

Simmonds Precision Products Inc. Quality Clauses

Refer to the Purchase Order line item to determine which Quality Clauses are applicable to product and services delivered to Simmonds Precision Products Inc. (Simmonds). Each Quality Clause, and the issue of this document, is configured by date. Where a Quality Clause date is later than the effectivity date of the purchase order, refer to the issue number of this document effective at the time of Purchase Order award, unless otherwise specified on the Purchase Order.

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Controlled copies are located at the following:

Supplier Portal at: <https://suppliers.utc.com/SPPortal/Pages/Forms>

Avionics & Mission Systems > Simmonds Precision Products, Inc

Quality Network Drive: T:\Quality\Quality Eng\Supplier Quality\Quality - PQE_SQE\Simmonds Quality Clause Master

Revision History

ISSUE	DATE (YYYY/MM/DD)	BY	Codes Affected	DESCRIPTION OF CHANGE (Clauses added, amended, removed)
1	2020/02/18	R. Preuss / J. Kessler	All	Initial Release
2	2020/04/29	J. Kessler	416, 651, 652	Added clause 416 and 652. Added new title to 651. Updated hyperlinks
3	2020/07/14	J. Solomon	404, 405, 407, 410, 415	Changed Goodrich to Collins; change referenced spec in 404.
4	2021/06/24	J. Dattilio	601	Added clause for PCN monitoring
5	2021/09/07	R. Preuss	435, 441, 581 400, 408, 701	Revised wording to clarify intent and match customer requirements Standard PO Header Clauses added for visibility
6	2022/02/01	R. Preuss	206, 429, 430	Added clause 206 Revised temperature in clause 429 and 430
7	2022/04/08	D. Fath M. Szamrey	485 091	Revised quantity requirements in clause 485 Added clause 091
8	2023/01/31	L. Cavallaro	400	Removed reference to SIS Nadcap supplier list
9	2023/06/19	R. Preuss, A. Delisle, L. Cavallaro	408, 431, 537, 618, 628	Clause 408: Updated reference from MSD 601 to SAIS-ASQR-PRO-0003; incorporated FAI requirements from ASQR-01. Added section I for NOE communication. Clause 537: Updated document reference Clause 628: Updated document reference Deactivated clause 618 Added Note for inspection to clause 431

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Clause Number	Revision Date (YYYY/MM/DD)	Clause Title	Clause Text
001	2020/02/18	SPPI Inspection	RECEIVING INSPECTION REQUIRED
003	2019/07/12	Buyer Approval	This PO may contain clauses that require the seller to obtain buyer approval. Any requests for buyer approval associated with this PO shall be flowed to the program office for consideration. Only the program office shall authorize the buyer to formally respond to the seller's request.
004	2019/07/12	Engineering Material	ROUTE MATERIAL TO APPROPRIATE MANUFACTURING TEAM. NOTE: RECEIVING INSPECTION REVIEW REQUIRED PRIOR TO ANY STOCK TRANSACTION. *** INSPECTION REQUIRED***
005	2019/07/12	I-1323 Goodrich Aerospace Specification	ATTENTION SUPPLIER AND GOODRICH RECEIVING INSPECTION. INSPECTION AND SCREENING DATA REQUIREMENTS ARE TO BE IN ACCORDANCE WITH I-1323 AND THE COMPONENT SCD. THE INSPECTION AND SCREENING DATA SHALL BE INCLUDED WITH THE SHIPMENT AND MAINTAINED ELECTRONICALLY AT GOODRICH. *** INSPECTION REQUIRED***
006	2019/07/12	Designated Shelf Life - (Used On De Havilland Product)	THE SUPPLIER AND/OR GOODRICH AEROSPACE SHALL ASSIGN A MAXIMUM SHELF LIFE OF 5 YEARS (LESS IF RECOMMENDED BY THE MANUFACTURER). EXTENSIONS BEYOND 5 YEARS ARE PROHIBITED. NOTE TO RECEIVING INSPECTION: THE EXPIRATION DATE MUST BE ENTERED INTO THE MRP SYSTEM AS REQUIRED BY PROC 1523. *** INSPECTION REQUIRED***
007	2019/07/12	Test Reports	THE SUPPLIER SHALL PROVIDE A DETAILED TEST REPORT FOR EACH PART TESTED. TEST REPORTS SHALL BE COMPLETE WITH RESPECT TO THE TESTS PERFORMED, TEST RESULTS/DATA, NONCONFORMANCES AND WAIVERS PENDING/GRANTED. THE INSPECTION AND SCREENING DATA SHALL BE INCLUDED WITH THE SHIPMENT AND MAINTAINED ELECTRONICALLY AT GOODRICH. *** INSPECTION REQUIRED***

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009	2019/07/12	Component Failure Reporting	Component failure reporting is required by clause 508 on this CCA. If supplier reports any failed components, that information shall be provided to the Program office, Engineering Tech Lead, Customer Quality Engineer, and the Manufacturing Engineer.
010	2019/07/12	Part Released for Procurement	THIS PART HAS BEEN REVIEWED BY GOODRICH QA OR CERTIFIED BUYER AND IS RELEASED FOR PROCUREMENT.
012	2019/07/12	Engineering Non-Production Material	ENGINEERING NON-PRODUCTION MATERIAL
014	2019/07/12	Inspection Required	This part number has been identified as having inspection requirements on the drawing. Receiving inspection of drawing inspection requirements is required. *** INSPECTION REQUIRED***
015	2019/07/12	Shop Order Inspection	GOODRICH RECEIVING INSPECTION TO INSPECT PER SHOP ORDER WORK GUIDELINES. THE OUTSIDE PROCESS VENDOR SHALL RETURN ALL PARTS SENT FOR PROCESSING. IF ANY PARTS ARE NON-CONFORMING FOR ANY REASON, THE VENDOR SHALL SEGREGATE THE NON-CONFORMING PARTS AND CLEARLY MARK THE SEGREGATED PARTS AS NON-CONFORMING PRIOR TO RETURNING THESE PARTS TO GOODRICH. *** INSPECTION REQUIRED***
016	2019/07/12	Harness Bundling	The coiled wire bundle for cables and harnesses shall not exceed 15 inches in outside diameter prior to packaging for shipment.
018	2020/05/18	100% Gear Inspection Data	<p>Gear Inspection Data REQUIRED. GEAR INSPECTION DATA INCLUDING, AT A MINIMUM: TEST RADIUS, TOOTH TO TOOTH ERROR, AND TOTAL COMPOSITE ERROR, SHALL BE INCLUDED WITH EACH SHIPMENT. A GEAR DATA SHEET SHALL BE SUPPLIED FOR EACH INDIVIDUAL PART.</p> <p>GEAR DATA SHEETS WILL BE USED FOR RECEIVING INSPECTION ACCEPTANCE.</p> <p>JLK 8/19/19</p>
019	20/05/18	0.65% Gear Inspection Data	GEAR INSPECTION DATA REQUIRED. Gear Inspection Data SHALL consist of, at a minimum: Test Radius, Tooth to Tooth Error and Total Composite Error and SHALL be verified for a sample size of 0.65% AQL per Manufactured Lot of gears. Inspection Data SHALL be identifiable to the Manufacturing Lot/Job Number in which the data represents. Inspection Data SHALL be supplied for the <u>first</u> shipment of gears from the new Manufactured Lot and electronically stored at Collins and at the Supplier to be available upon request. For Collins retention purposes, identify the Data file as: PN_MFR LOT_DATE in the REC_TESTDATA section of Documentum.

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			JP 11/16/2020
020	2019/07/12	Non-Special Process – Anodize	THE ANODIZING PROCESS REQUIRED BY THIS DRAWING IS NOT A SPECIAL PROCESS, AS DEFINED IN THE QUALITY MANAGEMENT SYSTEM. THEREFORE, SUBCONTRACTOR CONFORMANCE TO NADCAP ACCREDITATION FOR SPECIAL PROCESS PROVIDERS OF THE ANODIZING IS NOT REQUIRED FOR THIS CLASS OF PRODUCTION MATERIALS. 3/26/2014 DFD
025	2019/07/12	MIL-C-14806	This part number contains glass that is to be finished in accordance with MIL-C-14806. Units shall be supplied with a coating scan confirming conformance to MIL-C-14806 that is traceable to the applicable coating lot batch.
030	2019/07/12	F Dash Part	This part number ordered on this Purchase Order is being ordered incomplete. This material is being ordered minus certain characteristics which are defined on an MDoc referred to on the Purchase Order. Please contact your UTAS buyer if you have not received the document at the stated revision level.
031	2019/07/12	Anixter Aerospace Hardware Clause 431	(COPY OF REVISED CLAUSE 431 FOR ANIXTER AREOSPACE HARDWARE) THIS MATERIAL SHALL ONLY BE PROCURED THROUGH ANIXTER AEROSPACE HARDWARE. ANY SUPPLIER OTHER THAN ANIXTER SHALL REJECT THIS PO. LIMITED-LIFE ITEMS THE SUPPLIER'S CERTIFICATION OF COMPLIANCE SHALL STATE THE DATE OF MANUFACTURE, RECOMMENDED SHELF LIFE FROM DATE OF MANUFACTURE AND STORAGE TEMPERATURE FOR LIMITED LIFE ITEMS SUPPLIED ON THIS PURCHASE ORDER. REMAINING SHELF LIFE OF EACH UNIT SUPPLIED SHALL BE A MINIMUM OF 80 PERCENT (80%) OF THE TOTAL SHELF LIFE. MATERIAL SHALL BE LABELED WITH REMAINING SHELF LIFE. (ADDED CLS 8/24/09) NOTE TO RECEIVING INSPECTION: THE EXPIRATION DATE MUST BE ENTERED INTO THE MRP SYSTEM AS REQUIRED BY PROC 1523. G.S. 6-28-2012 *** INSPECTION REQUIRED***
032	2019/07/12	Work Transfer Part	This Item is part of the Work Transfer Process. Additional part definition related to this process is defined on a -WT document referred to on the purchase order. Please contact your Simmonds Precision Products buyer if you have not received the document at the stated revision level.

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035	2019/07/12	IPA Not Required	<p>Inspection per analysis not required, please QN this receipt using the following verbiage: Requirement: Drawing defines chemical conversion coating (MIL-DTL-5541 Type I Class 3) Actual Condition: Possibility of voids in the chemical conversion coating due to the construction of the housing. As a bi-product of the dip braze process, small voids in the brazed joint may be present. As a part of the chemical conversion process the part is exposed to a heated aqueous solutions. These treatments may cause small amounts of braze salts to leach from the voids in the brazed joint forming a tightly adhered, discolored deposit on the surface of the part. The presence of the discolored deposit locally interferes with the proper development of the chemical conversion coating.</p>
062	2019/07/12	Special Packaging Required	<p>PARTS IDENTIFIED WITH THIS CLAUSE REQUIRE EACH PART TO BE PACKAGED WITH TWO LAYERS OF BUBBLE PACK AND IN AN INDIVIDUAL BOX. MARK BOX WITH THE FOLLOWING: VT RECEIVING - DO NOT REMOVE PART FROM BOX - JJD 9/4/18</p>
087	2019/07/12	Aerometals J-STD Exceptions	<p>FOR ALL PRODUCTS MANUFACTURED BY AEROMETALS ON THIS PURCHASE ORDER, THE FOLLOWING EXCEPTIONS ARE INVOKED FOR J-STD-001 REQUIREMENTS IMPOSED ON ANY ASSOCIATED DRAWINGS: A.) 4.2.1, 4.2.2 - ENVIRONMENTAL CONTROLS - TEMPERATURE AND HUMIDITY - HUMIDITY LEVELS AT AEROMETALS MAY DROP BELOW 30% DURING FABRICATION OF GOODRICH PRODUCTS. B.) 8.3.5, 8.3.6 - TEST FOR CLEANLINESS - VERIFICATION OF CLEANLINESS IS NOT REQUIRED FOR PRODUCTS MANUFACTURED AT AEROMETALS -LUKE FARYNIARZ, CQE, 03/29/2012</p>
088	2019/07/12	Statement of Work E-7572	<p>STATEMENT OF WORK (SOW) APPLIES TO PRODUCT ORDERED ON THIS PURCHASE ORDER. REFER TO STATEMENT OF WORK, DOCUMENT E-7572, FOR NORTECH SYSTEMS.</p>
090	2019/07/12	Cable and Wire Harness requirements	<p>Product shipped on this Purchase Order must meet the IPC/WHMA-A-620 Requirements and Acceptance for Cable and Wire Harness Assemblies.</p>
091	2022/04/08	Cable and Wire Harness requirements	<p>Product shipped on this Purchase Order must meet the IPC/WHMA-A-620 Requirements and Acceptance for Cable and Wire Harness Assemblies *Exemption for 75% fillet requirements on Solder Sleeving</p>

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101	2019/07/12	Supplier Quality System	SUPPLIER IS REQUIRED TO MAINTAIN A QUALITY SYSTEM SATISFYING THE REQUIREMENTS OF QE-STD-1, EPB 17-119 AND EPB 17-220
110	2019/07/12	Fluorescent Penetrant Inspection	CERTIFICATE OF FLUORESCENT PENETRANT INSPECTION PER DRAWING IS REQUIRED. *** INSPECTION REQUIRED***
127	2019/07/12	Foreign Object Damage Protection	PARTS, SUBASSEMBLIES AND ASSEMBLIES SHIPPED TO GOODRICH ARE TO BE PROTECTED FROM FOREIGN OBJECT DAMAGE (FOD) DURING MANUFACTURE, PROTECTED FROM THE ENVIRONMENT TO PREVENT OXIDATION OR CORROSION, PACKAGED TO PREVENT DAMAGE DURING SHIPMENT AND IDENTIFIABLE AND TRACEABLE TO A GOODRICH PURCHASE ORDER. IF REQUIREMENTS ARE NOT PROVIDED IN THE WORK INSTRUCTION, SUPPLIER MUST CALL GOODRICH PURCHASING DEPARTMENT TO ACQUIRE DETAILED CORROSION PROTECTION INSTRUCTIONS.
136	2019/07/12	Special Process	ALL SPECIAL PROCESSES MUST BE PERFORMED BY A GOODRICH ROME APPROVED SOURCE. SUBCONTRACTING TO ANY OTHER SUPPLIER ANY PORTION OF THE MANUFACTURING, TESTING OR INSPECTION FUNCTIONS FOR SUCH PART, SUBASSEMBLY OR ASSEMBLY WITHOUT WRITTEN PERMISSION OF GOODRICH IS NOT PERMITTED. CONTACT YOUR GOODRICH BUYER IF YOU REQUIRE ASSISTANCE IN SELECTING AN APPROVED SUPPLIER. NOTE: IF A BELL PROCESS SPECIFICATION IS REFERENCED ON THE DRAWING OR PARTS LIST THIS CLAUSE IS SUPERSEDED BY CLAUSE 172 OR 173, AS APPLICABLE. *** INSPECTION REQUIRED***
161	2019/07/12	Approved Manufacturer Certification	CERTIFICATION BY APPROVED MANUFACTURER IS REQUIRED.
179	2019/07/12	Shelf Life Control	SHELF LIFE CONTROL REQUIRED - GOODRICH TO APPLY EXPIRATION DATE. *** INSPECTION REQUIRED***
187	2019/07/12	Calibration Certificate Required	This part requires calibration certificate be present with shipment ***Inspection Required***

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200	2019/07/12	Incomplete Parts	PARTS PROVIDED ON THIS PURCHASE ORDER ARE INCOMPLETE PER INSTRUCTION BY GOODRICH PROCUREMENT AND/OR OPERATIONS. NOTIFY APPROPRIATE PROCESS ENGINEER FOR DISPOSITION. GOODRICH TO COMPLETE. *** INSPECTION REQUIRED***
201	2019/07/12	Calibration Lab Reporting	where calibration values do not meet required tolerances (out of tolerance conditions) need to be promptly reported to the Calibration Lab (UTAS Vergennes, VT)
204	2019/07/12	Backlash Value Reporting	Provide Backlash value as verified for every ball screw by S/N, per drawing note requirements, to UTAS in C of C data package.
205	2019/07/12	Manufacturer's Certificate of Compliance Required	MANUFACTURER'S CERTIFICATE OF COMPLIANCE PER DRAWING AND PURCHASE ORDER IS REQUIRED. THIS C OF C MUST LIST ALL ADDITIONAL SUB-TIER C OF C'S AND MATERIAL CERTS WITH APPLICABLE IDENTIFICATION NUMBERS (E.G., CERT NUMBER, LOT NUMBER, HEAT NUMBER, BATCH NUMBER, ETC.) LOT NUMBER ON THE CERTIFICATION SHALL BE TRACEABLE TO THE CONTAINER, E.G. A LABEL WITH THE LOT NUMBER ON THE CONTAINER. (REV 12/16/09 RC) NOTE TO GOODRICH RECEIVING INSPECTION: WHEN MATERIAL IS DRIVEN TO INSPECTION, RECEIPT SUPPLEMENT WITH 205 RECEIVER NOTE TO BE INSPECTED USING THE NEWLY CREATED 'GENERIC INSPECTION ANALYSIS' FOR THE SPECIFIC TYPE OF MATERIAL PROCURED. ANY OTHER INSPECTION ANALYSIS MUST BE RETAINED BUT OBSOLETE AND WILL NOT BE USED. G.S. 3-31-2011 R.C. 1-10-2013
206	2022/02/01	Certificate of Analysis	Certificate of analysis to CGA G-11.1 is required. Verification of dew point is not required as part of the Certificate of Analysis.
210	2019/07/12	Packaging Requirement	PARTS MUST BE PACKAGED INDIVIDUALLY IN 4ML ZIPLOC POLYBAGS TO PREVENT DAMAGE DURING HANDLING AND SHIPPING. RC 12/13/11 *** INSPECTION REQUIRED***
211	2019/07/12	Packaging Requirement	PARTS MUST BE PACKAGED INDIVIDUALLY TO PREVENT THE EXXON TURBO OIL NO. 2389 OR EQUIVALENT PER MIL-L-7808 FROM DRYING OUT. JM 05/24/12

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300	2019/07/12	E-6632 Packaging Requirements	IN ADDITION TO ANY MARKING REQUIREMENTS CALLED OUT ON THE PRINT OR PURCHASE ORDER, REFERENCE GOODRICH DOCUMENT E-6632 (SUPPLIER MARKING AND PACKAGING OF COMPONENTS FOR USE ON PRODUCTS DELIVERED ON THE HUMS SYSTEM) FOR ADDITIONAL LABELING REQUIREMENTS.
305	2019/07/12	ASTM D3951 Packaging	Preservation, packaging, and packing of all deliverable goods shall be in accordance with the latest revision of ASTM D3951, standard practice for commercial packaging, unless other requirements are specified in this order. Pink Poly material shall not be used as a primary packaging material or as an insert in waffle packs or trays. 04/16/2018 EKT
362	2020/02/18	Acceptance Record Retention	PRODUCT ACCEPTANCE RECORDS SHALL BE MAINTAINED FOR A MINIMUM OF 10 YEARS AFTER COMPLETION OF PURCHASE ORDER UNLESS OTHERWISE SPECIFIED BY CONTRACT. RECORDS SHALL BE SENT TO SIS WITHIN 48 HOURS OF REQUESTING THEM AND SIS SHALL BE CONTACTED PRIOR TO DISPOSAL OF RECORDS.
393	2020/02/18	MIL-P-55110	USE SILKSCREEN AND SOLDERMASK ARTWORK AND APPLY IN ACCORDANCE WITH MIL-P-55110 IN LIEU OF PP-393 AND PP-395.
400	2023/01/31	Standard Flowdown Requirements	<p>By accepting this purchase order, Supplier (Seller) agrees to meet all of the requirements set forth in the following documents, which does not invalidate any existing contractual agreements that may exist between the Supplier (Seller) and Simmonds Precision Products, Inc.(Simmonds):</p> <ul style="list-style-type: none"> - SAIS-ASQR-PRO-0003, Quality System Requirements for Suppliers, - COL-ASQR-PRO-0003, Supplier Quality Common Supplier Requirements - ASQR-01, Supplier Quality System Requirements. - Simmonds Quality Clause Document <p>Quality assurance clauses applied and listed at the line items, are hereby incorporated by reference as if the text were fully written. The full description of the quality clauses and all document identified hereon can be obtained at the following URL: https://suppliers.utc.com/SPPortal/Pages/Forms</p> <p>For any perceived conflicts between requirements, Seller is required to notify Simmonds prior to accepting this purchase order.</p>

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402	2019/07/12	Group 1 Purchases	(BFGOODRICH AEROSPACE DESIGNATED) THE ITEMS SPECIFIED ON THIS ORDER ARE CLASSIFIED AS GROUP I PURCHASES IN ACCORDANCE WITH MIL-STD-1535. PURCHASE ORDERS MUST BE PLACED WITH AN APPROVED GROUP 1 SUPPLIER ONLY.
403	2020/02/18	Indefinite Shelf Life	SHELF LIFE APPLICABILITY INDEFINITE SHELF LIFE APPLIES TO THIS MATERIAL. THE MATERIAL WILL BE STORED UNDER STANDARD AMBIENT CONDITIONS. THE SUPPLIER MUST ADVISE GOODRICH BY SEPARATE LETTER TO THE BUYER IF THIS PRACTICE IS UNACCEPTABLE. C OF C REQUIRED WITH SHIPMENT. *** INSPECTION REQUIRED***

