



CASCADE GASKET & MANUFACTURING COMPANY INC.

QUALITY REQUIREMENTS

Q1 INSPECTION SYSTEM REQUIREMENTS

THE SUPPLIER SHALL INSPECT OR OTHERWISE VERIFY THAT ALL PRODUCTS OR SERVICES, INCLUDING THOSE COMPONENTS PROCURED FROM OR FURNISHED BY SUBCONTRACTORS OR SUPPLIERS, COMPLY WITH THE REQUIREMENTS OF THE ORDER PRIOR TO SHIPMENT TO CASCADE GASKET OR CUSTOMER. SUPPLIER SHALL BE RESPONSIBLE FOR ALL TESTS AND INSPECTIONS OF THE PRODUCT DURING RECEIVING, MANUFACTURE AND SUPPLIER'S FINAL INSPECTION. SUPPLIER AGREES TO FURNISH COPIES OF TEST AND/OR CONTROL DATA UPON REQUEST FROM CASCADE GASKET.

THE SUPPLIER SHALL PROVIDE AND MAINTAIN A QUALITY INSPECTION SYSTEM APPROVED BY CASCADE GASKET TO ENSURE TOOLS, GAGES, INSTRUMENTS AND OTHER MEASURING AND TESTING DEVICES USED DURING INSPECTION ARE CONTROLLED, CALIBRATED AND ADJUSTED AT A FREQUENCY TO MAINTAIN ACCURACY WITHIN SPECIFIED LIMITS IN CONFORMANCE WITH INTERNATIONALLY RECOGNIZED STANDARDS. THE MEASURING AND TEST EQUIPMENT SHALL BE MAINTAINED IN ACCORDANCE WITH ISO 10012-1 "QUALITY ASSURANCE REQUIREMENTS FOR MEASURING EQUIPMENT," AND/OR EQUIVALENT.

SUPPLIER SHALL WORK TO THE LATEST P.O. SPECIFIED REVISION IMPOSED AND/OR THE LATEST STANDARD PUBLISHED AND IN EFFECT AT THE TIME OF P.O. ISSUANCE

OPERATOR SELF VERIFICATION PROGRAM: IF SELLER USES AN OPERATOR SELF VERIFICATION PROGRAM, SELLER SHALL COMPLY WITH THE REQUIREMENTS SET FORTH IN SAE INDUSTRY STANDARD AS9162 "AEROSPACE OPERATOR SELF VERIFICATION PROGRAMS" AS MAY BE AMENDED FROM TIME TO TIME. BUYER RESERVES THE RIGHT TO CONDUCT SURVEILLANCE AT SELLER'S FACILITY TO DETERMINE THAT SELLER IS COMPLIANT TO AS9162

Q2 SPECIAL TOOLING

- a. THE SUPPLIER HAS THE RESPONSIBILITY OF PROVING THE ADEQUACY OF ALL TOOLING, INCLUDING ANY TOOLING THAT MAY BE FURNISHED BY CASCADE GASKET. ANY ANOMALIES FOUND IN SUCH TOOLING MUST BE IMMEDIATELY REPORTED TO CASCADE GASKET.
- b. THE SUPPLIER SHALL MAINTAIN THE APPROPRIATE ORGANIZATIONAL STRUCTURE, STAFFING LEVELS, TRAINING, PROCESSES, PROCEDURES AND EQUIPMENT TO ADEQUATELY PERFORM INSPECTION AT THE DESIGNATED LEVEL OF CAPABILITY. THE SUPPLIER IS REQUIRED TO NOTIFY CASCADE GASKET FOR EVALUATION OF CAPABILITY IMPACT WHEN CHANGES OCCUR TO SUPPLIER'S ORGANIZATIONAL STRUCTURE, STAFFING LEVELS, TRAINING, PROCESSES, PROCEDURES SOFTWARE AND/OR EQUIPMENT THAT COULD AFFECT PRODUCT SUPPLIED TO CASCADE GASKET.

Q3 DIGITAL PRODUCT DEFINITION MODEL BASED DEFINITION

CONTROL AND USE OF DIGITAL PRODUCT DEFINITION DPD_MBD IS APPLICABLE IF PART DESIGN AND/OR CONFIGURATION IS DEFINED VIA A RELEASED DIGITAL DATASET (E.G., CATIA, SOLIDWORKS, STEP, ETC.). DPD_MBD APPROVAL IS REQUIRED BEFORE A SUPPLIER CAN RECEIVE DIGITAL DATA FROM CASCADE GASKET. THIS DOES NOT APPLY, WITH THE EXCEPTION OF RELEVANT PROTOCOLS, DURING THE REQUEST FOR PROPOSAL / QUOTE PHASE; HOWEVER, APPROVAL MUST BE OBTAINED PRIOR TO ACCEPTANCE OF FORMAL CG PURCHASE ORDER AND RELEASE OF ENGINEERING DATA. REF. [D6-51991](#) (BOEING) **REQUIRED:** ONCE APPROVED, CASCADE GASKET SHALL BE NOTIFIED WITHIN (30) DAYS OF ANY CHANGES TO YOUR APPROVED DPD_MBD PROCEDURES INCLUDING APPLICABLE SOFTWARE VERSION LEVEL(S).

SUPPLIERS USING COORDINATE MEASUREMENT SYSTEMS (CMS AND OLT'S) FOR FABRICATION AND/OR INSPECTION OF CASCADE GASKET PRODUCTS (PARTS OR TOOLS) MUST DOCUMENT AND CONTROL THEIR PROCESSES IN ACCORDANCE WITH D6-51991 SECTION 6.2 CMS PROCEDURES.

CMS REPORTS SHALL INCLUDE [JOB INFORMATION](#), [COORDINATE SYSTEM ESTABLISHMENT](#) (ALIGNMENT VERIFICATION), [OBJECT TEMPERATURE](#), [DATA ANALYSIS](#), [MEASURED RESULTS](#) AND [POINT MAPS](#). WHEN

Q3 DIGITAL PRODUCT DEFINITION MODEL BASED DEFINITION

MEASURED IN A CONTROLLED ENVIRONMENT OBJECT TEMPERATURE IS ONLY REQUIRED WHEN THE DOCUMENTED PROCESS, OFTEN REFERRED TO AS SOAK TIME, IS NOT FOLLOWED. WHEN PRODUCTS ARE MEASURED IN AN UNCONTROLLED ENVIRONMENT CMS REPORTS SHALL ALSO INCLUDE SCALE BAR AND DRIFT POINT MEASUREMENTS. REPORTS SHALL BE IN ENGLISH AND IN INCHES UNLESS DIRECTED OTHERWISE BY CUSTOMER CONTRACT. REPORTS SHALL INCLUDE FEATURE IDENTIFICATION, NOMINAL, ACTUAL, TOLERANCE AND DEVIATION.

RECORD RETENTION: A STANDARD PROCESS FOR ALL INSPECTION AND TEST RECORDS TO BE ARCHIVED AND RETAINED IN ACCORDANCE WITH CUSTOMER PURCHASE ORDER / CONTRACT SHALL BE ESTABLISHED AND PROVIDED TO CASCADE GASKET COMPLIANCE UPON REQUEST.

Q4 QUALITY ASSURANCE ACCEPTANCE SAMPLING

ACCEPTANCE SAMPLING REQUIREMENTS FOR SUPPLIERS IS APPLICABLE TO ALL PURCHASE ORDERS WHERE THE SUPPLIER PERFORMS SAMPLING INSPECTION. UNLESS A SAMPLING PLAN IS ALREADY DEFINED IN THE GOVERNING SPECIFICATIONS THE SUPPLIER SHALL PERFORM 100% FOR IN-PROCESS AND FINAL INSPECTION OR SUPPLIER SHALL CONFORM TO THE REQUIREMENTS OF DOCUMENT **AS9138**. ANY CHARACTERISTICS IDENTIFIED IN THE DESIGN DOCUMENTATION AS “**SAFETY**” OR “**CRITICAL**” (SIMILAR OR EQUIVALENT) SHALL **NOT** BE ACCEPTED USING STATISTICAL PRODUCT ACCEPTANCE METHODS. **NOTE:** STATISTICAL PROCESS CONTROL SHALL BE IMPLEMENTED IF/WHEN REQUIRED BY THE AUTHORITY AND/OR CONTROLLING ENGINEERING DOCUMENTS. CASCADE GASKET RESERVES THE RIGHT TO DISALLOW A SUPPLIER’S STATISTICAL METHODS FOR PRODUCT ACCEPTANCE FOR SPECIFIC SITES / PROGRAMS, PARTS OR CHARACTERISTICS, AND TO CONDUCT SURVEILLANCE AT SELLER’S FACILITY TO ASSESS CONFORMANCE TO THE REQUIREMENTS OF **AS9138**.

Q5 CONTROL OF CHANGES

SUPPLIER AND/OR SUB-TIER SHALL BE REQUIRED TO USE THE LATEST DRAWING, SPECIFICATION REVISION LEVEL AND/OR LATEST APPLICABLE PUBLISHED STANDARD UNLESS OTHERWISE SPECIFIED ON THE P.O. THE SUPPLIER AND THEIR SUB-TIER SHALL AGREE NOT TO MAKE ANY CHANGES TO MATERIAL, DESIGN DETAILS OR OTHER PRODUCT AND/OR PROCESS DEFINITION WHICH COULD AFFECT THE PART OR ANY COMPONENT PART THEREOF WITHOUT PRIOR WRITTEN APPROVAL FROM CASCADE GASKET. THE SUPPLIER SHALL IDENTIFY, ON THE STATEMENT OF CONFORMANCE AND/OR PACKING SHEET, THE AS-BUILT REVISION LEVEL OF THE END ITEM PRODUCT BEING DELIVERED. SUPPLIER SHALL FLOW DOWN THE SUBSTANCE OF THIS CLAUSE TO ALL SUB-TIERS.

