

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ OTHER _____
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D. SYSTEM/ITEM 4033096	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM FIRST ARTICLE TEST PLAN	3. SUBTITLE NOUN: Bracket – Push-Pull Control NSN: 5342-00-373-3557
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4. AUTHORITY (Data Acquisition Document No.) D1-NDTI-80809	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
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7. DD 250 REQ YES	9. DIST STATEMENT REQUIRED A	10. FREQUENCY ONCE	11. AS OF DATE SEE BLOCK 16	12. DATE OF FIRST SUBMISSION SEE BLOCK 16	13. DATE OF SUBSEQUENT SUBMISSION	14. DISTRIBUTION		
						a. ADDRESSEE	b. COPIES	
							Draft	Final
							Reg	Repro

<p>16. REMARKS</p> <p>Contractor shall provide a plan that ensures all drawing requirements are met On each first article. The plan shall include the equipment and facilities used to verify all drawing requirements. As a minimum, the plan shall address the following:</p> <ul style="list-style-type: none"> a. A list of all drawing dimensions, surface texture, etc. to be inspected and the equipment to be used to verify each dimension, surface texture, etc. An actual drawing shall be submitted that correlates the dimensions on the drawing to those identified on the list. b. A plan to verify that all non-destructive inspections are met. c. A plan to verify that all visual inspections requirements are met. d. A plan to verify material properties to include mechanical properties, metallurgical properties, and chemical compositions. e. A plan to ensure that manufacturing processes are performed by OEM (Pratt & Whitney) certified vendors. f. A plan to ensure that the forging/casting source is OEM approved for the specific forging/casting, if applicable. <p>Additional guidelines for first article test plans are contained in LPF-QAR-003.</p> <p>The test plan must be approved by OC-ALC/LPFR prior to delivery of test report as required by the contract.</p> <p>The test plan shall be received by PCO no later than 30 calendar days after contract award date.</p>	<table border="1" style="width:100%"> <tr> <td style="width:60%">17. PRICE GROUP</td> <td style="width:40%">18. ESTIMATED TOTAL PRICE</td> </tr> <tr> <td style="height: 100px;"></td> <td style="height: 100px;"></td> </tr> </table>	17. PRICE GROUP	18. ESTIMATED TOTAL PRICE		
17. PRICE GROUP	18. ESTIMATED TOTAL PRICE				
15. TOTAL →					

G. PREPARED BY Aaron Friesenhahn	H. DATE 8 May 02	I. APPROVED BY Tyrone Giles	J. DATE 8 May 02
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AMC/AMSC SCREENING ANALYSIS WORKSHEET

* HISTORY *

PAGE 1 OF 2

PRIORITY
CATEGORY

POTENTIAL
REQUIREMENT
IDENT. DATE.

SECTION A ITEM IDENTIFICATION AND INFORMATION

1. NSN 5342-00-373-3557		2. NOUN Bracket - Push-Pull Control		3. END ITEM F100-PW-100/200 ENGINE		4. PCC	5. ERRC N
6. INI	7. QTY	8. UNIT COST		9. IDENTIFYING NUMBER (PART NO) R/N: 4033096		CAGE: 77445	REV:
10. BP/SMC/MPC/FY		11. PR YRS	12. EST ANNUAL BUY VALUE		13. PR/MIPR VALUE		
14. COMM OFF-THE-SHELF ITEM NO		15. FORM 1 TYPE ITEM NO		16. NUC. CERT. END ITEM NO		17. HARD CRIT. IND NO	
NEXT HIGHER ASSEMBLY							
18. NSN:		19. NOUN:		20. R/N:		21. CAGE:	

SECTION B SUMMARY OF SCREENING ACTION

1. STAT	2. DIV	3. CTIC	4. ACQUISITION IDENTIFYING NUMBER R/N:			5. REV	6. CQR/I&A
7A. DESIGN DIS: Y		7B. SPEC CTRL: N		7C. SRC CTRL: N		7D. MIL/IND/CONTR PERF SPEC: N	
8. ST/STE REQ (Y/N/U): N		9. ST/STE AVAIL (Y/N/U): N		10. DATA COMPLETE (Y/N/U): Y		11. LIMITED RIGHTS (Y/N/U): N	
12. AAC		13. AMC/AMSC 3C		14. DCC		15. EXP DT May 07	
16. PREV AMC/S/DT		17. NBR DRWGS REVD		18. AMC COMPLETION DT:		19. MM RECMD AMC/AMSC: 3C	
20. DATE BEGAN		21. DATE COMPLETED		22. CODE/PHONE NR NAME		23. ORGANIZATION	
						8 May 02	
						8 May 02	
						TYRONE GILES (405) 734-8692	
						OC-ALC/LPFRA	

