



Quality Codes:

The codes below preceded with letters are applicable to all purchases and as such will not be individually specified on the Purchase Order.

A. RIGHT OF ENTRY

THE SUPPLIER SHALL GRANT REASONABLE ACCESS TO SUPPLIER'S FACILITIES TO REPRESENTATIVES OF TR ENTERPRISES, TR ENTERPRISES' CUSTOMERS, US GOVERNMENT AND/OR REGULATORY AGENCIES FOR THE PURPOSE OF EVALUATING SUPPLIER'S CONFORMANCE TO ALL CONTRACT REQUIREMENTS. WHEN APPLICABLE, THE ACCESS REQUIREMENT SHALL BE FLOWED DOWN BY SUPPLIER TO SUPPLIER'S SUB-TIER SOURCES.

B. PACKAGING

UNLESS OTHERWISE SPECIFIED BY THE ITEM DRAWING, SPECIFICATION, OR PURCHASE ORDER, THE SELLER 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 TYPE OF HANDLING INVOLVED. UNIT AND INTERMEDIATE PACKAGING SHALL BE EMPLOYED AS NECESSARY TO PREVENT DAMAGE OR DETERIORATION.

C. SUPPLIER CORRECTIVE ACTION

SELLER SHALL, ON REQUEST, ON FORMS DESIGNATED BY TR ENTERPRISES, PROVIDE STATEMENTS OF CORRECTIVE ACTION ON FAILURES OF THE SELLER'S HARDWARE OR QUALITY SYSTEM. SELLER IS RESPONSIBLE FOR ROOT CAUSE INVESTIGATION TO DETERMINE WHAT HAPPENED TO CAUSE THE NONCONFORMING CONDITION AND FOR STEPS TO ENSURE ELIMINATION OF THE CAUSE TO PREVENT THE USE OF COUNTERFEIT PARTS AND PREVENT THEIR RELEASE TO THE SUPPLY CHAIN AS WELL AS PREVENTING FUTURE FAILURES. REQUESTS FOR SUPPLIER CORRECTIVE ACTIONS WILL BE ISSUED TO THE SELLER BY THE QUALITY MANAGER. NOTE: THE SELLER MUST COMPLETE AND RETURN THESE REQUESTS TO TR ENTERPRISES WITHIN TEN (10) WORKING DAYS.

D. REPORT OF DISCREPANCY

ANY DEPARTURE FROM DRAWING SPECIFICATIONS OR OTHER PURCHASE ORDER REQUIREMENTS MUST BE DOCUMENTED BY THE SELLER AND SUBMITTED TO THE TR ENTERPRISES BUYER FOR CONSIDERATION AND DISPOSITION. A COPY OF THIS DISPOSITION DOCUMENT MUST ACCOMPANY EACH AFFECTED SHIPMENT. A COPY OF THE REQUEST FOR DEVIATION OR WAIVER AND AUTHORIZATION TO USE EQUIVALENT ITEMS MUST ACCOMPANY EACH AFFECTED SHIPMENT TO TR ENTERPRISES,

E. WORKMANSHIP

THE PRODUCT SHALL BE UNIFORM IN QUALITY AND CONDITION, SOUND, AND FREE FROM FOREIGN MATERIALS AND FROM IMPERFECTIONS DETRIMENTAL TO THE USAGE OF THE PRODUCT. SELLAR SHALL ENSURE THEIR PERSONNEL ARE AWARE OF THE CONTRIBUTION TO PRODUCT CONFORMITY, PRODUCT SAFETY, AND THE IMPORTANCE OF ETHICAL BEHAVIOR.

