b>Delid/Decapsulation Internal Analysis (destructive)</b>	See NOTE 4	See NOTE 4	<b>A6</b>
Delid/Decapsulation (4.2.6.4.6) (destructive)	3 devices	3 devices	
<b>Additional Tests (as agreed between Customer and Organization)</b>			
Remarking & Resurfacing (destructive)	See NOTE 2	See NOTE 2	<b>A3 Option</b>
Scanning Electron Microscope (4.2.6.4.3 C) (destructive)	3 devices	3 devices	
Quantitative Surface Analysis (4.2.6.4.3 D) (non-destructive)	5 devices	5 devices	
<b>Thermal Testing</b>			<b>Level B</b>
Thermal Cycling Test (Appendix C.2)	All devices	All devices	
<b>Electrical Testing</b>			<b>Level C</b>
Electrical Testing (Appendix C.3)	116 devices	All devices	
<b>Burn-In</b>			<b>Level D</b>
Burn-In (Pre & Post) (Appendix C.4)	45 Devices	45 devices or all devices, whichever is less	
<b>Hermeticity Verification (Fine and Gross Leak)</b>			<b>Level E</b>
Hermeticity Verification (Fine and Gross Leak) (Appendix C.5)	All devices	All devices	
<b>Scanning Acoustic Microscopy (SAM)</b>			<b>Level F</b>
Scanning Acoustic Microscopy (SAM) (Appendix C.6)	As specified	As specified	
<b>Other</b>			<b>Level G</b>
Other test/inspections	As specified	As specified	

Table AA – AS6081, Lot Sampling Plan

#### Table AA NOTES:

1. Devices for the Remarking & Resurfacing Inspection shall be selected from the Detailed External Visual Inspection lot.
2. Devices with possible lead finish anomalies shall be selected from the Detailed External Visual Inspection lot.
3. Devices for the Delid / Decapsulation Internal Analysis shall be selected from the Remarking & Resurfacing

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			81 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

Inspection lot.

### 380.9 Reporting Requirements

Upon identification of suspect or confirmed fraudulent/counterfeit parts, the Supplier shall notify the Eaton Buyer within 24 hours. Use form illustrated in 380.10. The following information shall be provided:

- 1) Name, contact information, and title
- 2) Document number
- 3) Date
- 4) Part number
- 5) National Stock Number (if applicable)
- 6) Lot code(s) affected (if applicable)
- 7) Date code(s) affected (if applicable)
- 8) Serial number(s) affected (if applicable)
- 9) Manufacturer and address
- 10) Manufacturer's point of contact/phone/fax/e-mail
- 11) Manufacturer's cage code
- 12) Supplier and address
- 13) Supplier's point of contact/phone/fax/e-mail
- 14) Supplier's cage code
- 15) Problem description/discussion/effect
- 16) Action taken/planned
- 17) Date of notification

The Supplier shall also provide timely notification (within 60 days) to the reporting service organizations (as applicable) and to the Authority Having Jurisdiction (as applicable) in accordance with AS5553.



## 380.10 Reporting Form

GOVERNMENT - INDUSTRY DATA EXCHANGE PROGRAM		
<b>ALERT</b>		
1. TITLE (Class, Function, Type, etc.)		2. DOCUMENT NUMBER
		3. DATE (DD-MMM-YY)
4. MANUFACTURER AND ADDRESS	5. PART NUMBER	6. NATIONAL STOCK NUMBER
	7. SPECIFICATION	8. GOVERNMENT PART NUMBER
	9. LOT DATE CODE START	10. LOT DATE CODE END
11. MANUFACTURER'S POINT OF CONTACT	12. CAGE	13. MANUFACTURER'S FAX ( )
14. MFR. POC PHONE ( )	15. MANUFACTURER'S E-MAIL	
16. SUPPLIER	17. SUPPLIER ADDRESS	18. SUPPLIER CAGE
19. PROBLEM DESCRIPTION / DISCUSSION / EFFECT		
20. ACTION TAKEN/PLANNED		
21. DATE MFR. NOTIFIED/ SUPPLIER NOTIFIED	22. MFR./SUPPLIER RESPONSE <input type="checkbox"/> REPLY ATTACHED <input type="checkbox"/> NO REPLY	23. ORIGINATOR ADDRESS/POINT OF CONTACT
24. GIDEP REPRESENTATIVE	25. SIGNATURE	26. DATE

GIDEP Form 97-1 (September 2009)

Form from AS5553 Appendix D

## **SPOC 390 Failure Mode and Effects Analysis (FMEA) and Reporting Process**

This SPOC is intended for applications that require specific Eaton approved test failure or anomaly analysis and reporting procedures using FMEA processes.

### **390.1 Types of FMEA's**

There are several types of FMEAs, some more common than others. FMEAs should always be done whenever failures would mean potential harm or injury to the user of the end item being designed. The types of FMEA are:

- System - focuses on global system functions
- Design - focuses on components and subsystems
- Process - focuses on manufacturing and assembly processes
- Service - focuses on service functions
- Software - focuses on software functions

### **390.2 FMEA Usage**

FMEA's provide the Supplier evaluation a system or failure mode assessment with a tool that can assist in providing reliable, safe, and customer pleasing products and processes. FMEA can help the engineer identify potential product or process failures, they can use it to:

- Develop product or process requirements that minimize the likelihood of those failures.
- Evaluate the requirements obtained from the customer or other participants in the design process to ensure that those requirements do not introduce potential failures.
- Identify design characteristics that contribute to failures and design them out of the system or at least minimize the resulting effects.
- Develop methods and procedures to develop and test the product/process to ensure that the failures have been successfully eliminated.
- Track and manage potential risks in the design. Tracking the risks contributes to the development of corporate memory and the success of future products as well.
- Ensure that any failures that could occur will not injure or seriously impact the customer of the product/process.

### **390.3 Reporting Information**

- Purchase contract number
- Part number
- Serial number (s)
- Buyer's rejection form number
- Applicable test procedures
- Results of special tests performed by seller
- Seller's certification that test procedures used to verify the failure identified by the buyer was adequate to detect those failures. Seller to provide number and revision of test procedure (s) used.

### **SPOC 400 Single Lot Requirement**

The entire quantity ordered will be delivered from one lot date code, batch number, or heat number. The Supplier will contact Eaton if this cannot be accomplished to obtain written authorization prior to shipping multiple lot date codes.

### **SPOC 410 Single Raw Material Lot**

All parts for this purchase order item should be from the same raw material lot number. If a single lot cannot be used, the parts will be produced from as few raw material lots as possible. The parts will be segregated, packaged and identified by raw material lot to maintain raw material lot identification & traceability.

### **SPOC 420 Manufacturing Plan Required**

The Supplier will develop a Manufacturing Plan that defines the manufacturing processes to be employed in the manufacture of the part/assembly. The Supplier is encouraged to maximize the use of current documentation techniques (e.g., Part Tracking Systems, Travelers, etc.). The Manufacturing Plan will be provided to the Eaton Buyer's Authorized Representative a minimum of 10 working days prior to the initial start of manufacturing. The Eaton Buyer's Authorized Representative will forward the documents to the appropriate group for review and approval. Manufacturing will not start until the Manufacturing Plan has been approved, in writing, prior to the start of manufacturing. The Manufacturing Plan will include the following as a minimum:

- a) Processing Sequence including a brief description of each main processing step.
- b) Equipment to be used at each step (e.g., Mill, Inspection Equipment).
- c) Any subcontracted procurements including the identification of sub-tier Suppliers (e.g., parts, processes, etc.).

### **SPOC 430 Manufacturing Readiness Review (MRR)**

A joint Eaton and Supplier Manufacturing Readiness Review (MRR) will be conducted at the Supplier's facility prior to the start of manufacturing when required by the Purchase Order (PO) or Statement of Work (SOW). The Supplier will submit the MRR data package to the Eaton Buyer's Authorized Representative a minimum of 10 days in advance of the scheduled MRR.

#### **430.1 MRR Objective**

The MRR objective is for the Supplier to demonstrate the overall production readiness prior to manufacturing, and to ensure that items to be manufactured will meet the requirements of the PO, SOW, engineering drawings and engineering specifications. The Supplier will demonstrate that all necessary manufacturing plans, inspection plans, travelers (build documentation), tooling, facilities, and other resources are in place and available to ensure meeting all quality and design requirements within the negotiated program budget and schedule.

#### **430.2 MRR Team**

The Supplier MRR team will consist of representatives from the management and the technical functions. The management functions will include the contract administrator and responsible project engineer as a minimum. The technical representatives will include design engineer/representative, manufacturing engineer/representative, and quality engineer/representative as a minimum.

#### 430.4 MRR Presentation

The MRR presentation will address the following items as a minimum:

- a. Supplier Project Team Organization with key personnel identified
- b. Overall Program Schedule including current status
- c. Procurement status including all sub-tier Suppliers, and if applicable, Qualification status
- d. Manufacturing milestone schedule
- e. Action Item Status/Review
- f. Design Status (as applicable) including current status, trade-offs, producibility studies, lessons learned, etc.
- g. Detailed Manufacturing Flow Diagram including Supplier inspection points and Buyer's Authorized Representative Mandatory Inspection Points (MIP).
- h. Manufacturing Documentation Status
- i. Inspection Documentation Status
- j. Test Documentation Status
- k. Tooling needs and statuses including drawing status, build status, calibration status, etc.
- l. Facilities Readiness including layout and capacity (including plant tour during MRR).
- m. Operators and Inspectors training records.
- n. Overall Project Risk Assessment; technical, cost, schedule. Should include any plans to mitigate risks identified.
- o. Any additional requirements to be part of the presentation as defined in the PO/SOW.

#### 430.5 MRR Data Package

**The MRR data package will include the following as a minimum:**

- a. Copy of MRR presentation
- b. Any Subcontractor (Supplier) Data Requirements List (SDRL) items as defined in the PO/SOW

**The following documentation, as a minimum, will be available for review at the MRR:**

- a. Supplier Drawings and Specifications (as applicable)
- b. Traveler(s)/Build Documentation
- c. Test Procedures (as applicable)
- d. Inspection Procedures
- e. Tooling Drawings

#### SPOC 440 Standard Repairs of Printed Board Assemblies (PBA)

Standard Repairs will be performed in accordance with IPC-7711 and IPC-7721. The Supplier will provide a document with each PBA/CCA that has had a standard repair. This document will provide:

- a) Serial number or UCN
- b) Location of the repair (zone on pictorial view of drawing or termination points)
- c) Type of repair performed Example: fill and drill.

#### SPOC 450 – Insulation, Isolation, Dielectric Testing

Insulation, Isolation, Dielectric isolation (DITMCO) testing is required when called out on the drawing. Records of DITMCO testing will be sent with the parts.

## **SPOC 460 Integrated Circuit (ICT) and Flying Probe (FP) Requirements**

When called out on a purchase order or engineering released drawing the Supplier will perform circuit testing by either ICT or FP prior to shipment to Eaton, and will provide certified test coverage reports that:

- a. lists each reference designator tested by each method.
- b. submitted as part of the FAI report (and subsequent delta FAI reports).