Q6 NOTIFICATION OF CHANGE(S)

SUPPLIERS SHALL NOTIFY CASCADE GASKET OF THE FOLLOWING CHANGES:

- PRODUCT AND/OR PROCESS PROVIDED TO CASCADE GASKET
- SUB-TIER SUPPLIERS OF PRODUCT PROVIDED TO CASCADE GASKET
- MANUFACTURING FACILITY LOCATION I.E., WORK TRANSFER
- MANAGEMENT REPRESENTATIVE (OR EQUIVALENT)

NOTE: WRITTEN APPROVAL FROM CASCADE GASKET MAY BE REQUIRED PRIOR TO IMPLEMENTATION PENDING THE NATURE OF THE CHANGE I.E., RISK TO PRODUCT PROVIDED TO CASCADE GASKET

Q7 CONTROL OF NONCONFORMING PRODUCT

NONCONFORMING MATERIAL MUST BE IDENTIFIED, DOCUMENTED, EVALUATED, SEGREGATED (WHERE PRACTICAL), AND DISPOSITIONED PER CASCADE GASKET / AS9100 REQUIREMENTS.

DISPOSITION AUTHORITY: THE SUPPLIER'S DISPOSITION AUTHORITY FOR NONCONFORMANCES IS LIMITED TO REWORK, RMA AND SCRAP UNLESS THE SUPPLIER HAS BEEN GRANTED MRB AUTHORITY.



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Q7 CONTROL OF NONCONFORMING PRODUCT

THESE TERMS ARE DEFINED AS FOLLOWS: REWORK: A PROCESS APPLIED TO A NONCONFORMANCE, ENTIRELY WITHIN THE CONFINES OF THE DRAWING SPECIFICATIONS THAT WILL COMPLETELY ELIMINATE THE ISSUE, RESULTING IN A “CHARACTERISTIC THAT CONFORMS COMPLETELY TO THE DRAWINGS, SPECIFICATIONS, AND CONTRACT REQUIREMENTS.” UNDER THE PROVISIONS OF THIS DEFINITION REWORK IS AUTHORIZED IF THE GOVERNING SPECIFICATIONS REFERENCED WITHIN THE BOUNDS OF THE ASSOCIATED DRAWING PROVIDE THE NECESSARY REWORK INSTRUCTIONS. SUPPLIERS MUST DOCUMENT THE NONCONFORMANCE(S) AND PROVIDE DETAILED REWORK INSTRUCTIONS.

RETURN MATERIAL AUTHORIZATION (RMA): RETURN OF SUPPLIER MATERIAL FOUND TO BE DISCREPANT FOR SUBSEQUENT REWORK OR REPLACEMENT.

SCRAP: PERMANENT REMOVAL FROM PRODUCTION AND TIMELY DESTRUCTION OF PRODUCT FOUND TO BE UNFIT FOR USE. SCRAPPED PRODUCT SHALL BE CONSPICUOUSLY AND PERMANENTLY MARKED UNTIL DESTROYED.

NOTICE OF ESCAPE (NOE): WHEN THE SUPPLIER IDENTIFIES OR BECOMES AWARE OF SUSPECT MATERIAL / PRODUCT / SERVICE THAT HAS ESCAPED FROM THE SUPPLIER’S FACILITY TO CASCADE GASKET, THE SUPPLIER SHALL NOTIFY CASCADE GASKET WITHIN (24) HOURS.

SUPPLIER SHALL PROVIDE **WRITTEN NOTIFICATION** TO CASCADE GASKET IF/WHEN AN EXISTING NONCONFORMANCE HAS BEEN DETERMINED AND/OR IS SUSPECTED FOR PRODUCT ALREADY DELIVERED TO CASCADE GASKET UNDER ANY ORDER.

WRITTEN NOTIFICATION SHALL INCLUDE AT MINIMUM:

- A. AFFECTED PROCESS(S) OR MATERIAL / PRODUCT NUMBERS, NAMES AND/OR IDENTIFIERS
- B. DESCRIPTION OF THE NONCONFORMING CONDITION AND THE AFFECTED ENGINEERING REQUIREMENT(S) (I.E., WHAT IT IS AND WHAT IT SHOULD BE)



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Q7 CONTROL OF NONCONFORMING PRODUCT

- C. CASCADE GASKET PURCHASE ORDER, LINE ITEM / RELEASE, MANUFACTURER LOT NUMBER, QUANTITIES AND DATES SHIPPED TO CASCADE GASKET
- D. SUSPECT / AFFECTED SERIAL NUMBER(S) OR DATE CODES, LOT NUMBERS, OR OTHER PART IDENTIFIERS AND AIRPLANE LINE UNITS IF/WHEN APPLICABLE

WRITTEN NOTIFICATION MUST OCCUR WITHIN (3) **BUSINESS DAYS** OF KNOWING ALL THE ABOVE INFORMATION. HOWEVER, IF THE CONDITION IS A POSSIBLE **SAFETY OF FLIGHT**, SUBMIT ALL AVAILABLE INFORMATION **IMMEDIATELY**. CONTACT CASCADE GASKET & MFG. CO. INC. FOR ASSISTANCE AS REQUIRED IN DETERMINATION OF POSSIBLE SAFETY OF FLIGHT

Q8 SUPPLIER CORRECTIVE ACTION

SUPPLIER IS REQUIRED TO RESPOND TO CASCADE GASKET'S CORRECTIVE ACTION REQUEST WITHIN (10) **DAYS** OF RECEIPT. THE SUPPLIER SHALL PROVIDE WRITTEN RESPONSE DESCRIBING ACTIONS TAKEN TO PREVENT RECURRENCE. RECORDS OF THE RESULTS OF THOSE ACTIONS SHALL BE MAINTAINED AND FURNISHED TO CASCADE GASKET UPON REQUEST. AT THE DISCRETION OF CASCADE GASKET, FAILURE TO RESPOND WITHIN (10) **DAYS** MAY RESULT IN THE RETURN OF MATERIAL AT SUPPLIERS' EXPENSE, AT WHICH TIME THE SUPPLIER'S ACCOUNT MAY BE AUTOMATICALLY DEBITED. **NOTE:** CORRECTIVE ACTION EXTENSIONS MUST BE REQUESTED IN WRITING PRIOR TO THE DUE DATE.

Q9 CONTROL OF PRODUCT / EXCESS MATERIAL

THE SUPPLIER SHALL CLEARLY IDENTIFY AND STRICTLY CONTROL ALL CASCADE GASKET / CUSTOMER PROPRIETARY PRODUCT THAT IS IN EXCESS OF CONTRACT / PURCHASE ORDER QUANTITY, THROUGHOUT ITS LIFECYCLE, IN ORDER TO PREVENT PRODUCT FROM BEING SOLD OR PROVIDED TO A THIRD PARTY WITHOUT PRIOR WRITTEN AUTHORIZATION. ADDITIONALLY, SELLER SHALL NOT PROVIDE PRODUCT FROM EXCESS INVENTORY THAT WAS PREVIOUSLY REJECTED OR RETURNED BY CASCADE GASKET WITHOUT PRIOR WRITTEN AUTHORIZATION FROM CASCADE GASKET QUALITY MANAGER. WHEN SELLER FULFILLS AN ORDER FROM EXCESS INVENTORY FOR WHICH SELLER WAS THE ORIGINAL MANUFACTURER, SELLER SHALL BE ABLE



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Q9 CONTROL OF PRODUCT / EXCESS MATERIAL

TO DEMONSTRATE TRACEABILITY TO THE ORIGINAL CASCADE GASKET PURCHASE ORDER DOCUMENT THAT AUTHORIZED MANUFACTURE OF PRODUCT WHEN REQUESTED BY CASCADE GASKET. THE SUPPLIER SHALL STRICTLY PROHIBIT CASCADE GASKET / PROPRIETARY MATERIAL THAT IS IN EXCESS OF CONTRACT QUANTITY FROM BEING SOLD OR PROVIDED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN AUTHORIZATION FROM CASCADE GASKET.

Q10 RIGHT OF ENTRY

CASCADE GASKET, OUR CUSTOMERS, US GOVERNMENT AND/OR REGULATORY AGENCIES RESERVE THE RIGHT OF ACCESS TO SUPPLIER AND SUPPLIERS' SUB-TIER FACILITIES INVOLVED PER (THIS) PURCHASE ORDER. THIS INCLUDES THE RIGHT TO ENTER, OBSERVE, RECORD, AND/OR REPORT ON ANY ACTIVITIES AND ALL APPLICABLE QUALITY RECORDS AT THE SUPPLIER AND/OR SUPPLIERS' SUB-TIERS DURING THE MANUFACTURE OF CASCADE GASKET / CUSTOMER'S PRODUCT(S). IN ADDITION, CASCADE GASKET RESERVES THE RIGHT TO VERIFY THAT SUB-CONTRACTED PRODUCT CONFORMS TO SPECIFIED REQUIREMENTS AT THE SUPPLIER AND/OR SUPPLIERS' SUB-TIER FACILITY. SUCH VERIFICATION SHALL NOT BE USED BY THE SUPPLIER AS EVIDENCE OF EFFECTIVE CONTROL OF QUALITY BY THE SUPPLIER.

Q11 SHELF LIFE AND TEMPERATURE SENSITIVE MATERIAL

THE SUPPLIER SHALL IDENTIFY ALL MATERIAL(S) AND ARTICLES WHICH HAVE DEFINITE CHARACTERISTICS OF QUALITY DEGRADATION WITH AGE AND/OR ENVIRONMENT. THE SUPPLIER SHALL AFFIX THIS INFORMATION DIRECTLY ON THE MATERIAL CONTAINER OR ARTICLE. THIS IDENTIFICATION SHALL INDICATE THE DATE USEFUL LIFE WAS INITIATED AND THE DATE AND/OR CYCLE AT WHICH THE USEFUL LIFE WILL BE EXPENDED. WHEN ENVIRONMENT IS A FACTOR IN DETERMINING USEFUL LIFE, THE IDENTIFICATION SHALL INCLUDE THE STORAGE CONDITION (I.E., TEMPERATURE, HUMIDITY, ETC.) REQUIRED TO ACHIEVE THE STATED LIFE. A MINIMUM OF 85%, UNLESS OTHERWISE SPECIFIED ON THE PURCHASE ORDER, OF THE APPLICABLE MATERIAL(S)

Q11 SHELF LIFE AND TEMPERATURE SENSITIVE MATERIAL

/ ARTICLE, SHELF LIFE SHALL REMAIN UPON RECEIPT OF THE MATERIAL BY CASCADE GASKET OR THE MATERIAL SHALL BE SUBJECT TO REJECTION AND RETURNED TO THE SUPPLIER AT SUPPLIER'S EXPENSE.