F. CHANGE APPROVALS



THE SUPPLIER SHALL MAKE NO CHANGES TO MATERIALS, PROCESSES, OR CONTROL FACTORS FROM THOSE OF WHICH APPROVAL WAS BASED, UNLESS THE CHANGES ARE APPROVED BY TR ENTERPRISES'. A SIGNIFICANT CHANGE IS ONE WHICH, IN THE JUDGEMENT OF TR ENTERPRISES, COULD AFFECT THE PROPERTIES, QUALITY, DURABILITY OR PERFORMANCE, OR COULD AFFECT SUBSEQUENT PROCESSING OF THE PART OR COMPONENT. THE SUPPLIER MUST NOTIFY TR ENTERPRISES QUALITY ASSURANCE OF CHANGES IN PRODUCT AND/OR PROCESS DEFINITION, AND WHERE REQUIRED, OBTAIN BUYER APPROVAL.

G. REJECTIONS

PARTS OR COMPONENTS WHICH DO NOT CONFORM TO ALL APPLICABLE DRAWINGS, SPECIFICATIONS, AND TR ENTERPRISES DOCUMENTS, OR MODIFICATIONS AUTHORIZED BY TR ENTERPRISES WILL BE SUBJECT TO REJECTION.

H. DATA RETENTION

ALL RECORDS REQUIRED TO BE GENERATED BY THE PURCHASE ORDER, CONTRACT OR ANY OTHER PURCHASER SPECIFICATIONS MUST BE RETAINED BY THE SUBCONTRACTOR OR SUPPLIER FOR A MINIMUM OF 7 YEARS FROM THE DATE OF ACCEPTANCE BY TR ENTERPRISES. UNLESS NOTIFIED PRIOR TO THAT TIME THE SUBCONTRACTOR OR SUPPLIER SHALL CONTACT TR ENTERPRISES FOR DISPOSITION ACTION TO BE TAKEN AT THE END OF THE 10 YEAR PERIOD. ALL RECORDS REGARDING THE ITEMS PURCHASED BY TR ENTERPRISES ON THIS PURCHASE ORDER MUST BE MAINTAINED IN THE ENGLISH LANGUAGE.

I. GOVERNING DOCUMENT HIERARCHY

THE PRECEDENCE OF THE SPECIFICATIONS AND REQUIREMENTS PERTAINING TO THE ITEMS CONTAINED IN THE TR ENTERPRISES PURCHASE ORDER IS:

1. PURCHASE ORDER/AMENDED PURCHASE ORDER
2. ENGINEERING DRAWING
3. NATIONAL STANDARD SPECIFICATIONS.

J. FOREIGN OBJECT DAMAGE

SELLER SHALL ENSURE WORK IS ACCOMPLISHED IN A MANNER PREVENTING FOREIGN OBJECTS OR MATERIAL IN DELIVERABLE ITEMS. SELLER SHALL DOCUMENT AND INVESTIGATE EACH FOD INCIDENT AND ENSURE ELIMINATION OF THE ROOT CAUSE OF EACH SUCH INCIDENT.

K. SUPPLIER DEVIATIONS / WAIVERS

DELEGATION OF MATERIAL REVIEW BOARD AUTHORITY BY TR ENTERPRISES TO ITS SUBCONTRACTORS IS NOT PERMITTED. REQUESTS FOR DEVIATIONS/ WAIVERS MUST BE SUBMITTED FOR APPROVAL BY THE TR ENTERPRISES BUYER. WHEN ENGINEERING, QUALITY, AND PURCHASING HAVE APPROVED AN SD/WR, THE SUPPLIER SHALL ENCLOSE A COPY OF THE APPROVED REQUEST WITH EACH SHIPMENT OF THE AFFECTED PRODUCT. IF THE QUANTITY BEING SHIPPED EXCEEDS THE QUANTITY ACCEPTED ON THE WAIVER, THE AFFECTED PARTS MUST BE TAGGED AND SEGREGATED FROM THE REST OF THE PARTS.