## **SPOC 470 Supplier Required Source Identification**

This SPOC is invoked when the customer or drawing requires that material or parts or assemblies must be procured from a Qualified Products List (QPL) driven from a Military Specification, an Approved Qualified Process Source (AQPS) driven by a Military Specification, a specified source on the purchase order or an Approved Parts Source List (APSL) driven by Eaton or the Customer. In all cases the Supplier will identify the manufacturer(s) of parts, assemblies, components, or materials furnished under this order. When procurement from a manufacturer listed on an Approved Qualified Process Source (AQPS) is required in accordance with a Military Specification.

- a. The required information will be packaged with each shipment against the Purchase Order.
- b. Supplier Name for each part number
- c. Identification of the Manufacturer for each part number
- d. Identification of Parts, Components and/or Materials
- e. Identification of Specifications of Product

**SPOC 480 Plastic Parts Mold and Casting Mold Identification** Parts produced from multi-cavity molds (injection or formed) must have mold produced markings that can be used for cavity identification and traceability. Numbers or letters are acceptable.

## **SPOC 490 Chemicals and Gases**

For specific requirements Suppliers, carriers, and shippers should consult the most current edition of 49 CFR Parts 100-185. Motor carriers should also consult the Federal Motor Carrier Safety Regulations. The Supplier is responsible to comply with these regulations. Gas Cylinder certification requirements will be called out on the drawing or follow the part numbering specific family requirements outlined in Section 490.1

### **490.1 Certification Requirements for Gas Cylinder**

Eaton part numbers beginning with G30-XXXX-XXXX require a certification listing the content of the gas within the cylinder. The certification should list all the gasses contained in the cylinder; typically in percent and parts per million for secondary gasses.

Eaton part numbers that begin with 33xxxxx will require the following process unless otherwise specified on the drawing. Two Certificates of Analysis must be received for each gas cylinder. The Analytical Principle\*/Instrument will be "O-Servomex 4100" on one cert and "L-Toledo ID 5 By Subtraction" on the other cert. The difference between the two certs will be +/- 0.06 or less per blueprint. The Eaton inspector will verify both certs meet drawing requirements for Requested and Certified Concentrations per Table I of the drawing.

The Supplier can contact the Supplier Quality Group to answer any questions concerning meeting this requirement. Example Certification below:

<b>Supplier Name</b>		Supplier Name Address Telephone Number Fax Number	
To: <span style="background-color: #4a7ebb; color: white; padding: 5px;">Supplier Name Address</span>		Issue Date: January 27, 2015	
Attention: Item Number 330xxx-xx			
Supplier Order Number: 3920492 Customer Order Number: 04295506 Customer Reference Number: WA982		Product Batch Number: H5683741401 Product Part Number: AT OX95PP-N2	
<b>CERTIFICATE OF ANALYSIS</b> <i>Primary Standard</i>			
Cylinder Serial Number	Components	Requested Concentration	Certified Concentration
M 937	Oxygen	95.00 %	94.999 %
	Argon	5.00 %	Balance
	Oxygen	Actual Analysis	95.01 %
	Oxygen	Second Analysis	95.01 %
			Analytical Principle*/ Instrument
			L – Toledo ID 5 By Subtraction
			O – Servomex 4100
			O – Servomex 4100
			Analytical Uncertainty
			± 0.02 % Absolute
			± 0.04 % Absolute
			± 0.04 % Absolute
Cylinder Style: K Cylinder Pressure @70°F (21°C): 2200 psig Cylinder Volume: 249 CF		Valve Outlet Connection: CGA 296 Filling Method: Gravimetric Fill Date: January 14, 2015	
Approved-Signer: <u>Jimmy Jones</u> Lead Lab Technician		<u>Mr. W. S. Smith</u> Quality Management	

## 490.2 Regulations & Procedures for Shipping Hazardous Materials

The regulations and procedures for shipping “hazardous” materials apply to all individuals involved with the transportation/shipping of hazardous materials. This includes all those individuals who arrange for transport and/or may engage in any of the following activities involving hazardous materials:

- Filling packages
- Marking and labeling packages
- Preparing shipping papers, handling, loading, securing and segregating packages within a transport vehicle, freight container or cargo hold, and transporting.

The U.S. Department of Transportation (DOT) enacts and enforces all hazardous materials (hazmat) transportation laws in the United States. Compliance with DOT regulations is a requirement for any person who offers a hazardous material for transportation.

### GENERAL INFORMATION

Hazardous Materials Background Information:

The hazardous materials shipper must meet the DOT's hazardous materials regulations (HMR), 49 CFR Parts 171-180, and adhere to the following:

- Check if the chemicals are being shipped or offered for shipment listed in the Hazmat table (49 CFR Subpart B, 172.101)
- Determine to ship Hazmat in small quantity or materials of trade

- Packaging (49 CFR 173)
- Markings (49 CFR 172.300) and Labels (49 CFR 172.400)
- Shipping Papers (49 CFR 172.200)
- Shipping Requirements for Dry Ice
- Shipping Requirements for Liquid Nitrogen

**Hazmat Shipping Procedures:**

Shipping procedures must be adhered to if you determine the materials you are going to ship are hazardous materials as defined by the DOT. A hazardous material is defined as any substance or material could adversely affect the safety of the public, handlers or carriers during transportation. All DOT hazardous materials are listed in the DOT's Hazardous Material Table. There are nine classes of hazardous materials:

Hazard Class 1: Explosives	1.1 mass explosion hazard 1.2 projectile hazard 1.3 minor blast/projectile/fire 1.4 minor blast 1.5 insensitive explosives 1.6 very insensitive explosives
Hazard Class 2: Compressed Gases	2.1 flammable gases 2.2 non flammable compressed 2.3 poisonous
Hazard Class 3: Flammable Liquids	Flammable (flash point below 141°) Combustible (flash point 141°-200°)
Hazard Class 4: Flammable Solids	4.1 flammable solids 4.2 spontaneously combustible 4.3 dangerous when wet
Hazard Class 5: Oxidizers and Organic Peroxides	5.1 Oxidizer 5.2 Organic Peroxide
Hazard Class 6: Toxic Materials	6.1 Material that is poisonous 6.2 Infectious Agents
Hazard Class 7: Radioactive Material	Radioactive I Radioactive II Radioactive III
Hazard Class 8: Corrosive Material	Destruction of the human skin Corrode steel at a rate of 0.25 inches per year
Hazard Class 9: Miscellaneous	A material that presents a hazard during shipment but does not meet the definition of the other classes

**SPOC 500 Supplier Deviation Request: Form SCSP741.02.01 - Shipping Nonconforming or Incomplete Parts and Assemblies from Supplier to Eaton**

This process is used when the Supplier finds material / parts that are non-conforming to engineering requirements and request Eaton MRB to determine next actions to:

- 1) bring the material / parts back to conforming,
- 2) cannot use the parts; thus, scrap the parts
- 3) initiate investigative process to provide relief through permanent engineering changes
- 4) grant permission to ship as is.



In cases where the supplier is granted permission to send in nonconforming parts or assemblies, the parts will be placed on a rejection tag (nonconforming record) at receipt. A copy of the signed off form **MUST** accompany the shipment. Verbal or email approvals are **NOT** permitted. If engineering determines a drawing change is acceptable then the Engineering Change Notice, Configuration Control Standard (ST1637815) process will follow.

The electronic form can be requested by contacting the Eaton Buyer. **All Supplier Deviation Requests MUST be coordinated with the Supply Chain Organization by contacting your Eaton Buyer.** Technical questions can be answered by the Design Engineer or Supplier Development Engineer. **ONLY** the buyer through executing SPOC 500 can grant shipment of non-conforming, noncompliant, or incomplete parts or assemblies.

### **Some examples for use of SPOC 500:**

- 1) Parts are not complete and Eaton will complete them to reduce emergent lead time (engineering is OK)
- 2) Tolerance issues on a specific lot that may not impact form, fit, and function (parts will work) and does not require engineering changes
- 3) Help the supplier reduce high scrap rates or reduce cost required to meet yield by documenting a request to have engineering evaluate relief – producibility / testability CTI
- 4) Emergent cosmetic issues
- 5) Emergent compliance issues.

### **INSTRUCTIONS FOR COMPLETING SUPPLIER DEVIATION REQUEST**

#### **1. General**

The Supplier Deviation Request (SDR) is used by the supplier to document a request for a product or process deviation. This form is to be **sent to the designated Eaton buyer** for processing.

#### **2. Instructions**

A. Supplier Information – Enter the current date, supplier’s name (and location), name of supplier contact, telephone # and email address **(to be completed by Supplier)**.

B. Part Information – Enter the specific part number, part description, drawing revision level, zone on drawing affected, PO number(s), lot quantity and defective quantity for the parts being requested for deviation **(to be completed by Supplier)**.

C. Deviation Request – Identify whether the request is **(to be completed by Supplier)**:

1. Product or process related?
2. A 1st time request or a repeat request?
3. A permanent or temporary request?
  - Current Requirement/Process – Fully describe the current requirement/specification or process (to be completed by Supplier)
  - Proposed Deviation – Fully describe the requested deviation from the current requirement/specification or process (to be completed by Supplier)
  - Reason for Deviation fully describe the reason for the deviation (to be completed by Supplier)

- Also identify the corrective actions to be taken to prevent a similar deviation in the future, if applicable (to be completed by Supplier)

D. Disposition – If material is deemed useable or acceptable – your Eaton buyer will respond with approval and the associated form.

## SPOC 510 Durometer Requirements

Durometer requirements will be called out on the drawing. When called out on the drawing the Supplier is responsible to perform a hardness test to assure the part meets specifications. Hardness in this instance may be defined as a material's resistance to permanent indentation. The term durometer is often used to refer to the measurement as well as the instrument itself. Durometer is typically used as a measure of hardness in polymers, elastomers, and rubbers.

### 510.1 Method of Measurement

Durometer, like many other hardness tests, measures the depth of an indentation in the material created by a given force on a standardized presser foot. This depth is dependent on the hardness of the material, its viscoelastic properties, the shape of the presser foot, and the duration of the test. ASTM D2240 durometers allows for a measurement of the initial hardness, or the indentation hardness after a given period of time. The basic test requires applying the force in a consistent manner, without shock, and measuring the hardness (depth of the indentation). If a timed hardness is desired, force is applied for the required time and then read. The material under test should be a minimum of 6.4 mm (0.25 inches) thick.