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404	2020/07/14	Key Characteristic Requirement	<p>SELECTED CHARACTERISTICS FOR THIS PART NUMBER ARE IDENTIFIED AS "KEY". THEY ARE IDENTIFIED ON THE DRAWING ITSELF, ON THE PO, OR IN ANOTHER DOCUMENT ISSUED WITH THE PO. REFER TO UTCQR-09.1, PROCESS CONTROL REQUIREMENTS, FOR GUIDANCE ON MONITORING KEY CHARACTERISTICS. DURING PRODUCTION, KEY CHARACTERISTICS SHALL BE MONITORED USING AN APPROPRIATE PROCESS CONTROL METHOD (FOR EXAMPLE, X-BAR & R CONTROL CHARTS, MISTAKE-PROOFING, 100% INSPECTION, ETC.). IF INSPECTED 100%, RECORDS OF ALL MEASUREMENTS SHALL BE MAINTAINED. A PROCESS CONTROL PLAN SHALL BE MAINTAINED FOR THIS PART NUMBER. THIS PLAN SHALL CONTAIN ALL KEY CHARACTERISTICS, APPLICABLE SPECIFICATIONS, MEASUREMENT METHOD, GAGE R&R STUDIES, PROCESS CAPABILITY STUDY, DATA COLLECTION PLAN, TYPE OF CONTROL METHOD USED, ETC. THIS PLAN SHALL BE APPROVED BY COLLINS AEROSPACE PRIOR TO THE START OF THE FIRST PRODUCTION RUN. ANY MAJOR REVISIONS TO THIS PLAN SHALL BE SUBMITTED FOR APPROVAL PRIOR TO USE. A GOAL OF PROCESS CONTROL IS TO OBTAIN FOR ALL KEY CHARACTERISTICS EITHER A CPK VALUE OF AT LEAST 1.33 IF VARIABLE DATA IS USED WITH SPC OR A YIELD OF AT LEAST 99.9934% IN ALL OTHER CASES. IN ALL CASES, CONTINUOUS PROCESS IMPROVEMENT IS EXPECTED. ANY LOT WITH A CPK VALUE LESS THAN 1.33 FOR ANY KEY CHARACTERISTIC SHALL NOT BE SHIPPED WITHOUT APPROVAL FROM COLLINS AEROSPACE PROCUREMENT. ALL KEY CHARACTERISTIC CHARTS, PLANS, STUDIES, AND DATA SHALL BE MADE AVAILABLE FOR REVIEW BY COLLINS AEROSPACE UPON REQUEST. COLLINS AEROSPACE RESERVES THE RIGHT TO AUDIT THE SUPPLIER'S PROCESS CONTROL PROCEDURES, PRACTICES, ETC. AT ANY TIME.</p>
405	2019/07/12	Quality System Requirements	<p>QUALITY SYSTEM REQUIREMENTS THE SUPPLIER SHALL MAINTAIN A QUALITY SYSTEM COMPLIANT WITH ISO 9001 (LATEST REVISION) OR MIL-Q-9858A SUBJECT TO REVIEW AND APPROVAL OF COLLINS AEROSPACE.</p>
406	2020/02/18	Pratt & Whitney Usage	<p>PRATT & WHITNEY (UNITED STATES) DESIGNATED USAGE.</p>

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407	2020/07/14	Nonconforming Material	<p>MIL-STD-1520 REV B THE SUPPLIER SHALL MAINTAIN A SYSTEM FOR CONTROL, HANDLING AND DISPOSITION OF NONCONFORMING MATERIAL IN ACCORDANCE WITH MIL-STD-1520 REV B. DOCUMENTED PROCEDURES TO IMPLEMENT THIS STANDARD MUST BE APPROVED BY COLLINS AEROSPACE PRODUCT ASSURANCE DEPARTMENT. WHENEVER THIS STANDARD REFERENCES 'GOVERNMENT REPRESENTATIVE' THE SUPPLIER WILL SUBSTITUTE COLLINS AEROSPACE PRODUCT ASSURANCE. ALL MRB ACTIVITY MUST BE COORDINATED THROUGH COLLINS AEROSPACE PROCUREMENT WITH A MINIMUM OF FIVE (5) WORKING DAYS NOTIFICATION.</p>
408	2023/06/19	Quality System Requirements	<p>A) The Supplier shall maintain a Quality System compliant with AS9100 subject to review and approval by Collins Aerospace (Collins). Exceptions to this requirement are made at Collins Vergennes discretion.</p> <p>B) Per AS9102, First Article Inspection (FAI) is required (Does not apply to MIL-Spec and Commercial Off the Shelf)</p> <p>In addition to the requirements of AS9102, the following requirements apply:</p> <ul style="list-style-type: none"> - A replication of product part marking(e.g., photograph or sample) that represents production marking shall be included within the FAI report. NOTE: to ensure correct part marking, approval can be obtained from Collins prior to FAI submission. - For an assembly level FAI, all lower level and detail FAIs shall be included in the FAI report. - Additional requirements for AS9102 FAI Form 1: <ul style="list-style-type: none"> o Field 11, Supplier Code: Record Collins assigned supplier code. o Field 12. Purchase Order Number: Record Collins Purchase order number - Additional requirements for AS9102 FAI Form 3: <ul style="list-style-type: none"> o Field 14: for each characteristic: Record type of inspection measuring equipment used (e.g., gauge name, type, description) and inspector identification (e.g., signature, stamp, electronic authorization) of the person that accomplished the inspection. <p>Collins additional FAI requirements exist in SAIS-ASQR-PRO-0003 Appendix B. Prior to shipping parts to Collins, the supplier shall email the FAI to gputassifaimain@collins.com. The supplier shall not deliver parts until the FAI is approved by receiving a signed AS9102 Form 1 or an approved Collins Vergennes Form</p>

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SPPI-LMM-FRM-0004-001. This approved AS9102 Form 1 or Form SPPI-LMM-FRM-0004-001 shall be included in the first shipment of parts covered by the FAI. Please allow for sufficient time for FAI approval in your build plan to avoid late deliveries. If there are any questions with this process, please contact your buyer.

C) Quality Alerts: The following companies must not be utilized to fabricate product supplied on this purchase order: ANCO Tech Inc./ANCO Tech Acquisition 7/03, West Coast Aluminum/Temperform 7/03, Hydroform USA 5/05, Western Titanium 6/04, Air Capitol Plating 4/05, Gross Instrument Corp. 3/06, M&M International Aerospace 3/06.

D) Counterfeit Parts Prevention: Refer to SAIS-ASQR-PRO-0003, Appendix K. Electronic parts procured from Collins Vergennes are acceptable to be sold back to Collins Vergennes with proof of procurement and original packaging from Collins Vergennes.

E) In addition to print and purchase order requirements, refer to Engineering document I-1362 for workmanship spec for visual inspection at Collins Vergennes' suppliers and receiving inspection (not applicable to circuit cards). I-1362 shall not override other print or purchase order requirements. For a copy of the document, contact the Collins Vergennes buyer to route to the appropriate person or provide response.

F) Special Processes: all suppliers (regardless of tier) shall use only Collins-approved special process sources unless otherwise permitted by contract. A supplier may request that a source be added to the Collins-approved special process listing through the responsible buyer. However, such sources may not be used prior to being listed. All Special Process suppliers must be NADCAP accredited unless otherwise approved by Collins. Further information regarding NADCAP can be found via the Performance Review Institute (PRI) website using the following link: <https://p-r-i.org/nadcap/>. A listing of Collins-approved Special Process Suppliers can be found on the supplier portal at the following link: <https://suppliers.utc.com/Portal/Pages/Forms>.

G) If applicable, parts and assemblies required to be welded in accordance with AWS D17.1 shall be deemed Flight Hardware per AWS D17.1.

H) Acceptance Authority Media (AAM) is any media used to record the status of tasks/operations on product or product records during and upon completion of the development, manufacturing, modification, repair, and support processes. AAM can consist of stamps, signature, electronic sign off, etc. AAM is considered a personal warranty of compliance and conformity of the job being performed. Per AS9100, suppliers shall establish appropriate controls for the acceptance media. In addition, they shall ensure their employees understand the meaning of their use of AAM.

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			I) Within 24 hours of discovery of suspect non-conforming product having been shipped regardless of destination the supplier shall inform Collins using ASQR-01 Form 6. NOE communication shall be submitted to the following contact: SupplierQualityVergennes@collins.com
409	2019/07/12	Software Quality Assurance	SUPPLIER SHALL MAINTAIN A QUALITY SYSTEM TO MANAGE AND CONTROL THE QUALITY OF SOFTWARE DELIVERED OR USED TO SUPPORT DELIVERY OF SOFTWARE IN ACCORDANCE WITH RTCA DO-178. (JJJ 2/10/10)
410	2020/07/14	Collins Source Inspection Required	COLLINS AEROSPACE SOURCE INSPECTION IS REQUIRED PRIOR TO SHIPMENT OF ARTICLES FROM YOUR FACILITY. NOTIFY THE COLLINS BUYER AT LEAST FIVE (5) DAYS PRIOR TO THE SCHEDULED DATE OF SHIPMENT OF ARTICLES FROM YOUR PLANT. A COMPLETED COPY OF THE SOURCE INSPECTION FORM (FORM # 27620-3) SIGNED BY A COLLINS QUALITY REPRESENTATIVE SHALL BE INCLUDED WITH THE SHIPMENT AND A COPY FORWARDED DIRECTLY TO COLLINS QA . CLS 11/19/07 *** INSPECTION REQUIRED***
411	2020/02/18	Government Source Inspection Required	GOVERNMENT SOURCE INSPECTION REQUIRED _____ YES _____ NO _____ QAR SUPPLIER INSTRUCTION: WHEN GSI CHECKED 'YES':GOVERNMENT INSPECTION IS REQUIRED PRIOR TO SHIPMENT FROM YOUR PLANT. UPON RECEIPT OF THIS ORDER, PROMPTLY NOTIFY THE GOVERNMENT REPRESENTATIVE WHO NORMALLY SERVICES YOUR PLANT SO THAT APPROPRIATE PLANNING FOR GOVERNMENT INSPECTION CAN BE ACCOMPLISHED. ON RECEIPT OF THIS ORDER PROMPTLY FURNISH A COPY TO THE GOVERNMENT REPRESENTATIVE WHO NORMALLY SERVICES YOUR PLANT, OR, IF NONE, TO THE NEAREST ARMY, NAVY, AIR FORCE, OR DEFENSE SUPPLY AGENCY INSPECTION OFFICE. IN THE EVENT THE REPRESENTATIVE OR OFFICE CANNOT BE LOCATED, OUR PURCHASING AGENT SHOULD BE NOTIFIED IMMEDIATELY.' IF THE ABOVE BOX IS CHECKED 'YES' THEN THE SUPPLIER MUST PROVIDE EVIDENCE ON THE COFC THAT GOVERNMENT SOURCE TOOK PLACE. GOODRICH RECEIVING INSPECTION SHALL VERIFY THE COFC CONTAINS THE EVIDENCE AND RETAIN A RECORD. *** INSPECTION REQUIRED***

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412	2019/07/12	First Article Inspection	WHEN REQUIRED BY AS9102 THE SUPPLIER SHALL PERFORM FIRST ARTICLE INSPECTION. NOTE: THIS DOES NOT APPLY TO ALL ORDERS, ONLY WHEN AS9102 REQUIRES IT.
413	2020/02/18	English Language Requirement	DOCUMENTATION FORMAT QUALITY DATA (E.G. SUPPLIER QUALITY PROCEDURES, CERTIFICATES, REPORTS, OR SIMILAR DATA ASSOCIATED WITH THIS PURCHASE ORDER) SHALL BE PROVIDED IN THE ENGLISH LANGUAGE.
415	2020/07/14	Special Process Approval	THE SUPPLIER SHALL OBTAIN COLLINS AEROSPACE QUALITY CERTIFICATION/APPROVAL OF FACILITIES, EQUIPMENT, PROCESSES, AND OPERATING PERSONNEL FOR ALL WORK ON THIS ORDER INVOLVING PLATING, CHEMICAL FILM, HEAT TREAT, WELDING, SOLDERING, RADIOGRAPHIC, PENETRANT, MAGNETIC PARTICLE, PAINTING, AND ULTRASONIC SPECIAL PROCESSES. THE CERTIFICATION/APPROVAL SHALL BE OBTAINED PRIOR TO THE START OF WORK. SPECIAL PROCESS SOURCES USED BY THE SUPPLIER SHALL BE SUBJECT TO THE SAME APPROVAL REQUIREMENTS AS ABOVE AND SHALL BE OBTAINED PRIOR TO THE TIME OF USE BY THE SUPPLIER. ALL CHANGES TO AN APPROVED PROCESS SHALL REQUIRE COLLINS' APPROVAL PRIOR TO IMPLEMENTATION. CERTIFICATES OF COMPLIANCE MUST INCLUDE THE SPECIAL PROCESS SPECIFICATION NUMBER AND REVISION AS CALLED OUT. MANUFACTURERS THAT UTILIZE AN APPROVED SPECIAL PROCESS SUPPLIER MUST PROVIDE, WITH SHIPMENT, A CERTIFICATE OF COMPLIANCE FROM THE SPECIAL PROCESS SUPPLIER.
416	2020/03/26	Limited Life Item	This is limited life material and must be tagged with a Storage Control Material Tag by Receiving Inspection prior to acceptance
417	2019/07/12	Hazardous Material	A MATERIAL SAFETY DATA SHEET (MSDS), OR EQUIVALENT, THAT MEETS ALL APPLICABLE NATIONAL, REGIONAL, AND LOCAL REGULATIONS AS DEFINED BY THE BUYER MUST BE INCLUDED WITH DELIVERY OF THIS ORDER IF THIS ORDER IS OF A HAZARDOUS NATURE. AT A MINIMUM, THE MSDS MUST MEET US OSHA/ANSI OR EU REQUIREMENTS.
418	2020/02/18	Delta III and IV Program Requirements	THE REQUIREMENTS OF ELV-JC-002D, APPENDIX C FORM A PART OF THIS PURCHASE ORDER.

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420	2020/02/18	Manufacturer Lot Identification	MANUFACTURER LOT IDENTIFICATION SHIPMENT MUST BE IDENTIFIED WITH THE MFG. LOT NUMBER OR DATE CODE OR OTHER SUITABLE MEANS TRACEABLE TO THE LOT/DATE.
421	2019/07/12	Configuration Control	REQUALIFICATION REQUIRED FOR CHANGES IN MANUFACTURER.
422	2020/02/18	PPV Checklist Required	FAI SHALL INCLUDE A PRODUCT/PROCESS VERIFICATION (PPV) CHECKLIST TO BE USED AS A GUIDE FOR PROCESS VERIFICATION. PREFERRED FORMS ARE INCLUDED IN AN EXCEL FILE REFERENCED BELOW AT THE WEB SERVER LINK - FORM # AS9102. https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/mfc.html REF LM NOTE 1818
425	2020/02/18	Solderability Testing	SOLDERABILITY TESTING OF ELECTRONIC, ELECTRICAL DEVICES AND PWB'S ELECTRONIC, ELECTRICAL DEVICES DELIVERED ON THIS PURCHASE ORDER MUST BE CAPABLE OF PASSING SOLDERABILITY TESTING IN ACCORDANCE WITH MIL-STD-883, METHOD 2003.* OR MIL-STD-202, METHOD 208, MIL-STD-750, METHOD 2026.*, OR MIL-STD-883, METHOD 2022.*, J-STD-002 OR J-STD-003 CATEGORY TYPE 3, WHICHEVER IS APPLICABLE.
428	2019/07/12	Counterfeit Items	SELLER SHALL NOT DELIVER PRODUCTS THAT CONTAIN COUNTERFEIT ITEMS (SUCH AS, BUT NOT LIMITED TO, SOFTWARE, MATERIAL AND ELECTRICAL/MECHANICAL PARTS/ASSEMBLIES). SAE AS5553 PROVIDES GUIDANCE FOR ELECTRONIC PART COUNTERFEIT PREVENTION. AS6174 PROVIDES GUIDANCE FOR ALL OTHER MATERIALS. LM NOTE MFC-PR-003 EKT 10/26/2017
429	2022/02/01	Freezer Storage Required	INDIVIDUAL CONTAINERS ARE TO BE IDENTIFIED WITH THE REQUIREMENT TO BE STORED IN A FREEZER. NOTE TO SUPPLIER: MATERIAL WILL BE STORED IN A FREEZER AT LESS THAN OR EQUAL TO 30 DEGREES FARENHEIT UPON RECEIPT.
430	2022/02/01	Refrigeration Required	INDIVIDUAL CONTAINERS ARE TO BE IDENTIFIED WITH THE REQUIREMENT TO BE REFRIGERATED. NOTE TO SUPPLIER: MATERIAL WILL BE REFRIGERATED BETWEEN 32 AND 45 DEGREES FARENHEIT DEGREES UPON RECEIPT.

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431	2023/06/19	Limited Life	<p>THE SUPPLIER'S CERTIFICATION OF COMPLIANCE AND LABEL SHALL STATE THE DATE OF MANUFACTURE, RECOMMENDED SHELF LIFE FROM DATE OF MANUFACTURE AND STORAGE TEMPERATURE (AS REQUIRED) FOR LIMITED LIFE ITEMS SUPPLIED ON THIS PURCHASE ORDER. REMAINING SHELF LIFE OF EACH UNIT SUPPLIED SHALL BE A MINIMUM OF 75 PERCENT (75%) OF THE TOTAL SHELF LIFE (MINIMUM 50% FOR VMI SUPPLIERS). C OF C REQUIRED WITH SHIPMENT. ***INSPECTION REQUIRED***</p>
432	2019/07/12	Physical And/or Chemical Test Report	<p>A PHYSICAL AND/OR CHEMICAL TEST REPORT SHALL ACCOMPANY ALL SHIPMENTS OF RAW MATERIAL FURNISHED IN ACCORDANCE WITH THIS PURCHASE ORDER. THE REPORT MUST SPECIFICALLY IDENTIFY THE MATERIAL BY REFERENCE TO THE MELT, CAST, HEAT, DROP, LOT OR OTHER SIMILAR DESIGNATION AND MUST INDICATE THE APPLICABLE SPECIFICATION AND PURCHASE ORDER NUMBER. TEST REPORTS MUST STATE ACTUAL VALUES OF ANALYSIS/TESTS, SPECIFICATION AND REVISION INCLUDING ANY AMENDMENTS. MIN/MAX VALUES WILL NOT BE ACCEPTED.</p>
433	2019/07/12	Acceptance Test Procedure	<p>THE SUPPLIER SHALL HAVE ON FILE A DETAILED ACCEPTANCE TEST PROCEDURE FOR EACH DELIVERABLE ARTICLE TESTED. THE TEST PROCEDURE SHALL BE SPECIFIC WITH REGARD TO THE TESTS TO BE PERFORMED, TEST METHODS, TEST EQUIPMENT, SEQUENCE OF TESTING AND TEST DATA REQUIREMENTS.</p>
434	2019/07/12	Qualification Test Procedure	<p>THE SUPPLIER SHALL PROVIDE A DETAILED QUALIFICATION TEST PROCEDURE. THE TEST PROCEDURE SHALL BE SPECIFIC WITH REGARD TO THE TESTS TO BE PERFORMED, TEST METHODS, TEST EQUIPMENT AND ENVIRONMENTS, SEQUENCE OF TESTING AND TEST DATA REQUIREMENTS. QUALIFICATION TEST PROCEDURES ARE SUBJECT TO APPROVAL BY GOODRICH AEROSPACE QUALITY ASSURANCE AND MUST BE SUBMITTED AT LEAST FOUR (4) WEEKS PRIOR TO THE START OF TESTING.</p>

435	2021/09/07	Critical Dimensions	<p>Note: This clause was created for the SDB program only. ITEMS IDENTIFIED AS A CRITICAL DIMENSIONS ON THE ENGINEERING DRAWING SHALL REQUIRE INSPECTION FOR 100% OF FIRST LOT OF DELIVERED UNITS.</p> <p>DIMENSIONS DENOTED AS CRITICAL SHALL BE VERIFIED THEREAFTER FOR A SAMPLE SIZE OF 0.65% AQL PER LOT USING SAMPLE PLANS EQUAL TO OR BETTER THAN LEVEL II OF MIL-STD-105 AND ITS EQUIVALENT AMERICAN NATIONAL STANDARD ANSI/ASQC Z1.4.</p> <p>UPON DELIVERY, EACH INSPECTED PIECE SHALL BE ACCOMPANIED BY THE SUPPLIER'S INSPECTION REPORT.</p> <p>AT A MINIMUM, THE REPORT SHALL INCLUDE THE FOLLOWING INFORMATION:</p> <ol style="list-style-type: none"> 1. DRAWING NUMBER AND DRAWING REQUIREMENT BEING VERIFIED 2. ACTUAL INSPECTION RESULTS – VARIABLE DATA PREFERRED 3. METHOD OF INSPECTION 4. CALIBRATED EQUIPMENT IDENTIFICATION 5. INSPECTOR SIGNOFF <p>*** INSPECTION REQUIRED***</p>
436	2019/07/12	Certified Test Data	<p>THE SUPPLIER SHALL FURNISH CERTIFIED TEST DATA FOR EACH UNIT SHIPPED AGAINST THIS PURCHASE ORDER. THE DATA SHALL BE FURNISHED WITH THE APPLICABLE UNITS. THE TEST DATA SHALL BE IDENTIFIED BY UNIT SERIAL NUMBER. THE TEST DATA SHALL BE APPROVED BY THE SUPPLIER'S QUALITY ASSURANCE DEPARTMENT.</p>