SECTION C ECONOMIC EVALUATION

EST SAVING/LOSS OVER FUTURE PROG		A. SAV FACTOR %	B. \$ COST OF BREAKOUT
(ABV x A x PROG YRS) - B =			

SECTION D PROCUREMENT SUPPORT REQUIRED

1. FIRST ARTICLE TEST (Y/N): Y		2. TECHNICAL DATA PACKAGE (Y/N): N	
3. EXPORT CONTROL (Y/N): Y		4. PRODUCTION SAMPLE REQ (Y/N): N	
5. MLO/ARTWORK (M/S/B/N): N		6. SAMPLE FURN (Y/N): N	
		7. ENGR NOTES (Y/N): N	
8. PR RETURN REASON CODE:		9. PR NUMBER:	

SECTION E APPROVED SOURCES

DESIGN ACTIVITY INFORMATION			SUPPLIER INFORMATION		
CAGE	REFERENCE NUMBER	RNC	CAGE	CONTRACTOR'S NAME	TYPE
77445	4033096		77445	PRATT & WHITNEY	P

AMC/AMSC SCREENING ANALYSIS WORKSHEET
(CONTINUING SHEET)

* HISTORY *

NSN: 5342-00-373-3557	AMC/AMSC: 3C	IM DATE BEGAN:
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SECTION F SCREENING EVALUATION/REMARKS

1. JUSTIFICATION FOR SUFFIX CODE OTHER THAN G:

This is a critical item used on the F100 series engine. This item requires engineering source approval in order to assure the quality of the item.

2. ACTION TAKEN/BEING TAKEN TO IMPROVE COMPETITIVE STATUS:

Qualification requirements are available, from which, prospective sources may submit for qualification.

3. REMARKS:

SECTION G MISCELLANEOUS INFORMATION

1. PROCURMENT HISTORY (LAST 5 BUYS):

STD PRICE

AWARD DATE	CLIN QTY	UNIT PRICE	SUPPLIER'S CAGE	AMC/AMSC	AMOC	NO SOL	BIDS RCV

2. VALUE ANALYSIS DATA

ECON PROD QTY	PROJ BUY QTY	ANLYS DATE	DIR LAB HOURS	DIR MAT COSTS	IND COST & PROFIT	TARGET PRICE	SRC REV

DESIGN ACTIVITY INFORMATION

SUPPLIER INFORMATION

CAGE	REFERENCE NUMBER	RNC	CAGE	CONTRACTOR'S NAME	Orig/Eval

FIRST ARTICLE REQUIREMENTS

(AFMCI 64-110, AFMCI 23-102 AND FAR Part 9, Sub Part 9.3) (Additional instructions on page 3)

1. DATE

8 May 02

2. PR/MIPR NUMBER

3. PART NUMBER

4033096

4. NSN

5342-00-373-3557

5. FIRST ARTICLE QUANTITY

THE FIRST ARTICLE IS 3 UNIT(S) OF LOT/ITEM 1

AND WILL BE: PART OF PRODUCTION QUANTITY IN ADDITION TO PRODUCTION QUANTITY

6. ARTICLES

WILL WILL NOT SERVE AS MANUFACTURING STANDARD

7. LONG LEAD TIME ITEMS

REQUIRED NOT REQUIRED

(See FAR 52.209-3 or -4, alternate II)

8. SPECIAL REQUIREMENT/PRODUCTION FACILITIES (See FAR 52.209-3 or -4 Alternate I)

REQUIRED NOT REQUIRED

"The First Article offered must be manufactured at the facilities in which that item is to be produced under contract, or if the First Article is a component not manufactured by the contractor, such component must be manufactured at the facilities in which the component is to be produced for the contract. A certification to this effect must accompany each First Article which is offered."