Test setup for type A & D<sup>[3]</sup>

Durometer	Indenting foot	Applied mass [kg]	Resulting force [N]
Type A	Hardened steel rod 1.1 mm - 1.4 mm diameter, with a truncated 35° cone, 0.79 mm diameter	0.822	8.064
Type D	Hardened steel rod 1.1 mm - 1.4 mm diameter, with a 30° conical point, 0.1 mm radius tip	4.550	44.64

The ASTM D2240 standard recognizes twelve different durometer scales using combinations of specific spring forces and indenter configurations. These scales are properly referred to as durometer types; *i.e.*, a durometer type is specifically designed to determine a specific scale, and the scale does not exist separately from the durometer. The table below provides details for each of these types, with the exception of Type R.<sup>[4]</sup>

Durometer Type	Configuration	Diameter	Extension	Spring force
A	35° truncated cone (frustum)	1.40 mm (0.055 in)	2.54 mm (0.100 in)	822 gf (8.06 N)
C	35° truncated cone (frustum)	1.40 mm (0.055 in)	2.54 mm (0.100 in)	4,536 gf (44.48 N)
D	30° cone	1.40 mm (0.055 in)	2.54 mm (0.100 in)	4,536 gf (44.48 N)
B	30° cone	1.40 mm (0.055 in)	2.54 mm (0.100 in)	822 gf (8.06 N)
M	30° cone	0.79 mm (0.031 in)	1.25 mm (0.049 in)	78 gf (0.76 N)
E	2.5 mm (0.098 in) spherical radius	4.50 mm (0.177 in)	2.54 mm (0.100 in)	822 gf (8.06 N)
O	1.20 mm (0.047 in) spherical radius	2.40 mm (0.094 in)	2.54 mm (0.100 in)	822 gf (8.06 N)
OO	1.20 mm (0.047 in) spherical radius	2.40 mm (0.094 in)	2.54 mm (0.100 in)	113 gf (1.11 N)
DO	1.20 mm (0.047 in) spherical radius	2.40 mm (0.094 in)	2.54 mm (0.100 in)	4,536 gf (44.48 N)
OOO	6.35 mm (0.250 in) spherical radius	10.7 mm (0.42 in) - 11.6 mm (0.46 in)	2.54 mm (0.100 in)	113 gf (1.11 N)
OOO-S	10.7 mm (0.42 in) radius disk	11.9 mm (0.47 in)	5.0 mm (0.20 in)	197 gf (1.93 N)

Note: "Type R is a designation, rather than a true "type". The R designation specifies a presser foot diameter (hence the R, for radius; obviously D could not be used) of  $18 \pm 0.5$  mm ( $0.71 \pm 0.02$  in) in diameter, while the spring forces and indenter configurations remain unchanged. The R designation is applicable to any D2240 Type, with the exception of Type M; the R designation is expressed as Type xR, where x is the D2240 type, *e.g.*, aR, dR, etc.; the R designation also mandates the employment of an operating stand".<sup>[4]</sup>

The final value of the hardness depends on the depth of the indenter after it has been applied for 15 seconds on the material. If the indenter penetrates 2.54 mm (0.100 inch) or more into the material, the durometer is 0 for that scale. If it does not penetrate at all, then the durometer is 100 for that scale. It is for this reason that multiple scales exist. Durometer is a dimensionless quantity, and there is no simple relationship between a material's durometer in one scale, and its durometer in any other scale, or by any other hardness test.

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			92 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

## 510.2 Supplier Reporting Requirements

When the drawing or PO calls out the durometer requirement then the Supplier will send in the information below with the C of C documentation. The Elastomeric Compound Identification form shown below or the Supplier's equivalent format may be used. Identify the package containing this documentation.

### ELASTOMERIC COMPOUND IDENTIFICATION

Purchase order no. \_\_\_\_\_  
 Compound no: \_\_\_\_\_  
 Durometer: \_\_\_\_\_  
 Supplier \_\_\_\_\_  
 Signature \_\_\_\_\_ Title \_\_\_\_\_  
 Date \_\_\_\_\_

## SPOC 520 Notice of Change Process

If Supplier proposes any change to the Goods or Services, it will submit its request through the Notice of Change (NOC) process outlined below. Supplier will request the details of the NOC process from Buyer's Authorized Representative. Supplier must receive approval from Buyer's Authorized Representative before Buyer will accept any altered Goods or Services. Notwithstanding the foregoing, Supplier will notify Buyer of all Major Changes.

### Follow the NOC Steps Below:

- Contact the Eaton's Authorized Representative when a NOC is warranted
- Provide reason(s) for change
- Provide Form, Fit, and Function impact details
- Provide engineering documentation / specifications required for impact analysis
- Eaton's Authorized Representative will coordinate change request with Engineering
- Engineering will assess impact to Eaton's product / customer requirements
- Engineering will collaborate directly with Supplier's technical representative
- Engineering will officially notify Eaton's Authorized Representative of approval / disapproval
- Eaton's Authorized Representative will process results and coordinate with Supplier

Note: when the IP is owned by the supplier then AS 9100 class 1 changes must be communicated to Eaton through the buyer. AS 9100 class 2 changes typically do not require notification.

## SPOC 600 Airbus Common Specific Requirements

### 600.1 GRESS E-0009 and GRESS AP1013

Products or services provided under this purchase order must comply with the requirements stated in Airbus' GRESS E-0009 and GRESS AP1013 document (General Requirements for Equipment Suppliers). Buyer's Authorized Representative (or Buyer's Authorized Representative's representative) may assess Supplier's processes and/or product using the IPCA Industrial Process Control Assessment (or other) to validate compliance.

## **SPOC 625 Boeing Common Specific Requirements**

### **625.1 – Boeing Approved Source for parts and processes.**

Supplier must comply with the latest revision of the D1-4426 Boeing Approved Process Sources requirement specification and be a Boeing approved source. For purchases orders with this SPOC requirement the Supplier must provide documentation with the shipment of part proving the Supplier used the approved Supplier or processor.

### **625.2 AS9102 First Article Inspection Report, for Boeing Aerospace Company (BAC)**

#### **Standard Hardware parts only. Special Clause**

BAC controlled standard hardware (bolts, screws, rivets, washers, typically commercial off the shelf items, etc.) does not have to have FAI documentation sent with the first shipment; however, if the First Article Inspection report is not sent with the first receipt of parts, (new or revised) the Supplier must be able to obtain the original manufacture's First Article Inspection report upon request by Mission Systems Davenport Inc. All other applicable quality requirements must accompany the product/parts shipment.

### **625.3 X31764 Quality Purchasing Data Requirements – Boeing Commercial Aircraft (BCA)**

Suppliers and Sub-Suppliers must comply with requirements outlined in the X31764 document. The document can be acquired at [www.boeingsuppliers.com/X31764.pdf](http://www.boeingsuppliers.com/X31764.pdf).

### **625.4 Boeing Common Quality Requirements**

Below is a summary of the Quality Requirements Boeing flows down to their suppliers. These are to be met as a minimum when working on a Boeing program. The Boeing requirements and the latest revisions can be obtained by visiting the following website.

<http://www.boeingsuppliers.com/clauses/clauses.html>

If Eaton SPOCs are greater than the Boeing requirements, then the supplier must comply with the Eaton SPOCs. Each Boeing Quality clauses listed has a description of the clause. The supplier should check the Boeing Website to assure no updates have been made by Boeing.

#### **A17 –CONTRACT ADMIN:**

In performing the obligations of this Agreement, both Parties will comply with United States export control and sanctions laws, regulations, and orders, as they may be amended from time to time, applicable to the export and re-export of goods, software, technology, or technical data ("Items") or services, including without limitation the Export Administration Regulations ("EAR"), International Traffic in Arms Regulations ("ITAR"), and regulations and orders administered by the Treasury Department's Office of Foreign Assets Control (collectively, "Export Control Laws").

B. The Party conducting the export shall be responsible for obtaining the required authorizations. The Party conducting the re-export shall be responsible for obtaining the required authorizations. Each Party shall reasonably cooperate and exercise reasonable efforts to support the other Party in obtaining any necessary licenses or authorizations required to perform its obligations under this Agreement.

C. The Party providing any Items under this Agreement shall, upon request, notify the other Party of the

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			94 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

Items' Export Control Classification Numbers ("ECCNs") as well as the ECCNs of any components or parts thereof if they are different from the ECCN of the Item at issue.

D. Each Party represents that (i) the Items, and the parts and components thereof, it is providing under this Agreement are not "defense articles" as that term is defined in 22 C.F.R. sub section 120.6 of the ITAR. And (ii) the services it is providing under this Agreement are not "defense services" as that term is defined in 22 C.F.R. sub section 120.9 of the ITAR. The Parties acknowledge that this representation means that an official capable of binding the Party providing such Items knows or has otherwise determined that such Items, and the parts and components thereof, are not on the ITAR's Munitions List at 22 C.F.R. sub section 121.1. Each Party agrees to reasonably cooperate with the other in providing, upon request of the other Party, documentation or other information that supports or confirms this representation.

E. To the extent that such Items, or any parts or components thereof, were specifically designed or modified for a military end use or end user, the Party providing such Items shall notify the other Party of this fact and shall also provide the other Party with written confirmation from the United States Department of State that such Items, and all such parts or components thereof, are not subject to the jurisdiction of the ITAR.

Boeing requires that the provisions/requirements set forth above be included in Sellers direct supply contracts as well as the obligation that they be flowed to the sub-tier supply chain. For purposes of this note, Supply Chain shall mean Seller's direct network of suppliers providing material, equipment, information, and services integrated into products and services.

**Q006 Boeing Quality Management System (BQMS) Requirements: Appendix B "Inspection and Test Quality System" – 11/11/2003**

Seller is required to maintain a quality system that complies with the requirements of Appendix B of Boeing Document D6-82479, "Boeing Quality Management System (BQMS) Requirement for Suppliers, as amended from time to time. Boeing Document D6-82479 is incorporated herein and made a part hereof by reference. Boeing reserves the right to conduct surveillance at Seller's facility to determine whether Seller's quality system meets the requirements of this clause. A copy of Boeing Document D6-82479 can be obtained at the following URL address: <http://www.BoeingSuppliers.com/supplier/>

**Q09 –INSPECTION:** SELLER SHALL MAINTAIN, AND HAVE AVAILABLE ON A TIMELY BASIS, QUALITY RECORDS TRACEABLE TO THE CONFORMANCE OF PRODUCT/PART NUMBERS DELIVERED TO BOEING. SELLER SHALL MAKE SUCH RECORDS AVAILABLE TO REGULATORY AUTHORITIES AND BOEING'S AUTHORIZED REPRESENTATIVES. SELLER SHALL RETAIN SUCH RECORDS FOR CALENDAR YEAR + 10 YEARS FROM THE DATE OF SHIPMENT UNDER EACH APPLICABLE ORDER FOR ALL PRODUCT/PART NUMBERS UNLESS OTHERWISE SPECIFIED ON THE ORDER.

At the expiration of such period set forth above and prior to any disposal of records, Seller will notify Boeing of records to be disposed of and Boeing reserves the right to request delivery of such records. In the event Boeing chooses to exercise this right, Seller shall promptly deliver such records to Boeing at no additional cost on media agreed to by both parties.

Boeing requires that the provisions/requirements set forth above be included in Sellers direct supply contracts

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			95 of 112
Owner/Author: Kyle Weber Accountable: VP of Quality Assurance		Effective Date: 13-May-2024 Original Date: 10-Feb-2016	

related to the Products/Part Numbers. Supply Chain shall mean network of material, equipment, information, and services integrated into products and services for the ultimate customer.