Q12 IDENTIFICATION AND PACKAGING

UNLESS OTHERWISE SPECIFIED BY PURCHASE ORDER, PARTS, ASSEMBLIES AND COMPONENTS SHALL BE IDENTIFIED PER THE ENGINEERING DRAWING AND MARKED WITH THE DATE OF MANUFACTURE. WHEN IDENTIFICATION IS NOT SPECIFIED ON THE ENGINEERING DRAWING, THE PRODUCT SHALL BE IDENTIFIED WITH THE PART NUMBER SPECIFIED ON THE PURCHASE ORDER. WHEN ITEMS ARE TOO SMALL TO BE EASILY IDENTIFIED; PARTS MAY BE BAGGED OR TAGGED, WITH THE PROPER IDENTIFICATION INDICATED ON THE BAG OR TAG. RAW MATERIAL PROCURED TO FEDERAL, MILITARY, AEROSPACE AND/OR OTHER SPECIFICATIONS SHALL BE MARKED PER THE IDENTIFICATION SPECIFICATION, WHICH IS REFERENCED IN THE CONTROLLING SPECIFICATION. MATERIAL SHALL BE CLEARLY IDENTIFIED AND CONTROLLED THROUGHOUT MATERIAL / PRODUCT LIFECYCLE. THE SUPPLIER IS RESPONSIBLE FOR ASSURING THAT ALL ITEMS ARE DELIVERED WITHOUT DAMAGE OR DETERIORATION AND ARE EFFICIENTLY AND ECONOMICALLY PACKED FOR THE METHOD OF TRANSPORTATION AND/OR TYPE OF HANDLING INVOLVED. UNIT AND INTERMEDIATE PACKAGING SHALL BE EMPLOYED AS NECESSARY TO PREVENT DAMAGE OR DETERIORATION. IN ADDITION, EACH SHIPMENT BY THE SUPPLIER SHALL BE ACCOMPANIED BY A **STATEMENT OF CONFORMANCE** IN ACCORDANCE WITH THE ABOVE. WHEN THE ITEM(S) CONTAINED WITHIN AN ASSEMBLY, SUB-ASSEMBLY AND/OR DETAIL PART ON THIS PURCHASE ORDER ARE SUPPLIED BY A DISTRIBUTOR, A COPY OF THE STATEMENT OF CONFORMANCE FROM THE TRUE MANUFACTURER MUST ACCOMPANY EACH SHIPMENT.

Q13 PROCESS ACCEPTANCE AUTHORITY MEDIA

SUPPLIER SHALL WITHIN ITS ORGANIZATION AND ITS SUPPLY CHAIN, ENSURE AAM IS CLEARLY DEFINED WITHIN ITS QUALITY MANAGEMENT SYSTEM. THE SUPPLIER SHALL, UPON REQUEST OF CASCADE GASKET, DEMONSTRATE WITH EVIDENCE THE COMMUNICATION TO ITS EMPLOYEES AND ITS SUPPLY CHAIN THAT THE USE OF ANY **ACCEPTANCE AUTHORITY MEDIA (AAM)** USED TO RECORD STATUS OF TASKS AND/OR OPERATIONS ARE TO BE CONSIDERED A PERSONAL WARRANTY OF COMPLIANCE AND CONFORMITY. SUPPLIER SHALL MAINTAIN COMPLIANCE TO AAM REQUIREMENTS BY ASSESSING BOTH INTERNAL AND SUPPLY CHAIN PROCESS(S) AS PART OF ITS DOCUMENTED AUDIT ACTIVITIES.

ACTIVITIES SHALL ENSURE THE FOLLOWING:

- **PREVENTION OF ERRORS** I.E., OMISSION, TYPOS, LEGIBILITY ETC.
- **UNTIMELY USE** I.E., DOCUMENTATION NOT COMPLETED AS PLANNED “STAMP / SIGN AS YOU GO”
- **MISREPRESENTATION** I.E., UNCERTIFIED PERSONNEL, FALSIFICATION OF DOCUMENTATION, WORK NOT PERFORMED AS PLANNED ETC.
- **TRAINING DEFICIENCIES** E.G., ETHICS, CULTURE AWARENESS, PROPER USE OF INITIALS, SIGNATURES, AND AUTHORITY MEDIA STAMPS ETC.
- **PROCESSES ARE PERFORMED BY THOSE THAT ARE QUALIFIED / TRAINED**
- **STAMPS USED TO APPROVE PRODUCT ARE APPROPRIATELY CONTROLLED TO PREVENT UNINTENDED / UNAPPROVED USE**
- **STAFF IS TRAINED ON ALL THE ABOVE CRITERIA**

Q14 SAFETY DATA SHEETS

MATERIALS(S) NOTED ON THIS PURCHASE ORDER MUST BE SUPPLIED IN ACCORDANCE WITH OSHA’S LATEST PUBLISHED HAZARD COMMUNICATION STANDARD **29CFR1910-1200**, OSHA’S LATEST INSTRUCTION **CPL2-2.38** AND LATEST WASHINGTON STATE CODES **296-62-05413** “SAFETY DATA SHEETS”. ALL FIRST-TIME



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Q14 SAFETY DATA SHEETS

ORDERS MUST BE SUPPLIED WITH "SAFETY DATA SHEETS". PRODUCT(S) / MATERIAL(S) NOT RECEIVED IN COMPLIANCE WITH AFOREMENTIONED OSHA REQUIREMENTS AND WASHINGTON STATE CODES WILL BE SUBJECT TO IMMEDIATE REJECTION AND RETURN AT SUPPLIER'S EXPENSE. IN ADDITION, IF SUPPLIER IS AWARE OF ANY ADDITIONAL PRECAUTIONS AND/OR HANDLING TECHNIQUES INSTITUTED WITH REGARD TO OTHER CUSTOMERS, SUPPLIER IS REQUIRED TO SUBMIT THOSE SAFEGUARDS WITH SDS. SUPPLIER IS REQUIRED TO FORWARD A TOXIC SUBSTANCES CONTROL ACT (TSCA) CERTIFICATION LETTER TO CASCADE GASKET FOR PRODUCT(S) / MATERIAL(S) INDICATED ON THIS PURCHASE ORDER, TO INCLUDE A STATEMENT THAT EVERY CHEMICAL COMPONENT OF THE PRODUCT(S) IS LISTED BY THE TOXIC SUBSTANCES CONTROL ACT INVENTORY P.L. 94-94-969. IF RAW MATERIALS, PARTS OR ASSEMBLIES CONTAIN SUBSTANCE(S) OF VERY HIGH CONCERN (SVHCS) AS PRESCRIBED BY EU DIRECTIVE EC NO. 1907 / 2006, REGISTRATION, EVALUATION AND AUTHORIZATION OF CHEMICALS IDENTIFICATION SHALL BE INCLUDED WITH THE SHIPMENT. THIS IDENTIFICATION SHOULD LIST THE SVHC-DESIGNATED CHEMICALS PRESENT IN THE PURCHASED ARTICLE AND THE CONDITIONS UNDER WHICH HANDLING PRECAUTIONS SHOULD BE TAKEN.

Q15 CALIBRATION SYSTEM REQUIREMENTS

SUPPLIER SHALL HAVE A CALIBRATION SYSTEM THAT ASSURES COMPLIANCE WITH ANSI / NCSL Z540-1 "AMERICAN NATIONAL STANDARD FOR CALIBRATION". ANY DEVIATION OR WAIVER TO THIS REQUIREMENT MUST BE APPROVED BY CASCADE GASKET'S MATERIAL AND QUALITY ASSURANCE REPRESENTATIVES.

Q16 STATEMENT OF CONFORMANCE

THE SUPPLIER SHALL CERTIFY THAT THE PRODUCT DELIVERED CONFORMS IN EVERY ASPECT TO THE CONTRACTUAL AND TECHNICAL REQUIREMENTS OF THE PURCHASE ORDER, ENGINEERING DRAWINGS(S), SPECIFICATIONS AND STANDARDS REFERENCED THEREIN. WHERE REQUIRED BY CASCADE GASKET PURCHASE ORDER, INCLUSIVE OF ALL DOCUMENTS REFERENCED THEREIN, THE SUPPLIER MUST CERTIFY THAT PARTS, MATERIALS AND PROCESSES HAVE BEEN PROCURED FROM APPROVED SOURCES.

Q16 STATEMENT OF CONFORMANCE

A **CERTIFICATE OF CONFORMANCE** SHALL ACCOMPANY EACH SHIPMENT AND INCLUDE A STATEMENT THAT THE PRODUCT / PROCESS PROVIDED MEETS THE CONTROLLING ENGINEERING AND PURCHASE ORDER REQUIREMENTS. THE CERTIFICATE OF CONFORMITY SHALL INCLUDE TRACEABILITY (E.G. MANUFACTURER'S PRODUCTION ORDER / LOT NUMBER, HEAT LOT NUMBER, BATCH NUMBER AND IF APPLICABLE HEAT LOT NUMBER) TO THE PRODUCT / PROCESS PROVIDED. CERTIFIED PHYSICAL METALLURGICAL TEST REPORTS ARE TO BE PROVIDED WHEN REQUIRED BY THE CONTROLLING SPECIFICATION. COPIES OF ALL RAW MATERIALS, PROCESSES AND PRODUCT CERTIFICATIONS MUST BE PROVIDED TO CASCADE GASKET UPON DELIVERY. DISTRIBUTORS OF HARDWARE OR RAW MATERIAL ARE REQUIRED TO INCLUDE THE LEGAL NAME OF THE PRODUCT MANUFACTURER ON THE CERTIFICATE OF CONFORMANCE.

