

(A) GENERAL:

(A.1) THE U.S. GOVERNMENT IS THE END USER.

(A.2) DURING PERFORMANCE OF THIS ORDER, YOUR QUALITY CONTROL SYSTEMS AND MANUFACTURING PROCESS ARE SUBJECT TO REVIEW, VERIFICATION, ANALYSIS, AND APPROVAL BY TCT, AND AUTHORIZED GOVERNMENT AND FAA REPRESENTATIVES.

(A.3) TCT, THE U.S. GOVERNMENT, AND THE FAA SHALL BE AFFORDED THE RIGHT TO VERIFY AT THE SUPPLIER'S PREMISES ANY INFORMATION RELATING TO THE MANUFACTURE, PROCUREMENT, TESTING, AND/OR INSPECTION OF PRODUCT REQUIRED FOR THE PERFORMANCE OF THIS ORDER.

(A.4) SUPPLIER IS RESPONSIBLE FOR COMPLYING WITH ALL OF THE REQUIREMENTS OF THIS PURCHASE ORDER INCLUDING PROVIDING COMPLETE AND PROPER DOCUMENTATION WITH EACH SHIPMENT OF PRODUCT. IF THE REQUIRED DOCUMENTATION IS INCOMPLETE OR INCORRECT, THE SUPPLIER'S ACCOUNT MAY BE DEBITED \$200.00 PER OCCURRENCE.

(A.5) SUPPLIER IS SUBJECT TO ALL TERMS AND CONDITIONS SPECIFIED ON THE REVERSE SIDE OF THIS PURCHASE ORDER.

(A.6) THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH TURBOCOMBUSTOR TECHNOLOGY, INC (TCT), THE U.S. GOVERNMENT, AND/OR A THIRD PARTY (I.E. P&W) AND SHALL NOT BE DUPLICATED, USED, OR DISCLOSED TO REPRODUCE ARTICLES OR SUBJECT MATTER COVERED THEREIN WITHOUT WRITTEN PERMISSION OF TCT. BY ACCEPTANCE OF THIS P.O., THE SUPPLIER AGREES TO AFFIX THIS STATEMENT TO ANY DUPLICATION THEREOF IN WHOLE OR IN PART.

(A.7) UNLESS OTHERWISE STATED, ALL QUANTITIES STATED HEREIN ARE ESTIMATED QUANTITIES ONLY. TCT'S ACTUAL REQUIREMENTS MAY IN FACT BE LESS THAN THE AMOUNTS LISTED AS "MAXIMUM" OR "TOTAL". THE FACT THAT NO RELEASES ARE MADE, OR THAT THE RELEASES MADE ARE LESS THAN THE ESTIMATED QUANTITIES, WILL NOT SERVE AS A BASIS FOR AN EQUITABLE ADJUSTMENT UNDER THE "CHANGE" CLAUSE OR ANY TERMINATION CLAUSE. TCT MAKES NO GUARANTEE, WARRANTY, OR ANY OTHER REPRESENTATION THAT ANY OF THE QUANTITIES STATED IN THIS AGREEMENT WILL IN FACT BE REQUIRED. ANY COST SELLER INCURS OUTSIDE THE AGREED UPON LEAD TIME IN ANTICIPATION OF RELEASED REQUIREMENTS WILL BE SOLELY AT THE SELLER'S OWN RISK AND TCT ASSUMES NO LIABILITY THEREFOR.

(A.8) ANY EXPEDITED DELIVERY COSTS (E.G. AIR FREIGHT) CAUSED BY NON-ADHERENCE TO THE PURCHASE ORDER SCHEDULE SHALL BE THE RESPONSIBILITY OF THE SUPPLIER.

(A.9) UNLESS OTHERWISE APPROVED IN WRITING BY TCT, PRODUCT SHALL NOT BE DELIVERED EARLIER THAN TEN (10) DAYS PRIOR TO THE REQUIRED DELIVERY DATE SPECIFIED ON THE PURCHASE ORDER. AT TCT'S DISCRETION, THIS PRODUCT MAY BE RETURNED AT THE SUPPLIER'S EXPENSE.

(A.10) FAR 52.219.8, ENTITLED "UTILIZATION OF SMALL (SB), SMALL DISADVANTAGED (SDB), VETERAN OWNED (VOSB), SERVICE DISABLED VETERAN OWNED (SDVOSB), HUBZONE (HZSB), AND WOMEN OWNED (WOSB) BUSINESS CONCERNS", IS A REQUIREMENT OF ALL P.O.'S THAT OFFER FURTHER SUBCONTRACTING OPPORTUNITIES (EXCEPT THOSE PERFORMED BY SMALL BUSINESS CONCERNS) AND REQUIRES EACH SUBCONTRACTOR WITH A SUBCONTRACT IN EXCESS OF \$500,000 TO ADOPT A PLAN IN CONSONANCE WITH FAR 52.219.9.