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437	2020/02/18	LMMFC Document 3-56120/3R-051	<p>THE FOLLOWING SECTIONS OF LMMFC DOCUMENT 3-56120/3R-051 APPLY: PARTS: 1) The following parts, materials, and processes are prohibited without Government Lower Tier Project Office (LTPO) Product Assurance approval: Y DESCRIPTOR: EEE PARTS NOT PROCURED FROM THE ORIGINAL MANUFACTURER, A MANUFACTURER AUTHORIZED DISTRIBUTOR, OR WITHOUT A CONTRACTOR APPROVED PROCESS THAT HAS ALSO BEEN APPROVED BY THE GOVERNMENT. Z DESCRIPTOR: REUSED, REINSTALLED, RECYCLED, OR SALVAGED EEE PARTS WITHOUT A CONTRACTOR APPROVED PROCESS THAT HAS ALSO BEEN APPROVED BY THE GOVERNMENT CONTRACTING OFFICER. EEE PARTS PREVIOUSLY INSTALLED OR OTHERWISE ATTACHED TO ANOTHER ASSEMBLY ARE CONSIDERED USED AND NOT NEW. 2) ALL EEE (ELECTRICAL, ELECTRONIC, ELECTROMECHANICAL COMPONENTS) PARTS SUPPLIED MUST HAVE A MANUFACTURED DATE CODE THAT IS WITHIN 4.5 YEARS OF RECEIPT BY GOODRICH. MANUFACTURED DATE CODE MUST BE INDICATED ON EITHER PARTS OR DOCUMENTATION PROVIDED AND MARKED OR LABELED AS SUCH. CURRENT CERTIFICATION FOR SOLDERABILITY SHALL BE REQUIRED FOR DATE CODES GREATER THAN 4.5 YEARS FOR ACCEPTANCE OF LOT(S). PROCESSES: 3) THE USE OF MEDIUM AND/OR HIGH ACTIVITY LEVEL FLUXES REQUIRE CUSTOMER APPROVAL. WHEN APPROVED, THE USE OF MEDIUM AND HIGH ACTIVITY LEVEL FLUXES SHALL BE NEUTRALIZED, CLEANED, AND CLEANLINESS TESTED AFTER COMPLETION OF SOLDERING OPERATION</p>
438	2020/02/18	DOD 4145.26-M	<p>SUPPLIER AND SUB-TIER SUPPLIER MUST COMPLY WITH THE FOLLOWING REGULATION: DOD CONTRACTORS SAFETY MANUAL FOR AMMUNITION AND EXPLOSIVES (DOD 4145.26-M, DATED MARCH 2008)</p>

439	2019/07/12	Raw Material Certification	THE SUPPLIER SHALL MAINTAIN PHYSICAL AND/OR CHEMICAL TEST REPORTS COVERING THE RAW MATERIAL SUPPLIED OR USED ON THIS ORDER. THESE REPORTS MUST BE RETAINED FOR 4 YEARS AND BE MADE AVAILABLE UPON REQUEST. SHIPMENT SHALL INCLUDE CERTIFICATION THAT EXHIBITS APPLICABLE SPECIFICATION NUMBER, REVISION AND PURCHASE ORDER NUMBER.
440	2019/07/12	Statement of Work	THIS PURCHASE ORDER IS NOT COMPLETE WITHOUT A STATEMENT OF WORK (SOW). THE SOW DEFINES THE GOODS AND SERVICES TO BE FURNISHED BY THE SUPPLIER. THE SOW TAKES PRECEDENCE OVER ALL OTHER DOCUMENTATION.

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441	2021/09/07	PWB Packaging Requirement	<p>PER LOCKHEED MARTIN FLOWDOWN NOTE MFC-PK-005 (PACKAGING REQUIREMENT FOR PRINTED WIRING BOARDS): EACH PWB SHALL BE INDIVIDUALLY PACKAGED IN ACCORDANCE WITH THE OPTIONS LISTED BELOW:</p> <p>OPTION 1: SEALED, DRY NITROGEN PURGED, VAPOR BARRIER, ESD BAG</p> <p>OPTION2: VACUUM SEALED, VAPOR BARRIER, ESD BAG CONTAINING ONE ACTIVATED DESICCANT BAG (MIL-D- 3464 TYPES I AND II)</p> <p>EVERY INDIVIDUAL BAG SHALL BE LABELED WITH PART NUMBER, REVISION LEVEL OF DRAWING, WORK ORDER NUMBER / LOT NUMBER, PURCHASE ORDER NUMBER, PO LINE NUMBER, DATE CODE OF SOLDERABILITY TEST AND SERIAL NUMBER IF IT IS REQUIRED BY THE DRAWING. EACH BAGGED PWB SHALL BE INDIVIDUALLY WRAPPED WITH ANTI-STATIC BUBBLE-PACK OR FOAM AND PACKAGED IN A SHIPPING CONTAINER TO PREVENT DAMAGE TO THE SEALED BAGS DURING SHIPMENT.</p> <p>DO NOT STAPLE ANYTHING TO THE BAG.</p>
442	2019/07/12	Supplier Inspection Records	<p>THE SUPPLIER SHALL INCLUDE WITH EACH SHIPMENT A PHOTOCOPY OF HIS FINAL INSPECTION RECORDS FOR THIS PART NUMBER SHIPPED AGAINST THIS PURCHASE ORDER. (ACTUAL MEASUREMENTS REQUIRED, WHEN APPLICABLE.) **REC. INSPECTION IS LIMITED TO VERIFICATION OF THIS DATA ONLY.** ** INSPECTION REQUIRED**</p>

443	2020/02/18	Wire/Cable Spool Requirement	<p>A. ALL SPOOLED WIRE/CABLE PER SPOOL MUST HAVE ALL ENDS OF LENGTHS EXPOSED AND LABELED FOR INSPECTION PURPOSES. LENGTH TO BE 100 FT. MINIMUM EACH (THIS MINIMUM DOES NOT APPLY TO VMI PARTS).</p> <p>B. EACH SPOOL OF WIRE MUST BE IDENTIFIED WITH P/N, WIRE GAGE, SPECIFICATION, PURCHASE ORDER NUMBER, MANUFACTURING DATE CODE OR LOT NUMBER. ALL LENGTHS OF A GIVEN SPOOL MUST BE OF THE SAME MANUFACTURING DATE CODE OR LOT NUMBER. SPLICES IN WIRE ARE NOT ALLOWED.</p>
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444	2020/02/18	Printed Circuit Boards or Printed Wiring Flexes	<p>A. PACKAGING - FINISHED PRINTED WIRING BOARDS ARE TO BE INDIVIDUALLY PACKAGED IN BAGS THAT WILL PROTECT THE BOARDS FROM MOISTURE AND CONTAMINATION. PACKAGING MATERIAL SHALL BE FREE OF SURFACE AMINES AND AMIDES.</p> <p>B. TEST CIRCUITRY- THE MANUFACTURER (SUPPLIER) SHALL RETAIN ONE FUSED (REFLOWED) COUPON STRIP AND MICRO-SECTION FROM EACH PANEL OF EACH LOT OR DATE CODE IN THE PRE- AND POST-THERMAL STRESS CONDITION. IF THE SUPPLIED ARTMASTER DOES NOT CONTAIN TEST CIRCUITRY, THE SUPPLIER SHALL UTILIZE ACTUAL PRODUCTION PIECES (SCRAP PIECES ARE ACCEPTABLE FOR THIS PURPOSE) IN THEIR PLACE. ALL TEST SAMPLES MUST BE CLEARLY IDENTIFIED AND AVAILABLE FOR CUSTOMER REVIEW.</p> <p>C. DIMENSIONAL TEST DATA- THE SUPPLIER SHALL FURNISH A COMPLETE LAYOUT REPORT REFLECTING EACH DIMENSION ON THE MASTER DRAWING WHEN REQUIRED AS FOLLOWS: A) FIRST PRODUCTION LOT SUBMITTED B) REVISION CHANGES AFFECTING DIMENSIONS C) TOOLING CHANGES AFFECTING DIMENSIONS D. MARKING- IN ADDITION TO ARTMASTER MARKING (I.E., ETCHING AND SILKSCREEN) THE FOLLOWING MUST BE APPLIED TO EACH INDIVIDUAL PART. (NOTE: WHEN ITEMS CANNOT BE PHYSICALLY MARKED OR TAGGED DUE TO LACK OF SPACE THE INFORMATION SHALL BE MARKED ON THE BAG CONTAINING THE PRODUCT.) 1. FSCM/CAGE CODE OR MANUFACTURER'S LOGO 2. DATE CODE OR LOT CODE 3. PANEL LETTER/NUMBER TRACEABILITY</p>
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445	2019/07/12	Traceability	THE ITEMS SPECIFIED ON THIS ORDER MUST BE IDENTIFIABLE AND TRACEABLE BY SERIAL NUMBER, LOT NUMBER, DATE CODE OR OTHER CONTROLLED AND DOCUMENTED NUMBERING SYSTEM. TRACEABILITY RECORDS MUST BE ON FILE AND AVAILABLE FOR REVIEW BY SIMMONDS UPON REQUEST. THE LOT AND OR SERIAL NUMBER ASSIGNED MUST BE SHOWN ON THE CERTIFICATION FOR THE ITEM.
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446	2020/02/18	Ceramic Printed Circuit Boards	<p>A. PACKAGING - FINISHED CERAMIC PRINTED CIRCUIT BOARDS, ARE TO BE INDIVIDUALLY PACKAGED IN PLASTIC BAGS THAT WILL PROTECT THE BOARDS FROM CONTAMINATION. THE BAGS ARE TO BE FOLDED OVER AND TAPED, AND HEAT SEALING IS NOT PERMITTED. BAG MATERIAL SHALL NOT CONTAIN AMINES OR AMIDES. EACH BAG IS TO BE MARKED WITH THE FOLLOWING AS A MINIMUM.</p> <ol style="list-style-type: none"> 1. SUPPLIER IDENTIFICATION 2. PART NUMBER AND REVISION 3. DATE CODE <p>B. TESTING- ALL PARTS SHALL BE 100% ELECTRICALLY TESTED FOR OPENS AND SHORTS ONLY. ELECTRICAL TEST DATA MUST REMAIN ON FILE AND AVAILABLE FOR GOODRICH AEROSPACE REVIEW UPON REQUEST.</p> <p>C. MARKING - ALL CERAMIC BOARDS SHALL BE MARKED WITH THE FOLLOWING AS A MINIMUM:</p> <ol style="list-style-type: none"> 1. FSCM OR MANUFACTURER'S LOGO 2. PART NUMBER AND REVISION LEVEL 3. DATE CODE OR LOT CODE 4. ESD SYMBOL PER DRAWING. <p>D. REVISIONS- REVISIONS THAT REQUIRE ARTWORK CHANGES MUST UNDERGO 1ST ARTICLE INSPECTION. ONE DETAIL SAMPLE PART POSITIVELY IDENTIFIED AS A 'FIRST ARTICLE' SHALL BE SUBMITTED TO THE GOODRICH AEROSPACE RECEIVING INSPECTION DEPARTMENT FOR INSPECTION AND APPROVAL. THE GOODRICH AEROSPACE PURCHASING DEPARTMENT WILL NOTIFY THE SUPPLIER IN WRITING OF THE DISPOSITION (ACCEPTED OR REJECTED) OF THE FIRST ARTICLE. IF THE FIRST ARTICLE IS APPROVED, GOODRICH AEROSPACE PURCHASING WILL NOTIFY THE SUPPLIER IN WRITING TO SHIP THE BALANCE OF THE ORDER. THE SUPPLIER SHALL FURNISH AT THE TIME OF SUBMITTAL OF THE FIRST ARTICLE:</p> <ol style="list-style-type: none"> A. COMPLETE INSPECTION AND/OR TEST DATA FOR THE SAMPLE, WHERE APPLICABLE. B. INSPECTION CHECK SHEETS C. DRAWING/TEST SPECIFICATION USED, IF OTHER THAN THOSE ORIGINATED BY GOODRICH AEROSPACE.
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447	2020/02/18	Wire/Cable Spool Requirement	<p>A. ALL SPOOLED WIRE/CABLE PER SPOOL MUST HAVE ALL ENDS OF LENGTHS EXPOSED AND LABELED FOR INSPECTION PURPOSES.</p> <p>B. EACH SPOOL OF WIRE MUST BE IDENTIFIED WITH P/N, WIRE GAGE, SPECIFICATION, PURCHASE ORDER NUMBER, MANUFACTURING DATE CODE OR LOT NUMBER. ALL LENGTHS OF A GIVEN SPOOL MUST BE OF THE SAME MANUFACTURING DATE CODE OR LOT NUMBER. SPLICES IN WIRE ARE NOT ALLOWED.</p>
448	2019/07/12	Electrostatic Sensitive Devices	<p>THIS DEVICE IS ELECTROSTATIC SENSITIVE. PARTS MUST BE PACKAGED IN ESD PROTECTIVE PACKAGING, 'CAUTION - ELECTROSTATIC SENSITIVE DEVICE.' MARK PACKAGES AND SHIPPING DOCUMENTS WITH ESD SYMBOL AND WARNING.</p>

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449	2019/07/12	LCD Quality Requirements	<p>THE SUPPLIER SHALL MAINTAIN ON FILE A DETAILED TEST REPORT FOR EACH LOT SUBMITTED. THE TEST REPORT SHALL BE COMPLETE WITH RESPECT TO THE REQUIREMENTS OF THE APPROVED ACCEPTANCE TEST PROCEDURE. THE ITEMS SPECIFIED ON THIS ORDER MUST BE IDENTIFIABLE AND TRACEABLE BY SERIAL NUMBER, LOT NUMBER, OR DATE CODE. TRACEABILITY RECORDS MUST BE ON FILE AND AVAILABLE FOR REVIEW BY GOODRICH UPON REQUEST. THE SERIAL/LOT NUMBER OR DATE CODE ASSIGNED MUST BE SHOWN ON THE CERTIFICATION FOR THE ITEM. THE SUPPLIER SHALL HAVE ON FILE A DETAILED ACCEPTANCE TEST PROCEDURE WHICH HAS BEEN APPROVED BY GOODRICH ENGINEERING. PARTS CANNOT BE SHIPPED TO WITHOUT AN APPROVED ATP UNLESS AUTHORIZED BY SUPPLIER QUALITY ENGINEERING AND BUYER. A CORRELATION TEST PIECE MUST BE SUBMITTED TO THE BUYER FOR ALL FIRST TIME PRODUCT BUILDS. THE TEST PIECE SHALL BE TESTED PER THE APPROVED ATP. TEST DATA SHALL ACCOMPANY THE TEST PIECE UPON SUBMITTAL TO GOODRICH AEROSPACE. ADDITIONALLY, AT THE OPTION OF THE BUYER, THE SUPPLIER SHALL SUBMIT A CORRELATION TEST PIECE(S) WITHIN THE LIFE OF THIS PURCHASE ORDER. NOTIFICATION OF THIS REQUIREMENT WILL BE GIVEN PRIOR TO SUBMITTAL OF A LOT TO GOODRICH AEROSPACE.</p>
450	2019/07/12	Manufacturing Stock	<p>THIS MATERIAL WAS STOCKED WITHOUT INSPECTION AND MUST BE INSPECTED PRIOR TO BEING SHIPPED AS A SPARE PART.</p>
451	2020/02/18	High Temperature Cable	<p>SPECIAL PACKAGING AND HANDLING REQUIREMENTS FOR HIGH TEMPERATURE CABLE: CABLE MUST BE SPOOLED ON A NEW UNUSED PLASTIC SPOOL. EACH SPOOL MUST BE PACKAGED IN A SEALED PLASTIC BAG. A SUITABLE DESICCANT MUST BE PLACED IN EACH BAG. NOTE TO GOODRICH RECEIVING INSPECTION: ENSURE CABLE IS STOCKED IN PLASTIC BAG. HANDLE CABLE WITH PLASTIC GLOVES ONLY.</p>

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453	2019/07/12	Commercial Board Manufacture	AS A MINIMUM, THE SUPPLIER SHALL PROVIDE PRINTED BOARDS MANUFACTURED TO THE LATEST REVISION OF ANSI/IPC-RB-276 (QUALIFICATION PERFORMANCE STANDARD) AND ANSI/IPC-A-600 (ACCEPTABILITY STANDARD).
454	2020/02/18	Workmanship Requirements	AT A MINIMUM, PRODUCT SUPPLIED TO THIS REQUIREMENT SHALL CONFORM TO MIL-STD-454 REV J REQUIREMENTS 5 AND 9.
455	2019/07/12	Connectors	THREADED HARDWARE (WITH THE EXCEPTION OF SELF LOCKING NUTS) SHALL BE ASSEMBLED PRIOR TO SHIPMENT.
456	2019/07/12	Product Information	A PRODUCT INFORMATION SHEET COVERING ANY NECESSARY PRECAUTIONS TO BE OBSERVED IN HANDLING, STORING, SHIPPING, OR IN MACHINING, FORMING, BENDING, BONDING, ABRADING OR POLISHING MUST BE SUBMITTED WITH THIS ORDER.
457	2020/02/18	Special Packaging	Exception to Quality Clause 444 POLYIMIDE BOARDS ARE TO BE SEALED IN PLASTIC BAGS TO PREVENT MOISTURE ABSORPTION. A MOISTURE INDICATOR IS TO BE SEALED IN EACH BAG UNIT. DO NOT STACK BOARDS - 1 LAYER MAX. PACKAGING MATERIAL MUST BE PRE-APPROVED BY THE GOODRICH BUYER. GOODRICH MUST BE NOTIFIED OF ANY CHANGES TO THE PACKAGING MATERIALS OR PROCESS. *** INSPECTION REQUIRED***
458	2020/02/18	AMS2817 Packaging Requirement	PACKAGING OF PREFORMED RUBBER PACKAGE PER SAE AMS2817
459	2020/02/18	No Frayed or Sharp Edges Permitted	BOARD TO BE FREE OF FRAYED AND SHARP EDGES
460	2020/02/18	Color Test Panel	COLOR TEST PANEL NOT REQUIRED UNLESS PREVIOUSLY SPECIFIED BY QUALITY ENGINEERING

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461	2020/02/18	Conformal Coat Inspection	<p>THIS CLAUSE IS A MANDATORY REQUIREMENT TO INSPECT FOR CONFORMAL COATING APPLICATION AND TO PROVIDE PHOTO(S) AS AN OBJECTIVE EVIDENCE OF THE CONFORMAL COATING AS STATE HEREIN. THE SUPPLIER SHALL PROVIDE 2 PHOTOS PER EACH LOT PRODUCED AS AN OBJECTIVE EVIDENCE TO SHOW THE FOLLOWING:</p> <p>1) MANUFACTURING OPERATOR IS APPLYING CONFORMAL COATING UNDER THE J502 AND J1 CONNECTORS.</p> <p>2) PRESENCE OF CONFORMAL COATING UNDER BOTH J502 AND J1 CONNECTORS.</p> <p>FOR TRACEABILITY PURPOSE THESE 2 PHOTOS SHALL HAVE THE SERIAL NUMBER OF THE CCA AND THE DATE CODE BE PRINTED CLEARLY AT THE BOTTOM OF THE PHOTO. THE SUPPLIER MUST PROVIDE COPY OF THESE 2 PHOTOS TO THE CUSTOMER WITH EACH SHIPMENT IS MADE. RECORD RETENTION FOR PHOTO(S) AND INSPECTION MUST BE KEPT FOR 2 YEARS.</p> <p>*** INSPECTION REQUIRED***</p>
462	2020/02/18	Statement of Work	<p>GOODRICH STATEMENT OF WORK APPLIES TO PRODUCT ORDERED ON THIS PURCHASE ORDER REFER TO GOODRICH DOCUMENT: E-4260 FOR RAVEN ONLY E-6869 FOR DUCOMMUN LABARGE TECHNOLOGIES ONLY</p>

463	2019/07/12	Heat Treat	THE SUPPLIER WILL RETAIN RECORDS THAT EXHIBIT THE QUANTITY OF PARTS INSPECTED FOR HEAT TREAT CONFORMANCE. IF 100% TESTING IS REQUIRED BY THE SPECIFICATION AND INDICATIONS WILL NOT BE REMOVED BY SUBSEQUENT MACHINING THEN IT IS PERMISSABLE TO TEST TWO PIECES (OR SLUGS) FROM EACH HEAT TREAT LOT. THE RECORD MUST ALSO INDICATE THE SPECIFICATION AND REVISION TO WHICH THE PARTS WERE HEAT TREATED/TESTED.
464	2019/07/12	Test Samples Requested	THE SUPPLIER WILL FURNISH WITH THIS ORDER TO GOODRICH AEROSPACE APPROPRIATE UNTESTED TEST SAMPLES FOR TESTING THE MATERIAL TO THE APPLICABLE TEST PROCEDURE. THE SAMPLES ARE TO BE LABELED IDENTIFYING THEM AS TO THE BATCH, LOT, OR MANUFACTURING CONTROL NUMBER/LETTERING OF THE CORRESPONDING MATERIAL DELIVERED.
466	2020/02/18	Titan - Accident Investigation	THE SUPPLIER AGREES TO COOPERATE AND ASSIST GOODRICH AND THE GOVERNMENT IN THE INVESTIGATION OF ANY ACCIDENT INVOLVING A MISSILE OR SPACE LAUNCH VEHICLE USING MATERIAL SUPPLIED UNDER THE PURCHASE ORDER.
467	2020/02/18	Key Performance Characteristics	<p>Note: This clause is for the Storm Breaker (SDB) program only.</p> <p>ITEMS IDENTIFIED AS KEY PERFORMANCE CHARACTERISTICS (KPC) ON THE ENGINEERING DRAWING REQUIRE INSPECTION FOR 100% OF DELIVERED UNITS. EACH DELIVERED PIECE SHALL BE ACCOMPANIED BY THE SUPPLIER'S INSPECTION REPORT. AT A MINIMUM, THE REPORT SHALL INCLUDE THE FOLLOWING INFORMATION: DRAWING NUMBER AND REVISION SHEET, ZONE, AND DRAWING REQUIREMENT BEING VERIFIED, ACTUAL INSPECTION RESULTS, METHOD OF INSPECTION/VERIFICATION, INSPECTOR NAME, INSPECTOR CERTIFICATION, EQUIPMENT CALIBRATION DOCUMENTATION, DATE OF INSPECTION, LOT NUMBER AND DATE CODE, PURCHASE ORDER.</p>