Q17 MATERIAL TEST REPORTS

A LEGIBLE UNALTERED COPY OF THE TEST REPORT MUST ACCOMPANY EACH SHIPMENT, UNLESS VERIFIED AND VALIDATED BY A CASCADE GASKET QUALITY ASSURANCE REPRESENTATIVE AT THE SUPPLIER'S OR SUB-TIER SUPPLIERS' FACILITIES. TEST REPORTS SHALL BE IDENTIFIED WITH SPECIFICATION NUMBER, HEAT AND/OR CURE LOT NUMBER AND CURE DATE, AS APPLICABLE. CHEMICAL AND PHYSICAL TEST REPORTS SHALL INCLUDE ACTUAL NUMERICAL VALUES FOR EACH PROPERTY TESTED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION. WHEN MORE THAN ONE SPECIMEN IS REQUIRED, TEST RESULTS OF EACH ARE REQUIRED ON THE REPORT. SPECIFICATION AND REVISION LEVEL SHALL BE SHOWN ON EACH TEST REPORT FURNISHED. SUPPLIER SHALL MAINTAIN A PROCESS TO VALIDATE AND PERIODICALLY RE-VALIDATE THE ACCURACY OF TEST REPORTS USING RISK-BASED THINKING. MATERIAL CERTIFICATIONS STATING CHEMICAL / PHYSICAL ANALYSIS AND TESTS SHALL ACCOMPANY ALL ORDERS OF WHICH THE SUPPLIER PURCHASES THE RAW MATERIALS.

Q18 APPROVED PROCESS REQUIREMENTS

- a. SPECIAL PROCESSES (I.E., TESTING, HEAT TREAT, NONDESTRUCTIVE TESTING, ETC.), WHEN REQUIRED BY PROCESS SPECIFICATION, MUST BE PERFORMED BY SOURCES APPROVED BY THE PROCESS DOCUMENT OWNER (BOEING) / CASCADE GASKET'S CUSTOMER.
- b. THE SUPPLIER IS RESPONSIBLE FOR ASSURING THAT THE PROCESSING SOURCE HAS IN THEIR POSSESSION CURRENT CUSTOMER APPROVAL OF THEIR PROCESS CAPABILITY FOR THE PROCESS(S) TO BE PERFORMED, PRIOR TO THEIR PERFORMING THE PROCESS.
- c. IN ADDITION, EACH SHIPMENT MUST BE ACCOMPANIED BY A LEGIBLE UNALTERED COPY OF THE CERTIFICATION FROM THE PROCESSING SOURCE DEMONSTRATING COMPLIANCE WITH THE SPECIFICATION FOR THE PROCESSES PERFORMED AND VERIFICATION THAT THE PROCESSOR IS APPROVED BY THE PROCESS DOCUMENT OWNER (BUYER / BOEING) TO PERFORM THE PROCESS(S) AT THE TIME THE PRODUCT WAS PROCESSED.
- d. IF CASCADE GASKET QUALITY ASSURANCE VERIFIES / VALIDATES THE PROCESS ON-SITE AT THE SUPPLIER'S FACILITY THE CERTIFICATION MAY BE RETAINED BY THE SUPPLIER
- e. THE SUPPLIER AND ANY SUB-TIER SUPPLIER WILL USE BOEING APPROVED SPECIAL PROCESSORS, MANUFACTURERS AND THEIR AUTHORIZED DISTRIBUTORS, AND BOEING APPROVED SOURCES OF NON-DOMESTIC RAW MATERIALS, AS REQUIRED AND LISTED IN **D1-4426 APPENDIX D** BOEING APPROVED PROCESS SOURCES

Q19 NADCAP

SUPPLIERS MUST BE **NADCAP** APPROVED FOR THE PROCESSES BEING PERFORMED AS APPLICABLE. NADCAP APPROVAL IS REQUIRED FOR THE FOLLOWING PROCESSES:

- HEAT TREATING
- WELDING
- CHEMICAL PROCESSING

Q19 NADCAP

- NONDESTRUCTIVE TESTING
- SURFACE ENHANCEMENT
- COMPOSITES
- MATERIAL TESTING

Q20 FIRST ARTICLE INSPECTION

A LEGIBLE AND REPRODUCIBLE COPY OF THE SUPPLIER'S FIRST ARTICLE INSPECTION REPORT (FAI), COMPLIANT WITH **AS9102** LATEST REVISION, ON THE INITIAL PART AND/OR LOT (AS APPLICABLE) AT THE DETAIL, SUBASSEMBLY AND/OR ASSEMBLY LEVEL OR AFTER A CASCADE GASKET PRODUCTION LAPSE OF **(2) YEARS**. THE RESULTS OF THE FAI SHALL INDICATE 100% CONFORMANCE TO ENGINEERING DRAWING CHARACTERISTICS, SPECIAL PROCESSES, AND FUNCTIONAL TEST AND LABORATORY REQUIREMENTS. SUBSEQUENT FAI'S SHALL BE PERFORMED AND PROVIDED TO CASCADE GASKET UNDER THE FOLLOWING CONDITIONS:

- **ENGINEERING CHANGES** (CONFIGURATION CHANGES AFFECTING FORM, FIT AND/OR FUNCTION) REQUIRE AN FAI / DELTA FOR THOSE CHARACTERISTICS AFFECTED BY THE CHANGE
- **MAJOR CHANGES** MADE TO SUPPLIER PRODUCTION EQUIPMENT, METHOD OF MANUFACTURING, TOOL REASSEMBLY, MANPOWER AND/OR WHEN MAJOR ENVIRONMENTAL CHANGES HAVE OCCURRED AN FAI / DELTA SHALL BE PERFORMED FOR THOSE CHARACTERISTICS AFFECTED BY THE CHANGE
- **MAJOR HARDWARE CHANGES / SOFTWARE CHANGES**
- **CHANGES TO SOFTWARE DRIVEN MACHINE PROGRAMS**
- **DATA DOCUMENT REVISIONS**
- **REWORK**

Q21 REPORTING

ANY DEPARTURE FROM DRAWING SPECIFICATIONS OR OTHER PURCHASE ORDER REQUIREMENTS SHALL BE DOCUMENTED BY THE SUPPLIER AND SUBMITTED TO CASCADE GASKET WITHIN **(24) HOURS** FOR CONSIDERATION AND DISPOSITION. A COPY OF THE DISPOSITIONED DOCUMENT SHALL ACCOMPANY EACH AFFECTED SHIPMENT.

REPORT OF ESCAPE: THE SUPPLIER UPON DISCOVERY OF A SHIPMENT / DELIVERY OF NONCONFORMING PRODUCT MUST PROVIDE **NOTICE OF DISCLOSURE** TO CASCADE GASKET WITHIN **(24) HOURS** OF DISCOVERY.

REPORT CHANGES WORK TRANSFER: THE SUPPLIER SHALL NOTIFY CASCADE GASKET OF ANY CHANGES TO PRODUCT, PROCESS, FACILITY, MANUFACTURING LOCATION, SUB-TIER SUPPLIER AND/OR MAJOR ORGANIZATIONAL CHANGES WITHIN **(24) HOURS** OF CONSIDERATION.

Q22 TRACEABILITY LOT AND BATCH CONTROL

- a. SUPPLIER SHALL MAINTAIN LOT AND BATCH SEGREGATION AND CONTROL OF RAW MATERIALS AND DETAILS OF PURCHASED ITEMS THROUGH THE USE OF CASCADE GASKET APPROVED STANDARDS FOR LOT / BATCH, SERIAL NUMBER AND DATE OF MANUFACTURE IDENTIFICATION FOR ALL ITEMS IN THE SHIPMENT. SHIPPING DOCUMENTS SHALL CLEARLY IDENTIFY THE LOT / BATCH AND SERIAL NUMBER, FOR ALL ITEMS IN THE SHIPMENT AND IF RECEIVED SEPARATELY MUST BE KEPT SEGREGATED AND CLEARLY IDENTIFIED.
- b. SUPPLIER PROCESS CONTROLS FOR LOT / BATCH SEGREGATION AND IDENTIFICATION SHALL ENSURE THAT SUBSEQUENT SUSPECT MATERIAL AND/OR PRODUCT THAT DOES NOT CONFORM TO SPECIFIED REQUIREMENTS IS PREVENTED FROM UNINTENDED USE OR DELIVERY VIA INADEQUATE IDENTIFICATION AND/OR INADEQUATE COALESCENT BATCH / LOT CONTROLS.



CASCADE GASKET & MANUFACTURING COMPANY INC.

Q23 QUALITY ASSURANCE RECORDS RETENTION

QUALITY RECORDS: CREATED AND/OR RETAINED BY THE SUPPLIER MUST BE COMPLETE, LEGIBLE AND IDENTIFIABLE TO THE CORRESPONDING PRODUCT. SUPPLIER SHALL RETAIN MANUFACTURING PLANNING, ALL CERTIFICATIONS, AND TEST REPORTS REQUIRED TO ASSURE THAT COMMODITY CONFORMS TO THE CONTRACTUAL AND TECHNICAL REQUIREMENTS OF THE PURCHASE ORDER FOR A MINIMUM OF **CALENDAR YEAR PLUS (10) YEARS FROM THE DATE OF SHIPMENT UNDER EACH APPLICABLE ORDER FOR ALL ARTICLES UNLESS OTHERWISE SPECIFIED ON THE ORDER.** RECORDS SHALL BE MADE AVAILABLE FOR REVIEW BY CASCADE GASKET, ITS CUSTOMERS AND/OR GOVERNMENT REGULATORY AGENCIES UPON REQUEST. THE SUBSTANCE OF THIS CLAUSE SHALL BE FLOWED DOWN TO ALL SUB-TIERS.