**Q13**

SELLER MUST PROVIDE A STATEMENT ON THE PACKING SHEET CERTIFYING ITS QUALITY ASSURANCE DEPARTMENT HAS INSPECTED THE PARTS AND THEY ADHERE TO ALL REQUIREMENTS, APPLICABLE DRAWINGS/SPECIFICATIONS.

OR

WHEN THE SELLER IS LOCATED OUTSIDE OF THE UNITED STATES AND THEY SUBMIT AN EASA/JAA/FCAA FORM-1, THE FOLLOWING CONDITIONS MUST EXIST ON THE FORM:

1. BLOCK 11 STATUS IS IDENTIFIED AS "NEW"

AND

2. BLOCK 12 TITLED "REMARKS" CONTAINS a STATEMENT CERTIFYING THE SELLER'S QUALITY ASSURANCE DEPARTMENT HAS INSPECTED THE PARTS.

AND

3. BLOCK 12 TITLED "REMARKS" DOES NOT CONTAIN CERTIFICATION STATEMENTS OF PMA, PROTOTYPE, NOT TO BE INSTALLED ON CERTIFIED AIRCRAFT, OR ANY STATEMENT THAT DOES NOT SUPPORT PC700 CERTIFICATION.

AND

4. BLOCK 13a "CERTIFIES THAT THE ITEMS IDENTIFIED ABOVE WERE MANUFACTURED IN CONFORMITY TO: APPROVED DESIGN DATA AND ARE IN CONDITION FOR SAFE OPERATION"

Boeing requires that the provisions/requirements set forth above be included in Sellers direct supply contracts as well as the obligation that they be flowed to the sub-tier supply chain

**Q019 D1-4426 APPROVED PROCESS SOURCE – DELIVERABLE – 4/17/2015**

Seller and/or Seller's subcontract process sources shall be an approved processor or shall use approved processors as required by D1-4426, "Approved Process Sources". A list of the approved processors and associated processes are available from Buyer's Procurement Agent or at:

<http://www.boeingsuppliers.com/supQual.htm>

This clause shall be included in Seller's subcontracts for work performed under this purchase contract that involves D1-4426 processes.

A Certificate of Conformance and/or equivalent Process Certificate, signed by an authorized agent of the Processor/Seller shall be included with shipping documentation (packing slip/invoice). The certificate shall include purchase contract number, part number(s), Trace Number (as applicable), Process Specification number (with revision), processing date(s) and name and address of the Processor(s) performing each of the D1-4426 Processes.

**Q028 ENGINEERING DATASET/DRAWING INFORMATION (VARIABLE) 2/16/2011**

Seller shall ensure the engineering documents (e.g., drawing, dataset, parts list, specifications, engineering planning documents, statement of work) of the configuration specified for this contract item is available and applied as the authority for the manufacture and inspection of the ordered Goods.



Seller shall ensure goods conform to specified engineering documents and associated revision.

Seller will contact Buyer's Authorized Procurement Representative for resolution of differences between configuration of Goods and the contract specified engineering documents and associated revision.

Seller shall ensure resolution of configuration differences in advance of Seller's request for Buyer verification (when required) and in any case prior to shipment. Seller shall record on shipping document, the configuration information of the Goods and, when applicable, serial number. The configuration information shall include the revision for the applicable; engineering documents.

- Drawing and/or Dataset & Revision:
- Parts List & Revision:
- Engineering / manufacturing document (e.g., SPECO) & Revision:
- Specification & Revision:
- Statement of Work & Revision:

#### **Q029 Digital Product Definition (DPD) / Model Base Information**

Seller shall conform to Buyer's document D6-51991 "Quality Assurance Standard for Digital Product Definition at Boeing Suppliers" and obtain Buyer approval as DPD Capable if Seller receives, downloads, and/or uses Buyer's DPD geometry in any format.

- If Seller receives Buyer's DPD geometry in MBD format, Seller is required to obtain Buyer's approval as MBD-capable.

- If Seller provides Buyer's DPD geometry to Seller's subcontractors in any format, Seller shall impose Buyer's document D6-51991 as a requirement and is responsible for its subcontractor's conformance.

- If Seller provides Buyer's DPD geometry in any format to Seller's subcontractors, Seller shall comply with all applicable export laws.

A copy of Buyer's document D6-51991 and associated documents can be obtained at the following URL or are available through Buyer's Authorized Procurement Representative.

<http://www.boeing.com/companyoffices/doingbiz/dpd.html>

#### **Q29 –**

Seller shall comply with Boeing Form X31764, AS/EN/JISQ 9100 flow-down requirements and PO Note management requirements set forth below.

##### **A. Boeing Form X31764**

1. Seller shall comply with the requirements of Form X31764 (10/01/2016) "Boeing Quality Purchasing Data Requirements". To ensure Seller is performing to the latest Boeing Form X31764, Seller shall access this form by selecting "Supplier Quality" from the menu bar of "Doing Business with Boeing" home page located at the following URL address: <http://www.boeing.com/companyoffices/doingbiz/dpd.html>. When entering the URL, use lower case letters only. Seller shall flow-down to its Supply Chain the provisions/requirements of X31764.

2. For purposes of this PO Note, "Supply Chain" means Seller's complete network of material, equipment, information, and services integrated into deliverable products and services provided to Seller by Seller's direct first tier supply contracts and Seller's sub-tier or lower tier supply contracts.

##### **B. AS/EN/JISQ 9100 Flow-Down Requirements**

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			97 of 112
Owner/Author: Kyle Weber Accountable: VP of Quality Assurance		Effective Date: 13-May-2024 Original Date: 10-Feb-2016	

In accordance with AS/EN/JISQ 9100, Seller shall flow-down to its Supply Chain the applicable provisions/requirements of AS/EN/JISQ 9100.

#### C. PO Note Management Requirements

1. Seller shall comply with all PO Notes when required by applicable contractual agreement. Boeing PO Notes are supplemental terms and conditions that consist of both quality and non-quality assurance terms and conditions. Each PO Note is designated by code number, e.g., Q29, S68, A21, etc. PO Notes may apply to the Seller via Boeing Purchase Contract or Purchase Order and may be referenced by Boeing solicitations and letter agreements. A PO Note may be referred to as "PO Note" or "Note".
2. Boeing may revise the PO Notes from time to time. To ensure Seller is performing to the latest Boeing PO Note, Seller shall access the latest PO Note revisions via the Boeing Partners Network (BPN) Supplier Portal View. "PO Notes" are listed under "My Products". When Seller reviews a PO Note revision, the PO Notes page will reflect the revision as 'Acknowledged' by Seller. Seller shall access on a quarterly basis the latest PO Note revisions via the BPN Supplier Portal by the following dates of the year: 1/15, 4/15, 7/15 and 10/15.
3. The latest PO Note revision identified by the BPN Supplier Portal is effective, and therefore applicable to the Boeing Order as of the revision date of the PO Note, unless otherwise agreed in writing by the parties for the applicable Order.
4. If Seller does not have BPN Supplier Portal access, Seller shall contact the Boeing Procurement Representative and request the latest PO Note text by specifying the applicable PO Note code number. Seller shall make such requests quarterly by the dates specified in above paragraph "2". Upon receipt of such request, Boeing will provide the applicable PO Note text to Seller. If Seller has an ERP purchase order, but no corresponding ERP purchase contract, upon request from Seller, Boeing will provide Seller the full text of each PO Note.

#### Q31

01 JUL 2017

This procurement is under Boeing's Federal Aviation Administration (FAA) issued Production Certificate 700 quality system supplier control program. Unless explicit contractual direction is given to the contrary, no articles (or constituent parts thereof) ordered by Boeing Commercial Airplanes shall contain any Federal Aviation Administration- Parts Manufacturer Approval (FAA-PMA) markings and the accompanying paperwork (e.g., packages, shippers, etc.) shall not contain any FAA-PMA markings.

THE SELLER WILL PLACE THE FOLLOWING STATEMENT ON THE SHIPPING DOCUMENTATION OF ALL SHIPMENTS TO BOEING:

"Seller hereby acknowledges that the parts and/or materials being shipped under this order are intended for use under Boeing's Federal Aviation Administration (FAA) issued Production Certificate 700 and no articles (or constituent parts thereof) or the accompanying paperwork (e.g., packages, shippers, etc.) contain any Federal Aviation Administration- Parts Manufacturer Approval (FAA-PMA) markings."

APPLICATION NOTE FOR SUPPLIER 1: THE PREFERRED LOCATION FOR THE STATEMENT IS ON THE SHIPPING DOCUMENT, NEXT TO, OR FOLLOWING, THE CERTIFICATE OF CONFORMANCE (C of C). THE STATEMENT MAY BE PRINTED, STAMPED OR ATTACHED AS A LABEL OR STICKER TO THE SHIPPING

DOCUMENTATION. IT IS ALLOWABLE TO REPLACE "Seller" WITH THE COMPANY NAME OR "WE". APPLICATION NOTE FOR SUPPLIER 2: PO NOTE Q31 PUBLISHED ON JANUARY 1, 2017, SHALL BE FULLY IMPLEMENTED MAY 1, 2018. UNTIL MAY 1, 2018, IF A SUPPLIER HAS NOT ADOPTED THE JANUARY 1, 2017, Q31 NOTE, THEN THE SUPPLIER MAY INCLUDE THE FOLLOWING Q31 NOTE TEXT REVISED JANUARY 1, 2016: "SELLER HEREBY ACKNOWLEDGES THAT THE PARTS AND/OR MATERIALS BEING SHIPPED UNDER THIS ORDER ARE INTENDED FOR USE UNDER BOEING'S FEDERAL AVIATION ADMINISTRATION (FAA) ISSUED PRODUCTION CERTIFICATE 700." NOT WITHSTANDING THE MAY 1, 2018 FULL IMPLEMENTATION DATE, ALL SELLER SHIPMENTS SHALL BE CONSISTENT WITH THE FOLLOWING STATEMENT: NO ARTICLES (OR CONSTITUENT PARTS THEREOF) ORDERED BY BOEING SHALL CONTAIN ANY FEDERAL AVIATION ADMINISTRATION PARTS MANUFACTURER APPROVAL (FAA-PMA) MARKINGS AND THE ACCOMPANYING PAPERWORK SHALL NOT CONTAIN ANY FAA-PMA MARKINGS.

Boeing requires that the provisions/requirements set forth above, as determined by the Seller to be applicable, be included in Seller's direct supply contracts as well as the obligation that they be flowed to the sub-tier supply chain. For purposes of this note, Supply Chain shall mean Seller's complete network of material, equipment, information, and services integrated into products and services. It focuses on direct and all lower-tier suppliers.

### **Q301 Unconfirmed Failure Rejections**

In the event Goods delivered on this purchase contract are rejected and returned by the buyer to the seller and the seller is unable to confirm the reported failure, the seller shall provide the following to the buyer and hold shipment pending buyer disposition:

1. Purchase contract number
2. Part number
3. Serial number(s)
4. Buyer's rejection form number
5. Applicable test procedures
6. Results of special tests performed by seller
7. Seller's certification that test procedure used to verify the failure identified by the buyer was adequate to detect those failures. Seller to provide number and revision of test procedure(s) used.