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468	2020/02/18	Airbus Program Product	<p>The items procured from UTC under this purchase order are being utilized for production on Airbus programs. The seller has been identified as Key Contributing Party (KCP) for the applicable Airbus programs. Consequently, the seller shall comply with all of the applicable requirements of Airbus document AP1013, "General Requirements for Equipment & System Suppliers" (GRESS), Modules 3, 4, 5.</p> <p>The seller shall document and maintain quality metrics pertaining to all manufacturing defects and test failures (ICT, HASS, functional testing) on all items procured under this purchase order. The seller shall use these quality metrics to calculate the first pass yield of all applicable test and inspection checkpoints, as well as first past yield of any key characteristics identified on engineering drawings covered under this purchase order. This shall be performed in accordance with AP1013, Issue C, Section 3.2.11 (AI-GRESS-L-30222-C).</p> <p>The seller shall analyze first pass yield data for all items procured under this purchase order. The seller shall identify and document the root causes of test failures and manufacturing defects within the quality metrics maintained, as well as the corrective actions taken to prevent their recurrence. This shall be performed in accordance with AP1013, Issue C, Section 3.2.19 (AI-GRESS-L-30211-B, AI-GRESS-30231-C).</p> <p>The seller shall provide all quality performance metrics, as well as the root cause analyses and corrective actions taken for manufacturing defects and test failures to UTC upon the buyer's request. This entails monthly metric reporting for first pass yield (FPY%) related to ICT, Functional and HASS testing, as well as visual inspection.</p> <p>UTC reserves the right to assign corrective actions to the seller for test failures and manufacturing defects that significantly impact quality metrics maintained by the seller, when the seller has not identified or taken timely or effective corrective actions of their own.</p> <p>The seller may request a copy of Airbus GRESS document AP1013, Issue C, from UTC for review and future and reference. Please contact the UTC buyer to obtain a copy.</p>
469	2019/07/12	Heat Treating Results	<p>THE SUPPLIER SHALL SUBMIT WITH EACH SHIPMENT, RECORDS INDICATING ACTUAL RESULTS FROM HARDNESS TESTING.</p>

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471	2020/02/18	I-680 Compliance	TEST DATA TO SUBSTANTIATE COMPLIANCE WITH GOODRICH SPEC. NO. I-680. THIS DATA IS TO ACCOMPANY SHIPMENTS AND PROVIDE PURCHASE ORDER NUMBER, QUANTITY AND REVISION LEVEL OF SPECIFICATION I-680. THIS SPECIFICATION MAY BE OBTAINED FROM THE GOODRICH AEROSPACE BUYER.
472	2019/07/12	Magnetic Wire	EACH SPOOL OF WIRE MUST BE IDENTIFIED WITH P/N, WIRE GAGE, SPECIFICATION, and PURCHASE ORDER NUMBER, MANUFACTURING DATE CODE OR LOT NUMBER. ALL LENGTHS OF A GIVEN SPOOL MUST BE OF THE SAME MANUFACTURING DATE CODE OR LOT NUMBER. SPLICES IN WIRE ARE NOT ALLOWED. EACH SPOOL MUST BE INDIVIDUALLY PACKAGED IN A CARDBOARD BOX. THE BOX DIMENSIONS MUST BE NEAR THE SPOOL DIMENSIONS. THIS BOX MUST BE IN ADDITION TO THE OUTER SHIPPING BOX.
473	2020/02/18	TPI-1410 Certification	SUPPLIER'S CERTIFICATE OF COMPLIANCE TO INCLUDE THE FOLLOWING STATEMENT: 'THESE PARTS HAVE BEEN SAMPLED AT 1% AQL AND MEET THE REQUIREMENTS OF GOODRICH AEROSPACE SPECIFICATION TPI-1410.
474	2020/02/18	TPI-1411 Certification	SUPPLIER'S CERTIFICATE OF COMPLIANCE TO INCLUDE THE FOLLOWING STATEMENT: "THESE PARTS HAVE BEEN SAMPLED AT 1% AQL AND MEET THE REQUIREMENTS OF GOODRICH AEROSPACE SPECIFICATION TPI-1411." *** INSPECTION REQUIRED***
475	2020/02/18	Swaging and Proof Testing	This part requires swaging and proof testing of the bearing per Note 3. Upon passing the proof test, the supplier shall ink stamp "PT" in .100" high lettering using permanent black ink on the flat inside surface of the cover.
476	2019/07/12	Special Test Equipment	THE MATERIALS/SERVICES GOVERNED BY THIS PURCHASE ORDER ARE TO BE USED ON SPECIAL TEST EQUIPMENT ONLY.

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477	2020/02/18	Connector Inspection	The supplier shall inspect connectors for frosty pins prior to shipment and do prevent shipping any connectors that have frosty pins unless otherwise an objective evidence is provided along with the shipment to prove that connectors with frosty pins do meet AS39029 quality requirements.
479	2019/07/12	Passivation	THE SUPPLIER SHALL PASSIVATE, SAMPLE AND TEST EACH LOT OF MATERIAL SUPPLIED UNDER THIS PURCHASE ORDER ACCORDING TO AMS 2700. THE TEST METHOD USED SHALL BE EITHER THE WATER IMMERSION TEST OR THE HIGH HUMIDITY TEST.
481	2019/07/12	Surface Mount Component Packaging	THESE PARTS MUST BE PACKAGED IN TAPE AND REEL UNLESS OTHERWISE INSTRUCTED BY GOODRICH. THE REQUIREMENTS OF ANSI/EIA81-1,-2 OR -3 (WHICHEVER IS APPLICABLE) FORMS A PART OF THIS PURCHASE ORDER. REV 1/14/09 RC FOR PURCHASE ORDER QUANTITIES LESS THAN 25 THIS REQUIREMENT IS PREFERRED BUT NOT MANDATORY. 7/30/08 THE FOLLOWING PARTS MUST BE PROVIDED ON TAPE AND REEL, REGARDLESS OF QUANTITY: 043804-1 5962-9062501M2X 77052012X 77034032X 77034012X 5962-85131092X 5962-9151901M2X 5962-87739012A 5962-9051401M2X 5962-9073101M2X 054535 5962-9452101M2X 043805-1 091494-01 054086 054087 FAILURE TO PROVIDE ON TAPE AND REEL WILL RESULT IN MRB AND RETURN TO SUPPLIER. RC 3/24/11 *** INSPECTION REQUIRED*** 2 additional part numbers added to the mandatory Tape and Reel list. D. Palmore 6/28/17
482	2020/02/18	Test Reports	TEST REPORTS PER PART NUMBER PER DATA CODE OR OTHER LOT IDENTIFIER THE SUPPLIER SHALL PROVIDE A DETAILED TEST REPORT FOR EACH PART NUMBER TESTED. TEST REPORTS SHALL BE COMPLETE WITH: A) TESTS PERFORMED B) ATTRIBUTE TEST RESULTS/DATA C) NONCONFORMANCES AND WAIVERS PENDING OR GRANTED. TEST REPORTS SHALL BE APPROVED BY THE SUPPLIER'S QUALITY ASSURANCE MANAGER PRIOR TO SUBMITTAL TO GOODRICH AEROSPACE REPORTS SHALL BE SHIPPED WITH THE PRODUCT THEY COVER.

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483	2020/02/18	Test Reports	<p>TEST REPORT SUMMARY PER PART NUMBER PER DATE CODE OR OTHER LOT IDENTIFIER THE SUPPLIER SHALL PROVIDE A TEST REPORT(S) COMPLETE WITH: A) PART NUMBER AND REVISION LEVEL B) NUMBER OF ACCEPTED PARTS C) NUMBER OF DEFECTIVE PARTS PER DEFECT, SUCH AS OVERSIZE DIMENSION, PLATING FLAKING, PINS ELECTRICALLY SHORTED ETC. D) TOTAL NUMBER OF PARTS TESTED. TEST REPORT SHALL BE SHIPPED WITH THE PRODUCT.</p>
485	2022/04/08	3.5.7 Parts Library	<p>The parts library induction shall be performed upon receipt of new (not currently available to the library) lot/date codes of a library part as defined by the UTAS parts library kit list. Parts included in the library shall be representative of each component purchased and consumed in the fabrication of the PAC-3 hardware. In the event that multiple lot date codes are consumed by production for a given part number, the library shall contain a quantity of one part for each date code lot quantity that is less than ten (10). If the date code lot quantity is ten (10) or greater, then a quantity of five (5) shall be retained. Parts Library Delivery The Seller shall deliver to the Buyer all parts contained in the Parts Library throughout three delivery dates; first at the first contract delivery, second at the mid-point of the contract deliveries and the third at the end of the contract deliveries. Required Documentation Copies of all test, inspection, and shipping documentation shall be maintained for each sample of parts added to the PAC-3 Parts Library. Data must be representative of the specific part number and manufacturer and is required to be delivered by the Seller to the Buyer with each PAC-3 Parts Library delivery. As a minimum, the following information shall be required for all part samples maintained in the Parts Library: (a) Part Number (b) Quantity received from the manufacturer/distributor (c) Date received (d) Purchase Order number (e) Part type (description) (f) Manufacturer's part number (g) Lot date code(s) received (h) Results from electrical tests/inspections (i) Results from mechanical tests/inspections.</p>

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487	2020/02/18	J-STD-001 Applicability	<p>J-STD-001E, Class 3 is applicable subject to the following modifications: ,a)Solder alloys other Solder alloys, such as Sn60PB40, Sn62Pb36Ag2, and Sn63Pb37, shall be in accordance with J-STD-006. Other solder alloys shall not be used for electrical and electronic assembly soldering unless otherwise specified on the drawing or purchase order. (Reference IPC J-STD-001E, Paragraph 3.2). ,b) Process validation and control shall not be substituted for 100% X-ray inspection of BGA and BTC devices unless it is part of a documented process control program agreed to by the UTC buyer. (Reference IPC J-STD-001E, Paragraph 7.5.14 and 7.5.15) ,c) When NiPdAu (nickel/palladium/gold) is used as a surface finish where the gold is applied through electroless or electrolytic processes resulting in over 8 micro inches of gold, there shall be objective evidence, available for review, that there are no gold related solder embrittlement issues. (Reference IPC J-STD-001E, Paragraph 4.5).</p>
488	2020/02/18	Product Acceptance Certification	<p>THE FOLLOWING APPLIES TO SUPPLIERS AND SUBTIER SUPPLIERS THAT UTILIZE CERTIFICATION TEST REPORTS AS A MEANS OF PRODUCT ACCEPTANCE. THE SUPPLIER SHALL IMPLEMENT A SYSTEM TO VALIDATE PRODUCT, MATERIAL, AND PROCESS CERTIFICATIONS. SUPPLIER'S PROCEDURES SHALL DOCUMENT THE TYPES AND FREQUENCIES OF ANALYSES TO VALIDATE THESE CERTIFICATIONS.</p>
490	2019/07/12	Record Retention	<p>SUPPLIER AND SUB-TIER SUPPLIER FOR THIS PROCURED PART SHALL MAINTAIN RECORD OF TEST DATA, COC, FAI AND DRAWING CHANGES FOR 16 YEARS.</p>

491	2019/07/12	Physical Test Report	<p>A PHYSICAL TEST REPORT COVERING THE RAW MATERIAL SUPPLIED OR USED ON THIS ORDER SHALL ACCOMPANY ALL SHIPMENTS OF MATERIAL FURNISHED IN ACCORDANCE WITH THIS PURCHASE ORDER. THE REPORT MUST SPECIFICALLY IDENTIFY THE MATERIAL BY REFERENCE TO THE MELT, CAST, HEAT, DROP, LOT OR OTHER SIMILAR DESIGNATION AND MUST INDICATE THE APPLICABLE SPECIFICATION, REVISION AND PURCHASE ORDER NUMBER. TEST REPORTS MUST STATE ACTUAL VALUES OF ANALYSIS/TESTS, SPECIFICATION AND REVISION INCLUDING ANY AMENDMENTS. MIN/MAX VALUES WILL NOT BE ACCEPTED. THE TEST DATA SHALL SATISFY ALL REQUIREMENTS FOR LOT ACCEPTANCE TESTING AS STIPULATED IN THE APPLICABLE SPECIFICATION.</p>
492	2019/07/12	Chemical Test Report	<p>A CHEMICAL TEST REPORT COVERING THE RAW MATERIAL SUPPLIED OR USED ON THIS ORDER SHALL ACCOMPANY ALL SHIPMENTS OF MATERIAL FURNISHED IN ACCORDANCE WITH THIS PURCHASE ORDER. THE REPORT MUST SPECIFICALLY IDENTIFY THE MATERIAL BY REFERENCE TO THE MELT, CAST, HEAT, DROP, LOT OR OTHER SIMILAR DESIGNATION AND MUST INDICATE THE APPLICABLE SPECIFICATION, REVISION AND PURCHASE ORDER NUMBER. TEST REPORTS MUST STATE ACTUAL VALUES OF ANALYSIS/TESTS, SPECIFICATION AND REVISION INCLUDING ANY AMENDMENTS. MIN/MAX VALUES WILL NOT BE ACCEPTED. THE TEST DATA SHALL SATISFY ALL REQUIREMENTS FOR LOT ACCEPTANCE AS STIPULATED IN THE APPLICABLE SPECIFICATION *** INSPECTION REQUIRED***</p>
493	2019/07/12	Lot Identification	<p>GOODRICH SUPPLIED MATERIAL CERTIFICATION MUST STATE THAT MATERIAL USED TO MAKE PARTS WAS SUPPLIED BY GOODRICH AND REFERENCE MUST BE MADE TO THE LOT NUMBER OR SHIPPER NUMBER THAT MATERIAL WAS SUPPLIED ON.</p>

494	2019/07/12	Traceability To Manufacturer Required	<p>MATERIALS ORDERED MUST BE PROCURED DIRECTLY FROM THE MANUFACTURER OR FROM DISTRIBUTORS WHO FURNISH WITH THE PURCHASED ITEMS CERTIFICATION BY THE MANUFACTURER OF THE FOLLOWING CONDITIONS. A) THE MATERIAL WAS ACTUALLY PRODUCED OR ASSEMBLED BY THE DESIGNATED MANUFACTURER. B) THE MATERIAL CONFORMS TO SPECIFICATION. C) THE DISTRIBUTOR CERTIFIES THAT THE MATERIAL HE IS SUPPLYING IS THE MATERIAL SUPPLIED BY THE MANUFACTURER FOR THE ABOVE SPECIFICATION. D) THE MATERIAL IS IDENTIFIABLE TO THE CERTIFICATION BY LOT NUMBER, BATCH NUMBER, DATE CODE, ETC. THE ABOVE DOES NOT ALLOW THE DISTRIBUTOR TO GENERATE CERTIFICATIONS OF THE MANUFACTURER. CERTIFICATIONS STATING THAT RECORDS ARE ON FILE AND AVAILABLE ARE NOT ACCEPTABLE. ITEMS RECEIVED WITHOUT THE CORRECT CERTIFICATION AND DOCUMENTATION WILL BE REJECTED. RECORDS ARE TO BE MAINTAINED INDEFINITELY AT THE SUPPLIER. CERTIFICATE OF CONFORMANCE IS REQUIRED WITH SHIPMENT AND SHALL CONTAIN PART NUMBER, REVISION, SERIAL NUMBER (IF APPLICABLE), LOT NUMBER AND/OR DATE CODE, P.O. NUMBER, ORIGINAL MANUFACTURER'S NAME AND/OR CAGE CODE. (UPDATED TO REMOVE 'CAN'. RCN 8/24/09) *** INSPECTION REQUIRED***</p>
495	2019/07/12	FSCM Listing Required	<p>THE FEDERAL SUPPLIER CODE NUMBER MUST BE INCLUDED ON THE CERTIFICATE OF COMPLIANCE FOR THE MANUFACTURER OF THE PRODUCT. *** INSPECTION REQUIRED***</p>
496	2019/07/12	Castings	<p>THE SUPPLIER SHALL INCLUDE A PHOTOCOPY OF THEIR FINAL INSPECTION RECORDS AS WELL AS ANY OR ALL MELT AND/OR LOT NUMBERS THAT COINCIDE WITH THE PARTS AND THE INSPECTION RECORDS SHIPPED. IF AN INDIVIDUAL LOT OR MELT IS RUN FOR EACH SHIPMENT AND LOT/MELT NUMBERS ARE NOT ASSIGNED, THIS SHALL BE SO NOTED ON THE INSPECTION RECORDS.</p>

497	2020/02/18	QE Approval	QUAL. ENG. APPROVAL REQUIRED PRIOR TO P.O. PLACEMENT PURCHASE ORDERS FOR THIS PART NUMBER MUST BE REVIEWED AND SIGNED BY QUALITY ENGINEERING. SIGNATURE _____ DATE: _____
498	2019/07/12	Conversion Part	THIS PART NUMBER HAS BEEN TRANSFERRED TO COMPLETE COPICS TO PMS CONVERSION. DO NOT PURCHASE UNTIL THIS CODE IS REMOVED AND APPROPRIATE QUALITY PROVISIONS HAVE BEEN ADDED BY SQE.
500	2019/07/12	Functional Test Requirement	THE SUPPLIER SHALL PROVIDE EVIDENCE THAT ALL ITEMS SHIPPED AGAINST THIS PURCHASE ORDER HAVE BEEN FUNCTIONALLY TESTED IN ACCORDANCE WITH REQUIREMENTS OF THE APPLICABLE SPECIFICATION. FOR THOSE PARTS WHERE FUNCTIONALLY TESTING DEGRADES THE PARTS, THE SUPPLIER SHALL PERFORM SAMPLE TESTING ON EACH MANUFACTURING LOT. SAMPLES SHALL NOT BE INCLUDED IN THE SHIPMENT AND RECORDS OF TEST RESULTS SHALL BE MADE AVAILABLE UPON REQUEST.
502	2019/07/12	Drop Shipment	IF THE 'SHIP TO' ADDRESS ON THIS PURCHASE ORDER IS OTHER THAN TO GOODRICH-VERGENNES, VT. THE SUPPLIER MUST PROVIDE EVIDENCE OF FINAL INSPECTION INDICATING LOT QUANTITIES, SAMPLE SIZES AND ACCEPTANCE QUANTITIES. THIS EVIDENCE SHALL BE SUBMITTED TO GOODRICH QA ACCOMPANIED BY GOODRICH FORM NO. 27620-2 FOR REVIEW AND ACCEPTANCE PRIOR TO ANY/EACH TIME PARTS ARE SHIPPED. IN LIEU OF SUBMISSION OF INSPECTION EVIDENCE AND FORM 27620-2, GOODRICH MAY ELECT TO HAVE THE PARTS SOURCE INSPECTED BY A GOODRICH APPROVED THIRD PARTY SOURCE REPRESENTATIVE OR A GOODRICH APPROVED DESIGNATED SUPPLIER QUALITY REPRESENTATIVE (DSQR).
504	2020/02/18	DPA Testing	DPA TESTING REQUIRED FOR THIS PART. PARTS TO BE ROUTED TO GOODRICH RECEIVING/INSPECTION TO VERIFY DPA TESTING COMPLETED AND PARTS SCRAPPED AS NECESSARY. *** INSPECTION REQUIRED***