L. SIGNIFICANT CHANGES TO YOUR PROCESS

YOU MUST NOTIFY TR ENTERPRISES OF ANY INTENDED SIGNIFICANT CHANGES TO YOUR PROCESS IF CHANGES AFFECT FORM, FIT OR FUNCTION OF THE ORDERED PRODUCT. YOU MUST OBTAIN OUR APPROVAL PRIOR TO IMPLEMENTATION. YOU MUST ALSO MAKE THIS A CONDITION TO YOUR ENTIRE SUPPLY CHAIN. SAMPLES AND DOCUMENTATION MAY BE REQUIRED AS DETERMINED BY TR ENTERPRISES AS PART OF THE APPROVAL PROCESS.

M. CUSTOMER APPROVED PROCESSORS

USE OF CURRENT TR ENTERPRISES CUSTOMER APPROVED SUPPLIERS IS REQUIRED. THE NAME OF THE TR ENTERPRISES CUSTOMER WILL BE IDENTIFIED ON THE FACE OF THE PURCHASE ORDER (I.E. BOEING, LOCKHEED, CESSNA, BOMBARDIER, SIKORSKY, ETC).

N. CERTIFICATE OF COMPLIANCE

THE SUPPLIER SHALL SUBMIT WITH EACH SHIPMENT. A CERTIFICATE OF COMPLIANCE, STATING THAT PRODUCTS SHIPPED AGAINST THIS PURCHASE ORDER IS IN COMPLIANCE WITH ALL REQUIREMENTS AND REFERENCED SPECIFICATIONS. THE CERTIFICATION SHALL INCLUDE PURCHASE ORDER NUMBER, PART NUMBER (INCLUDING REVISION LEVEL) AND MUST INCLUDE THE IDENTIFICATION (SIGNATURE, ELECTRONIC SIGNATURE, STAMP, ETC.), OF THE PERSON AUTHORIZING THE RELEASE OF THE PRODUCT. WHEN THE SUPPLIER IS NOT THE MANUFACTURER, THE MANUFACTURER'S CERTIFICATE OF COMPLIANCE IS REQUIRED.

The codes below preceded with numbers are supplier type specific and as such will be printed as special requirements on each Purchase Order.

Supplier compliance to these Quality Codes is required in addition to the letter codes specified above.

01 QUALITY SYSTEM SURVEILLANCE

THE SUPPLIER'S "QUALITY MANAGEMENT SYSTEM" SHALL BE SUBJECT TO SURVEILLANCE BY TR ENTERPRISES COMPONENTS OR THEIR CUSTOMERS.

02 RAW MATERIAL/HARDWARE DISTRIBUTOR (METALS, PLASTICS AND HARDWARE)

CERTIFIED TEST REPORT – CHEM/MECH PROP: SUBMIT MATERIAL TEST REPORT WITH EACH SHIPMENT. INCLUDE ACTUAL RESULTS OF ALL CHEMICAL ANALYSES, MECHANICAL PROPERTY TESTS, AND MECHANICAL TESTING AND ANY OTHER INFORMATION REQUIRED BY THE APPLICABLE SPECIFICATION FOR EACH HEAT OR LOT OF MATERIAL. YOU MUST SUBMIT TEST REPORTS FROM THE ORIGINAL PRODUCER OF THE MATERIAL. CERTIFICATIONS MUST SPECIFY THE COUNTRY OF ORIGIN OF THE MATERIAL AND ANY COUNTRY WHERE RE-MELTING OCCURRED. A CHAIN OF CUSTODY (TRACEABILITY) OF MATERIAL FROM THE ORIGINAL MILL, TO EACH TIME THE MATERIAL WAS SOLD, UP TO DELIVERY TO TR ENTERPRISES MUST BE MAINTAINED AND THIS INFORMATION IS TO BE INCLUDED WITH SHIPMENT TO TR ENTERPRISES. IF THE MATERIAL IS TO BE IN ACCORDANCE WITH A TR ENTERPRISES CUSTOMER CONTROLLED SPECIFICATION, THE ACCEPTANCE CRITERIA CONTAINED IN THAT DOCUMENT SHALL APPLY.