Q24 SUPPLIER FLOW-DOWN

THE SUPPLIER SHALL FLOW DOWN THE SUBSTANCE OF CASCADE GASKET QUALITY CLAUSES TO ALL SUB-TIERS. SUPPLIER SHALL NOTIFY CASCADE GASKET PRIOR TO OUTSOURCING ANY REQUIREMENTS PERTAINING CASCADE GASKET'S PURCHASE ORDER. AFTER APPROVAL FOR OUTSOURCING, IN WRITING BY CASCADE GASKET, SUPPLIER SHALL FLOW DOWN ALL REQUIREMENTS OUTLINED ON CASCADE GASKET'S PURCHASE ORDER, INCLUDING ANY KEY CHARACTERISTICS, TO THEIR SUPPLIER. THE SUPPLIER, AS THE RECIPIENT OF THE PURCHASE ORDER, IS RESPONSIBLE FOR MEETING ALL THE SPECIFIED TECHNICAL AND QUALITY REQUIREMENTS, WHETHER THE SUPPLIER PERFORMS THE WORK, OR THE WORK IS PERFORMED BY THE SUPPLIER'S SUB-TIER.

Q25 EXPORT WARNING

THIS ORDER MAY CONTAIN TECHNICAL DATA AND/OR FURNISHED MATERIALS WHOSE EXPORT IS RESTRICTED BY THE **ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C. SEC 2751, ET SEQ.)** OR THE EXPORT ADMINISTRATION REGULATIONS (EAR) (**15 CFR CHAPTER VII, SUBCHAPTER C**). VIOLATORS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. THIS INFORMATION IN DOCUMENT/DIGITAL FORM (AND/OR ANY OTHER MEDIUM), INCLUDING ANY ATTACHMENTS AND EXHIBITS MAY NOT BE EXPORTED, RELEASED OR DISCLOSED TO FOREIGN PERSONS WHETHER HERE IN THE UNITED STATES OR ABROAD. A

Q25 EXPORT WARNING

FOREIGN PERSON IS ANY NATURAL PERSON WHO IS NOT A LAWFUL PERMANENT RESIDENT OF THE U.S. OR WHO IS NOT A PROTECTED INDIVIDUAL, INCLUDING FOREIGN CORPORATIONS, BUSINESS ASSOCIATIONS, PARTNERSHIPS, TRUSTS, SOCIETIES OR ANY OTHER ENTITY OR GROUP THAT IS NOT INCORPORATED OR ORGANIZED TO DO BUSINESS IN THE U.S., AS WELL AS INTERNATIONAL ORGANIZATIONS, FOREIGN GOVERNMENTS AND ANY AGENCY OR SUBDIVISION OF FOREIGN GOVERNMENTS (E.G., DIPLOMATIC MISSIONS). IT ALSO INCLUDES ANY FOREIGN INTEREST AND ANY U.S. PERSON EFFECTIVELY OWNED OR CONTROLLED BY A FOREIGN INTEREST. IF YOU SHOULD HAVE ADDITIONAL QUESTIONS PLEASE CONTACT CASCADE GASKET FOR FURTHER CLARIFICATION.

Q26 CONFLICT MINERALS

SUPPLIER SHALL CERTIFY THAT MATERIALS PRODUCED AND FURNISHED ON THIS PURCHASE ORDER ARE FREE OF CONFLICT MINERALS AS DEFINED IN SECTION 1502 OF THE DODD-FRANK WALL STREET REFORM AND CONSUMER PROTECTION ACT

Q27 SIKORSKY APPROVED SUPPLIERS

ALL SPECIAL PROCESSES FOR DETAILS AND ASSEMBLIES SHALL BE PROCESSED USING SIKORSKY-APPROVED SUPPLIERS. ALL MATERIAL AND HARDWARE USED IN DETAILS AND ASSEMBLIES SHALL BE OBTAINED FROM SIKORSKY-APPROVED SOURCES.

Q28 OVER / DELAYED SHIPMENT OF GOODS

CASCADE GASKET SHALL, AT NO ADDITIONAL COST TO CASCADE GASKET, RETAIN GOODS FURNISHED IN EXCESS OF THE SPECIFIED QUANTITY ON IN-EXCESS OF ANY ALLOWABLE OVERAGE, UNLESS THE SUPPLIER REQUESTS RETURN OF SUCH EXCESS WITHIN **(45) DAYS** OF SHIPMENT. IN THE EVENT OF SUCH A REQUEST, SUPPLIER SHALL REIMBURSE CASCADE GASKET FOR REASONABLE COSTS ASSOCIATED WITH STORAGE AND RETURN OF EXCESS.

Q28 OVER / DELAYED SHIPMENT OF GOODS

SUPPLIER SHALL PROMPTLY NOTIFY CASCADE GASKET OF ANY ANTICIPATED AND/OR ACTUAL DELAYS IN DELIVERY, WHAT ACTIONS ARE BEING TAKEN TO PREVENT AND/OR MINIMIZE THE DELAY, AND UPON CASCADE GASKET REQUEST THE SUPPLIER, AT THEIR EXPENSE, SHALL SHIP GOODS VIA AIR OR OTHER EXPEDITED MEANS TO AVOID AND/OR MINIMIZE ANY FURTHER DELAY OF SHIPMENT.

Q29 DPAS RATED ORDERS

IF THIS IS A RATED ORDER CERTIFIED FOR NATIONAL DEFENSE USE, THE SUPPLIER IS REQUIRED TO FOLLOW ALL THE PROVISIONS OF THE [DEFENSE PRIORITIES AND ALLOCATIONS SYSTEM REGULATION](#) (15 CFR PART 700) IN OBTAINING CONTROLLED MATERIALS AND OTHER PRODUCTS, SERVICES AND MATERIALS NEEDED TO FILL THIS ORDER. IF THIS IS A DX RATED ORDER, SUPPLIER MUST PROVIDE CASCADE GASKET WITH WRITTEN ACCEPTANCE OR REJECTION OF THIS ORDER WITHIN (10) **TEN WORKING DAYS** AFTER RECEIPT IF THIS IS A DO RATED ORDER, SUPPLIER MUST PROMPTLY PROVIDE CASCADE GASKET WITH WRITTEN ACCEPTANCE OR REJECTION OF THIS ORDER WITHIN (15) **WORKING DAYS** AFTER RECEIPT. THE SUPPLIER MUST INCLUDE THE REASONS FOR THE REJECTION IN ANY WRITTEN REJECTION OF A RATED ORDER.

Q30 PROCESS VARIABILITY / VARIATION REDUCTION

CASCADE GASKET ENCOURAGES SUPPLIERS TO INSTITUTE PROGRAMS THAT WILL CONTINUOUSLY IMPROVE PROCESSES AND ELIMINATE / MINIMIZE SPECIAL CAUSES OF VARIATION THROUGHOUT THEIR FACILITY. IF/WHEN APPLICABLE THE MANAGEMENT OF KEY CHARACTERISTICS SHALL BE IN ACCORDANCE WITH **AS9103** "AEROSPACE SERIES – QUALITY MANAGEMENT SYSTEMS – VARIATION OF MANAGEMENT OF KEY CHARACTERISTICS"

Q31 FOREIGN OBJECT DEBRIS / FOREIGN OBJECT DAMAGE

THE SUPPLIER SHALL ESTABLISH, DOCUMENT AND MAINTAIN A PROGRAM FOR THE PREVENTION OF **FOREIGN OBJECT DEBRIS / FOREIGN OBJECT DAMAGE** TO CONTROL AND ELIMINATE FOD AND/OR CONTAMINATION DURING THE SUPPLIER'S MANUFACTURING, ASSEMBLY, TEST, INSPECTION, PACKAGING AND SHIPPING

Q31 FOREIGN OBJECT DEBRIS / FOREIGN OBJECT DAMAGE

OPERATIONS. WHEN APPLICABLE, THE SUPPLIER'S FOD CONTROL PROGRAM SHALL ALSO INCLUDE CONTROLS TO PRECLUDE FOD OR CONTAMINATION AT THE SUPPLIER'S SUB-TIER SOURCES.

THE FOLLOWING BASIC ELEMENTS SHALL BE INCLUDED IN THE SUPPLIER'S FOD CONTROL PROGRAM:

- FOD PREVENTION TRAINING
- MANUFACTURING PLANNING CONSIDERATION FOR FOD PREVENTION
- WORK SEQUENCING
- CLEANLINESS OF WORK AREA
- CONTROL OF TOOLS, PERSONAL ITEMS, FASTENERS, SCRAP ETC.
- PROTECTION FROM FOD DURING HANDLING PACKAGING AND SHIPPING
- PERIODIC (AT LEAST ANNUALLY) EVALUATION OF THE FOD CONTROL PROGRAM FOR EFFECTIVENESS

Q32 SUSPECT _ FRAUDULENT _ COUNTERFEIT PARTS & MATERIALS

CASCADE GASKET SUPPLIERS SHALL HAVE IN PLACE A DOCUMENTED PROGRAM TO AVOID, DETECT, MITIGATE, REPORT AND DISPOSITION SUSPECT / COUNTERFEIT PRODUCT AND MATERIAL ESPECIALLY, BUT NOT LIMITED TO, RAW MATERIAL SUPPLIERS AND DISTRIBUTORS.

SUSPECT MATERIAL: MATERIEL, ITEMS OR PRODUCTS IN WHICH THERE IS AN INDICATION BY VISUAL INSPECTION, TESTING AND/OR OTHER INFORMATIVE SOURCE THAT THE PRODUCT / MATERIAL MAY MEET THE DEFINITION OF FRAUDULENT MATERIEL OR COUNTERFEIT MATERIAL PROVIDED BELOW.

FRAUDULENT MATERIAL: SUSPECT MATERIAL THAT IS MISREPRESENTED TO CASCADE GASKET AS MEETING THE SPECIFIED PURCHASE ORDER REQUIREMENTS I.E., AUTHORITY ENGINEERING, PRODUCT SPECIFICATION(S), CONTROLLING PROCESS DOCUMENT OWNER (BUYER) REQUIREMENTS ETC.