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506	2020/02/18	Labeling Requirement	LAMPS- EACH CONTAINER MUST BE LABELED WITH THE GOODRICH AEROSPACE PART NUMBER, QUANTITY, AND MSCP READING TO XXX PLACES.
507	2020/02/18	Proof of Shipment	IF THE SHIP TO ADDRESS FOR THIS COMPONENT OR ASSEMBLY IS OTHER THAN GOODRICH - VERGENNES, VERMONT, THE SUPPLIER MUST PROVIDE PROOF OF SHIPMENT TO THE GOODRICH PURCHASING DEPARTMENT. AS A MINIMUM, DATA MUST INCLUDE, GOODRICH PURCHASE ORDER NUMBER, PART NUMBER, QUANTITY, DATE OF SHIPMENT, SERIAL NUMBER (IF APPLICABLE), AND ANY OTHER INFORMATION NECESSARY TO IDENTIFY THE SHIPMENT.
508	2020/02/18	E-5147	Supplier shall screen components per the requirements of E-5147. Supplier shall report all component failures during manufacture to the UTAS buyer.
509	2020/02/18	MIL-STD-1285 Marking	MARKING SHALL BE IN IAW MIL-STD-1285 WITH THE FOLLOWING INFORMATION AS MINIMUM: A) PIN 1 IDENTIFIER B) LAPEC PART NUMBER C) MFG GAGE CODE AND PART NUMBER D) SERIAL # PER MIL PRF 19500 E) ESD IDENTIFIER PER MIL-PRF 19500 F) DATE OF SEALING (LOT IDENTIFICATION CODE PER MIL PRF 19500)
511	2019/07/12	Limited Quality Requirements	A CERTIFICATE OF COMPLIANCE MUST BE PROVIDED WITH EACH SHIPMENT AND MUST INCLUDE THE SIGNATURE AND TITLE OF THE RESPONSIBLE INDIVIDUAL CERTIFYING THE SHIPMENT. EQUIPMENT USED FOR ACCEPTANCE TESTING MUST BE TRACEABLE TO NIST. *** INSPECTION REQUIRED***

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512	2020/02/18	ETM-64-119 LM	<p>LOCKHEED MARTIN FLOWDOWN - THE SUPPLIER'S PRODUCT ASSURANCE SYSTEM SHALL MEET APPLICABLE REQUIREMENTS OF SPECIFICATION ETM-64-119. SPECIAL PROCESS SUPPLIERS SHALL BE IDENTIFIED AS AN APPROVED SOURCE BY LOCKHEED MARTIN. LOCKHEED MARTIN, THE GOVERNMENT AND/OR GOODRICH HAS THE RIGHT TO INSPECT ANY OR ALL WORK INCLUDED IN THIS ORDER AT THE SUPPLIER'S PLANT. THE SUPPLIER SHALL PROVIDE WRITTEN NOTIFICATION OF ANY PROPOSED CHANGES IN DESIGN, FABRICATION METHODS OR PROCESSES AND OBTAIN WRITTEN APPROVAL BEFORE IMPLEMENTING SUCH CHANGES. PROPRIETARY ITEMS REQUIRE NOTIFICATION OF ANY CHANGE IN THE ARTICLE DESIGN. RECORDS SHALL BE RETAINED IN A SAFE, ACCESSIBLE PLACE INDEFINITELY AFTER SHIPMENT OF THE ARTICLES. THE FOLLOWING APPLIES TO THOSE SUPPLIERS CONTRACTED TO CLEAN AND TEST CLEANED ARTICLES IN ACCORDANCE WITH DOCUMENT STP 5008:</p> <p>AT LEAST 30 DAYS PRIOR TO CLEANING THE SUPPLIER SHALL SUBMIT FOR APPROVAL A CONTAMINATION CONTROL PLAN CONTAINING THE FOLLOWING:</p> <ul style="list-style-type: none"> A. DESCRIPTION OF PROCESS FACILITY AND EQUIPMENT. B. CLEANING METHODS AND MATERIALS TO BE USED. C. ASSEMBLY, LUBRICATION, AND TEST PROCEDURES WHEN REQUIRED. D. SEALING AND PACKAGING METHODS. E. QUALITY ASSURANCE PROVISIONS. <p>CLEANED ARTICLES SHALL BE IDENTIFIED WITH A CLEANING STATUS AND IDENTIFICATION TAG COMPLETED IN ACCORDANCE WITH ETM-62-124. THE TAG SHALL BE ATTACHED IN AN UNOBSCURED LOCATION NOT IN CONTACT WITH THE CLEANED SURFACES.</p>
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513	2020/02/18	Lockheed Martin Source Inspection	LOCKHEED MARTIN SOURCE INSPECTION IS REQUIRED PRIOR TO SHIPMENT. THE SUPPLIER WILL ALLOW LM AERO SOURCE INSPECTORS INTO THEIR FACILITY AND WILL ALLOW THEM TO INSPECT ALL UNITS WHICH ARE BEING DROP SHIPPED DIRECTLY TO LM AERO. REFER TO THE REFERENCED LOCKHEED PURCHASE ORDER FOR LOCKHEED QA REQUIREMENTS IN ADDITION TO THE REQUIREMENTS SPECIFIED ON THE GOODRICH PURCHASE ORDER.
515	2019/07/12	Liquid Penetrant Inspection Required	LIQUID PENETRANT INSPECTION PER REQUIREMENTS OF ASTM E1417 TYPE 1 IS REQUIRED. A DETAILED PENETRANT INSPECTION METHODS SHEET MUST BE APPROVED BY GOODRICH QUALITY PRIOR TO SUBMITTAL OF THE FIRST LOT.
516	2020/02/18	Special Handling of Moisture Sensitive Surface Mount Devices	<p>COMPONENT PACKAGE AND MARKING MUST BE PER J-STD-033. THE DATE CODE MUST BE INCLUDED ON THE OUTSIDE PACKAGE.</p> <p>ATTENTION RECEIVING INSPECTION - PARTS ARE TO REMAIN IN ORIGINAL CONTAINER AND MUST REMAIN SEALED. REFER TO GOODRICH PROCESS PROCEDURE PP - 717 FOR HANDLING PROCEDURES. *** INSPECTION REQUIRED***</p>

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517	2020/02/18	Supplier and Sub tier Requirements	<p>1. PROCEDURES MUST INCLUDE PROVISIONS FOR FLOWDOWN OF TERMS AND CONDITIONS RELATED TO QUALITY REQUIREMENTS INCLUDING REVIEW AND APPROVAL OF PURCHASE ORDERS AND CHANGE ORDER NOTIFICATION.</p> <p>2. PROCEDURES MUST INCLUDE PROVISIONS WHICH CLEARLY STATE THAT CUSTOMERS SHALL HAVE ACCESS TO ALL AREAS ON THE PREMISES IN WHICH WORK FOR THIS CONTRACT IS PERFORMED.</p> <p>3. WHEN REQUESTED, THE SUPPLIER SHALL PROVIDE THE FOLLOWING INFORMATION FOR PARTS PRODUCED BY A SUB-TIER SUPPLIER.</p> <p>A. PART NUMBER LATEST DRAWING REVISION LEVEL AND DATE. B. DELETED C. PO NUMBER FOR PART PROCURED FROM SUB-TIER SUPPLIER. D. QUALIFICATION TESTING, IF APPLICABLE.</p> <p>4. THE SUPPLIER SHALL MAINTAIN A SUB-TIER SUPPLIER LIST.</p>
518	2020/02/18	Break in Production Notification	THE SUPPLIER MUST NOTIFY GOODRICH OF EXTENDED BREAKS IN PRODUCTION EQUAL TO OR GREATER THAN 12 MONTHS.
519	2019/07/12	Subcontractor Approval Required	SUBCONTRACTORS USED BY THE SUPPLIER SHALL BE APPROVED BY GOODRICH QUALITY ASSURANCE PRIOR TO FABRICATION/PROCESSING MATERIAL. CONTACT BUYER FOR APPROVED SUBCONTRACTORS.
520	2020/02/18	ANSI IPC-A-610/J-STD-001 CLASS 3	ANSI IPC-A-610/J-STD-001 CLASS 3 CERTIFICATION REQUIRED.

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521	2019/07/12	Supplier Process Change Control (Fit, Form, Function)	<p>THIS REQUIREMENT APPLIES TO NON-COMMERCIAL OFF THE SHELF (COTS) ITEMS ONLY. SELLER AGREES THAT THE WORK PRODUCED INTERNALLY AND/OR THE WORK PROCURED FROM SUB-TIER SUPPLIERS UNDER THIS CONTRACT SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS UNLESS A DOCUMENTED REQUEST FOR CHANGE IS APPROVED BY THE GOODRICH PROCUREMENT REPRESENTATIVE. 1. WORK SHALL NOT BE MOVED FROM THE ORIGINAL LOCATION OF MANUFACTURE TO ANOTHER LOCATION OF MANUFACTURE WITHIN A PRODUCTION FACILITY OR TO ANY OTHER PRODUCTION FACILITY. 2. WHERE FIRST ARTICLE INSPECTION IS REQUIRED, WORK SHALL NOT BE MOVED FROM THE ORIGINAL LOCATION WHERE THE WORK WAS PRODUCED AT THE TIME OF FIRST ARTICLE INSPECTION ACCEPTANCE. 3. NO CHANGES SHALL BE MADE TO THE DESIGN, MANUFACTURING PROCESSES, MATERIALS OR ACTIVITIES THAT AFFECT FIT, FORM OR FUNCTION. 4. A FIT, FORM OR FUNCTION ANALYSIS SHALL BE PERFORMED DOCUMENTED, AND INCLUDED WITH ANY REQUEST FOR CHANGE. 5. A DOCUMENTED PROCESS SHALL BE IN PLACE TO REVIEW, IDENTIFY AND SUBMIT A REQUEST FOR CHANGES TO THE GOODRICH PROCUREMENT REPRESENTATIVE. A DOCUMENTED REQUEST FOR CHANGE SHALL BE SUBMITTED TO THE GOODRICH REPRESENTATIVE 60 DAYS PRIOR TO PLAN IMPLEMENTATION. THE CHANGE WILL NOT BE IMPLEMENTED UNLESS APPROVED BY THE GOODRICH PROCUREMENT REPRESENTATIVE.</p>
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522	2019/07/12	Supplier Process Change Control (Fit, Form, Function)	<p>REPLACES CLAUSE 521 FOR RAVEN INDUSTRIES ONLY. THIS REQUIREMENT DOES NOT APPLY TO COMMERCIAL OFF THE SHELF (COTS) PARTS, MIL SPEC ELECTRICAL, ELECTRONIC & ELECTROMECHANICAL COMPONENTS (EEE) AND ESTABLISHED RELIABILITY COMPONENTS. THIS REQUIREMENT DOES APPLY TO UNIQUE GOODRICH DESIGNS, BUILD-TO-PRINT ITEMS AND ITEMS INCLUDED ON SUPPLIER CONTROLLED DESIGNS (SCD). SELLER AGREES THAT THE WORK PRODUCED INTERNALLY AND/OR THE WORK PROCURED FROM SUB-TIER SUPPLIERS UNDER THIS CONTRACT SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS UNLESS A DOCUMENTED REQUEST FOR CHANGE IS APPROVED BY LOCKHEED MARTIN THROUGH THE GOODRICH PROCUREMENT REPRESENTATIVE. 1. WORK SHALL NOT BE MOVED FROM THE ORIGINAL LOCATION OF MANUFACTURE TO ANY OTHER PRODUCTION FACILITY. 2. WHERE FIRST ARTICLE INSPECTION IS REQUIRED, WORK SHALL NOT BE MOVED FROM THE ORIGINAL LOCATION WHERE THE WORK WAS PRODUCED AT THE TIME OF FIRST ARTICLE INSPECTION ACCEPTANCE. 3. NO CHANGES SHALL BE MADE TO THE DESIGN, MANUFACTURING PROCESSES, MATERIALS OR ACTIVITIES THAT AFFECT FIT, FORM OR FUNCTION. 4. A FIT, FORM OR FUNCTION ANALYSIS SHALL BE PERFORMED DOCUMENTED, AND INCLUDED WITH ANY REQUEST FOR CHANGE. 5. A DOCUMENTED PROCESS SHALL BE IN PLACE TO REVIEW, IDENTIFY AND SUBMIT A REQUEST FOR CHANGES TO THE GOODRICH PROCUREMENT REPRESENTATIVE. A DOCUMENTED REQUEST FOR CHANGE SHALL BE SUBMITTED TO THE GOODRICH REPRESENTATIVE 60 DAYS PRIOR TO PLAN IMPLEMENTATION. THE CHANGE WILL NOT BE IMPLEMENTED UNLESS APPROVED BY LOCKHEED MARTIN THROUGH THE GOODRICH PROCUREMENT REPRESENTATIVE.</p>
523	2020/02/18	MIL-STD-202 Method 208	MIL-STD-202 METHOD 208 CERTIFICATION REQUIRED
524	2020/02/18	Rework/Repair Certification	CERTIFICATION OF REWORK/REPAIR REQUIRED INCLUDING A WRITTEN REWORK/REPAIR INSTRUCTION.
525	2020/02/18	QPL/QML Certification	CERTIFICATION OF CURRENT QPL/QML STATUS REQUIRED.

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526	2020/02/18	Date of Manufacture	SUPPLIER TO FURNISH A DATE OF MANUFACTURE WITH PACKING SLIP AT TIME OF SHIPMENT. CONTAINER(S) TO BE MARKED IN ACCORDANCE WITH MIL-STD-129.
527	2020/02/18	Special Process Certification	CERTIFICATION OF SPECIAL PROCESSES PERFORMED IS REQUIRED WITH THE SHIPMENT. THE CERTIFICATION MUST EXHIBIT THE SPECIFICATION(S) AND REVISIONS USED TO ACCOMPLISH THE SPECIAL PROCESS. GOODRICH RECEIVING INSPECTION MUST REVIEW THESE SPECIFICATIONS FOR COMPLETENESS AND ACCURACY. THE CERTIFICATIONS MUST BE STORED AT GOODRICH. *** INSPECTION REQUIRED***
528	2020/02/18	Marking	MARKING FOR SHIPMENT AND STORAGE PER MIL-STD-129. PART MARK TO MIL-STD-130.

529	2019/07/12	Supplier Process Change Control	<p>(This note excludes Commercial Off-the-Shelf (COTS) suppliers >> Some or all of the products acquired under this agreement will be incorporated into higher level assemblies that may be subject to stringent "qualification testing" requirements for critical government applications; even minor changes to Seller's products or processes may necessitate "requalification" or produce unacceptable results in higher level assemblies. Since the impact of any such product/process change can be most efficiently assessed prior to product integration into higher level assemblies and the potential cost of remediation/retrofit activities for end products deployed worldwide could be substantial, as a commitment under this contract, Seller commits to: 1) maintain a robust sourcing/quality process for the products delivered hereunder; 2) comply with the notification requirements specified below; and 3) include provisions with its sub-tier suppliers that are adequate to implement the requirements of this provision. Robust sourcing/quality process means the Supplier flows this requirement to the Supplier's sub-tier suppliers and requires that the sub-tier Suppliers flow this requirement to their sub-tier Suppliers. Furthermore, it requires the Supplier validates through supplier audits that the sub-tier Suppliers' compliance to the requirement and has flown this requirement to sub-tier suppliers. Should a non-conformance exist the Supplier is responsible for addressing and correcting the issue with the non-compliant sub-tier supplier. Prior Approval- Form/Fit/Function Alterations: Seller will not implement, or otherwise deliver to Buyer, products incorporating any alterations to product form, fit, or function without the express prior written approval of the LMMFC Procurement Representative. Such approval shall not be unreasonably withheld but shall be dependent upon Seller's thorough documentation of such proposed changes (including any analysis necessary to confirm continued suitability). Seller's notification and Buyer's limited approval of such form, fit or function alterations shall not be interpreted to waive any other contractual requirement(s) or to otherwise relieve Seller from delivering fully compliant products. Prior Notification- Material Changes: Prior to delivering any products incorporating a "material change", Seller shall provide advance notice to Buyer in sufficient time to reasonably evaluate the proposed change and, if necessary, to place an end-of-life order for the unchanged product, but in no event shall Seller's notice be less than 30 calendar days. For purposes of this clause a "material change" is any alteration to the design, technical specifications, materials, component sourcing, or production process, facilities or location, whether instigated by Seller or its sub-tier suppliers. Risk Notification- Product Alerts LMMFC shall be promptly notified whenever Seller becomes aware or reasonably suspects that any product delivered to LMMFC is, or contains a component that is, subject to a recall notice, warning alert, GIDEP Alert, and/or any other type of notification or concern regarding product authenticity, quality, safety, process integrity, and/or specification compliance. REVISION: G.S. 11-6-2013 - Added "QA CLAUSE 529" at the beginning. When this clause printed on the P.O. the supplier could not see the clause number. DRP 6-19-14 - Updated QA clause with new wording agreed with LMMFC on 6-11, includes added definition of robust sourcing/quality process.</p>
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530	2020/02/18	Inspection Data	INSPECTION DATA IS REQUIRED TO BE KEPT ON FILE AT THE SUPPLIER'S FACILITY, FOR FUTURE VALIDATION BY THE CUSTOMER, WHEN REQUIRED.
531	2020/02/18	Lockheed Drop Ship	FOR ITEMS DROP SHIPPED DIRECTLY TO LOCKHEED, END ITEMS SHALL BE PACKAGED AT THE DROP SHIP SUPPLIER IN ACCORDANCE WITH PM-5010, 'SUPPLIER/SELLER SHIPPING INSTRUCTIONS'. THE LATEST REVISION MAY BE FOUND ON LOCKHEED'S SUPPLIER QUALITY WEBSITE, LOCATED WITH THE FOLLOWING URL. HTTP://WWW.LOCKHEEDMARTIN.COM/US/AERONAUTICS/MATERIALMA GEMENT/SCM-SHIPPING/SCM-SHIPPING_SHIPPINGINSTRUCTIONS.
532	2020/02/18	Testing Required per CTS-02	TESTING REQUIRED IN ACCORDANCE WITH CTS-02 REV.L. GOODRICH INCOMING INSPECTION SHALL REVIEW TEST DATA FOR COMPLIANCE. TEST PLANS APPROVED SUBSEQUENT TO CTS-02 REVISION CONTACT SQE FOR LATEST TEST PLAN

534	2020/02/18	Goodrich Applicable	<p>THIS PO CLAUSE IS FOR GOODRICH USE ONLY. ATTENTION GOODRICH PURCHASING AND RECEIVING INSPECTION: IF THE MATERIAL PROCURED ON THIS PO IS FOR LOCKHEED MARTIN, LOCKHEED MARTIN APPROVAL OF THIS PO IS REQUIRED PER PQAP-02. LOCKHEED MARTIN QE SIGNATURE IS REQUIRED BELOW PRIOR TO PURCHASE.</p> <p>IF THE MATERIAL PROCURED ON THIS PO IS FOR THE DELTA IV PROGRAM ONLY, GOODRICH PURCHASING MUST NOTIFY THE GOODRICH QE THAT IS REVIEWING THIS PO VIA E-MAIL THAT THE MATERIAL IS FOR DELTA IV ONLY. THE QE SHALL WRITE 'DELTA IV ONLY' WITH INITIAL AND DATE IN THE SPACE PROVIDED BELOW.</p> <hr/> <p>*** INSPECTION REQUIRED***</p>
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535	2020/02/18	DFARS 252.223-7002, 252.223-7003 and 29CFR 1910.109 apply to this order	<p>DFARS 252.223-7002, 252.223-7003 AND 29CFR 1910.109 APPLY TO THIS ORDER. DFARS CLAUSE TEXT BELOW PROVIDED FOR REFERENCE ONLY. 252.223-7002: SAFETY PRECAUTIONS FOR AMMUNITION AND EXPLOSIVES (MAY 1994) (a) Definition. "Ammunition and explosives," as used in this clause- (1) Means liquid and solid propellants and explosives, pyrotechnics, incendiaries and smokes in the following forms: (i) Bulk; (ii) Ammunition; (iii) Rockets; (iv) Missiles; (v) Warheads; (vi) Devices; and (vii) Components of (i) through (vi), except for wholly inert items. (2) This definition does not include the following, unless the Contractor is using or incorporating these materials for initiation, propulsion, or detonation as an integral or component part of an explosive, an ammunition or explosive end item, or of a weapon system- (i) Inert components containing no explosives, propellants, or pyrotechnics; (ii) Flammable liquids; (iii) Acids; (iv) Oxidizers; (v) Powdered metals; or (vi) Other materials having fire or explosive characteristics. (b) Safety requirements. (1) The Contractor shall comply with the requirements of the DoD Contractors' Safety Manual for Ammunition and Explosives, DoD 4145.26-M, hereafter referred to as "the manual," in effect on the date of the solicitation for this contract. The Contractor shall also comply with any other additional requirements included in the schedule of this contract. (2) The Contractor shall allow the Government access to the Contractor's facilities, personnel, and safety program documentation. The Contractor shall allow authorized Government representatives to evaluate safety programs, implementation, and facilities. (c) Noncompliance with the manual. (1) If the Contracting Officer notifies the Contractor of any noncompliance with the manual or schedule provisions, the Contractor shall take immediate steps to correct the noncompliance. The Contractor is not entitled to reimbursement of costs incurred to correct noncompliances unless such reimbursement is specified elsewhere in the contract. (2) The Contractor has 30 days from the date of notification by the Contracting Officer to correct the noncompliance and inform the Contracting Officer of the actions taken. The Contracting Officer may direct a different time period for the correction of noncompliances. (3) If the Contractor refuses or fails to correct noncompliances within the time period specified by the Contracting Officer, the Government has the right to direct the Contractor to cease performance on all or part of this contract. The Contractor shall not resume performance until the Contracting Officer is satisfied that the corrective action was effective and the Contracting Officer so informs the Contractor. (4) The Contracting Officer may remove Government personnel at any time the Contractor is in noncompliance with any safety requirement of this clause. (5) If the direction to cease work or the removal of Government personnel results in increased costs to the Contractor, the Contractor shall not be entitled to an adjustment in the contract price or a change in the delivery or performance schedule unless the Contracting Officer later determines that the Contractor had in fact complied with the manual or schedule provisions. If the Contractor is entitled to an equitable adjustment, it shall be made in accordance with the Changes clause of this contract. (d) Mishaps. If a mishap involving ammunition or explosives occurs, the Contractor shall- (1) Notify the Contracting Officer immediately; (2) Conduct an investigation in accordance with other provisions of this contract or as required by the Contracting Officer; and (3) Submit a written report to the Contracting Officer. (e) Contractor</p>
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responsibility for safety. (1) Nothing in this clause, nor any Government action or failure to act in surveillance of this contract, shall relieve the Contractor of its responsibility for the safety of- (i) The Contractor's personnel and property; (ii) The Government's personnel and property; or (iii) The general public. (2) Nothing in this clause shall relieve the Contractor of its responsibility for complying with applicable Federal, State, and local laws, ordinances, codes, and regulations (including those requiring the obtaining of licenses and permits) in connection with the performance of this contract. (f) Contractor responsibility for contract performance. (1) Neither the number or frequency of inspections performed by the Government, nor the degree of surveillance exercised by the Government, relieve the Contractor of its responsibility for contract performance. (2) If the Government acts or fails to act in surveillance or enforcement of the safety requirements of this contract, this does not impose or add to any liability of the Government. (g) Subcontractors. (1) The Contractor shall insert this clause, including this paragraph (g), in every subcontract that involves ammunition or explosives. (i) The clause shall include a provision allowing authorized Government safety representatives to evaluate subcontractor safety programs, implementation, and facilities as the Government determines necessary. (ii) NOTE: The Government Contracting Officer or authorized representative shall notify the prime Contractor of all findings concerning subcontractor safety and compliance with the manual. The Contracting Officer or authorized representative may furnish copies to the subcontractor. The Contractor in turn shall communicate directly with the subcontractor, substituting its name for references to "the Government". The Contractor and higher tier subcontractors shall also include provisions to allow direction to cease performance of the subcontract if a serious uncorrected or recurring safety deficiency potentially causes an imminent hazard to DoD personnel, property, or contract performance., (2) The Contractor agrees to ensure that the subcontractor complies with all contract safety requirements. The Contractor will determine the best method for verifying the adequacy of the subcontractor's compliance. (3) The Contractor shall ensure that the subcontractor understands and agrees to the Government's right to access to the subcontractor's facilities, personnel, and safety program documentation to perform safety surveys. The Government performs these safety surveys of subcontractor facilities solely to prevent the occurrence of any mishap which would endanger the safety of DoD personnel or otherwise adversely impact upon the Government's contractual interests. (4) The Contractor shall notify the Contracting Officer or authorized representative before issuing any subcontract when it involves ammunition or explosives. If the proposed subcontract represents a change in the place of performance, the Contractor shall request approval for such change in accordance with the clause of this contract entitled "Change in Place of Performance-- Ammunition and Explosives". 252.223-7003: CHANGE IN PLACE OF PERFORMANCE--AMMUNITION AND EXPLOSIVES (DEC 1991) (a) The Offeror shall identify, in the "Place of Performance" provision of this solicitation, the place of performance of all ammunition and explosives work covered by the Safety Precautions for Ammunition and Explosives clause of this solicitation. Failure to furnish this information with the offer may result in rejection of the offer. (b) The Offeror agrees not to change the place of performance of any portion of the offer covered by the