(A.11) THIS PURCHASE ORDER INVOKES THE REQUIREMENTS OF 22CFR 120 "FOREIGN RELATIONS".

(B) QUALITY SYSTEMS:

(B.1) SUPPLIER MUST BE CERTIFIED TO ISO9001.

(B.2) N/A.

(B.3) SUPPLIER MUST BE IDENTIFIED WITHIN TCT DOCUMENT FH-002 AS AN APPROVED SUPPLIER FOR THE PRODUCT(S) PURCHASED.

(B.4) SUPPLIER IS RESPONSIBLE FOR FLOWING DOWN AND FOR ENSURING ADHERENCE TO THE REQUIREMENTS OF THIS PURCHASE ORDER BY ALL SUB-TIERS.

(B.5) NADCAP APPROVAL IS REQUIRED FOR THE PERFORMANCE OF ALL SPECIAL PROCESSES.

(B.6) SUPPLIER WILL RETAIN ALL RECORDS FOR 10 YEARS MINIMUM, AND WILL MAKE THESE RECORDS AVAILABLE TO TCT UPON REQUEST WITHIN 24 HOURS.

(B.7) AS REQUIRED TO VERIFY PRODUCTS AND PROCESSES, SUPPLIER SHALL USE AND MAINTAIN CALIBRATED INSPECTION AND TEST EQUIPMENT IN ACCORDANCE WITH ANSI/NCSL Z540.1, ISO 10012, AND ISO/IEC 17025, AS APPLICABLE.

(C) SOURCE SUBSTANTIATION AND FIRST ARTICLE REQUIREMENTS:

(C.1) SPECIAL PROCESSES SHALL NOT BE PERFORMED WITHOUT WRITTEN AUTHORIZATION (VIA BLUEPRINT, P.O., OR SIMILAR). SOURCE SUBSTANTIATION IS REQUIRED FOR ALL SPECIAL PROCESSES IN ACCORDANCE WITH PWA300. NO CHANGES MAY BE MADE TO APPROVED SOURCES OR PROCESSES WITHOUT TCT APPROVAL.

(C.2) MATERIAL SHALL BE TESTED AND CERTIFIED BY A NADCAP-APPROVED LAB.

(C.3) UNLESS OTHERWISE SPECIFIED ON THE PURCHASE ORDER, A FIRST ARTICLE SHALL BE MANUFACTURED, AND INSPECTION RESULTS SHALL BE DOCUMENTED IN ACCORDANCE WITH AS9102. BOTH THE PRODUCT AND INSPECTION

RESULTS SHALL BE SUBMITTED TO AND APPROVED BY TCT ENGINEERING (AND/OR THE U.S. GOVERNMENT IF APPLICABLE) PRIOR TO CONTINUING PRODUCTION.

(D) PRODUCT REQUIREMENTS:

(D.1) UNLESS OTHERWISE APPROVED IN WRITING BY TCT, 100% INSPECTION TO THE BLUEPRINT (B/P) REQUIREMENTS SHALL BE PERFORMED ON ALL PRODUCT PRIOR TO SHIPMENT. ALL SAMPLING PLANS SUBMITTED FOR APPROVAL SHALL BE STATISTICALLY VALIDATED USING A SAMPLE SIZE OF AT LEAST 25. ONCE APPROVED, SPC METHODS SHALL CONTINUE TO BE USED TO ENSURE THE PROCESS CAPABILITY (CPK) IS MAINTAINED AT OR ABOVE A 1.3.

(D.2) HEAT CODE / LOT TRACEABILITY SHALL BE MAINTAINED FOR ALL MATERIALS / PRODUCT DURING ALL STAGES OF PROCESSING THROUGH SHIPMENT TO TCT.

(D.3) UNLESS OTHERWISE SPECIFIED, RAW MATERIAL SHALL BE LINE MARKED WITH THE MATERIAL TYPE AND INDUSTRY SPECIFICATION, SIZE, MILL NAME, AND HEAT CODE. PROCESSED MATERIALS SUCH AS CASTINGS, FORGINGS, AND BLANKS SHALL BE INK MARKED WITH THE PART NUMBER AND HEAT CODE IF NOT OTHERWISE SPECIFIED ON THE P.O., B/P, OR OTHER REFERENCED DOCUMENTS.