9. TEST/INSPECTION REQUIREMENTS

A. CONTRACTOR TESTING GOVERNMENT TESTING

Performance or other characteristics which the First Articles must meet are identified in drawing 4033096 and specifications identified therein.

B. The detailed technical requirements for First Article approval tests are contained in Block 12 of this form and LPE-QAR-003.

(Cite Spec and Para number)

C. TEST PLAN REQUIRED

- (1) DD Form 1423 ELIN A001
- (2) Delivery due 30 calendar days from date of contract.
- (3) Number of days for government approval/disapproval 45 days.

D. Contractor's notification to ACO and PCO (Requesting Activity) of test time and location due 10 days prior to start of testing.

E. TEST REPORT REQUIRED

- (1) DD Form 1423 ELIN A002
- (2) Due 120 calendar days from date of contract.
- (3) Forward to PCO and OC-ALC/TICLA, 3001 Staff Dr., Ste. T69, Tinker AFB, OK 73145 Attn: FA Monitor
- (4) Government written notice of approval/disapproval due _____ days after receipt of contractor's report.

F. FIRST ARTICLE DELIVERY:

(1) Due within _____ calendar days from date of contract.

(2) Notify _____ calendar days prior to shipment.

(3) Delivered to government at _____

(Set Forth Consignee and Address)

(4) Government written notice of approval/disapproval within _____ days after receipt of first article package.

G. Estimated cost of government testing/inspection evaluation. \$ 500

10. DISPOSITION OF FIRST ARTICLES

Approved First Articles will be forwarded to _____

1 (insert quantity) First Articles will be expended in testing. Residual components of disapproved First Articles will be returned to the contractor/ will be retained by _____ pending disposition instructions from the contractor.

First Articles will be installed on aircraft/equipment to determine Proper fit/function. Approved article will remain on the aircraft/equipment and will not be forwarded to USAF Supply, but will be considered part of the contract quantity.

Disapproved First Articles will be returned to the contractor/ will be retained by _____ pending disposition instructions from the contractor.

On purchase requests designated as direct shipments, the following disposition will apply. (NOTE: Always applicable on Foreign Military Sales (FMS)).

- a. Approved First Articles will be returned to the contractor for shipment with production item.
- b. Disposition of disapproved First Articles will remain the same as marked above.

Other Disposition: See block 12 of this form

11. CONDITION(S) FOR WAIVER OF FIRST ARTICLE APPROVAL

- a. Offerors who have previously furnished production quantities of the same or similar article to the prime contractor for delivery to the X Government, X DoD, X Air Force.
- b. Offerors currently in production of the same or similar article for a _____ Government, _____ DoD, _____ Air Force contract and who have received First Article approval under the existing contract.
- c. Offerors who have previously furnished production quantities of the same or similar article to the X Government, X DoD, X Air Force, provided articles thus furnished, have exhibited satisfactory performance in service in the opinion on the Air Force.
- d. Provided not more than 36 months have elapsed since completion of the contract.
- e. First Article testing will not be waived.
- f. See Remarks in block 12 below.

NOTE TO BUYER: UNDER CONDITIONS A AND C ABOVE, THE COGNIZANT ENGINEERING ACTIVITY WILL DECIDE WHETHER OR NOT THE ITEM HAS EXHIBITED SATISFACTORY PERFORMANCE IN SERVICE AND PREPARE AND RETAIN SUPPORTING DOCUMENTATION TO FULLY JUSTIFY THE DECISION. The buyer must solicit dual prices *that is, both with and without requirement for first article approval*) AND MUST FURNISH THE COGNIZANT ENGINEER ACTIVITY WITH THE FOLLOWING INFORMATION ON THE PREVIOUSLY SUPPLIED ARTICLE:

A. PROCURING OFFICE	B. CONTRACT NUMBER	C. DATE OF CONTRACT	D. SPECIFICATION NUMBER AND REV.
_____	_____	_____	_____

12. REMARKS

9.B. First article test requirements shall be per LPF-QAR-003 and the following:

- a. All three first articles shall be inspected in accordance with the requirements of paragraphs 3.1, 3.2, 3.3, 3.4, and 3.5 of LPF-QAR-003.
- b. After completion of inspections per 9.B.a above, one article shall be destructively tested/evaluated in accordance with the requirements of paragraph 3.6 of LPF-QAR-003.