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			<p>Safety Precautions for Ammunition and Explosives clause contained in this solicitation after the date set for receipt of offers without the written approval of the Contracting Officer. The Contracting Officer shall grant approval only if there is enough time for the Government to perform the necessary safety reviews on the new proposed place of performance. (c) If a contract results from this offer, the Contractor agrees not to change any place of performance previously cited without the advance written approval of the Contracting Officer.</p>
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536	2020/02/18	Receiving and Inspection Monitoring	<p>SELLER SHALL ESTABLISH, MAINTAIN AND IMPLEMENT A RECEIVING AND INSPECTION MONITORING PROGRAM TO VERIFY THAT THE TIN CONTENT OF THE FOLLOWING EEE COMPONENTS MEETS THE REQUIREMENTS OF PARAGRAPH 20.4 OF 3-56120/3R-051:</p> <ul style="list-style-type: none"> (A) HYBRID DEVICES (B) INTEGRATED CIRCUITS, SEMICONDUCTORS, AND OTHER SOLID STATE DEVICES (C) CONNECTORS AND CONNECTOR ASSEMBLIES (D) CAPACITORS, RESISTORS AND OTHER PASSIVE AND ELECTRO-MECHANICAL DEVICES (E) MOUNTING HARDWARE THAT IS INCLUDED WITH EEE COMPONENTS <p>THE SELLER'S PLAN SHALL INCLUDE CONTINUOUS PIECE-PART MONITORING OF THESE EEE COMPONENTS IN THE SELLER'S DELIVERABLE HARDWARE INCLUDING COMPONENTS WITHIN SUB-TIER SUPPLIED ASSEMBLIES. MIL/DSCC EEE COMPONENTS THAT MEET THE REQUIREMENTS OF PARAGRAPH 20.4 OF 3-56120/3R 051 AND SPECIFICALLY PROHIBIT PURE TIN ARE EXEMPT FROM THE RECEIVING AND INSPECTION MONITORING REQUIREMENT.</p> <p>ACCEPTABLE INSPECTION METHODS. THE SELLER'S PROGRAM PLAN SHALL TEST MONITORED EEE COMPONENTS USING X-RAY FLUORESCENCE (XRF), SCANNING ELECTRON MICROSCOPY / ENERGY DISPERSIVE USING X-RAY (SEM/EDX), CHEMICAL PHYSICAL ANALYSIS.</p> <p>SAMPLING RATE. THE SAMPLING RATE FOR CONTINUOUS MONITORING SHALL, AT A MINIMUM, BE 1 PART PER LOT DATE CODE (1 PART PER PRODUCTION RUN IF MULTIPLE PRODUCTION RUNS ARE INCLUDED IN A LOT DATE CODE) OF EACH MONITORED EEE COMPONENT FOR USE IN DELIVERABLE HARDWARE. PURE TIN NOTIFICATION. THE SELLER SHALL NOTIFY THE BUYER IN WRITING WITHIN 3 WORKING DAYS IF ANY MONITORED EEE COMPONENT IS DISCOVERED TO BE NON-COMPLIANT WITH 20.4 OF 3-56120/3R-051 AND HAS NOT BEEN PREVIOUSLY APPROVED BY THE BUYER.</p> <p>PER PAR 3.14.1-3.14.3 OF 310-PAC3-11006 See E-6332 for list of approved vendors.</p>
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537	2023/06/19	EEE Counterfeit Part Avoidance	<p>IN ACCORDANCE WITH THE PROBLEM PARTS LIST IN 3-56120/3R-051, EEE PARTS NOT PROCURED FROM THE ORIGINAL MANUFACTURER OR A MANUFACTURER AUTHORIZED DISTRIBUTOR SHALL NOT BE USED IN PERFORMANCE OF THIS CONTRACT WITHOUT LOCKHEED MARTIN APPROVAL. THE SELLER SHALL SUBMIT A PROCUREMENT REQUEST AND TEST PLAN FOR EACH PROCUREMENT OF BROKER PARTS FROM A SOURCE NOT AUTHORIZED BY THE ORIGINAL MANUFACTURER. IF THE TEST PLAN IS APPROVED, ALL TEST RESULTS SHALL BE REVIEWED AND APPROVED BY LOCKHEED MARTIN PRIOR TO USING THE PARTS FOR PAC-3 PRODUCTION. THIS CLAUSE SUPERCEDES THE REQUIREMENTS OF SAIS-ASQR-PRO-0003, APPENDIX K. PER PAR 3.15 OF 310-PAC3-11006</p>
538	2019/07/12	Limitations to DSQR Program	<p>LOCKHEED MARTIN SOURCE INSPECTION MAY BE REQUIRED IF ANY OF THE FOLLOWING APPLY: A FIRST ARTICLE TO THE HIGHEST LEVEL DRAWING IS REQUIRED, ACCEPTANCE OF THIS PRODUCT IS BEING WITHHELD IN ACCORDANCE WITH A LOCKHEED MARTIN ISSUED PRODUCT VERIFICATION REVIEW (PVR) OR IF THE PARTS HAVE BEEN DISPOSITIONED ON A LOCKHEED MARTIN SUPPLIER QUALITY ASSURANCE REPORT (SQAR). CONTACT YOUR UTAS BUYER FOR DIRECTION IF ANY OF THESE CONDITIONS APPLY.</p>
539	2019/07/12	Supplier Process Change Control (Performance)	<p>This requirement applies to commercial Off the Shelf (COTS) items only. Seller agrees that the work produced under this Contract shall comply with the following requirements unless a documented request for change is approved by the UTAS Procurement Representative. No changes shall be made that affect end item performance. For changes that affect the performance specifications, a documented request for change shall be submitted to the UTAS Procurement Representative 30 days prior to planned implementation. The change will not be implemented unless approved by the UTAS Procurement Representative. For work procured from sub-tier suppliers under this contract, the Seller shall flow the requirements contained herein in Sellers Contract documentation.</p>

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540	2019/07/12	Counterfeit Material Prevention	The Supplier shall ensure that the material product being purchased conforms to the purchase order requirements. All parts/materials identified on the purchase order are required to be genuine/authentic, as manufactured by the Original Equipment Manufacturer (OEM) or Original Component Manufacturer (OCM) and processed in accordance with the OEM/OCM full production test flow for that P/N. All distributors (Sources of Supply) shall be Authorized/Franchised distributors of the OEM/OCM and be under contractual agreement with the manufacturer to sell/distribute the OEM/OCM product lines. Supplier must have a system of control to prevent any potential purchase/supply of Counterfeit material product from being introduced into the supply chain. Unapproved material product, such as, Used, Refurbished or Reclaimed shall not be supplier against this Purchase Order. All material product that is to be up screened/up rated or altered (Such as refinished termination plating - hot solder dipping) must be per customer supplied Drawings/Specifications, which shall be identified as such on the Purchase Order, and are not considered as Used, Refurbished or Reclaimed.
541	2020/02/18	Boeing Drop Shipment	The following statement on the packing sheet/Despatch Note. "This is a Boeing Drop Shipment". Delegated Boeing inspection authority has been granted by Boeing to UTC Aerospace Systems whose Boeing approved quality organization includes delegated inspection authority to Ultra Electronics. Acceptance/inspection has been accomplished by Ultra Electronics on behalf of Boeing. The supplies comprising this shipment have been subject to and have passed all examinations and tests required by the contract, were shipped in accordance with authorized shipping instructions, and conform to all applicable drawings and/or specifications.
549	2019/07/12	Product/Process Verification	FIRST TIME SUPPLIERS FOR THIS PRODUCT MUST BE COMPLIANT TO THE REQUIREMENTS OF LOCKHEED MARTIN PPV PLAN. REFERENCE CONTRACT NUMBER. DAAH01-95-C-0021.
550	2020/02/18	Heated Transport Required	HEATED TRANSPORT REQUIRED

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551	2019/07/12	KIT Requirements	FIRST ARTICLE INSPECTION PER AS9102 IS REQUIRED ON ALL PARTS SUPPLIED IN THIS KIT. REVISION CONTROL AND TRACEABILITY SHALL BE MAINTAINED ON ALL PARTS WITHIN THIS KIT.
554	2020/02/18	Wire Check	SUPPLIER IS REQUIRED TO CHECK WIRE BARREL CRIMP HEIGHT AND PERFORM A PULL TEST AT THE BEGINING AND END OF EACH SHIFT AND/OR IF THE MACHINE HAS SAT IDLE FOR THREE HOURS OR MORE. WIRE BARREL CRIMP HEIGHT SHOULD BE BETWEEN .032-.036 IN. THE PULL TEST SHOULD BE PERFORMED TO QCI 41. RESULTS OF BOTH INSPECTIONS MUST BE DOCUMENTED ON CONTROL CHARTS. A CPK OF 1.33 OR HIGHER SHOULD BE MAINTAINED WITH ASSIGNABLE CAUSE AND CORRECTIVE ACTION TAKEN AT ANY OUT OF CONTROL POINTS ON THE CHARTS. RECORDS OF INSPECTION RESULTS AND CONTROL CHARTS MUST BE MAINTAINED FOR YEARS AT THE SUPPLIER.
556	2019/07/12	Special Process Approval	NONDESTRUCTIVE TESTING 6/13/08 THE SUPPLIER MUST OBTAIN GOVERNMENT AGENCY APPROVAL OF THE SUPPLIER'S OR SUPPLIER'S SUBTIER'S PROCESS CONTROLLING NONDESTRUCTIVE TESTING. EVIDENCE OF THIS APPROVAL MUST BE AVAILABLE FOR REVIEW UPON REQUEST. IN LIEU OF GOVERNMENT APPROVAL, USE OF A NADCAP APPROVED SOURCE IS ACCEPTABLE.
557	2019/07/12	Environmental	THE SELLER SHALL COMPLY WITH ALL APPLICABLE NATIONAL, REGIONAL, AND LOCAL ENVIRONMENTAL REGULATIONS. SELLER SHALL COMPLY WITH ANY AND ADDITIONAL ENVIRONMENTAL REGULATIONS AS REQUIRED BY THE BUYER. WHEN NECESSARY, BUYER WILL PROVIDE ADDITIONAL DOCUMENTATION. SELLER SHALL NOT USE ANY MATERIALS LEGALLY BANNED BY ANY NATIONAL, REGIONAL, OR LOCAL REGULATIONS. BANNED SUBSTANCES INCLUDE, BUT ARE NOT LIMITED TO THOSE LISTED AT THE FOLLOWING WEBSITES: HTTP://WWW.EPA.GOV/CEPPO/PUBS/TITLE3.PDF HTTP://WWW.EPA.GOV/OPPTINTR/3350/33FINB1.HTM HTTP://WWW.EPA.GOV/OZONE/ODS.HTML

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560	2019/07/12	DCMA Required Inspection	GOODRICH RECEIVING INSPECTION MUST CONTACT DCMA PRIOR TO STOCKING THESE PARTS. *** INSPECTION REQUIRED***
562	2020/02/18	Component Traceability	ALL ELECTRONIC/ELECTRICAL/ELECTROMECHANICAL COMPONENTS SHALL BE TRACEABLE TO THE NEXT SERIALIZED HIGHER ASSEMBLY PRODUCED WITHIN A 2-MONTH WINDOW. REFERENCE LOCKHEED MARTIN MISSILES AND FIRE CONTROL SPECIFICATION 310-PAC3-9006 PARA. 3.9.1
563	2019/07/12	Military Specifications	MILITARY SPECIFICATIONS AND STANDARDS REFERENCED SHALL BE TO THE LATEST REVISION LEVEL IN EFFECT ON THE DATE OF THIS ORDER, UNLESS SPECIFIED OTHERWISE.
564	2019/07/12	Foreign Object Damage	THE SUPPLIER SHALL DEVELOP AND MAINTAIN A FOREIGN OBJECT DEBRIS/DAMAGE ('FOD') PREVENTION PROGRAM FOR MANUFACTURING AREAS TO PREVENT INTRODUCTION OF FOREIGN OBJECTS INTO ANY ITEM DELIVERED UNDER THIS PURCHASE ORDER. THE SUPPLIER SHALL EMPLOY APPROPRIATE HOUSEKEEPING PRACTICES TO ASSURE TIMELY REMOVAL OF RESIDUE/DEBRIS GENERATED, IF ANY, DURING MANUFACTURING OPERATIONS AND/OR NORMAL DAILY TASKS. THE SUPPLIER SHALL DETERMINE IF SENSITIVE AREAS THAT MAY HAVE A HIGH PROBABILITY FOR INTRODUCTION OF FOREIGN OBJECTS SHOULD HAVE SPECIAL EMPHASIS CONTROLS IN PLACE APPROPRIATE FOR THE MANUFACTURING ENVIRONMENT. THE SUPPLIER SHALL DETERMINE THE NEED FOR, AND IMPLEMENT, FOD PREVENTION AWARENESS TRAINING PROGRAMS.
565	2019/07/12	FAR/DFARS under DAAH01-03-C-0191	THE FOLLOWING FEDERAL ACQUISITION REGULATIONS AND DEPARTMENT OF DEFENSE FAR SUPPLEMENTS ARE INCORPORATED INTO THIS PURCHASE ORDER AS REQUIRED TO BE FLOWED DOWN BY PRIME CONTRACT NUMBER DAAH01-03-C-0191. FAR 52.225-13, 52.232-16, 52.232.17, 252.225-7014 (PREFERENCE FOR DOMESTIC SPECIALTY METALS), 252.225-7025 (RESTRICTION TO ACQUISITION OF FORGINGS), AND 252.225-7012 (PREFERENCE OF CERTAIN DOMESTIC COMMODITIES), FAR CLAUSE 252.204-7000 (DISCLOSURE OF INFORMATION)

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568	2020/02/18	Process Requirements	<p>PROCESS IN ACCORDANCE WITH: HEAT TREAT HT-7.1 REVISION V HEAT TREAT 511 REVISION R X-RAY 15725-1 REVISION C NDT TECHNIQUE 15725 REVISION G FPI 6.0.9 REVISION - FPI 6.0.4 REVISION C FPI 6.0.2 REVISION C FPI 6.0.1 REVISION J FPI 6.0 REVISION B</p> <p>CHANGES REQUIRE CUSTOMER APPROVAL PRIOR TO THE START OF WORK. PROCESS VALIDATION OF THE ABOVE SPECIFICATIONS SHALL BE PERFORMED BY GOODRICH AND/OR LOCKHEED MARTIN. NADCAP CERTIFICATION IS NOT REQUIRED.</p>
572	2019/07/12	Threads	<p>THE SUPPLIER MUST PROVIDE CERTIFICATION THAT ALL PARTS HAVE BEEN INSPECTED UTILIZING THREAD INDICATING GAGES AND THAT DATA IS ON FILE FOR GOODRICH REVIEW. ACCEPTANCE BY MEANS OF FUNCTIONAL RING/PLUG GAGES IS UNACCEPTABLE.</p>
573	2019/07/12	Lean/Six Sigma	<p>IN THE NORMAL COURSE OF OPERATIONS, EACH SUBCONTRACTOR SHALL MAINTAIN A LEAN/SIX SIGMA INITIATIVE ON THE PRODUCT FOR IMPROVING CYCLE TIME, QUALITY, AND COST ON THE PAC-3 PROGRAM. AS PART OF THE REGULARLY SCHEDULED PROGRAM REVIEWS, THE SUBCONTRACTOR SHALL BRIEF THE CONTRACTOR ON THE STATUS OF LEAN/SIX SIGMA ACTIVITIES ON THE PAC-3 PROGRAM, SUCH BRIEFING SHALL SPECIFICALLY INCLUDE, BUT SHALL NOT BE LIMITED TO EVENT OUT BRIEFINGS, STEP-DOWN CHARTS, COST-BENEFITS ANALYSES AND IMPLEMENTATION SCHEDULES.</p>

574	2020/02/18	Accident Prevention Program	SELLER SHALL ESTABLISH AND MAINTAIN A COMPREHENSIVE ACCIDENT PREVENTION PROGRAM FOR THEIR ACTIVITIES RELATING TO THEIR CONTRACTUAL OBLIGATION. ANY ACCIDENT OR INCIDENT OCCURRING DURING THE PURSUIT OF THIS CONTRACT SHALL BE REPORTED IN IAW DI-SAFT-81563. THE SELLER SHALL NOTIFY THE BUYER WITHIN 24 HOURS OF AN OCCURRENCE OF AN ACCIDENT/INCIDENT (VIA E-MAIL IS ACCEPTABLE) ADDRESSING AS MUCH OF THE DID INFORMATION AS IS AVAILABLE AT THAT TIME.
576	2019/07/12	Frozen Process	THE SUPPLIER MUST OBTAIN GOODRICH APPROVAL FOR ANY CHANGES TO MANUFACTURING, SUBTIER SUPPLIERS AND INSPECTION PLANS ON THIS PRODUCT.
577	2020/02/18	Testing Required Prior to Acceptance	RECEIVING INSPECTION MUST ROUTE THE PARTS TO THE MANUFACTURING TEAM VIA TEST CARD PROCEDURE FOR FURTHER TESTING PRIOR TO ACCEPTANCE. *** INSPECTION REQUIRED***
578	2019/07/12	Goodrich Receiving Inspection	THIS PART HAS BEEN FLAGGED FOR SYSTEMIC FAILURES AND MUST BE ROUTED TO THE GOVERNMENT COMPUTERS TEAM FOR TESTING BEFORE ACCEPTANCE. PARTS RECEIVED ON THIS PO MUST BE ROUTED VIA TEST CARD PROCEDURE FOR TESTING PRIOR TO ACCEPTANCE. JD 3/29/10 *** INSPECTION REQUIRED***
579	2020/02/18	Additional Process Required Prior to Acceptance	RECEIVING INSPECTION MUST ROUTE THE PARTS TO THE MANUFACTURING TEAM PROCESS ENGINEER FOR ADDITIONAL INTERNAL PROCESS(S) PRIOR TO ACCEPTANCE. *** INSPECTION REQUIRED***