Q32 SUSPECT _ FRAUDULENT _ COUNTERFEIT PARTS & MATERIALS

COUNTERFEIT MATERIAL: FRAUDULENT MATERIAL THAT HAS BEEN CONFIRMED TO BE A COPY, IMITATION OR SUBSTITUTE THAT HAS BEEN REPRESENTED, IDENTIFIED, OR MARKED AS GENUINE, AND/OR ALTERED BY A SOURCE WITHOUT LEGAL RIGHT WITH INTENT TO MISLEAD, DECEIVE OR DEFRAUD.

COUNTERFEIT PARTS: THE SUPPLIER SHALL FLOW DOWN THE SUBSTANCE OF THIS CLAUSE TO ALL SUB-TIERS. SUPPLIERS SHOULD UTILIZE AND REFERENCE **AS6174** FOR GUIDANCE. SUPPLIERS SHALL ALSO FLOW-DOWN COUNTERFEIT PARTS PROGRAMS REQUIREMENTS ESPECIALLY, BUT NOT LIMITED TO, RAW MATERIAL SUPPLIERS AND DISTRIBUTORS

Q33 BOEING FAA PRODUCTION CERTIFICATE 700

BOEING FAA PRODUCTION CERTIFICATE 700:

FOR ALL SHIPMENTS OF ARTICLES INTENDED FOR USE ON BOEING COMMERCIAL AIRCRAFT, THE SELLER WILL PLACE THE FOLLOWING STATEMENT ON THE SHIPPING DOCUMENTATION OF ALL PRODUCTS MATERIALS, EQUIPMENT, INFORMATION, AND SERVICES INTEGRATED INTO PRODUCTS AND SERVICES:

"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)"

THE STATEMENT MAY BE PRINTED, STAMPED OR ATTACHED AS A LABEL OR STICKER TO THE SHIPPING DOCUMENTATION. IT IS PERMISSIBLE TO REPLACE "SELLER" WITH THE COMPANY NAME OR "WE".

Q34 CASCADE GASKET CUSTOMER (BOEING) SPECIFIC REQUIREMENTS

FOREIGN OBJECT DEBRIS / FOREIGN OBJECT DAMAGE (FOD): THE SUPPLIER SHALL ESTABLISH, DOCUMENT AND MAINTAIN A PROGRAM IN ACCORDANCE WITH AS9146 FOREIGN OBJECT DAMAGE (FOD) PREVENTION PROGRAM REQUIREMENTS FOR AVIATION, SPACE AND DEFENSE ORGANIZATIONS TO CONTROL AND ELIMINATE FOD AND/OR CONTAMINATION DURING THE SUPPLIER'S MANUFACTURING, ASSEMBLY, TEST, INSPECTION, PACKAGING AND SHIPPING OPERATIONS

DIGITAL PRODUCT DEFINITION: SUPPLIERS UTILIZING CASCADE GASKET SUPPLIED DIGITAL PRODUCT DEFINITION (DPD) FOR THE PURPOSES OF MANUFACTURING AND/OR INSPECTION OF BOEING PRODUCT MUST HOLD WRITTEN APPROVAL FROM CASCADE GASKET FOR COMPLIANCE TO BOEING D6-51991

APPROVED PROCESS SOURCES: THE SUPPLIER IS REQUIRED TO MAINTAIN COMPLIANCE WITH THIS DOCUMENT AS MAY BE REVISED FROM TIME TO TIME. THIS DOCUMENT DEFINES THE APPROVED SOURCES FOR SPECIAL PROCESSING, COMPOSITE RAW MATERIALS, COMPOSITE PRODUCTS, AIRCRAFT BEARINGS, DESIGNATED FASTENERS, & METALLIC RAW MATERIALS. ALL MANUFACTURING AND INSPECTION PROCESSES WHICH ARE CONTROLLED BY D1-4426 SHALL BE PERFORMED ONLY BY THE SOURCES SPECIFIED IN THE DOCUMENT.

FAA-PARTS MANUFACTURER APPROVAL (PMA): UNLESS EXPLICIT DIRECTION IS GIVEN TO THE CONTRARY, NO ARTICLES (OR CONSTITUENT PARTS THEREOF) ORDERED IN SUPPORT OF BOEING PROGRAMS SHALL CONTAIN ANY FAA-PMA MARKINGS. THE ARTICLES SHALL NOT BE CERTIFIED UNDER AN FAA-PMA APPROVAL AND THE ACCOMPANYING PAPERWORK (I.E. SHIPPERS, ETC.) SHALL NOT CONTAIN ANY FAA-PMA MARKINGS. THE SUPPLIER SHALL FLOW-DOWN THE SUBSTANCE OF THIS CLAUSE TO ALL RELEVANT SUB-TIERS

METALLIC RAW MATERIAL PROCUREMENT: METALLIC RAW MATERIALS USED FOR PRODUCT MUST BE PROCURED FROM BOEING OR A BOEING DESIGNATED SERVICE PROVIDER UNLESS OTHERWISE APPROVED IN WRITING BY CASCADE GASKET. COMMODITIES INCLUDE: ALUMINUM SHEET, PLATE, EXTRUSION AND COIL

Q34 CASCADE GASKET CUSTOMER (BOEING) SPECIFIC REQUIREMENTS

AS WELL AS ALL WROUGHT AND UNWROUGHT TITANIUM MILL PRODUCTS. THIS REQUIREMENT EXCLUDES STAINLESS STEEL MATERIALS.

VALIDATION OF RAW MATERIAL TEST REPORTS: WHEN THE SUPPLIER UTILIZES TEST REPORTS TO ACCEPT SUPPLIER PURCHASED RAW MATERIAL, THE FOLLOWING REQUIREMENTS APPLY: TEST REPORTS SHALL BE CHECKED 100% AGAINST SUPPLIER'S REQUIREMENTS AND APPLICABLE SPECIFICATIONS. VALIDATION TEST REQUIREMENT: SUPPLIER SHALL PERIODICALLY VALIDATE TEST REPORTS FOR RAW MATERIAL ACCEPTED ON THE BASIS OF TEST REPORTS. THAT VALIDATION SHALL BE ACCOMPLISHED BY SUPPLIER OR OTHER INDEPENDENT PARTY THROUGH PERIODIC, SCHEDULED TESTS OF RAW MATERIAL SAMPLES. SCHEDULES FOR FREQUENCY OF TESTS WILL BE ESTABLISHED BY SUPPLIER BASED ON HISTORICAL PERFORMANCE OF THE RAW MATERIAL SUPPLIER. SUPPLIER SHALL RETAIN TEST REPORTS PROVIDED BY THE RAW MATERIAL SUPPLIER, AS WELL AS SUPPLIER'S VALIDATION TEST RESULTS AS QUALITY RECORDS TRACEABLE TO THE CONFORMANCE OF PRODUCT SUPPLIED.

Q35 SUPPLIER PURCHASING DATA REQUIREMENTS X31764

SUPPLIER (SELLER) SHALL COMPLY WITH THE REQUIREMENTS OF FORM X31764 "BOEING QUALITY PURCHASING DATA REQUIREMENTS". TO ENSURE SELLER IS PERFORMING TO THE LATEST BOEING FORM X31764, SELLER SHALL ACCESS THIS FORM BY SELECTING "SUPPLIER QUALITY" FROM THE MENU BAR AND "OTHER QUALITY REQUIREMENTS" OF "DOING BUSINESS WITH BOEING" HOME PAGE LOCATED AT THE FOLLOWING URL ADDRESS: <http://www.boeingsuppliers.com/>. WHEN ENTERING THE URL, USE LOWER CASE LETTERS ONLY. SELLER SHALL BE RESPONSIBLE FOR REGULARLY MONITORING (MINIMUM QUARTERLY) THE URL TO ENSURE THAT SELLER IS IN COMPLIANCE WITH THE LATEST REVISION OF FORM X31764.

FOR PURPOSES OF THIS PO NOTE, "SUPPLY CHAIN" MEANS SELLER'S COMPLETE NETWORK OF MATERIAL, EQUIPMENT, INFORMATION, AND SERVICES INTEGRATED INTO DELIVERABLE PRODUCTS AND SERVICES



CASCADE GASKET & MANUFACTURING COMPANY INC.

Q35 SUPPLIER PURCHASING DATA REQUIREMENTS [X31764](#)

PROVIDED TO SELLER BY SELLER'S DIRECT FIRST TIER SUPPLY CONTRACTS AND SELLER'S SUB-TIER OR LOWER TIER SUPPLY CONTRACTS AS APPLICABLE BASED ON THE PRODUCT REQUIREMENTS BEING PROCURED

APPLIED TERMS & DEFINITIONS

ACCEPTANCE AUTHORITY MEDIA (AAM)

THE MEANS DEFINED BY THE ORGANIZATION TO DOCUMENT THE STATUS OF OUTPUTS WITH RESPECT BUT NOT LIMITED TO CONFORMITY, CONFIGURATION, MONITORING AND MEASUREMENT REQUIREMENTS AND IDENTIFICATION THROUGHOUT PRODUCT LIFE-CYCLE

CUSTOMER

- 1 GENERATOR OF THE PURCHASE ORDER
- 2 THE BUYING ENTITY THAT IS THE ISSUER OF A CONTRACT / PURCHASE ORDER TO A SUB-TIER SUPPLIER

THE ORGANIZATION'S IMMEDIATE CONTRACT SOURCE; THIS MAY BE A PRIME / FIRST-TIER SUPPLIER OR SUBSEQUENT CONTRACTOR IN THE SUPPLY CHAIN WHO FLOWS THIS DOCUMENT TO THEIR SUPPLIERS AS A REQUIREMENT

COUNTERFEIT PARTS

AN UNAUTHORIZED COPY, IMITATION, SUBSTITUTE, OR MODIFIED PART (E.G. MATERIAL, PART, COMPONENT) WHICH IS KNOWINGLY MISREPRESENTED AS A SPECIFIED GENUINE PART OF AN ORIGINAL OR AUTHORIZED MANUFACTURER. NOTE: EXAMPLES OF A COUNTERFEIT PART CAN INCLUDE, BUT ARE NOT LIMITED TO, THE FALSE IDENTIFICATION OF MARKING OR LABELING, GRADE, SERIAL NUMBER, DATE CODE, DOCUMENTATION, OR PERFORMANCE CHARACTERISTICS

SUPPLIER

NOTE: THE TERM SUPPLIER IS SYNONYMOUS WITH CONTRACTOR, PRODUCER, SELLER, OR VENDOR

APPLIED TERMS & DEFINITIONS

- 1 THE FURNISHER OF ARTICLES OR RELATED SERVICES, AT ANY TIER, TO AN APPROVED MANUFACTURER.
- 2 AN ORGANIZATION THAT ENTERS INTO A CONTRACT WITH THE ACQUIRER FOR THE SUPPLY OF A SYSTEM, SOFTWARE PRODUCT OR SOFTWARE SERVICE UNDER THE TERMS OF THE CONTRACT.
- 3 THE ENTITY OR PARTY THAT SUPPLIES PRODUCT OR SERVICES TO A CUSTOMER PER CONTRACT.