### **Q312 MRB DISPOSITION OF QUALIFICATION ITEMS**

Prior to shipment of Qualification items, Seller is required to contact Buyer's Authorized Procurement Representative and obtain appropriate Material Review Board (MRB) disposition. This clause applies only to Qualification items and is otherwise self-deleting.

### **S68 –ACCOUNTING:**

REPRESENTATIVES OF BOEING AND/OR THE FEDERAL AVIATION ADMINISTRATION (IF NON-DOMESTIC, BOEING AND/OR THE FEDERAL AVIATION ADMINISTRATION AND/OR EQUIVALENT FOREIGN CIVIL AVIATION AUTHORITIES) MAY INSPECT AND EVALUATE SELLER'S FACILITIES' SYSTEMS, DATA, EQUIPMENT, PERSONNEL AND ALL COMPLETED ARTICLES MANUFACTURED FOR INSTALLATION ON BOEING COMMERCIAL PRODUCTION AIRPLANES. RIGHT OF ENTRY/ACCESS INCLUDES MEETING THE REQUIREMENTS OF THE FAA AND/OR APPLICABLE EQUIVALENT FOREIGN CIVIL AVIATION AUTHORITIES TO PERFORM OVERSIGHT OF THE FACILITY.



Boeing requires that the provisions/requirements set forth above be included in Sellers direct supply contracts as well as the obligation that they be flowed to the sub-tier supply chain.

**T88 –PERFORMANCE:**

Definition. "Ozone-depleting substance," as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR Part 82 as--

(1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or

(2) Class II, including, but not limited to hydrochlorofluorocarbons.

Seller shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), and (d) and 40 CFR Part 82, Subpart E, as applicable:

Warning

Contains \* \_\_\_\_\_, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

Warning

Manufactured with \* \_\_\_\_\_, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

\* Seller shall insert the name of the substance(s).

Boeing requires that the provisions/requirements set forth above be included in Seller's direct supply contracts as well as the obligation that they be flowed to the sub-tier supply chain. For the purpose of this note Supply Chain shall mean Seller's direct and indirect suppliers performing value-added activity on the products and services. It focuses on direct and lower-tier suppliers.

**U40 –**

NOTIFICATION OF ESCAPEMENT (NOE) PROCESS:

SELLER SHALL PROVIDE WRITTEN NOTIFICATION TO BOEING WHEN A NONCONFORMANCE IS DETERMINED TO EXIST, OR IS SUSPECTED TO EXIST, ON PRODUCT ALREADY DELIVERED TO BOEING. WRITTEN NOTIFICATION SHALL INCLUDE:

A - AFFECTED PROCESS(ES) OR PRODUCT NUMBER(S) AND NAME(S)

B - DESCRIPTION OF THE NONCONFORMING CONDITION AND THE AFFECTED ENGINEERING REQUIREMENT (I.E., WHAT IT IS AND WHAT IT SHOULD BE)

C - QUANTITIES, DATES, PURCHASE ORDERS AND DESTINATIONS OF DELIVERED SHIPMENTS

D - SUSPECT/AFFECTED SERIAL NUMBER(S) OR DATE CODES, AND AIRPLANE LINE UNITS WHEN APPLICABLE.

NOTIFICATION MUST OCCUR WITHIN THREE (3) BUSINESS DAYS OF KNOWING ALL THE ABOVE INFORMATION. HOWEVER, IF THE CONDITION IS POSSIBLE SAFETY OF FLIGHT, SUBMIT ALL AVAILABLE INFORMATION IMMEDIATELY.

NOTE: SUPPLIERS SHOULD REFERENCE THE FOLLOWING DOCUMENTS FOR ADDITIONAL NOE PROCESS

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			100 of 112
Owner/Author: Kyle Weber Accountable: VP of Quality Assurance		Effective Date: 13-May-2024 Original Date: 10-Feb-2016	

#### REQUIREMENTS:

A - THE D012Z026-01 DOCUMENT, SECTION 2 (787 ONLY)

B - THE T89 PURCHASE ORDER NOTE (IF APPLICABLE, ALL PROGRAMS)

C - THE D012Z028-01 DOCUMENT, SECTION 3.14 (IF APPLICABLE, 787 ONLY)

SELLERS WITH DELEGATED AUTHORITY IN ACCORDANCE WITH D-13709-4 APPENDIX C THAT DISCOVER THE DELIVERY OR SUSPECTED DELIVERY OF NONCONFORMING PRODUCT, ARE NOT REQUIRED TO NOTIFY BOEING WITHIN THREE (3) BUSINESS DAYS UNLESS SAFETY OR CERTIFICATION CONCERNS EXIST. ESCAPED PRODUCT IS TO BE INVESTIGATED AND COMMUNICATED TO BOEING AS REQUIRED BY D-13709-4 APPENDIX C.

SELLER SHALL NOTIFY THE FOLLOWING:

- THE BOEING PROCUREMENT REPRESENTATIVE,
- THE BOEING SUPPLIER QUALITY REPRESENTATIVE (SQR) THAT HAS OVERSIGHT OF SELLER'S FACILITY FOR PRODUCT PROCURED BY BCA PUGET SOUND, ALSO NOTIFY BCA SUPPLIER QUALITY SPECIAL INVESTIGATIONS GROUP

IF DIRECTED BY THE BOEING SQR, SUPPLIERS SHALL SUBMIT A BACKGROUND NOTIFICATION (BN) FORM TO THE BOEING SQR FOR PRE-EVALUATION AND GUIDANCE. BN FORM AVAILABLE AT THE FOLLOWING WEBSITE: <http://www.boeing.com/suppliers/d14426/index.html> , click User Instructions/ Processor Requirements, Exhibits and Appendices and Exhibit IV

FOR SUSTAINING PROGRAMS (737, 747, 767, 777, SPARES AND MRO SERVICES):

WRITTEN NOTIFICATION SHALL BE SUBMITTED TO BOEING VIA:

- THE BOEING PARTNERS NETWORK (BCA DEFAULT PROFILE), OR
- EMAIL NON-PROPRIETARY INFORMATION TO [smpsi@boeing.com](mailto:smpsi@boeing.com) OR
- FAX (425-717-8010) NOTE: WHEN FAXING PROPRIETARY INFO, A RECIPIENT MUST BE STANDING BY TO RECEIVE FAX.

FOR 787 PROGRAM AND 787 SPARES:

WRITTEN NOTIFICATION SHALL BE SUBMITTED TO BOEING VIA:

- INITIATION AND SUBMITTAL OF A NOTICE OF ESCAPEMENT EMERGENT PROCESS DOCUMENT (EPD) WITHIN THE VELOCITY SYSTEM OR
- IF THE VELOCITY SYSTEM IS UNAVAILABLE, E-MAIL NON-PROPRIETARY INFORMATION TO [787NoEGP@boeing.com](mailto:787NoEGP@boeing.com).

IF THE NONCONFORMING CONDITION HAS BEEN PREVIOUSLY IDENTIFIED BY BOEING USING A NONCONFORMANCE RECORD AND A CORRECTIVE ACTION HAS BEEN REQUESTED, THE SELLER SHALL NOTIFY THE BOEING INVESTIGATOR IDENTIFIED ON THE NOTIFICATION THAT ADDITIONAL PARTS ARE AFFECTED(SAME PART NUMBER(S)/SAME CONDITION). NOTE: ADDITIONAL PART NUMBERS OR NEW NONCONFORMING CONDITIONS ARE IN SCOPE FOR THE NOE PROCESS.

A NOE CAN ONLY BE USED WHEN THERE IS A NON-CONFORMANCE. A NOE IS NOT APPROPRIATE WHEN THE COMPONENT DOES NOT MEET AIRPLANE LEVEL REQUIREMENTS (NON-COMPLIANT). PARTS THAT CONFORM, BUT DO NOT MEET REQUIREMENTS, CAN BE ADDRESSED WITH EITHER OF THE FOLLOWING OPTIONS:

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			101 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

- PART NUMBER ROLL INITIATED BY CHANGE REQUEST OR 95000 CHANGE AND EXPEDITED WITH AN ENGINEERING QUICK CHANGE. BAD PARTS AND PART NUMBERS CAN BE CAPTURED VIA PART NUMBER CONTROL AND OUT OF SEQUENCE INSTALLATION.

- SUPPLIER MOD LEVEL CHANGE THAT FLOWS THROUGH THE BOEING PRODUCTION SYSTEM AND THE PRE-MOD PARTS ARE ADDRESSED WITH SUPPLIER SERVICE BULLETIN. THIS OPTION IS GENERALLY NOT PREFERRED.

ENGINEERING DESIGN ERRORS:

\*\*\*DO NOT SEND ENGINEERING DESIGN ERRORS TO BCA SUPPLIER QUALITY SPECIAL INVESTIGATION GROUP USING THE NOE PROCESS\*\*\*.

FOR PRODUCT DELIVERED WHICH HAD BEEN DETERMINED TO CONTAIN ENGINEERING ERRORS: SELLER SHALL PROVIDE WRITTEN NOTIFICATION TO BOEING WITHIN THREE (3) BUSINESS DAYS WHEN IT IS DETERMINED THAT PRODUCT SHIPPED, WHILE MEETING THE SUPPLIER PRODUCT DEFINITION, DOES NOT MEET, OR IS SUSPECTED TO NOT MEET, THE AIRPLANE DESIGN REQUIREMENTS.

WHEN THE FOLLOWING IS KNOWN, WRITTEN NOTIFICATION SHALL INCLUDE:

- AFFECTED PROCESS OR PRODUCT NUMBER AND NAME
- DESCRIPTION OF THE PROBLEM (I.E., WHAT IT IS AND WHAT IT SHOULD BE)
- QUANTITY, DATES, PURCHASE ORDERS AND DESTINATION OF SHIPMENT DELIVERED
- SUSPECT/AFFECTED SERIAL NUMBER(S) OR DATE CODES, WHEN APPLICABLE.

WRITTEN NOTIFICATION BY THE SELLER SHALL BE TO:

- THE BOEING PROCUREMENT REPRESENTATIVE, AND
- THE BOEING SQR THAT HAS OVERSIGHT OF THE SUPPLIERS FACILITY, AND
- FOR 787 PROGRAM, REFER TO DOCUMENT 787N8-2693 FOR INSTRUCTIONS ON HOW TO COMMUNICATE A PROBLEM TO THE PRODUCT DEFINITION DATA (PDD) OWNER VIA THE PROBLEM REPORT PROCESS (PREFERRED METHOD) OR
- SUPPLIERS AND OTHERS WHO DO NOT USE THE PROBLEM REPORT PROCESS SHALL SUBMIT THEIR NOTIFICATIONS THROUGH THE FOLLOWING GROUP MAILBOX: 787DE-PartnerDesignErrors@boeing.com

THE REQUIREMENTS SET FORTH ABOVE SHALL BE FLOWED DOWN BY SELLER TO SELLER'S SUPPLY CHAIN, WITH THE MODIFICATION THAT ALL SUPPLY CHAIN NOTIFICATION SHALL PASS THROUGH SELLER (AND NOT MADE DIRECT FROM SUPPLY CHAIN TO BOEING). SELLER SHALL NOTIFY BOEING OF ALL SUB-TIER ESCAPES AND DESIGN ERRORS IN ACCORDANCE WITH RESPECTIVE COMMUNICATION PROCESS SET FORTH HEREIN. PURPOSE OF THIS NOTE, SUPPLY CHAIN SHALL MEAN SELLER'S COMPLETE NETWORK OF MATERIAL, EQUIPMENT, INFORMATION, AND SERVICES INTEGRATED INTO PRODUCTS AND SERVICES.