10. Disposition of first Articles:

- a. Approved first article(s) will be retained at the contractor's facility for reconditioning (if necessary) with final acceptance the same as for production items. If a first article is expended in testing, approval of first article will constitute acceptance.
- b. Disapproved first article(s) shall be retained at the contractor's facility, unless specified otherwise by the PCO.

11. The cognizant Government engineering authority shall be the final authority for determining if a contractor meets the conditions of waiver identified in 11.a or 11.c.

First article testing is waived if the offeror is the prime contractor, Pratt & Whitney.

This is a critical part used in the F100 series turbine engine. Poor quality parts will have an adverse effect on mission capability and system safety. For this reason, First Article Testing is required to insure first time manufacturers or manufacturers that have not produced the item within three years manufacture parts in accordance with the drawing and specification requirements.

13. COGNIZANT ENG ORGANIZATION RESPONSIBLE FOR CONDUCTING AND/OR APPROVING TEST (Name, Organization, Phone)

Tyrone Giles, OC-ALC/LPFRA, DSN 884-8692

14. PR INITIATOR (Name, Organization, Phone)

QUALIFICATION REQUIREMENTS
FOR MANUFACTURE OF F100 ENGINE PARTS

Page 1

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NSN: 5342003733557

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02-Mar-01

I. HARDWARE DESCRIPTION

- A. Nomenclature:
Bracket - Push-Pull Control
- B. Function:
Secures Rear Compressor Variable Vane (RCVV) feedback push-pull cable end to compressor case.
- C. Material Composition:
AMS 4911 Ti Alloy

II. REFERENCE DOCUMENTS

- A. LPF-QAR-004: "General Quality Assurance Requirements For F100 Engine Components."

III. JUSTIFICATION FOR QUALIFICATION REQUIREMENTS

Ref.: FAR Subpart 9.2, AFMCFAR Subpart 5309.2

The following paragraphs provide the justification for qualification requirements for this part.

A. Criticality of Part:

This is a Critical Application Item (CAI) used on the F-15 and F-16 aircraft primary propulsion system, the Pratt & Whitney F100 engine. Failure of this part can result in secondary damage to the engine and subsequent mission abort.

B. Complexity of Part:

This part is not complex to manufacture, however, it is used in a critical location and must therefore require strict process control and quality standards.

C. Government Risk:

The following paragraphs document the reasons why the risk to the government of buying this part from an unqualified source is compound.

1. The probability of an unqualified source producing an unsatisfactory part is moderate.
2. The probability of an unqualified source failing to produce within schedule is moderate.
3. A high potential exists for an unqualified source to underestimate the manufacturing difficulty and miss critical delivery schedules.

QUALIFICATION REQUIREMENTS
FOR MANUFACTURE OF F100 ENGINE PARTS

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4. Untimely delivery critically impacts end item overhaul/repair schedules. Failure to deliver on schedule may result in additional high cost emergency procurements.
 5. An inferior part can cause extensive damage to the end item resulting in a high cost of repair.
- D. There are no costs incurred by an offeror for qualification testing and testing evaluation under the requirements of paragraphs VI.A or VI.B. However, the offeror's development of a Source Approval Request (SAR) package to be submitted for Government evaluation may cost as much as \$2500. In addition, the cost incurred by offerors for Government evaluation of their SAR submitted under the requirements of paragraphs VI.A or VI.B may be as much as \$1,200. This cost may be borne by the Government if it is in the best interest of the Government to qualify alternate sources.

IV. JUSTIFICATION FOR QUALIFICATION PRIOR TO CONTRACT AWARD

Ref.: AFMCFAR Subpart 5309.2

The following paragraphs provide the rationale for requiring a demonstration of the qualification requirements prior to contract award.

- A. The risk of default by the contractor must be minimized as the shortest combined administrative and production lead-time is over 10 months.
- B. The technical risk must also be minimized due to the criticality of the part (Reference the section "Criticality of Part" in paragraph III.A).
- C. The manufacturing and processing techniques are critical to performance and reliability (Reference the section "Criticality of Part" in paragraph III.A).
- D. The risk to the government in determining a potential vendor's capability without an actual demonstration of that capability must be minimized. The expertise that is required to manufacture this part is not commonly available or easily obtained and therefore must be demonstrated. (Reference the section "Complexity of Part" in paragraph III.B).