(D.4) UNLESS OTHERWISE SPECIFIED, A SAMPLE OF MATERIAL OF THE SAME HEAT CODE AS THE PRODUCT SHALL BE PROVIDED FREE OF CHARGE TO TCT FOR INDEPENDENT VERIFICATION OF RAW MATERIAL PROPERTIES. THE SAMPLE SIZE SHALL BE 6" X 6" FOR SHEET, STRIP, OR PLATE; 6" LENGTH FOR WIRE, TUBE, OR BAR; OR OTHERWISE AGREED UPON SAMPLE FOR OTHER PRODUCT TYPES. THIS REQUIREMENT IS IMPOSED BY MATERIAL SPECIFICATION AT A FREQUENCY OF SEMI-ANNUALLY OR WITH EACH SHIPMENT, WHICHEVER IS LESS. (GROUPING OF MULTIPLE PRODUCTS AND/OR MULTIPLE P.O.'S BY MATERIAL SPECIFICATION IS ACCEPTABLE.)

(D.5) ANY SPECIALTY METALS INCORPORATED IN ARTICLES DELIVERED UNDER THIS PO SHALL BE MELTED IN THE UNITED STATES OR OTHER QUALIFYING COUNTRY IN ACCORDANCE WITH DFARS CLAUSE 252.225-7014, "PREFERENCE FOR DOMESTIC SPECIALTY METALS", AND DFARS CLAUSE 225.872-1, "CONTRACTING WITH QUALIFYING COUNTRY SOURCES - GENERAL".

(E) ADDITIONAL CONTRACT FLOWDOWN REQUIREMENTS:

THE FOLLOWING DOCUMENTS ARE APPLICABLE IN WHOLE OR IN PART IN MANUFACTURING HARDWARE FOR THE F100 FLAMEHOLDER.

(E.1) CDRL-013264066-15173 - CONTRACT DATA REQUIREMENTS LIST

(E.2) LPF-QAR-003 - LPFR QUALITY ASSURANCE REQUIREMENTS FOR FIRST ARTICLE TEST PLANS AND REPORTS

(E.3) LPF-QAR-018 - LPFR QUALITY PLAN REQUIREMENTS FOR NONDESTRUCTIVE INSPECTION

(E.4) LPF-QPR-014 - LPFR QUALITY PLAN REQUIREMENTS FOR FLAMEHOLDERS

(E.5) LPF-QPR-004 - LPFR QUALITY PLAN REQUIREMENTS FOR WELDED ASSEMBLIES

(E.6) EIM-1 FOR CSI & CAI - ENGINEERING INSTRUCTION FOR THE MANUFACTURE OF OC-ALC/GKG ENGINE PARTS IDENTIFIED AS CRITICAL APPLICATION ITEMS AND CRITICAL SAFETY ITEMS EXCEPT FLIGHT CRITICAL PARTS.

(E.7) LPF-QAR-005 - LPFR QUALITY LETTER OF INSTRUCTIONS FOR F100 AUGMENTOR SPRAYING MANIFOLD ASSEMBLIES (ALL SUB-TIERS)

(E.8) MQR-1 - QUALIFICATION REQUIREMENTS FOR MANUFACTURE OF CRITICAL SAFETY ITEMS EXCEPT FLIGHT SAFETY CRITICAL PARTS.

(E.9) QAP-E09 (QUALITY ASSURANCE PROVISION) - CONTRACTOR QUALITY SYSTEM FOR FLIGHT SAFETY CRITICAL PARTS.

(E.10) MIL-Q-9858A AMENDMENT 3 - MILITARY SPEC QUALITY PROGRAM REQUIREMENTS

(E.11) DCS-48 - INSPECTION OF DIE-STAMPINGS

(F) SHIPPING REQUIREMENTS:

(F.1) PACKAGING SHALL BE ADEQUATE TO PREVENT DAMAGE AS WELL AS

EXCESSIVE SHIFTING DURING TRANSIT.

(F.2) ALL CONTAINERS OVER 50 LB GROSS WEIGHT SHALL BE PLACED ON A PALLET TO ENABLE MECHANICAL HANDLING.

(F.3) PAPER, CARDBOARD, OR OTHER SUITABLE MEANS SHALL BE USED TO PREVENT METAL-TO-METAL CONTACT BETWEEN ALL MACHINED/FINISHED SURFACES OF PRODUCT.

(F.4) PACKAGING SHALL BE CLEARLY IDENTIFIED WITH THE FOLLOWING INFORMATION: SUPPLIER NAME, P.O. NUMBER, PART NUMBER OR PRODUCT DESCRIPTION, BATCH NUMBER OR HEAT CODE, AND SHELF LIFE (IF APPLICABLE).

(G) DOCUMENTATION REQUIREMENTS:

(G.1) PACKING SLIP, WHICH INCLUDES SUPPLIER'S INFORMATION, THE PART NUMBER AND QUANTITY BEING SHIPPED, THE PACKING SLIP NUMBER, AND THE P.O. NUMBER (INCLUDING LINE AND RELEASE NUMBERS).