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581	2021/09/07	Solderability Requirement	<p>Articles to be delivered under this Purchase Order shall meet the solderability requirement of J-STD-001. Solderability testing must be performed by the Seller (or by a capable test facility of the Seller's choice). Testing shall be performed using the latest revision of J standards available at the execution of this Purchase Order.</p> <p>Devices utilized for Solderability testing shall be segregated from the lot and not be delivered to Buyer.</p> <p>Seller shall include test report for solderability testing with each shipment which states that testing has been successfully performed. This test report shall include:</p> <ol style="list-style-type: none"> 1) The Purchase Order and Line Item number 2) Part Number(s) 3) Date Code(s) and/or Lot Number(s) 4) Specify Pre-condition Type and Exposure Parameter 5) Name of the test facility if different from the Manufacturer 6) Testing date 7) Signature and title of an authorized supplier's representative <p>If solderability test report is in the form of electronic certifications, then signature is not required.</p> <p>Printed Wiring Boards (PWBs): Solderability test shall comply with J-STD-003 class 3 category 3, unless otherwise specified in governing purchasing document Solder float test is the preferred method. Test samples shall comply with the fabrication specification of Printed Wiring Boards. A acceptable solderability test result shall be within six (6) months of the date of delivery from either the Original Equipment Manufacturer (OEM), the Seller, or by a capable test facility of the Seller's choice.</p> <p>Components, Lugs, Terminals, and Wires: Test in accordance with J-STD-002 unless otherwise specified in governing purchasing document (examples Source Control Drawing, Altered Item Drawing, or Mil-specification). An acceptable solderability test result shall be within two (2) years of the date of delivery from either the Original Equipment Manufacturer (OEM), the Seller, or by a capable test facility of the Seller's choice.</p> <p>Wires and Shields shall be tested per J-STD-002, preceded by one (1) hour of steam exposure. When testing shields, the component wires of the cable may be left in place. Components, Lugs and Terminals shall be tested per J-STD-002, preceded by pre-conditioning Category 2 (after eight (8) hours of steam exposure for tin and tin alloy finishes or one (1) hour for non-tin or non-tin alloy finishes). A minimum of three pieces from each deliverable Lot or Date Code shall be tested.</p>
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582	2020/02/18	PWB Labeling	<p>PWBs designated as a solderability controlled item shall be labeled with build history including the suffix note and a moisture sensitivity identification label. The following build history and notes shall be included on label: 1. Purchase Order number 2. Part number and revision 3. Lot number and date code 4. Serial number 5. Final finish date 6. Date of solderability test and/or retest date 7. # Do not open until use # Note: Retain packaging intact during storage. (Nitrogen purged or Vacuum sealed) bag. The suffix note on the label shall include in bold text the statement as shown above except include only the wording of the actual bagging method utilized in packaging. The moisture sensitivity identification label shall be affixed IAW the instructions shown at http://www.lockheedmartin.com/us/suppliers/bu-info/elec-systems/mfc-extforms.html. Label shall conform to JEDEC JEP-113 "Symbol and Labels for Moisture Sensitive Devices".</p>
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583	2020/02/18	Traceability from Manufacturer Required	<p>PARTS SHALL BE PURCHASED FROM THE ORIGINAL MANUFACTURER OR AN AUTHORIZED DISTRIBUTOR. IF THE PART IS PURCHASED FROM ANOTHER SOURCE, A COPY OF THE ORIGINAL MANUFACTURER'S CERTIFICATION MUST BE OBTAINED WITH THE PARTS. IF THE ORIGINAL MANUFACTURER'S CERTIFICATION IS NOT AVAILABLE, CONTACT THE GSIS ENGINEERING DEPARTMENT FOR PART VERIFICATION METHODS PRIOR TO PURCHASING THE PARTS. A COPY OF THE MANUFACTURER'S CERTIFICATION OR A CERTIFICATION BY GSIS ENGINEERING OR A CERTIFICATION BY AN APPROVED LABORATORY SHALL BE PROVIDED WITH SHIPMENT AND ALSO MAINTAINED BY THE FIRST TIER SUPPLIER AND BE AVAILABLE FOR REVIEW BY GSIS OR GSIS CUSTOMERS FOR A MINIMUM OF 7 YEARS. THE CERTIFICATION SHALL BE TRACEABLE TO THE MATERIAL BY LOT NUMBER OR BATCH NUMBER, OR DATE CODE, OR ANOTHER UNIQUE NUMBER APPROVED BY GSIS.</p> <p>GOODRICH INSPECTION WILL RETAIN THIS CERTIFICATION ELECTRONICALLY. *** INSPECTION REQUIRED***</p>
584	2020/02/18	Raytheon document 61494 Tier III PWB Requirements	Raytheon document 61494 Tier III PWB Requirements applies to this part or components within this assembly.

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586	2019/07/12	Prohibition of Pure Tin Finishes	ELECTRONIC, ELECTRICAL, ELECTROMECHANICAL, AND MECHANICAL PIECE PARTS AND ASSEMBLIES, INCLUDING THE INTERNAL FABRICATION OF HARDWARE, DELIVERED TO GOODRICH UNDER THE PROVISIONS OF THIS PURCHASE ORDER SHALL NOT HAVE PURE TIN FINISHES. ADDITIONALLY, ANY TIN-LEAD (SNPB) PLATING OR SOLDER PROCESS/PROCESSING SHALL RESULT IN A FINISH OF NO LESS THAN 3% LEAD COMPOSITION. NOTE: THIS APPLIES TO COMPONENT LEADS AND TERMINATIONS, CARRIERS, BODIES, CAGES, BRACKETS, HOUSINGS, MECHANICAL ITEMS, HARDWARE (NUTS, SCREWS, BOLTS) ETC. THIS DOES NOT APPLY TO MIL-SPEC PARTS.
587	2020/02/18	Solderability Test	DEVICES DELIVERED ON THIS PURCHASE ORDER WITH DATE CODES OLDER THAT TWO YEARS MUST INCLUDE A SOLDERABILITY TEST AS PART OF THE DPA EVALUATION. PROOF OF TEST WILL BE DOCUMENTED AND SHALL APPEAR ON THE CERTIFICATE OF CONFORMANCE SUPPLIED BY THE TESTING FACILITY. THE SOLDERABILITY TESTING WILL BE CONDUCTED IN ACCORDANCE WITH MIL-STD-883, METHOD 2003, MIL-STD-202, METHOD 208, MIL-STD-750, METHOD 2026, OR MIL-STD-883, METHOD 2022, WHICHEVER IS APPLICABLE.
589	2020/02/18	Immersion Test Verification	GOODRICH RECEIVING INSPECTION SHALL VERIFY IMMERSION TEST COMPLIANCE (INCLUDING FREQUESNCY OF THE TEST) IN ACCORDANCE WITH SCD 050090- PARAGRAPH 4.1.1. *** INSPECTION REQUIRED***
590	2019/07/12	Approved DSQR	THE SUPPLIER/DISTRIBUTOR FURNISHING THIS MATERIAL TO GOODRICH SIS MUST LABEL THE MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS IDENTIFIED IN THE SUPPLIER QUALITY ASSURANCE PLAN PQAP-03. THE LABEL MUST EXHIBIT THE GOODRICH DSQR STAMP ASSIGNED TO THE PERSON COMPLETING THE LABEL.

591	2019/07/12	Prohibition of Pure Tin Finishes	ELECTRONIC, ELECTRICAL, ELECTROMECHANICAL, AND MECHANICAL PIECE PARTS AND ASSEMBLIES, INCLUDING THE INTERNAL FABRICATION OF HARDWARE, DELIVERED TO GOODRICH UNDER THE PROVISIONS OF THIS PURCHASE ORDER SHALL NOT HAVE PURE TIN FINISHES. ADDITIONALLY, ANY TIN-LEAD (SNPB) PLATING OR SOLDER PROCESS/PROCESSING SHALL RESULT IN A FINISH OF NO LESS THAN 3% LEAD COMPOSITION. NOTE: THIS APPLIES TO COMPONENT LEADS AND TERMINATIONS, CARRIERS, BODIES, CAGES, BRACKETS, HOUSINGS, MECHANICAL ITEMS, HARDWARE (NUTS, SCREWS, BOLTS) ETC. THIS DOES NOT APPLY TO MIL-SPEC PARTS OR GOODRICH DRAWINGS THAT SPECIFICALLY ALLOW THE USE OF TIN WITH LESS THAN 3% LEAD.
592	2019/07/12	FAI Plan Approval	PART NUMBERS CH3226A0001 AND 86633207 WILL REQUIRE A FULL FIRST ARTICLE INSPECTION PLAN ACCORDANCE WITH AS9102. THE PLAN SHALL CONSIST OF THE AS9102 FORM WITH ALL CHARACTERISTICS LISTED THAT WILL BE CHECKED DURING THE FAI. THIS PLAN MUST BE RECEIVED AT GOODRICH FUS PRIOR TO MANUFACTURING PRODUCT AND WILL REQUIRE BOTH GOODRICH FUS AND RAYTHEON'S APPROVAL. THE FAIP SHALL BE APPROVED PRIOR TO COMMENCEMENT OF FAI. ANY ISSUES WITH COMPLYING WITH THIS REQUEST MUST BE ADDRESSED IMMEDIATELY WITH THE GOODRICH FUS BUYER.

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593	2019/07/12	Pure Tin Restriction	<p>The use of unalloyed or pure tin in the internal or external construction of electrical, electronic and electromechanical parts is prohibited. Product that does not contain any tin or tin alloys meets the requirements of this Purchase Order note. Tin-plated electrical wire compliant to applicable military or industrial standards is considered standard and is not restricted. The solders, platings and coatings of the products supplied on this purchase order shall meet the following: 1. The solders used shall contain a material composition of less than or equal to 97% tin by weight and the remainder shall be any combination of silver and/or lead. 2. The plated or coated tin alloys shall contain a minimum of 3% lead by weight. Definitions: A. Solder: a metal or metallic alloy used when melted to join two metallic surfaces B. Plating/coating: a thin layer of metal such as tin deposited on or applied to a single surface Examples: electrolytic plating, solder dipped leads, solder dipped housings The Seller shall notify the UTC Aerospace Systems Procurement Representative prior to any change by the Seller or its Sub-Tier(s) that would result in products specified in this Purchase Order becoming noncompliant by incorporating this requirement. Also, notify Proc. Rep. if this requirement conflicts with the Engineering specified for products ordered under this purchase order. Noncompliance to this requirement must be approved in writing from UTC Aerospace Systems prior to acceptance of this purchase order.</p>
594	2020/02/18	Keyway Inspection	<p>THE MANUFACTURER OF THIS PART MUST PERFORM 100% VISUAL INSPECTION TO ENSURE THE PRESENCE OF THE KEYWAY AND ANY CRACKING IS LIMITED TO THE KEY AREA ONLY. VERIFICATION OF THIS INSPECTION SHALL BE INCLUDED WITH EACH SHIPMENT. VERIFICATION CAN BE FROM THE MANUFACTURER OR QUALIFIED DISTRIBUTOR IN THE FORM OF A C OF C OR INSPECTION DOCUMENT.</p> <p>*** INSPECTION REQUIRED***</p>
595	2019/07/12	Indefinite Shelf Life	<p>THIS MATERIAL IS LISTED IN GOODRICH PROCESS PROCEDURE 49 AND QUALIFIES AS HAVING AN INDEFINITE SHELF LIFE. THE AGE SENSITIVE MATERIAL LABEL APPLIED BY EITHER THE DISTRIBUTOR OR GOODRICH MUST INDICATE 'INDEFINITE SHELF LIFE'.</p>

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596	2020/02/18	100% Inspection	100% INSPECTION (PER ANALYSIS) IS REQUIRED AT GOODRICH RECEIVING INSPECTION *** INSPECTION REQUIRED***
597	2020/02/18	Contact	CONTACT RICK COLLINS (EXT. 4177) PRIOR TO STOCKING THIS PART. *** INSPECTION REQUIRED***
599	2020/02/18	Marking	MARKING AFTER PROGRAMMING IS REQUIRED IAW DRAWING REQUIREMENT
600	2020/02/18	Thread Inspection	THE SUPPLIER MUST PERFORM 100% INSPECTION ON ALL THREADED CHARACTERISTICS SHOWN ON THE PROCUREMENT DOCUMENTATION. THIS INSPECTION MUST PERFORMED UTILIZING GAUGES, FIXTURES, MATING PARTS, ETC. THAT ARE UNDER CALIBRATION CONTROL. IN ADDITION TO FUNCTIONAL GAUGING, THE MAJOR DIAMETERS OF INTERNAL THREADS SHALL BE INSPECTED 100% USING GAUGES UNDER CALIBRATION CONTROL.
601	2021/06/20	PCN Monitoring	THE SUPPLIER SHALL MONITOR AND SUBMIT FOR REVIEW APPLICABLE EEE COMPONENT MANUFACTURER PRODUCT CHANGE NOTIFICATIONS (PCN'S) TO THE COLLINS GLOBAL ENGINEERING GROUP VIA EMAIL: OMD.TEAM@COLLINS.COM .
602	2020/02/18	Change Notification	ANY CHANGES TO THE MANUFACTURING PROCESS ON MATERIAL PROCURED ON THIS PO MUST BE SUBMITTED TO GOODRICH PRIOR TO IMPLEMENTATION TO DETERMINE IF A PROCESS VALIDATION IS REQUIRED.

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603	2020/02/18	Test Data Verification	<p>THIS PART REQUIRES GOODRICH RECEIVING INSPECTION TO VERIFY OR OBTAIN VERIFICATION THAT THE TEST DATA PROVIDED BY THE TEST FACILITY IS ACCEPTABLE.</p> <p>ANY NONCONFORMANCES FOR SAMPLE TESTING PLANS NOTED ON THE TEST DATA REQUIRE THAT THE ENTIRE ORDER BE REJECTED. FOR 100% TESTING PLANS, ACCEPT ALL DEVICES THAT SUCCESSFULLY PASSED AND REJECT ALL THE DEVICES THAT FAILED END-POINT ELECTRICAL TEST. ACCEPTABLE TEST DATA MUST EXHIBIT ACCEPTANCE BY THE GOODRICH APPROVER. ALL TEST REPORTS MUST BE RETAINED BY RECEIVING INSPECTION BY HARD COPY OR ELECTRONICALLY, AND THE ORIGINAL TEST REPORTS SHALL ACCOMPANY THE PARTS TO STOCK.</p> <p>*** INSPECTION REQUIRED***</p>
604	2020/02/18	ATP-2451 Test Reporting	<p>UNLESS OTHERWISE DIRECTED BY THE PO, THE SUPPLIER SHALL TEST EACH PART PER THE PARAMETERS OF ATP-2451 AND SHALL SUPPLY COPIES OF THE TEST DATA SHEETS FOR EACH SERIAL NUMBER SHIPPED. THIS TEST DATA SHALL BE SCANNED BY GOODRICH RECEIVING INSPECTION AND ELECTRONICALLY STORED.</p> <p>*** INSPECTION REQUIRED***</p>
607	2020/02/18	Incomplete FAI on File	<p>AN INCOMPLETE FAI IS ON FILE FOR THIS PART NUMBER. A DELTA OR PARTIAL FAI MUST BE PROVIDED ALONG WITH THE NEXT RECEIPT.</p> <p>*** INSPECTION REQUIRED***</p>
608	2019/07/12	ESD Marking on the Board not required	<p>DUE TO THE LACK OF SPACE ON THIS CIRCUIT BOARD, GOODRICH QUALITY HAS WAIVED THE ESD MARKING REQUIREMENT FOR THIS P/N. ALL OTHER PROVISIONS OF MIL-STD-1686 AND MIL-HDBK-263 APPLY.</p>
610	2020/02/18	Inspection Report Required	<p>THE SUPPLIER SHALL PROVIDE A COPY OF INSPECTION RECORD OF EACH RECEIPT.</p>

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611	2020/02/18	Insulation Requirement	DIGICON SHALL BE INSULATED BY BLACK ANTISTATIC POLYETHELENE FOAM FROM INSIDE.
612	2020/02/18	Incomplete FAI on File	AN INCOMPLETE FAI IS ON FILE FOR THIS PART NUMBER. A DELTA OR COMPLETE FAI MUST BE PROVIDED ALONG WITH THE NEXT RECEIPT. *** INSPECTION REQUIRED***
613	2020/02/18	Cleaning Parts	SUPPLIER SHALL CLEAN PARTS TO REMOVE ALL RESIDUAL PROCESS DEBRIS INCLUDING BUT NOT LIMITED TO MACHINING DEBRIS, OILS, LUBRICANTS, GREASE, POWDER, DUST AND GRIT. THIS CLEANING SHALL BE SUFFICIENT TO ALLOW FURTHER SURFACE FINISH PROCESSING SUCH AS PLATING, ANODIZING, SEALING OR CHEMICAL CONVERSION.
614	2020/02/18	TPI-2883 Test Reporting	UNLESS OTHERWISE DIRECTED BY THE PO, THE SUPPLIER SHALL TEST EACH PART PER THE PARAMETERS OF TPI-2883 AND SHALL SUPPLY SIGNED AND/OR STAMPED COPIES OF THE TEST DATA SHEETS FOR EACH SERIAL NUMBER SHIPPED. THIS TEST DATA SHALL BE SCANNED BY GOODRICH RECEIVING INSPECTION AND ELECTRONICALLY STORED. *** INSPECTION REQUIRED***
616	2020/02/18	Test Reporting	UNLESS OTHERWISE DIRECTED BY THE PO, THE SUPPLIER SHALL PRE-TEST TEST EACH UNIT PER THE PARAMETERS OF THE APPLICABLE ATP AND SHALL SUPPLY COPIES OF THE TEST DATA SHEETS FOR EACH SERIAL NUMBER SHIPPED. AUTOMATED TESTER PRINT-OUTS CONTAINING THE SERIAL NUMBER OF THE UUT ARE ACCEPTABLE. THIS TEST DATA SHALL BE SCANNED BY GOODRICH RECEIVING INSPECTION AND ELECTRONICALLY STORED. *** INSPECTION REQUIRED***

617	2019/07/12	OSP - First Article Inspection	PARTS ARE BEING ROUTED TO GOODRICH RECEIVING INSPECTION TO ENSURE THAT GOODRICH HAS A COMPLETE ELECTRONIC FAI ON FILE FOR THE OSP PERFORMED. WHEN REQUIRED BY AS9102 CRITERIA, THE SUPPLIER SHALL PERFORM A FULL FIRST ARTICLE INSPECTION. THESE CRITERIA INCLUDE BUT ARE NOT LIMITED TO: FIRST TIME RECEIPT, CHANGE IN DRAWING REVISION, 2 YEAR LAPSE IN PROCESS BEING PERFORMED ON THIS PART NUMBER, ETC. THE SUPPLIER FAI ONLY NEEDS TO DOCUMENT THE ATTRIBUTES CONTROLLED OR AFFECTED BY THE PROCESS(ES) BEING PERFORMED. MATERIAL CERTS ARE REQUIRED TO ACCOMPANY ALL RECEIPTS IF THE SUPPLIER UTILIZES THEIR OWN PROCURED MATERIALS. A C OF C IS REQUIRED WITH EACH RECEIPT REGARDLESS OF WHETHER OR NOT AN FAI IS REQUIRED. *** INSPECTION REQUIRED***
618	2023/06/19	Procedure 618	No longer applicable.
619	2019/07/12	Customer Furnished Material	NO FAI IS REQUIRED FROM THE CUSTOMER. THE CUSTOMER IS IN AGREEMENT WITH THE SUPPLIER TO PROVIDE NO FAI FOR THIS PROCURED MATERIAL. IT IS THE CUSTOMER RESPONSIBILITY TO KEEP RECORD OF THE FAI. 09/27/11 AJS Per Contract Letter dated 26-October-2012 from Brad Wagstaff, Textron Defense Systems, "Please consider this letter acknowledgement that dimensional inspection by UTAS of P/N 75845104-001 and 75845104-002 (UTAS P/N A85172) is not required. Raloid Corporation builds, inspects and certifies to Textron part number's above and Textron assumes all responsibility associated with inspection therefore the sample lot inspection requirements at 2.5AQL are formally waived on UTAS part drawing A85172".