V. DATA AND DOCUMENTATION REQUIREMENTS

The following paragraphs document the data that must be submitted with a request for source approval. All documentation submitted shall be the latest revision published. Documentation shall be bound (preferably a three ring binder) with a table of contents and corresponding sections tabbed.

- A. The potential Offeror must substantiate that they possess latest revision of the following data by providing a copy in the source approval package, or must provide DCAS or other government representative written verification that the potential vendor has the latest revision of the following data:

QUALIFICATION REQUIREMENTS
FOR MANUFACTURE OF F100 ENGINE PARTS

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1. Drawing Number: 4033096 (Including all sub-assembly or detail drawings specified on this drawing number)
 2. No QAD for top level drawings. As applicable, include the QAD for each sub-assembly or detail part listed on the above drawing.
 3. All applicable specifications called out on the drawing, and/or assembly and detail drawings, and on the QAD (as applicable). These include:
 - a) Process Specifications
 - b) Inspection Processes
 - c) Material Specifications
- B. The potential Offeror's Quality Assurance System must meet or exceed the requirements described in the attached document LPF-QAR-004.
- C. The vendor shall supply a list of all manufacturing and inspection processes that will be performed, both in-house or by sub-vendors. The vendor shall substantiate that sources to be employed for any significant process, including themselves, with the exception of conventional metal removal processes, are currently approved by Pratt & Whitney for the specific process required or another OEM for an equivalent process. The vendor must supply the name and address of each certified vendor to be used. In all cases where process approval is relative to an OEM process specification other than Pratt & Whitney, the vendor shall provide the complete specification and demonstrate the equivalence of the specifications.

VI. SUBSTANTIATION OF MANUFACTURING CAPABILITY

The following paragraphs document the methods to be used to substantiate a vendor's capability to manufacture this item.

- A. A vendor who has manufactured the item for the prime contractor or for other US DoD users of the same item within the last five years may be approved as a source for the part provided that the vendor was responsible for all material procurement, inspection, and finishing of the end item, i.e., the prime manufacturer did not add any value to the end item. The vendor must submit evidence of the scope of work for the part indicating that they had primary responsibility for all operations necessary for the completion of the part for delivery to the customer. This evidence shall include MANUFACTURING PROCESS SHEETS.
- B. Other vendors will be considered for approval on the basis of their ability to manufacture a similar item for the prime contractor, US DoD, or a NATO country. The following conditions must be met for approval by similarity:
 1. Submit evidence of the successful manufacture and sale of the similar item, to include purchase orders and shipping documents reflecting production quantities within the last five years. This evidence must document that the vendor had primary responsibility for all operations necessary to produce the similar item, and that the similar item was accepted by

QUALIFICATION REQUIREMENTS
FOR MANUFACTURE OF F100 ENGINE PARTS

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the customer. Also include a summary of quality deficiencies experienced within the last two years of production of the similar item(s) with coordination from the Q. A. manager. The vendor shall provide SPECIFIC similarities and differences between the subject part and the similar part.

2. The vendor shall substantiate that the similar component(s) submitted will satisfy the following criteria:
 - a) Fabricated of the same alloy or an alloy from the same alloy family, e.g. Alpha Titanium's, Inconels, Austenitic Stainless Steels.
 - b) Illustrates the ability of the vendor, in conjunction with their sub-vendors, to perform all significant processes to be employed and maintain requisite tolerances and surface finish requirements.
 - c) The data must also show that the manufacturing and inspection/test processes for the similar part demonstrate the full range of difficulty required for the subject part. Included in this data shall be complete MANUFACTURING PROCESS SHEETS for the similar item.
3. A first article requirement may be included in any contract resulting from approval based upon similarity. The estimated cost of first article testing is \$2,500.00. These tests may include material properties analysis, dimensional analysis, and possibly rig test. At least three first articles would be required with one first article requiring destructive testing.

VII. RESPONSIBLE ENGINEERING ORGANIZATION

The responsible organization for establishing these qualification requirements is the F100 Engine Engineering Branch, within the Fighter Propulsion Division of the Oklahoma City Air Logistics Center, Tinker Air Force Base, Oklahoma.