## 650 Lockheed Martin QX Supplier Quality Requirements

Below is a summary of the Quality Requirements Lockheed Martin flows down to their suppliers. These are to be met as a minimum when working on a Lockheed Martin program. They can be obtained by visiting the following website: [www.lockheedmartin.com/us/aeronautics/materialmanagement.html](http://www.lockheedmartin.com/us/aeronautics/materialmanagement.html)

If Eaton SPOC requirements are greater than the Lockheed Martin requirements, then the supplier must comply with the Eaton SPOCs. Each Lockheed Martin Quality requirement listed has a description. The supplier



is responsible for checking the Lockheed Martin website to ensure no revisions have been made by Lockheed Martin.

**1.0 Quality Requirements:** Seller shall meet the applicable requirements of the latest revision of Appendix QX in effect as of the date of the Request for Proposal (RFP), unless otherwise amended by Buyer and Seller prior to PO issuance. Seller shall:

- a. ensure all applicable QX requirements herein and other quality requirements in this PO are imposed upon Sellers, its agents and subcontractors at all tiers working on Buyer's product; and
- b. have and maintain internet access for obtaining requirements of this PO.

**1.1 Quality System Changes and Customer Findings:**

a. Seller shall notify Buyer's Supplier Quality Engineer (SQE), in writing by submitting the QX 1.1 Event Notification form available at: [www.lockheedmartin.com/us/aeronautics/materialmanagement.html](http://www.lockheedmartin.com/us/aeronautics/materialmanagement.html) under Quality Requirements > Forms, within 10 days of any of the following:

1. change in its quality system status; or
2. loss of third-party registrar's certification status; or
3. change in Seller's quality organization, processes or procedures that are known to affect or could potentially affect conformity of any Item; or
4. adverse action taken by a US Government entity (e.g., FAA, CAA, OSHA, DoD, EPA, etc.), third party registrar, International Government Agencies, or Nadcap to include, but is not limited to, any of the following:
  - i. Issuance of any major Level II or Level III Corrective Action Request associated with Buyer Items, Quality Management System or processes associated with Buyer Items
  - ii. Issuance of a major finding by a third-party registrar
  - iii. Suspension of Government Source Inspection

b. Seller shall provide actions taken or planned actions related to any events listed in 1.1.a.1 through 1.1.a.4 above with the written notification.

c. Seller shall provide within 30 days of the written notification the approved corrective actions taken in response to any adverse actions reported in 1.1.a.4 above.

d. Seller shall permit Buyer access to data in OASIS and Nadcap databases including registration documentation, certification, audit reports, findings, corrective actions, etc. Buyer reserves the right to input repetitive escape data and major audit findings regarding Seller into the relevant OASIS data base records for review by the Seller's Registrar or Certification Body.

**1.2 Sale, Relocation, or Closure of Seller's Facility or Transfer of Manufacturing Operations:** Seller shall notify SQE and Buyer, in writing, at least 90 days in advance of any sale, relocation, or closure of Seller's facility or transfer of manufacturing operations (subject to any legal or regulatory restrictions). Seller shall include the following, as a minimum, in the written notification:

- a. purpose of the applicable change,
- b. address of the new location(s), when applicable,
- c. assessment of actual or potential impact to current POs,
- d. risk mitigation plan to ensure compliance to existing requirements
- e. plan defining the identification, storage, protection, retrieval and retention of records, if applicable,
- f. master schedule and timeline of applicable change activity, and
- g. relocation Coordinator/Point of Contact, if applicable

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			103 of 112
Owner/Author: Kyle Weber Accountable: VP of Quality Assurance		Effective Date: 13-May-2024 Original Date: 10-Feb-2016	

**1.5 Certificate of Conformance:** Seller shall:

- prepare a certificate of conformance ("CofC") to assert the Items contained with the shipment are in compliance with all applicable requirements of this PO; and
- annotate in the delivery package any exceptions, e.g., variances, Supplier Quality Assurance Report ("SQAR"), Advanced Engineering Authorization ("AEA"), etc.; and
- ensure the CofC is signed by a Seller's quality representative; and
- include a copy of the CofC inside the shipping container.

NOTE: If the Point of Acceptance on the PO is Buyer Accept, only include a copy of the CofC with the shipment and retain all other build, test, and inspection data at Seller's facility.

**Provision for Alternate Acceptance DD250 Process:**

When authorized in writing by Buyer's customer, Seller shall ship with a Certificate of Conformance any supplies for which the contract would otherwise require government inspection at source. The CofC shall be in the format outlined in FAR 52.246-15.

**2.0 Point of Acceptance:** The point of acceptance is indicated on each PO issued.

When this PO requires Buyer Accept at Source, Buyer acceptance can involve periodic surveillance by Buyer of Seller's quality system, manufacturing processes or physical Item, including work at Seller's sub-tiers. Based on Seller's performance, Buyer acceptance activities may result in the requirement for full-time oversight of Seller's or Seller's agents and subcontractors.

Buyer acceptance, prior to shipment, shall be performed at the Seller's facility address referenced on Buyer's PO. If Seller's Item manufacture, acceptance or shipment will occur at location other than the contracted PO address, Seller shall perform the following prior to the start of manufacturing activity:

- provide Buyer's SQE with Seller's written plan at least 30 days prior to manufacturing activities that, as a minimum, contains the following:

- Seller or subcontractor name and location where Item manufacture, acceptance or shipment will occur,
- how Seller will be performing acceptance of product from agents' and subcontractors' locations or manufacturing sites,
- upon request, example of Seller's purchase order to validate appropriate flow down of Buyer's requirements,
- date that manufacturing activity will begin,
- assessment of actual or potential impact to current POs, and
- risk mitigation plan to ensure compliance to existing requirements, and

- obtain Buyer's SQE acknowledgement of above, prior to start of manufacturing activity. Buyer's SQE acknowledgement signifies Seller's compliance with Appendix QX para 2.0.a and no additional Seller plans are necessary unless a change in location of product manufacture, acceptance or shipment occurs. Reflect Seller's contracted Supplier name and location, regardless of the point of final acceptance or delivery, in Seller's shipping document and CofC.

**2.0.1** Prior to shipment of Items designated "BUYER ACCEPT AT SOURCE", Seller shall:

- obtain final acceptance from Buyer's SQE, or
- request and obtain authorization from Buyer's SQE for shipment, or

c. sign or stamp and date Seller's shipping document to indicate acceptance of Item(s) by Seller's quality assurance personnel, when Buyer has delegated end item acceptance, in writing to Seller.

**2.0.2** Prior to shipment of Items designated "BUYER AND GOVT ACCEPT AT SOURCE", Seller shall comply with Appendix QX para 2.0.1 and obtain final acceptance from the assigned Government representative

**2.0.3** – When Buyer has not provided Seller with prior written authorization to act on Buyer's behalf, Seller shall notify Buyer's SQE normally servicing Seller's facility, no more than five (5) days after receipt of this PO, when PO calls for "BUYER ACCEPT AT SOURCE" or "GOVT & BUYER ACCEPT AT SOURCE". Seller's notification shall include PO number, date of scheduled shipment and any special security clearance required to perform Buyer activities.

**2.0.4** – When Buyer has not provided Seller with prior written authorization or electronic notification to act on Buyer's behalf, Seller shall notify Buyer's SQE a minimum of two (2) working days prior to Items being ready for shipment, when this PO calls for "BUYER ACCEPT AT SOURCE" or "BUYER AND GOVT ACCEPT AT SOURCE".

**2.5 QCS-001 Requirements for Seller-Designed Items:** Seller has the authority and responsibility to approve and control its special processing sources including in-house processes. Seller is not required to use those sources or specifications listed in QCS-001.

## Q2A – First Article Inspection (FAI) – AS9102

The terms "Item" (plural "Items"), "PO", "Buyer", and "Seller" used herein shall have the same meaning as the terms "Work", "Contract", "LOCKHEED MARTIN", and "SELLER", respectively, as may be defined in another provision of the Purchase Order ("the PO") of which this Quality Clause Q2A is a part.

### SCOPE:

First Article Inspection is defined as a verification of two key elements:

- Conformance to all engineering requirements
- Demonstration of stable, repeatable processes

### GENERAL REQUIREMENTS:

A. All elements of this clause are applicable to the PO line item(s) referenced on Buyer's PO. Any lower-level detail parts which comprise the top-level PO line item (if applicable) will comply with the First Article Inspection requirements as stated in AS9102. Seller may obtain copies of AS9102 from the Society of Automotive Engineers at: [www.sae.org](http://www.sae.org). Forms can be obtained at:

<http://www.sae.org/aaqg/publications/AS9102-faq.htm>. References to AS9102 in this document refer to the revision in effect at the time of the PO, or Seller may work to a more current version of AS9102, if desired, at no additional cost, price, or fee of the PO.

NOTE: F-35 Program Teammates BAE and NGC shall perform FAIs in accordance with AS 9102, including flow down of AS9102 for procured products, except those that meet the requirements of Paragraph J.

B. Buyer reserves the right to require Seller to perform an FAI, at Buyer's request, at no additional cost, price, or fee of the PO.

C. Seller shall document completion of the FAI in the English language.

D. All elements of this clause are applicable to the Seller's facility address referenced on Buyer's PO. If Seller's Item manufacture, processing, acceptance, and shipment will be performed at or from a location other than the contracted PO address, the entrance / exit requirements

outlined below must flow to those sub-tier's suppliers and/or manufacturing sites.

- E. For "Buyer-Designed Items", Sellers procuring or manufacturing Items requiring AS9102 compliance shall contact Buyer's assigned Supplier Quality Engineer a minimum of 5 days prior to Seller procuring Items or beginning any manufacturing activity for the PO. Buyers assigned Supplier Quality Engineer may elect to review or participate in Seller's FAI process at any time throughout the FAI process based on the complexity/criticality of the Item and Seller's performance to Buyer's requirements.
- F. Distributors that procure Buyer-designed Items shall ensure that the manufacturer has performed FAI and that documentation is available upon request.
- G. For "Seller-Designed" Items associated with Buyer-released engineering definition (i.e., Buyer Source Control Drawing, Buyer Specification Control Drawing, Seller Interface Control Drawing), Seller, at a minimum, shall meet Buyer's FAI requirements. Seller shall document the results in the FAI report. Buyer shall have the right to request additional verification of the FAI process as may be required by Buyer's Program or other quality requirements. Seller shall contact Buyer's assigned Supplier Quality Engineer a minimum of 5 days prior to Seller procuring Items or beginning any manufacturing activity for the PO. Buyer's assigned Supplier Quality Engineer shall participate in the FAI process at any time from inception until the FAI is complete. The degree of Buyer's Supplier Quality Engineer participation will be dependent on the complexity/criticality of the Item and Seller's performance to Buyer's requirements.
- H. If and when Seller incorporates any engineering change (including special processing, software, or firmware) that has the potential to affect form, fit, function, safety, or reliability, Seller, without further direction from Buyer, shall perform partial or full FAI as required by AS9102. Seller shall perform partial or full FAI, at no increase in the cost, price, or fee of the PO, to ensure that the changes have had no adverse effect on Items delivered under the PO. This partial or full FAI requirement also includes changes to non-deliverable software and revisions in programming used in numerical controlled machines, test stations, coordinated measuring equipment, etc.