ALL REQUIREMENTS SPECIFIED IN THE TR ENTERPRISES COMPONENTS PURCHASE ORDER MUST BE FLOWED DOWN TO THE ORIGINAL SUPPLIER. CERTIFIED TEST DATA SHEETS FROM THE ORIGINAL SOURCE MUST REFERENCE THE TR ENTERPRISES COMPONENTS PURCHASE ORDER NUMBER AND ALSO PROVIDE EVIDENCE THAT THE TEST DATA HAS BEEN VERIFIED TO ALL STANDARDS REFERENCED ON THE TR ENTERPRISES COMPONENTS PURCHASE ORDER.

THE ORIGINAL MANUFACTURER'S C OF C AS WELL AS THE SELLERS C OF C MUST BE ENCLOSED WITH EVERY SHIPMENT.

02A CERTIFIED TEST DATA SHEETS FROM THE ORIGINAL SOURCE MUST REFERENCE THE TR ENTERPRISES COMPONENTS PURCHASE ORDER NUMBER AND ALSO PROVIDE EVIDENCE THAT THE TEST DATA HAS BEEN VERIFIED TO ALL STANDARDS REFERENCED ON THE TR ENTERPRISES COMPONENTS PURCHASE ORDER.

SUBMIT MATERIAL TEST REPORT WITH EACH SHIPMENT. INCLUDE ACTUAL RESULTS OF ALL CHEMICAL ANALYSES, MECHANICAL PROPERTY TESTS, AND MECHANICAL TESTING AND ANY OTHER INFORMATION REQUIRED BY THE APPLICABLE SPECIFICATION FOR EACH HEAT OR LOT OF MATERIAL.

03 MATERIAL SAFETY DATA SHEETS

SELLER/SUPPLIER SHALL SUPPLY, WITH THE MATERIAL ORDERED, THE MOST RECENT COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) AS PUBLISHED BY THE ORIGINAL MATERIAL MANUFACTURER. LEGIBLE COPIES OF THE MSDS MUST BE ATTACHED TO THE MATERIAL.

04 IDENTIFICATION

04A PARTS, ASSEMBLIES, AND COMPONENTS SHALL BE IDENTIFIED AS SPECIFIED ON THE PURCHASE ORDER. WHEN ITEMS ARE TOO SMALL TO EASILY IDENTIFY, THEY MAY BE BAGGED AND TAGGED.

04B RAW MATERIALS, INCLUDING; ALUMINUM, STEEL, TITANIUM, COPPER, BRASS, ETC. RAW MATERIAL SHAPES INCLUDE; SHEET, PLATE, BAR, ROD, TUBE AND EXTRUSIONS. EACH SHIPPED UNIT SHALL BE IDENTIFIED BY CONTINUOUS STENCILING, OF SUFFICIENT SIZE TO BE READILY LEGIBLE, NON-INJUROUS TO METAL SURFACES AND NOT SOLUABLE. THE CONTINUOUS MARKING SPACING BETWEEN GROUPS OF STENCILING SHALL NOT EXCEED (18) EIGHTEEN INCHES. THE MARKING SHALL CONSIST OF THE MATERIAL TYPE OR DESIGNATION, MATERIAL SPEC AND TEMPER.

04C RAW MATERIALS, INCLUDING; PLASTICS, PHENOLIC, NYLON, ETC. SHAPES INCLUDE SHEET, BAR, ROD, PLATE AND TUBE. EACH SHIPPED UNIT SHALL BE IDENTIFIED BY CONTINUOUS STENCILING PREFERABLY.

IF STENCILING IS NOT POSSIBLE, THE USE OF LABELS IS PERMISSIBLE.