SUB-TIER

SUPPLIER NOT WORKING UNDER A DIRECT PURCHASE ORDER FROM THE PRIME CONTRACTOR BUT PERFORMING WORK ON RELATED PRODUCTS AT A LOWER LEVEL IN THE SUPPLY CHAIN (VIA PURCHASE ORDER CASCADE/FLOW-DOWN)

BATCH

A DEFINITIVE QUANTITY OF ITEMS PRODUCED TO THE SAME DESIGN UNDER CONDITIONS THAT ARE CONSIDERED UNIFORM

CALIBRATION

A PROCESS THAT ESTABLISHES, UNDER SPECIFIED CONDITIONS, THE DIFFERENCE BETWEEN VALUES INDICATED BY A MEASURING SYSTEM, AND THE TRUE CORRESPONDING VALUES OF A QUANTITY RELEASED BY A CURRENT REFERENCE STANDARD OR WORKING STANDARD

CERTIFICATE

A DOCUMENT ATTESTING THAT A PARTICULAR PRODUCT/SERVICE/ORGANIZATION CONFORMS TO SPECIFIED REQUIREMENTS]

C OF C CERTIFICATE OF CONFORMITY A DOCUMENT THAT CERTIFIES PRODUCT CONFORMITY TO PROCESS, DESIGN, AND/OR SPECIFICATION REQUIREMENTS; COMMONLY REFERRED TO AS A “CERTIFICATE OF CONFORMANCE”

CRITICAL ITEMS

APPLIED TERMS & DEFINITIONS

THOSE ITEMS (E.G. FUNCTIONS, PARTS, SOFTWARE, CHARACTERISTICS, PROCESSES) HAVING SIGNIFICANT EFFECT ON THE PROVISION AND USE OF THE PRODUCTS AND SERVICES; INCLUDING SAFETY, PERFORMANCE, FORM, FIT, FUNCTION, PRODUCIBILITY, SERVICE LIFE, ETC.; THAT REQUIRES SPECIFIC ACTIONS TO ENSURE THEY ARE ADEQUATELY MANAGED. EXAMPLES OF CRITICAL ITEMS INCLUDE SAFETY CRITICAL ITEMS, FRACTURE CRITICAL ITEMS, MISSION CRITICAL ITEMS, KEY CHARACTERISTICS ETC.

DEFECT

- 1 NON-FULFILLMENT OF A REQUIREMENT RELATED TO AN INTENDED OR A SPECIFIED USE. A DEPARTURE OF A QUALITY CHARACTERISTIC FROM ITS INTENDED LEVEL OR STATE THAT OCCURS WITH A SEVERITY SUFFICIENT TO CAUSE AN ASSOCIATED PRODUCT OR SERVICE NOT TO SATISFY INTENDED NORMAL, OR FORESEEABLE, USAGE REQUIREMENTS
- 2 NON-CONFORMITY RELATED TO AN INTEGRATED OR SPECIFIC USE

NOTE: THE DISTINCTION BETWEEN THE CONCEPTS DEFECT AND NONCONFORMITY IS IMPORTANT AS IT HAS LEGAL CONNOTATIONS, PARTICULARLY THOSE ASSOCIATED WITH PRODUCT LIABILITY ISSUES. CONSEQUENTLY, THE TERM “DEFECT” SHOULD BE USED WITH EXTREME CAUTION

DPAS _DEFENSE PRIORITIES AND ALLOCATIONS

NOTE: THE PURPOSE OF DPAS IS TO ASSURE THE TIMELY AVAILABILITY OF INDUSTRIAL RESOURCES TO MEET CURRENT NATIONAL DEFENSE AND EMERGENCY PREPAREDNESS PROGRAM REQUIREMENTS AND TO PROVIDE AN OPERATING SYSTEM TO SUPPORT RAPID INDUSTRIAL RESPONSE IN A NATIONAL EMERGENCY

DATASETS

INFORMATION PREPARED AND MAINTAINED BY ELECTRONIC MEANS AND PROVIDED BY ELECTRONIC DATA ACCESS, INTERCHANGE, TRANSFER OR ELECTRONIC MEDIA

DPD _ DIGITAL PRODUCT DEFINITION

THE ELECTRONIC DATA ELEMENTS THAT SPECIFY THE 3D COMPUTER AIDED DESIGN (CAD) GEOMETRY AND ALL DESIGN REQUIREMENTS FOR A PRODUCT (INCLUDING NOTATION AND PARTS LISTS) AND THE USE OF

APPLIED TERMS & DEFINITIONS

THIS DATA THROUGHOUT AN INTEGRATED CAD/COMPUTER AIDED MANUFACTURING (CAM) AND COORDINATE MEASUREMENT SYSTEMS (CMS)

MBD _ MODEL BASED DEFINITION

A DATASET CONTAINING THE EXACT SOLID, IT'S ASSOCIATED 3D GEOMETRY AND 3D ANNOTATION OF THE PRODUCT'S DIMENSIONS AND TOLERANCES (AND MAY INCLUDE PARTS LIST, NOTES LIST ETC.). THIS DATASET DOES NOT CONTAIN A CONVENTIONAL 2D DRAWING. MBD IS ONE POSSIBLE FORMAT OF DPD

EXPORT ADMINISTRATION REGULATION _ EAR

JURISDICTION: BUREAU OF INDUSTRY AND SECURITY

INTERNATIONAL TRAFFIC IN ARMS REGULATIONS _ ITAR

JURISDICTION: DIRECTORATIE OF DEFENSE AND TRADE

THE INTERNATIONAL TRAFFIC IN ARMS REGULATIONS (ITAR) AND THE EXPORT COMPLIANCE ADMINISTRATION (EAR) ARE TWO IMPORTANT UNITED STATES EXPORT CONTROL LAWS THAT AFFECT THE MANUFACTURING, SALES AND DISTRIBUTION OF TECHNOLOGY. THE LEGISLATION SEEKS TO CONTROL ACCESS TO SPECIFIC TYPES OF TECHNOLOGY AND THE ASSOCIATED DATA

ELECTRONIC SIGNATURE

SYMBOLS OR CHARACTERISTIC MARK OR IMPRESSION PHYSICAL DEVICE OR ARTIFACT USED TO IMPRINT OR PRESS AN IMAGE. STAMPS SHOULD BE UNIQUE IN TYPE OR SHAPE FOR EACH SPECIFIC ACTIVITY AND SHOULD HAVE UNIQUE IDENTIFICATION FOR EACH INDIVIDUAL.

FAI _ FIRST ARTICLE INSPECTION (AS9102)

A COMPLETE, INDEPENDENT, AND DOCUMENTED PHYSICAL AND FUNCTIONAL INSPECTION PROCESS TO VERIFY THAT PRESCRIBED PRODUCTION METHODS HAVE PRODUCED AN ACCEPTABLE ITEM AS SPECIFIED BY ENGINEERING DRAWINGS, PLANNING, PURCHASE ORDER, ENGINEERING SPECIFICATIONS, AND/OR OTHER APPLICABLE DESIGN DOCUMENTS

FAIR _ FIRST ARTICLE INSPECTION REPORT

- 1 THE FORMS AND PACKAGE OF DOCUMENTATION FOR A PART NUMBER OR ASSEMBLY, INCLUDING FAI RESULTS, AS PER THIS STANDARD.

APPLIED TERMS & DEFINITIONS

- 2 FAI RESULTS FOR A PART OR ASSEMBLY, INCLUDING THE COMPLETED FORMS AND DOCUMENTATION.

FIRST PRODUCTION RUN

THE FIRST PRODUCTION RUN IS THE FIRST GROUP OF ONE OR MORE PARTS THAT ARE THE RESULT OF A PLANNED PROCESS DESIGNED TO BE USED FOR FUTURE PRODUCTION OF THESE SAME PARTS. THE FIRST PRODUCTION DELIVERY PARTS REQUIRE AN FAI. DEVELOPMENT AND PROTOTYPE PARTS THAT ARE NOT INTENDED FOR PRODUCTION USE ARE NOT CONSIDERED AS PART OF THE FIRST PRODUCTION RUN.

HUMAN FACTORS

HUMAN FACTORS IS A DISCIPLINE THAT EXPLAINS THE UNDERLYING REASONS FOR HUMAN ERRORS. IT APPLIES HUMAN CAPABILITIES, LIMITATIONS, AND BEHAVIOR RELEVANT TO THE DESIGN OF TOOLS, MACHINES, PROCESS, SYSTEMS, TASKS, JOBS, AND ENVIRONMENTS FOR THE PURPOSE OF INCREASING HUMAN PERFORMANCE, PERSONNEL SITUATIONAL AWARENESS AND ORGANIZATIONAL AWARENESS TO ELIMINATE WHERE POSSIBLE, AND TO REDUCE THE RISK FOR HUMAN ERROR IN SAFE, EFFICIENT, AND COST-EFFECTIVE OPERATIONS.