620	2020/02/18	Deviation/Waiver Applicable	<p>THIS PART NUMBER HAS A DEVIATION/WAIVER ASSIGNED TO IT. A COPY OF THE APPROVED WAIVER MUST BE SHIPPED WITH THE APPLICABLE PO LINE.</p> <p>*** INSPECTION REQUIRED***</p>
621	2020/02/18	Special Process Monitoring	<p>SUPPLIERS AND SUB TIER SUPPLIERS SHALL MONITOR THEIR SPECIAL PROCESSES EXPIRATION DATE AND MUST NOTIFY GOODRICH AND LOCKHEED MARTIN 3 MONTHS PRIOR TO THE EXPIRATION DATE BY SUBMITTING A WRITTEN REQUEST TO BE RECERTIFIED. NO PRODUCTION SHALL BE MADE AND BE SHIPPED ONCE THE SPECIAL PROCESS CERTIFICATION HAS BEEN EXPIRED.</p>
623	2019/07/12	Lockheed Martin - Orlando	<p>SUPPLIER AND/OR SUB-TIER SUPPLIERS SHALL ENSURE ALL SPECIAL PROCESSES ARE PERFORMED BY A LOCKHEED MARTIN APPROVED PROCESSOR. LOCKHEED MARTIN APPROVED SPECIAL PROCESSORS CAN BE FOUND ON THE CURRENT APPROVALS TAP OF THE LM PROCURE TO PAY INTERNET PORTAL: CONTACT LM HELP DESK AT 863-647-0558 OR THE GOODRICH BUYER FOR INFORMATION ON OBTAINING ACCESS. CERTIFICATION OF SPECIAL PROCESSES PERFORMED IS REQUIRED WITH THE SHIPMENT. THE CERTIFICATION MUST EXHIBIT THE SPECIFICATION(S) AND REVISIONS USED TO ACCOMPLISH THE SPECIAL PROCESS. GOODRICH RECEIVING INSPECTION MUST REVIEW THESE SPECIFICATIONS ON EVERY 5TH RECEIPT TO VERIFY THE PROCESS WAS PERFORMED BY A LOCKHEED MARTIN APPROVED VENDOR. THE CERTIFICATIONS MUST BE STORED IN ACCORDANCE WITH GOODRICH DOCUMENT RETENTION POLICY. *** INSPECTION REQUIRED***</p>
624	2019/07/12	Lockheed Martin Flowdown Note 856	<p>PRESERVATION, PACKAGING AND PACKING OF ALL DELIVERABLE GOODS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF ASTM D3951, STANDARD PRACTICE FOR COMMERCIAL PACKAGING.</p>

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625	2019/07/12	FAA or EASA Required Documentation	FAA FORM 8130-3 AIRWORTHINESS APPROVAL TAG OR EASA FORM 1 AUTHORIZED RELEASE CERTIFICATE IS REQUIRED AND MUST BE INCLUDED IN EACH SHIPMENT. GOODRICH AEROSPACE RECEIVING INSPECTION DEPT. SHALL RETAIN COPIES FOR TRACEABILITY AND SEND THE ORIGINAL TO STOCK WITH THE PARTS. *** INSPECTION REQUIRED***
626	2020/02/18	E-6402 Screening	PARTS RECEIVED ON THIS PURCHASE ORDER MUST BE TESTED TO THE REQUIREMENTS OF GOODRICH DOCUMENT E-6402 - ENVIRONMENTAL STRESS SCREENING (ESS). RECORD RETENTION BY SERIAL NUMBER IS REQUIRED
628	2023/06/19	Manufacturer's C of C Required	<p>MANUFACTURER'S CERTIFICATE OF COMPLIANCE PER DRAWING AND PURCHASE ORDER IS REQUIRED. IN ADDITION TO THE REQUIREMENTS OF SAIS-ASQR-PRO-0003, THE C OF C MUST LIST ALL ADDITIONAL SUB-TIER C OF C'S AND MATERIAL CERTS WITH APPLICABLE IDENTIFICATION NUMBERS (E.G., CERT NUMBER, LOT NUMBER, HEAT NUMBER, BATCH NUMBER, ETC.) OR MAY INCLUDE SEPARATE CERTS FROM THESE SUB-TIER SUPPLIERS.</p> <p>*** INSPECTION REQUIRED***</p>

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629	2020/02/18	Supplier & Subtier Configuration Control	<p>THE PURPOSE OF THIS CLAUSE IS TO ENSURE THAT THE SUPPLIER AND ITS' SUB-TIER SUPPLIERS CONFIGURATION BASELINES ARE MAINTAINED AND CONTROLLED, ENGINEERING AND PROCESS CONFIGURATION INFORMATION IS KEPT CONSISTENT, AND CHANGE INFORMATION IS COMMUNICATED IN AN ORDERLY MANNER. THE BASELINE WILL BE ESTABLISHED AND FROZEN AFTER GOODRICH ACCEPTANCE OF THE FIRST ARTICLE.</p> <p>AFTER ESTABLISHING THE BASELINE, THE SUPPLIER AND IT SUB-TIER SUPPLIERS WILL MAINTAIN STRICT CONTROL OVER ALL CHANGES TO BOTH ENGINEERING AND PROCESS BASELINES. CHANGES WILL BE CLASSIFIED IN ACCORDANCE WITH GEIA STANDARD EIA-649-A. ANY CHANGE THAT IMPACTS COST, PRICE OR DELIVERIES IS CONSIDERED A MAJOR CHANGE. ALL MAJOR CHANGES REQUIRE GOODRICH APPROVAL. ALL MINOR CHANGES REQUIRE GOODRICH CONCURRENCE OF CLASSIFICATION.</p> <p>SUPPLIERS ARE NOT AUTHORIZED TO BUILD HARDWARE AT THEIR RISK BY INCORPORATING PROPOSED ENGINEERING AND / OR IMPLEMENTING PROCESS OR TOOLING CHANGE(S) PRIOR TO RECEIVING GOODRICH APPROVAL OR CONCURRENCE OF CLASSIFICATION.</p>
630	2020/02/18	E-3666	<p>REFER TO LIVELINK TO THIS ATACMS DOCUMENT (E-3666) FLOW DOWN REQUIREMENTS FOR PARTS SELECTION, APPLICATION AND CONTROL FOR MECHANICAL COMPONENTS AND ELECTRICAL, ELECTRONIC AND ELECTROMECHANICAL (EEE) PARTS TO BE USED ON THE ARMY TACMS CONTROL ACTUATION SYSTEM (CAS) HARDWARE.</p>
631	2020/02/18	VT-2792 Approval	<p>PRODUCTION PARTS FROM SENSORS SYSTEMS WILL NOT BE SHIPPED OR ACCEPTED UNTIL QUALIFICATION REPORT VT-2792 HAS BEEN APPROVED BY GOODRICH AND LOCKHEED MARTIN AND RELEASED</p> <p>*** INSPECTION REQUIRED***</p>

632	2020/02/18	VT-2793 Approval	<p>PRODUCTION PARTS FROM SPECTRUM SENSOR AND CONTROL SYSTEMS WILL NOT BE SHIPPED OR ACCEPTED UNTIL QUALIFICATION REPORT VT-2793 HAS BEEN APPROVED BY GOODRICH AND LOCKHEED MARTIN AND RELEASED</p> <p>*** INSPECTION REQUIRED***</p>
634	2020/02/18	MIL-STD-1168 Data	<p>EACH SHIPMENT OF PRODUCT SHALL REQUIRE THE SUBMISSION OF DATA THAT COMPLIES WITH THE REQUIREMENTS OF THE MOST CURRENT REVISION OF MIL-STD-1168. THIS SHALL BE SUBMITTED ON FORM DD1650 PER INSTRUCTIONS IN DI-MISC-80043A REFERENCED IN MIL-STD-1168 OR ON A SELLER GENERATED AMMUNITION/EXPLOSIVE LOT DATA FORM PROVIDED IT CONTAINS THE APPLICABLE DATA REFERENCED IN DI-MISC-80043A AND MIL-STD-1168.</p> <p>GOODRICH RECEIVING TO VERIFY RECEIPT OF THIS DOCUMENT WITH EACH SHIPMENT</p> <p>*** INSPECTION REQUIRED***</p>
636	2020/02/18	Delid Components	<p>DO NOT RELEASE TO THE MFG FLOOR DELID OR SCRAP COMPONENTS THAT HAVE BEEN SENT TO A SUPPLIER FOR TEST PURPOSE</p>
639	2020/02/18	Fragile Product	<p>PART IS EXTREMELY FRAGILE!!! HANDLE WITH EXTREME CAUTION!!! PACKAGE AS TO NOT BEND OR CRUSH THE PART OR ALLOW ANY OTHER DAMAGE.</p> <p>*** INSPECTION REQUIRED***</p>
642	2020/02/18	Mis-handling Notice	<p>SUPPLIERS AND THEIR SUBTIERS SHALL REPORT ANY INCIDENT OF MIS-HANDLED OR DROPPED HARDWARE TO THE BUYER. MIS-HANDLED AND DROPPED HARDWARE SHALL BE DISPOSITIONED VIA MRB REVIEW AT BUYER LEVEL.</p>

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645	2020/02/18	Standard Hardware Reusage Not Permitted	STANDARD HARDWARE SHALL NOT BE RE-USED IN ITEMS DELIVERED UNDER THIS CONTRACT. FOR EXAMPLE, THREADED FASTENERS THAT MUST BE REMOVED TO FACILITATE ADDITIONAL ASSEMBLY OR TO FACILITATE REWORK AFTER BEING TORQUED SHALL BE REPLACED WITH NEW HARDWARE.
646	2020/02/18	TLP-2557	Parts required to be thermally cycled per procedure TLP-2557 prior to in-circuit testing. All CCAs thermally processed must be marked with the letters "TC". Marking may be stamp or label per MIL-STD-130.
647	2019/07/12	Frozen Processes	The supplier must obtain UTAS SIS VERGENNES approval for any changes to manufacturing drawing, Operational processes, inspection plans, and work instructions that will impact FIT, FORM, or Function. A documented request for changes shall be submitted to the UTAS procurement representative 30 days prior to plan implementation. The change will not be implemented unless approved by the UTAS procurement representative. Also, the site Product Safety Chair or designee must review and approve any change that affects a flight safety characteristic.
648	2020/02/18	UTC Production Part Approval Process	SUPPLIER SHALL IMPLEMENT THE UTC PRODUCTION PART APPROVAL PROCESS (UPPAP) ON THIS PART PER THE REQUIREMENTS CONTAINED IN ASQR-09.2, UTC PRODUCTION PART APPROVAL PROCESS. PRODUCTION PARTS MAY NOT BE SHIPPED WITHOUT AN APPROVED OR INTERIM UPPAP DISPOSITION STATUS.
650	2020/02/18	Change Approval Required	The supplier of this product shall notify COLLINS VT of changes in product and / or process definition, changes of Manufacturing facility location, and where required, obtain COLLINS VT approval, ensure records (such as test data, inspection) are maintained for 7 years or as mutually agreed upon or dictated and have the customer right of access to the applicable areas of all facilities, at any level of the supply chain, involved in the order and to all applicable records.

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651	2020/02/18	Customer Furnished Material (RMS)	<p>This part is Customer Furnished Material and may be drop shipped directly to UTAS. First Articles, when applicable, and C of Cs are required. Citing the UTAS Purchase Order number and revision on the C of C is not required. Our customer, Raytheon Missile Systems (RMS), has the parts dropped shipped from their suppliers to UTAS. The subtier supplier will not have our P.O. This is controlled by the customer. Aerovantix special process suppliers are not required. FAI needs to meet AS9102 but not UTAS standards. Traceability is ensured through the customer P.O. which ties to the purchase requisition.</p>
652	2020/04/29	Customer Furnished Material	<p>This part is Customer Furnished Material. Clauses 400 and 408 do not apply. Parts may be accepted with a packing list only. Simmonds Purchase Order number and drawing revision on the packing list are not required. Simmonds' Customer is responsible for maintaining all documentation.</p>

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700	2020/02/18	FAA Production Certificate 700	<p>This procurement is under Boeing's Federal Aviation Administration (FAA) issued Production Certificate 700 quality system supplier control program.</p> <p>THE SELLER WILL PLACE THE FOLLOWING STATEMENT ON THE SHIPPING DOCUMENTATION OF ALL SHIPMENTS TO BOEING:</p> <p>"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."</p> <p>APPLICATION NOTE FOR SUPPLIER: 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".</p>
701	2021/09/07	Domestic Specialty Metals DFAR	<p>ALL SPECIALTY METALS USED SHALL BE MELTED IN THE UNITED STATES OR A QUALIFYING COUNTRY. THESE SPECIALTY METALS ARE DEFINED IN THE DEFENSE FEDERAL ACQUISITION REGULATION SUPPLEMENT CLAUSE 252.225-7008, RESTRICTION ON ACQUISITION OF SPECIALTY METALS, AND 252.225-7009, RESTRICTION ON ACQUISITION OF CERTAIN ARTICLES CONTAINING SPECIALTY METALS, AS DEFINED IN https://www.acq.osd.mil/dpap/dars/dfars/html/current/252225.htm. QUALIFYING COUNTRIES ARE LISTED IN 225.872-1, https://www.acq.osd.mil/dpap/dars/dfars/html/current/225_8.htm#225.872-1</p>
901	2020/02/18	Standard Catalog Hardware	<p>THIS PART IS CONSIDERED STANDARD CATALOG HARDWARE PER AS9102. THUS, PER AS9102, NO FAI IS REQUIRED</p>

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902	2020/02/18	FAI Required	THIS PART IS NOT CONSIDERED STANDARD CATALOG HARDWARE PER AS9102. AN AS9102 COMPLIANT FAI IS REQUIRED.
905	2020/02/18	No FAI Required	LMMFC FURNISHED PART(S). NO FAI IS REQUIRED.
906	2020/02/18	Record Retention Exception	<p>Due to supplier's exception to document retention requirements of ASQR-01, supplier is required to include with each shipment copies of all quality records pertinent to the build of this product for retention at UTAS. Quality records include, but are not limited to, CoCs for all subcomponents/materials, test data and inspection data. If this data is not provided, the exception granted for the data retention requirements of ASQR-01 are voided. UTAS RI to verify quality records have been received and scanned into document retention system.</p> <p>*** INSPECTION REQUIRED ***</p>
911	2020/02/18	Conformal Coating Requirement	<p>SUPPLIER AND GOODRICH RECEIVING INSPECTION MUST VERIFY THE FOLLOWING: DELTA IV REQUIREMENT- CONFORMAL COATING PART NUMBER 085006-4 AND 4A SUPPLIED UNDER THIS PURCHASE ORDER MUST BE IN COMPLIANCE TO PCD DRAWING 085006- REVISION G OR EARLIER. ONLY CONFORMAL COATING FROM MANUFACTURER DEXTER-HYSOL (MFG. PN #PC18M COATING) CAN BE ACCEPTED AT REVISION G AND EARLIER. REVISION H AND HIGHER ALLOW AN ALTERNATE COATING THAT IS NOT ACCEPTABLE. DIRECT ANY QUESTIONS TO DELTA IV QE OR PE</p> <p>*** INSPECTION REQUIRED***</p>
917	2020/02/18	Inactive	No longer applicable, please contact SQE/CQE for clause removal
918	2020/02/18	Inactive	
920	2020/02/18	Level 1 Moisture Sensitivity	THESE DEVICES ARE LEVEL 1 MOISTURE SENSITIVITY AND HAVE BEEN DETERMINED BY ENGINEERING THAT THEY ARE NOT MOISTURE SENSITIVE AND THERE IS NO LIMITATION FOR EXPOSURE. PARTS DO NOT HAVE TO BE PACKAGED IN MOISTURE PROOF PACKAGING.

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924	2020/02/18	Source Inspection Required	COLLINS VT APPROVED SOURCE INSPECTION REQUIRED. THE MATERIAL SPECIFIED ON THIS PO MUST BE INSPECTED PRIOR TO SHIPMENT BY A COLLINS VT QUALIFIED AND APPROVED SOURCE INSPECTOR.
925	2020/02/18	Approved DSQR/DQR Inspection Required	THE MATERIAL SPECIFIED ON THIS PO MUST BE INSPECTED PRIOR TO SHIPMENT BY A COLLINS VT APPROVED DESIGNATED SUPPLIER QUALITY REPRESENTATIVE
927	2020/02/18	Record Retention	SUPPLIER AND SUB-TIER SUPPLIER FOR THIS PROCURED PART SHALL MAINTAIN RECORD OF TEST DATA , COC, FAI AND DRAWING CHANGES FOR 25 YEARS.
928	2020/02/18	12 Month Lapse FAI Requirement	THIS NOTE SUPERCEDES THE REQUIREMENT OF TWO YEAR LAPSE IN PRODUCTION IN NOTE 408 AND 400. SUPPLIER AND SUB TIER SUPPLIER MUST PROVIDE A COMPLETE FAI IN CASE THERE IS AN INTERRUPTION IN PRODUCTION OF MORE THAN TWELVE MONTHS. THE FIRST ARTICLE INSPECTION AND TEST (FAIT) OR DELTA FAIT SHALL BE CONDUCTED IN ACCORDANCE WITH SAE AS9102.
929	2020/02/18	Six Month Lapse FAI Requirement	SUPPLIER AND SUB TIER SUPPLIER MUST PROVIDE A COMPLETE FAI & COC IN CASE THERE IS AN INTERRUPTION IN PRODUCTION OF MORE THAN SIX MONTHS. THE FIRST ARTICLE INSPECTION AND TEST (FAIT) OR DELTA FAIT SHALL BE CONDUCTED IN ACCORDANCE WITH SAE AS9102.

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930	2020/02/18	Chem Film Verification	<p>GOODRICH RECEIVING INSPECTION MUST VERIFY THE TYPE OF CHEM. FILM APPLIED TO THESE PARTS. ONLY TYPE I CHEM. FILM IS ACCEPTABLE REGARDLESS OF THE DRAWING REQUIREMENT. A CERTIFICATE OF COMPLIANCE FROM THE PLATING FACILITY SHALL BE OBTAINED TO VERIFY THE TYPE DESIGNATION. PROCESS MATERIAL PER THE APPLICABLE CONDITION STATED BELOW.</p> <p>CHEM. FILM IS CERTIFIED AS TYPE 1 AND DRAWING REQUIRES TYPE 1: NO MRB REQUIRED.</p> <p>CHEM. FILM IS CERTIFIED AS TYPE 1 AND DRAWING REQUIRES TYPE 2: MRB REQUIRED PER PROCEDURE 1311. STATE NONCONFORMANCE ON MRB AS 'PER QUALITY CLAUSE 930, PARTS MEET BOEING CHEM. FILM REQUIREMENT FOR TYPE 1 BUT DO NOT MEET DRAWING REQUIREMENT FOR TYPE 2'.</p> <p>CHEM. FILM IS CERTIFIED AS TYPE 2 AND DRAWING REQUIRES TYPE 2: MRB REQUIRED PER PROCEDURE 1311. STATE NONCONFORMANCE ON MRB AS 'PER QUALITY CLAUSE 930, PARTS DO NOT MEET BOEING CHEM. FILM REQUIREMENT FOR TYPE 1 BUT DO MEET DRAWING REQUIREMENT FOR TYPE 2'.</p> <p>CHEM. FILM IS CERTIFIED AS TYPE 2 AND DRAWING REQUIRES TYPE 1: MRB REQUIRED PER PROCEDURE 1311. STATE NONCONFORMANCE ON MRB AS 'PER QUALITY CLAUSE 930, PARTS DO NOT MEET BOEING CHEM. FILM REQUIREMENT FOR TYPE 1 AND DO NOT MEET DRAWING REQUIREMENT FOR TYPE 1'.</p> <p>*** INSPECTION REQUIRED***</p>
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931	2020/02/18	Change Approval Required	All coordination, correspondence and commitments affecting the work performed under this purchase order shall be conducted by and through the buyer's procurement department. Only authorized representatives of the buyer's procurement department (I.E. purchasing agents who issue purchase orders) have the authority to make changes or approve requests associated with the terms of this purchase order. All such changes or approvals shall be authorized in writing in advance of commencement of any work by the seller.
932	2020/02/18	PAC 3 Inspection	INSPECT PER PAC 3 RINGFENCE ALL INSPECTION ANALYSIS CHARACTERISTICS SHALL BE CONSIDERED CRITICAL IF STATED OTHERWISE. ***INSPECTION REQUIRED***

933	2020/02/18	Solderability Testing	<p>Solderability testing is required on a minimum of 3 devices and 15 external leads/terminals where zero failures are acceptable. Each lot date code of devices requires solderability testing. Solderability testing shall be performed in accordance with the approved test method for the device types specified in Table I herein.</p> <p>1) Solderability testing is considered destructive. Devices utilized for Solderability testing shall be segregated from the lot and not be delivered to LMMFC. Supplier shall document quantity and traceability of tested samples as a separate item on the supplier's packing slip.</p> <p>(B) Solderability testing is not required on devices when:</p> <p>1) Device leads or terminals have gold finishes. 2) Devices with the same date code & manufacturer are shipped with Solderability test data performed within a 2 year time period. Vendor shall verify Solderability has been performed within 2 years of the product delivery date. Supporting data shall be provided with each part shipment. 3) Devices manufactured with a Solderability test performed during its quality conformance testing (QCI) within 2 years of shipment Group B test report).</p> <p>----- Table I ----- Device Type Solderability test methods approved by LMMFC - Dallas ----- I.C. (MIL-PRF-38535) MIL-STD-883, method 2003 cat 3 ----- Hybrid (MIL-PRF-38534) MIL-STD-883, method 2003 cat 3 ----- Diodes (MIL-PRF-19500) MIL-STD-750, method 2026 ----- Transistors (MIL-PRF-19500) MIL-STD-750, method 2026 ----- Thyristors (MIL-PRF-19500) MIL-STD-750, method 2026 ----- Oscillator (MIL-PRF-55310) MIL-STD-202, method 208 cat 3 ----- Solid state relay MIL-STD-202, method 208 cat 3 ----- All other electronic components J-STD-002, cat 3</p>
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(C) Any device failing Solderability testing will cause the lot to fail unless the following are performed and showed proof of tests.

- 1) The device leads shall be re-plated or re-solder dipped
- 2) The entire lot reworked
- 3) A second set of samples will be selected for Solderability testing
- 4) A copy of the data shall be provided with each reworked lot shipment.
- 5) The lot is unacceptable for use in production if the second set of samples fail.

(D) Solderability test data delivered with each lot shall contain the following information as a minimum:

- 1) Customer part identification number
- 2) Buyer purchase order number
- 3) Vendor name and location
- 4) Manufacturer name and location if different from the vendor
- 5) Number of devices tested and the test method utilized for Solderability testing
- 6) Lot date code
- 7) Solderability tested date

(E) All technical questions related to the generation and/or submittal of the above described testing shall be directed to the attention of the buyer of record on the PO (Purchase Order).

(F) All contractual direction including approval/disapproval of test plans and/or reports submitted in support of this purchase order will be provided by the buyer.

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