**NOTE:** Paragraph H augments the requirements of AS9102.

Seller shall adhere to the requirements of Paragraph H and AS9102, which require the performance of a full or partial FAI when any of the following events occur:

1. A change in design affecting fit, form, or function of the part.
  2. A change in manufacturing source(s), processing source(s), process(es), inspection method(s), location of manufacture, tooling, or materials, that can potentially affect fit, form, or function.
  3. A change in numerical control program or translation to another media that can potentially affect fit, form, or function.
  4. A natural or man-made event, which may adversely affect the manufacturing process.
  5. A lapse in production for two years or as specified by the Customer (reference Para. B).
- I. Seller shall notify Buyer's assigned Supplier Quality Engineer a minimum of 5 days prior to creating or starting any changes identified in paragraph H above or in AS9102 that affect Items delivered under the PO. Seller shall submit documentation of complete or partial FAIs accomplished as a result of such changes to Buyer's assigned Supplier Quality Engineer.
  - J. The following Items shall not require FAI, unless otherwise directed by Buyer:
    1. Standard hardware and electronic piece parts (AN, MS standard hardware, etc.),
    2. Commercial Off-the-Shelf ("COTS") Items,
    3. Metallic (plate, bar, rod, etc.) and non-metallic (paints, sealants, adhesives, etc.) raw

materials,

4. Engineering models, design/concept prototypes, etc.,
5. Items that have been manufactured and delivered to the U.S. Government where Seller has objective evidence of either:
  - a. an FAI performed for the U.S. Government, within the past two (2) years from date of the PO, to the same configuration as required by the PO,
  - b. Documented U.S. Government acceptance, within the past two (2) years from date of the PO, to the same configuration as required by the PO,
6. Items that have been returned by Buyer for repair,
7. Items procured to Buyer's part number where Buyer has not developed drawings and/or specifications controlling the Item's physical and functional requirements, or
8. F-35 Program major aircraft assemblies such as wings, forward, center, tails, and aft sections are not subject to FAI, but traditional product verification tools and practices will be conducted to ensure conformance to the engineering and integrity of build processes.
- K. Seller shall ensure that discrepancies and non-conformances, if any, discovered during the FAI are documented and dispositioned by the appropriate Material Review Board ("MRB") actions, (i.e., Seller's MRB for Seller's design and Buyer's MRB for Buyer's design).
- L. Seller shall comply with the forms usage and completion requirements stated in AS9102. Seller shall complete all fields, but may mark a field as not applicable by indicating "N/A", if appropriate.
- M. For subsequent lots, Seller shall present FAI documentation records for validation to Buyer's assigned Supplier Quality Engineer, if requested by such Supplier Quality Engineer.
- N. Seller shall maintain documentation of FAI results on each deliverable end Item for the period specified by the PO. Seller shall provide to Buyer, within 48 hours of a request by Buyer, a complete copy of FAI reports at no increase in the cost, price, or fee of the PO.
- O. Seller may use the latest revision of Quality Clause Q2A to meet FAI requirements in any other PO with prior versions of Quality Clause Q2A imposed between Buyer, acting for and through Lockheed Martin Aeronautics Company, and Seller, provided that Seller does so at no increase in price, cost, or fee of the PO.
- P. Seller shall use internal processes / procedures, as defined in Seller's Quality Management System, to verify product conformance to the FAI Exit Criteria requirement of Q2A (5 Items for Buyer-designed or 2 Items for Seller-designed), once AS9102 forms have been completed for one (1) part.

## DETAILED REQUIREMENTS:

### FAI Entrance Criteria

- A. Buyer-designed items: FAI documentation requirements (AS9102 forms or equivalent) begin once development is complete and production begins with released, baseline engineering. Only one FAI report (AS9102 forms or equivalent) will be required.

**Note: Exceptions or deferrals will be per Buyer's direction.**

- B. Seller-designed items: FAI documentation requirements (AS9102 forms or equivalent) begin once development, Safety of Flight, and Qualification are complete, Buyer's Supplier Quality Engineer has been notified, no variances exist for the purchased part, and production begins with released, baseline engineering and approved Acceptance Test Procedure(s) ("ATP"). Only one FAI report (AS9102 forms or equivalent) will be required.

**Note: Exceptions or deferrals will be per Buyer's direction**

### FAI Exit Criteria



<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	<b>Page</b>
<b>Title: Purchase Order Requirements</b>			<b>107 of 112</b>
Owner/Author: Kyle Weber Accountable: VP of Quality Assurance		Effective Date: 13-May-2024 Original Date: 10-Feb-2016	

**A. Buyer-designed items:** FAI will be declared complete upon:

- Manufacturing of a minimum of (6) consecutive parts,
- Internal rework quantities equal to 66 internal rework defects per thousand inspection points,
- Initiation of no more than two (2) Seller-responsible SQAR documents requiring MRB action for the minimum (6) consecutive parts,
- Completion of the FAI report created during the FAI Entrance phase,
- Documented evidence of adherence to PM-5010 "Supplier/Seller Shipping Instructions" and PM-801 "Seller Packaging, Handling, Storage and Transportability Instructions for Direct Shipment of Items to the U.S. Government via Wide Area Workflow" (when applicable), and
- Documented evidence of adherence to Appendix QJ, including plans for validating conformance of Special Processes performed in-house or subcontracted.

**Note: Exceptions or deferrals will be per Buyer's direction.**

**B. Seller-designed items:** FAI will be declared complete upon:

- Validation of each element of the applicable time-bound FAI package (to include process controls for key parameters) with supporting objective evidence,
- Successful completion of first-pass final ATPs for item / system on (3) consecutive production units,
- Completed sub-tier FAI documentation, as applicable,
- Validation of sub-tier assembly/detail FAI(s) with supporting objective evidence, including validation of conformance of subcontracted Special Processes,
- Completion of the FAI report created during the FAI Entrance phase, and
- Documented evidence of adherence to PM-5010 "Supplier/Seller Shipping Instructions" and PM-801 "Seller Packaging, Handling, Storage and Transportability Instructions for Direct Shipment of Items to the U.S. Government via Wide Area Workflow" (when applicable).

**Note: Exceptions or deferrals will be per Buyer's direction.**

**A83 NOTE, "ENGINEERING SPECIFICATION REQUIREMENTS"**

(a) SELLER shall comply with latest revision, as of the effective date of this Contract, for all specifications or other document incorporated herein, unless a specific revision number is referenced. If a specific revision number is referenced SELLER shall comply with the specified revision. The requirements set forth in the databases, specification or other documents herein are incorporated into this Contract by reference.

**Note: For F-35 Program, applicable specifications and standard part/hardware drawings are identified in Product Data Management (PDM) database. Seller shall use the latest revision located in the Joint Strike Fighter Data Library (JDL) Released Data Vaults for product build and acceptance.**

**If Seller does not have access to PDM and/or JDL, Seller shall use the specification and drawing revision provided by Buyer.**

(b) The databases, specifications and other documents incorporated herein are LOCKHEED MARTIN Proprietary Information and as such are protected in accordance with the Proprietary Information Agreement (PIA) executed between the parties.

(c) SELLER shall include the requirements of this ENGINEERING SPECIFICATION REQUIREMENTS (A83) in lower tier subcontracts for the delivery of items that will be included in or furnished as Work to LOCKHEED MARTIN.

(d) The following requirements are only applicable to LOCKHEED MARTIN designed parts.

(i) Engineering Materials and Approved Products (EMAP) (Applicable to all programs except F-16, F-2 and T-50)

Location: LOCKHEED MARTIN external web page: <https://www.lockheedmartin.com/content/lockheed->



<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			108 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

[martin/en-us/suppliers/business-area-procurement/aeronautics.html](https://www.lockheedmartin.com/content/lockheed-martin/en-us/suppliers/business-area-procurement/aeronautics.html) under "Engineering" then "Engineering Materials & Approved Products (EMAP) / Design Support Database (DSD)."

(ii) Process Specifications (Applicable to all programs)

Location: LOCKHEED MARTIN external web page:

<https://www.lockheedmartin.com/content/lockheed-martin/en-us/suppliers/business-area-procurement/aeronautics.html> under "Engineering" then "Material & Process Specifications – All Programs."

(iii) Preferred Parts Handbook (PPH) - Volumes 1-5 (Applicable to the C-130, C-27, C-5, P-3, S-3 and F-22 programs)

Location: The Preferred Parts Handbook (PPH), Volumes 1-5, Document is not on-line and shall be obtained from the LOCKHEED MARTIN Procurement Representative.

(iv) Design Support Database (DSD) (Applicable to the C-130, LM100J, C-27, C-5, P-3 and S-3 programs)

Location: LOCKHEED MARTIN external web page:

<https://www.lockheedmartin.com/content/lockheed-martin/en-us/suppliers/business-area-procurement/aeronautics.html> under "Engineering" then "Engineering Materials and Approved Products (EMAP) Design Support Database (DSD)."

(v) Design Support Database (DSD) (Applicable to the F-22 program) Location: LOCKHEED MARTIN external web page: <https://www.lockheedmartin.com/content/lockheed-martin/en-us/suppliers/business-area-procurement/aeronautics.html> under "Engineering" then "Engineering Materials and Approved Products (EMAP) Design Support Database (DSD)."

(e) The following requirements are applicable to Standard Hardware or when the drawing specifies the following note:

*"Approved sources for this part are listed in the F-35 Parts Classification and Management Database maintained by LOCKHEED MARTIN Aeronautics F-35 Components Engineering. Items procured to the standard from sources other than those listed in the F-35 Parts Classification and Management Database are considered non-compliant."*

(f) **Approved Manufacturer List for Standard Parts** – Specification Document 2GNA00001 (Applicable to the F-35 program) Location: LOCKHEED MARTIN JDL: <http://www.myexostar.com/Lockheed-Martin-Aeronautics/> under JSF Data Library (JDL). Search for 2GNA00001.

**The latest copy is always in the Standard Part Drawings Released Data vault in the JDL (under the Released Data Vaults entry).**

The approved manufacturers for parts for the F-35 Program are set forth in 2GNA00001. The approved manufacturers listed are approved only for the listed source or part number. The sources or manufacturer part numbers are approved only when made by the manufacturer listed on the drawing revision specified. Callout part numbers that do not appear in this list are not approved for use on the program and have no approved sources.