05 SHELF LIFE AND TEMPERATURE SENSITIVE MATERIALS

THE SELLER SHALL IDENTIFY ALL MATERIALS AND ARTICLES THAT HAVE DEFINITE CHARACTERISTICS OF QUALITY DEGRADATION WITH AGE OR ENVIRONMENT. THE SELLER SHALL AFFIX THIS INFORMATION DIRECTLY ON THE MATERIAL CONTAINER OR ARTICLE. THIS IDENTIFICATION SHALL INDICATE THE DATE USEFUL LIFE WAS INITIATED AND THE DATE OR CYCLE AT WHICH THE USEFUL LIFE WILL BE EXPENDED. WHEN ENVIRONMENT IS A FACTOR IN DETERMINING USEFUL LIFE, THE INDICATION SHALL INCLUDE THE



STORAGE CONDITIONS (I.E. TEMPERATURE, HUMIDITY, ETC.), REQUIRED TO ACHIEVE THE STATED LIFE. AS A MINIMUM, EXPIRATION DATES FOR STORAGE CONDITIONS OF 40 & 0 DEGREES (Celsius) WILL BE DOCUMENTED ON THE SUPPLIER CERTIFICATE OF CONFORMANCE.

06 TRACEABILITY/LOT AND BATCH CONTROL

THE SELLER MUST MAINTAIN LOT AND BATCH CONTROL ON RAW MATERIALS FOR ITEMS PURCHASED. THE SELLER MUST PROVIDE POSITIVE TRACEABILITY OF MANUFACTURED PARTS AND ASSEMBLIES TO RAW MATERIALS THROUGH THE USE OF LOT/BATCH OR SERIAL NUMBERS.

SHIPMENT DOCUMENT: SHIPPING DOCUMENTS SHALL IDENTIFY THE LOT/BATCH OR SERIAL NUMBER, AS APPLICABLE, FOR ALL ITEMS IN THE SHIPMENT.

07 PROCESS CERTIFICATION

THE SUPPLIER SHALL FURNISH WITH EACH SHIPMENT, A COPY OF THE PROCESS CERTIFICATION FOR MATERIALS REQUIRING ANY OF THE FOLLOWING FINISH, TESTS OR INSPECTION PROCESSES (SEE P.O. FOR SPECIFIC REQUIREMENTS):

- ALODINE
- ANODIZE
- CALIBRATION
- CADMIUM
- CHEMICAL ANALYSIS
- CHROME
- EDDY CURRENT
- HEAT TREAT
- MAGNETIC PARTICLE
- PASSIVATION
- PRIMER
- RADIOGRAPHIC
- TENSILE STRENGTH
- TOPCOAT
- WELDING

THESE CERTIFICATES MUST INCLUDE ALL PROCESSES WHICH WERE PERFORMED AND REFERENCE ALL APPLICABLE SPECS ASSOCIATED WITH EACH PROCESS.

08 FIRST ARTICLE INSPECTION (FAI) REQUIRED:



Suppliers are required to perform first article inspection (FAI) and include a first article inspection report (FAIR) with every shipment.

A FAIR which is compliant with AS9102 is preferred but not necessary as long as the following information is contained on the report;

- part number and revision
- part description
- supplier reference number
- customer name (TR Enterprises)
- TR Enterprises P.O. number

This report must contain all drawing attributes and the resulting measurements taken by the supplier for each of the drawing dimensions.

Supplier Types:

Quality codes are specific to each supplier type. These codes will be printed onto each purchase order. Using the table select the quality codes that apply to appropriate supplier type.

Supplier Code	Description (Supplier Type)	GL #	Quality Codes
A	HEAT TREAT	51500	04-07
E	OUTSIDE VENDOR	51500	04;06-08
J	RAW MATERIAL (INV)	51200	01-04
M	RAW MATERIAL (MILL OR FOUNDRY)	51200	02-04
P	MATERIAL PROCESSING	51500	04-07
R	PAINT, CHEMICALS	51500	03-05
T	OUTSIDE TESTING	51500	04-07
W	WELDING	51500	04-07
X	HARDWARE	51500	01-04