KEY CHARACTERISTIC

AN ATTRIBUTE OR FEATURE WHOSE VARIATION HAS A SIGNIFICANT EFFECT ON PRODUCT FIT, FORM, FUNCTION, PERFORMANCE, SERVICE LIFE, OR PRODUCIBILITY, THAT REQUIRES SPECIFIC ACTIONS FOR THE PURPOSE OF CONTROLLING VARIATION

LOT

- 1 A DEFINED QUANTITY OF SOME PRODUCT, MATERIAL, OR SERVICE COLLECTED AND SUBMITTED FOR ACCEPTANCE TOGETHER. IT MAY OR MAY NOT BE THE SAME AS THE DEFINITION OF A LOT FOR PURPOSES OF A CONTRACT, SHIPMENT, OR ANYTHING OTHER THAN ACCEPTANCE.
- 2 A DEFINITE QUANTITY OF SOME PRODUCT PRODUCED UNDER CONDITIONS THAT ARE CONSIDERED UNIFORM.

LOT FORMATION

APPLIED TERMS & DEFINITIONS

THE PROCESS OF COLLECTING, SEGREGATING, OR DELINEATING PRODUCTION UNITS INTO HOMOGENOUS, IDENTIFIABLE GROUPS ACCORDING TO TYPE, GRADE, CLASS SIZE, COMPOSITION, AND/OR CONDITION OF MANUFACTURE

LOT NUMBER

A NUMBER ASSOCIATED WITH A PRODUCTION BATCH IN ORDER TO ALLOW TRACEABILITY

MAINTAINABILITY

THE PROPORTION OF TIME THAT A SYSTEM OR COMPONENT IS ACCESSIBLE AND OPERATIONALLY READY FOR USE

MANUFACTURERS CERTIFICATE

A DOCUMENT ISSUED BY THE PRODUCT MANUFACTURER THAT CERTIFIES PRODUCT CONFORMANCE TO PROCESS, DESIGN, AND/OR SPECIFICATION REQUIREMENTS. ALSO KNOWN AS A "CERTIFICATE OF CONFORMITY" OR EASA FORM 1 OR FAA FORM 8130

MANUFACTURING CODE

A CODE USED DURING THE MANUFACTURING PROCESS OF A PRODUCT TO ALLOW ITS TRACEABILITY. MAY ALSO BE KNOWN AS A "SERIAL" OR "BATCH, LOT" NUMBER OR "DATE CODE"

MATERIAL

A RAW, SEMI-FINISHED OR FINISHED PURCHASED ITEM (GASEOUS, LIQUID, SOLID ETC.) OF GIVEN CHARACTERISTICS FROM WHICH PROCESSING INTO A FUNCTIONAL ELEMENT OF THE PRODUCT IS UNDERTAKEN

MATERIEL

EQUIPMENT AND SUPPLIES AND/OR RESOURCES USED IN MILITARY OR COMMERCIAL SUPPLY-CHAIN MANAGEMENT

NONCONFORMITY

- 1 THE ABSENCE OF, OR THE FAILURE TO IMPLEMENT AND MAINTAIN, ONE OR MORE QUALITY MANAGEMENT SYSTEM REQUIREMENTS, OR A SITUATION THAT WOULD ON THE BASIS OF AVAILABLE

APPLIED TERMS & DEFINITIONS

OBJECTIVE EVIDENCE, RAISE SIGNIFICANT DOUBT AS TO THE QUALITY OF WHAT THE ORGANIZATION IS SUPPLYING

- 2 THE NONFULFILLMENT OF A REQUIREMENT THAT IS STATED, GENERALLY IMPLIED, OR OBLIGATORY
- 3 A SPECIFIC OCCURRENCE OF A CONDITION THAT DOES NOT CONFORM TO A SPECIFICATION OR OTHER INSPECTION STANDARD
- 4 NONFULFILLMENT OF A REQUIREMENT

PRODUCT SAFETY

THE STATE IN WHICH A PRODUCT IS ABLE TO PERFORM TO ITS DESIGNED OR INTENDED PURPOSE WITHOUT CAUSING UNACCEPTABLE RISK OR HARM TO PERSONS OR DAMAGE TO PROPERTY

SHALL

- 1 INDICATES MANDATORY REQUIREMENTS
- 2 INDICATES A REQUIRED ACTION, CONTENT OR PATH, WITH MANDATORY APPLICATION

SHELF LIFE

- 1 A PREDETERMINED PERIOD OF TIME THAT A MATERIAL OR ITEM RETAINS ITS ORIGINAL CHARACTERISTICS AND OPERATIONAL CAPACITY AND IS FURTHER DEFINED TO ENCOMPASS THE DATE OF EXPIRATION (DOE) AND THE TIME SPAN FROM DATE OF MANUFACTURE (DOM), DATE OF SHIPMENT (DOS), DATE OF RECEIPT (DOR) OR CURE DATE TO THE INSTALLATION OR APPLICATION DATE
- 2 LENGTH OF TIME A PRODUCT MAY BE STORED WITHOUT BECOMING UNSUITABLE FOR USE OR CONSUMPTION

SPECIAL PROCESS

APPLIED TERMS & DEFINITIONS

SPECIAL PROCESSES ARE THOSE THAT CANNOT BE VERIFIED AFTER THE PROCESS WITHOUT DESTRUCTIVE TESTING. A SPECIAL PROCESS IS WHICH GENERATES PRODUCTS OR SERVICES WHICH CANNOT BE MEASURED, MONITORED, OR VERIFIED PRIOR TO DELIVERY AND USE

SPECIAL REQUIREMENTS

THOSE REQUIREMENTS IDENTIFIED BY THE CUSTOMER, OR DETERMINED BY THE ORGANIZATION, WHICH HAVE HIGH RISK FACTORS OF NOT BEING MET, THUS REQUIRING THEIR INCLUSION IN THE OPERATIONAL RISK MANAGEMENT PROCESS. FACTORS USED IN THE DETERMINATION OF SPECIAL REQUIREMENTS INCLUDE PRODUCT OR PROCESS COMPLEXITY, PAST EXPERIENCE, AND PRODUCT OR PROCESS MATURITY. EXAMPLES OF SPECIAL REQUIREMENTS INCLUDE PROCESS COMPLEXITY, PAST EXPERIENCE, AND PRODUCT OR PROCESS MATURITY. EXAMPLES OF SPECIAL REQUIREMENTS INCLUDE PERFORMANCE REQUIREMENTS IMPOSED BY THE CUSTOMER THAT ARE AT THE LIMIT OF THE INDUSTRY'S CAPABILITY, OR REQUIREMENTS DETERMINED BY THE ORGANIZATION TO BE AT THE LIMIT OF ITS TECHNICAL OR PROCESS CAPABILITIES

SPECIAL TOOLING

TOOLS OF SUCH SPECIALIZED NATURE THAT WITHOUT MODIFICATION OR ALTERNATION, THEIR USE IS LIMITED TO THE DEVELOPMENT AND/OR MANUFACTURING PRODUCTION PARTS AND ASSEMBLIES. EXAMPLES INCLUDE JIGS, FIXTURES, MOLDS, PATTERNS AND GAGES

STAMP

IDENTIFYING OR CHARACTERISTIC MARK OR IMPRESSION PHYSICAL DEVICE OR ARTIFACT USED TO IMPRINT OR PRESS AN IMAGE. STAMPS SHOULD BE UNIQUE

TEST REPORT

OBJECTIVE EVIDENCE PROVIDED BY EITHER THE MANUFACTURER OR A CERTIFIED TESTING FACILITY THAT THE PRODUCT CONFORMS WITH SPECIFIC DESIGN REQUIREMENTS AND/OR PROPERTIES

UNIT

EITHER A SINGLE PART OR A LOT WITH SMALL QUANTITY OF PARTS FROM A HOMOGENEOUS PROCESS.

USEABILITY

APPLIED TERMS & DEFINITIONS

MULTI-DIMENSIONAL ATTRIBUTE THAT RELATES TO THE IMPACT A PRODUCT HAS ON ITS END-USERS. IN GENERAL IT REFERS TO THE EFFICIENCY WITH WHICH A CUSTOMER CAN DO THEIR TASKS WITH THE PRODUCT, AND THEIR OVERALL SATISFACTION WITH THAT PRODUCT.

VALIDATION

- 1 CONFIRMATION BY EXAMINATION AND PROVISION OF OBJECTIVE EVIDENCE THAT THE PARTICULAR REQUIREMENTS FOR A SPECIFIC INTENDED USE ARE FULFILLED
- 2 CONFIRMATION, THROUGH THE PROVISION OF OBJECTIVE EVIDENCE, THAT THE REQUIREMENTS FOR A SPECIFIC INTENDED USE OR APPLICATION HAVE BEEN FULFILLED

VERIFICATION

- 1 CONFIRMATION BY EXAMINATION AND PROVISION OF OBJECTIVE EVIDENCE THAT SPECIFIED REQUIREMENTS HAVE BEEN
- 2 CONFIRMATION THROUGH THE PROVISION OF OBJECTIVE EVIDENCE THAT SPECIFIED REQUIREMENTS HAVE BEEN FULFILLED.
- 3 PROCESSES OF EVALUATION TO ASSURE INPUT REQUIREMENTS ARE ACHIEVED AT THE END OF A DEVELOPMENT STAGE. VERIFICATION CAN OCCUR AT VARIOUS TIMES DURING A SOFTWARE PROCESS. VERIFICATION INCLUDES REVIEW, ANALYSIS, INSPECTION, AND TEST
- 4 CONFIRMATION, THROUGH THE PROVISION OF OBJECTIVE EVIDENCE, THAT SPECIFIED REQUIREMENTS HAVE BEEN FULFILLED