(G.2) CERTIFICATE OF CONFORMANCE, WHICH INCLUDES SUPPLIER'S INFORMATION, THE PART NUMBER AND QUANTITY BEING SHIPPED, HEAT CODE, THE PACKING SLIP NUMBER, REFERENCE TO DOCUMENTATION AUTHORIZING SHIPMENT OF NONCONFORMING PRODUCT (IF APPLICABLE), AND THE P.O. NUMBER.

(G.3) UNALTERED PRODUCING MILL CERTIFICATION FROM AN INDEPENDENT NADCAP-APPROVED TESTING LAB, INCLUDING RAW MATERIAL TESTING RESULTS AND REFERENCES TO MATERIAL SPECIFICATIONS AS REQUIRED BY P.O. OR B/P AND TRACEABLE TO EACH HEAT CODE, SHALL BE INCLUDED WITH EACH SHIPMENT.

(G.4) MATERIAL SAFETY DATA SHEET (MSDS) - ONLY REQUIRED WITH THE INITIAL SHIPMENT ON THIS P.O.

(G.5) DOCUMENTATION FROM TCT AUTHORIZING SHIPMENT OF NONCONFORMING

PRODUCT (IF APPLICABLE), WHICH REFERENCES THE P.O. NUMBER, PART NUMBER AND QUANTITY AUTHORIZED FOR SHIPMENT.

(G.6) TEST AND CERTIFY TO P&W MCL F-14 AND E-25 FOR ALL RAW MATERIALS (NON-ROTOR APPLICATIONS), AND TO THE FOLLOWING MATERIAL SPECIFIC REQUIREMENTS (THIS LIST IS FOR REFERENCE, AND DOES NOT WAIVE ANY ADDITIONAL REQUIREMENTS CONTAINED WITHIN F-14):

- INCO 718 SHEET/STRIP: TEST AND CERTIFY TO E-44.
- WASPALOY: TEST AND CERTIFY TO E-39.
- BRAZE/WELD WIRE: TEST AND CERTIFY TO F-53.

(H) NONCONFORMING PRODUCT:

(H.1) IF TCT ENGINEERING HAS AGREED IN WRITING (PRIOR TO SHIPMENT) TO ACCEPT NONCONFORMING PRODUCT IN ITS CURRENT CONDITION, THE SUPPLIER SHALL SUPPLY A SEPARATE CERTIFICATE OF CONFORMANCE FOR THE NONCONFORMING PRODUCT, REFERENCING THE P.O. NUMBER, PART NUMBER, QUANTITY, MEANS OF TRACEABILITY, ETC. THE DOCUMENT SHALL ALSO STATE THAT THE PRODUCT DOES NOT FULLY CONFORM TO THE PURCHASE ORDER REQUIREMENTS AND SHALL IDENTIFY AND TAKE EXCEPTION TO THE SPECIFIC NONCONFORMANCES IDENTIFIED. SUPPLIER SHALL ALSO INCLUDE DOCUMENTATION FROM TCT AUTHORIZING ITS SHIPMENT.

(H.2) IF PRODUCT IS FOUND TO BE NONCONFORMING UPON RECEIPT BY TCT (AND WITHOUT PRIOR NOTIFICATION OF THE NONCONFORMANCE BY THE SUPPLIER AND SHIPMENT AUTHORIZATION BY TCT), AND IS DEEMED BY TCT ENGINEERING TO BE REWORKABLE TO A USABLE CONDITION, SUPPLIER MAY BE HELD RESPONSIBLE FOR ALL COSTS INCURRED BY TCT ASSOCIATED WITH REWORKING THE PRODUCT, UP TO ITS ORIGINAL PURCHASE PRICE.

(H.3) WHEN SHIPPING TO TCT, NONCONFORMING PRODUCT SHALL BE PHYSICALLY IDENTIFIED USING A TEMPORARY METHOD OF IDENTIFICATION (PREFERABLY A RED TAG). NONCONFORMING PRODUCT, WHEN SHIPPED WITH CONFORMING PRODUCT, SHALL BE SEGREGATED IN SEPARATE BAGS, BOXES, OR OTHER APPROPRIATE PACKAGING. THE PACKING SLIP SHALL IDENTIFY THE NONCONFORMING PRODUCT (QUANTITY AND IDENTIFICATION/TRACEABILITY) SEPARATELY FROM THE CONFORMING PRODUCT.

[REV 01/15/16 - REMOVED PARA. A10, AND RENUMBERED A11, A12; REV. 10/23/15 - INSERTED NEW SECTION E; REV. 07/14/09 REF. NOTES C1,D4,D5; REV. 07/16/08 REF. NOTE A9; REV.04/15/08 REF. NOTE A7]