## 6 Document Issue Record

Document Issue	Description of Change/Reason	Revised By	Date Revised
NEW - B	Developed SPOC manual and used to set-up internal process changes		6/29/2015
C	SPOC manual Sent to suppliers for feedback		7/1/2015
D	First full release of SPOC manual		8/19/2015
E	Updated 50.8 & 50.30: 50.34 is now Shipments made to Pak Source: SPOC 100: Modified Tables 1 and 2: Replaced 50.33 & combined 50.37 Clarifying NADCAP flow out: Updated SPOC 240 (NADCAP): Modified SPOC 500: Changed Records Retention to point to Terms and Conditions: Added 100.2 Certification Requirements for OSP Parts : Added SPOC 625.4 - Common Boeing Flow-Outs : Added 390.3 reporting guidelines : Replaced Score Card Example SPOC 50.39.4		10/26/2015
F	Added 320.4 Solder Mask Requirements. Modified Table 2. Updated SPOC 240 to remove APSL reference.		11/6/2015
G	Updated SPOC 625.4 – Common Boeing Flow-outs to include Q053, Q301, Q312, Q320: Changed SPOC 50.7 to Notification of Escapement.: Changed OTD early SPOC 59.39 from 30 to 15 days. Added documents to 50.18. Replaced website link SPOC 50		1/16/2015
H	Added DFAR clause, Table AA – AS6081, and Low / High Risk overview, reporting timeline and form for SPOC 380.		2/12/2016
I	The letter I is not used.		
J	New Document Template/Format for SPOC Manual. SPOC 009 Changed from “No Longer Used” to “Shipping Products”. Removed Note 2 for SPOC 180 that followed Group SPOC’s and placed the note in SPOC 009 Processes. Added processes and Commodity Codes to Group SPOC’s and new requirements to individual SPOCs for SPOC 009. Removed Shipping Assembly reference and Commodity Codes from SPOC 004. SPOC 015 Changed from “No Longer Used” to “Overhaul and Repair”. Added processes and Commodity Codes to Group SPOC’s and new requirements to individual SPOCs for SPOC 015. Section 50.39.6 Scorecard Example; Update percentages for Quality and OTD. Added a Best in Class Requirements section. Added Section 50.39.7 Supplier Performance Incentive (Payment Terms) and an example of the Overall Supplier Rating (%) Chart, added to table of contents. Added Section 50.39.8 Supplier Source Inspection Requirements (Quality) and an example of the Quality Performance Chart, added to table of contents. Added Section 50.56 Source Inspection Sampling Requirements and associated AQL Chart. Added 50.39.9 Source Inspection Reporting Requirements. Updated the FAI forms to include form number.		4/28/2016  4/28/16

K	Added 50.57 Prohibited substances in supplied materials and parts. Added Example of NADCAP requirement as shown on face of PO. Added 50.58 GIDEP – Government Industry Data Exchange Program		9/22/2016
L	Removed SPOC 110.9: Updated Critical Safety Item sections 50.27 and 50.28.1: SPOC 500 updated with new form SCSP741.02.01 and text updated. Changed 50.38 and added 50.38.1 FAI documentation NOT using certification channel.		2/10/2017
M	Corrected typo to section 50.6.2: Removed pay-for performance. Updated 50.39.7. Corrected typo 652.4 should be 625.4. Updated 50.4 to clarify language. Change 50.19 to remove substitution document ST1637803. Updated SPOC 500 to replace the form with fewer signatures required.		4/21/2017
P	<p><b>Move Printed Wiring Boards “Bare Boards to Group SPOC 012 to require an FAI. SPOC 50.3.1 Added the Supplier shall flow down to external providers applicable requirements including customer requirements. SPOC 50.33 Added requirements for Certified Welders, Certified Weld Inspectors and Penetrant Inspectors.</b></p> <p><b>SPOC 50.38, SPOC 50.38.1 &amp; 110.2 changed web site from <a href="mailto:cms.dav.Supplier.documentation@cobham.com">cms.dav.Supplier.documentation@cobham.com</a> to <a href="mailto:CMS.Davenport.Supplier-Documentation@cobham.com">CMS.Davenport.Supplier-Documentation@cobham.com</a></b></p> <p><b>SPOC 50.38.1 Changed usually contained bubble drawing to includes bubble drawing. SPOC 50.39 Removed references to score card Responsiveness. SPOC 50.39.3 &amp; 50.39.6 Removed Responsiveness section. SPOC 50.39.9 Removed Source Inspection Reporting Requirements. SPOC 50.5 Removed Buyer and End Users may at any time visit Supplier’s premises and replaced with the supplier shall allow the Buyer, End Users, and regulatory authorities to visit its premises or. 50.6 Added The supplier shall notify the Buyer of changes to processes, products, or services, including changes of external providers (suppliers) or location of manufacture, and obtain Eaton’s approval. 50.11 Removed <del>Results of Preventative actions taken</del>. 50.11.1 Added The supplier shall allow the right of access by Mission Systems Davenport Inc., its customers, and regulatory authorities to the applicable areas of facilities and to applicable documented information (e.g., documents, records), at any level of the supply chain.-50.13 Added Employee Awareness and Training – Suppliers shall ensure that their employees are aware of:</b></p> <ul style="list-style-type: none"> <li>– their contribution to product or service conformity;</li> <li>– their contribution to product safety;</li> <li>– the importance of ethical behavior.</li> </ul> <p><b>50.42.2 move for 10 years changed from 5 years. SPOC 110.4 Change containment notification from 48 hours to 24 hours. Spoc 100.2 added special process certifications included but not limited to heat treatment certifications SPOC 110.3 Added The supplier shall notify the Buyer of nonconforming processes, products, or services and obtain approval for their disposition. 110.5 - Remove the CAR process and add bullet points covering current practice. Remove STAT buyer and replace with SQE, add revised SCAR form SCSP-741.00.01. SPOC 150.6 Revised FAI WI to QSP-751.01. SPOC 310 Removed Forms OSP4.6.2.2.1 and OSP4.6.2.2.2 will be used as required. Spoc 150.1 Added requirement for FAI “Upon Customer Request” SPOC 625.3 Removed X31764 Requirements. 370 Added Supplier shall establish a program for the prevention, detection, and removal of foreign objects. Added 50.59 Supplier shall establish a program to prevent the risk of introducing both counterfeit electronic parts as well as non-electronic parts and materials. This includes: Identification, mitigation, detection, and avoidance techniques, and reporting of suspect or confirmed counterfeit parts, assemblies, and/or materials; Training for the detection and prevention of counterfeit parts.</b></p>		7/2/18

R	Corrected typos		7/14/18
T	<p><b>50.5 Right of Entry added "its Customers" to the first sentence. 50.56 Inspection Sample Plan Table Approved Quality Level updated to current standards. 150.5 Documentation and Records – Changed to acknowledgement for an approved FAI from sending a stamped form. 625.4 Changed common quality requirements to summary of quality requirements, also added latest revisions can be obtained at the Boeing website. Added Lockheed Martin Section 650 Requirements and web site. Remove section SPOC 9999 Delegated Supplier Quality Representative (DSQR Certified). ADDED Special Processes:</b> Ensure customer requirements do not specify special processors i.e.: Nadcap, Plating. Etc. must be on <u>their</u> ASL to section 50.13.</p>		10/2/18
U	<p><b>Created section 7.1 and moved Table 1</b>  <b>50.38.1</b> Suppliers shall also send an electronic copy of the First Article documentation via Secure File Transfer. Secure File Transfer instructions will be provided by Buyer purchasing agent. <b>50.39</b> overall score that weighs the three categories (45% quality, 45% on-time delivery, and 10% CA responsiveness), 50.39.8 Suppliers with 3 month average quality score of &lt; 95% or a supplier that has created a warranty failure for the end user are subject to 3<sup>rd</sup> party source inspection being performed at the supplier prior to shipment... Source Inspection does not absolve supplier of future nonconformances identified on product at Buyer or end user. Added section 50.39.9 Supplier Quality Representative Requirements (Delivery)  <b>110.5 – Revised SCAR Form</b></p>	Steve Cole	8-Aug-2019
V	<p>Removed commas on Title Page. Added SPOC 520 Notice of Change to the index. Change SPOC 020 to SPOC 021 in the index and in sections 7.1, 50.56, 100.1 &amp; 100.2. Added Group SPOC 021 Vendor owned prints and vendor part numbers to Group SPOC's Table 1. Moved "Heat Shrink" from Group SPOC 011 to SPOC 007, Added SPOC 130 to individual SPOCs in Group SPOC 011. Removed Off the Shelf Parts do not require a signed C of C with each shipment or FAI documentation and – Vendor Owned Drawings - Components / assemblies do not require a signed C of C; however, from Notes AA SPOC 100.2. Added "or an external corrective action is received related to Eaton purchase orders" to SPOC 110. Added SPOC 110 to Group SPOC 009. Updated 50.56 Inspection Sampling Plan table. Added Sections 50.60 Subcontracting with a Foreign Seller 50.61 Regulatory Approvals 50.62 Aerospace Quality Management System (AQMS) Certification 50.63 Subcontracting 50.64 Commercial Invoice Requirements for Import into the United States 50.65 Inspection 50.66 50.67 Maintenance, Repair, Overhaul, FAA Regulated, Non-FAA Certified Requirements - Deliverable. 50.68 Digital Product Definition (DPD)/Model Based Definition (MBD) 50.69 Manufacturing Plan 50.70 Performance. Remove Section 8.8 –REGULATORY APPROVALS of SPOC 625. Added - to review progress and performance with respect to production, schedule, cost, quality or protection of Buyer's proprietary rights under any PO to 50.11.1. Date(s) goods and/or services were shipped and their destination under this Contract  • Buyer's contract number, line item number and name of good to 50.7. certifying to physical and metallurgical or mechanical test reports where required by controlling specifications to 100.1. 4<sup>th</sup> bullet point to 50.5. Buyer reserves the right to provide Buyer-identified quality system findings, associated quality system data, and quality performance date to the Supplier's Certification/Registration Body (CRB) TO 50.13. Added second paragraph to 110.7. Reworded first sentence of SPOC 500. Added <b>SPOC 021 Vendor Owned Prints and Vendor Part Numbers:</b></p>	Larry Kendall	25-Nov-2019
W	<p>Update distribution lists, supplier website Added secure file transfer information for emails</p>	Adam Peterson	8-Feb-23

<b>INSTRUCTION: QSP-7.4.2.2.1</b>		<b>Rev W</b>	Page
<b>Title: Purchase Order Requirements</b>			112 of 112
Owner/Author: Kyle Weber		Effective Date: 13-May-2024	
Accountable: VP of Quality Assurance		Original Date: 10-Feb-2016	

	Updated Part Marking 50.50, 100.1 certification requirements, 100.2 OSP parts, removed option to E-mail deviation waiver back to us. Added AS9146 to SPOC 370 Reduced SPOC 320 for simplification to Drawing/Contract Specification requirements (Removed 320.01, 320.02, 320.03, 320.04) Removed Figure From section 50.3.2		
<b>W.4</b>	Minor Updates to remove incorrect references throughout the document. Minor update to SPOC 500 Deviation-Process does not impact Suppliers	Kyle Weber	3-May-24