

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
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A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP _____ TM _____ OTHER _____		
D. SYSTEM/ITEM 4071261			E. CONTRACT/PR NO.		F. CONTRACTOR	
1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM FIRST ARTICLE TEST PLAN			3. SUBTITLE NOUN: Bracket – Assy of, Augmentor NSN: 5340-01-258-1105		
4. AUTHORITY (Data Acquisition Document No.) DI-NDTI-80809			5. CONTRACT REFERENCE		6. REQUIRING OFFICE	
7. DD 250 REQ YES	9. DIST STATEMENT REQUIRED A	10. FREQUENCY ONCE	12. DATE OF FIRST SUBMISSION SEE BLOCK 16	14. DISTRIBUTION		
8. APP CODE		11. AS OF DATE SEE BLOCK 16	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES	
					Draft	Final
					Reg	Repro
16. REMARKS						
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:						
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.						
Additional guidelines for first article test plans are contained in LPF-QAR-003.						
The test plan must be approved by OC-ALC/LPFR prior to delivery of test report as required by the contract.						
The test plan shall be received by PCO no later than 30 calendar days after contract award date.						
15. TOTAL →						

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY Aaron Friesenhahn		H. DATE 1 May 02		I. APPROVED BY Jolly Sartor		J. DATE 1 May 02	
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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 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.

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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 \$2,000.00. 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.

FIRST ARTICLE REQUIREMENTS			1. DATE
(AFMCI 64-110, AFMCI 23-102 AND FAR Part 9, Sub Part 9.3) (Additional instructions on page 3)			1 MAY 02
2. PR/MIPR NUMBER	3. PART NUMBER 4071261	4. NSN 5349-01-258-1105	
5. FIRST ARTICLE QUANTITY THE FIRST ARTICLE IS <u>3</u> UNIT(S) OF LOT/ITEM <u>1</u> AND WILL BE: <input type="checkbox"/> PART OF PRODUCTION QUANTITY <input checked="" type="checkbox"/> IN ADDITION TO PRODUCTION QUANTITY			
6. ARTICLES <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT SERVE AS MANUFACTURING STANDARD		7. LONG LEAD TIME ITEMS <input type="checkbox"/> REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <i>(See FAR 52.209-3 or -4, alternate II)</i>	
8. SPECIAL REQUIREMENT/PRODUCTION FACILITIES <i>(See FAR 52.209-3 or -4 Alternate I)</i> <input checked="" type="checkbox"/> REQUIRED <input type="checkbox"/> 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		F. FIRST ARTICLE DELIVERY:	
A. <input checked="" type="checkbox"/> CONTRACTOR TESTING <input type="checkbox"/> GOVERNMENT TESTING Performance or other characteristics which the First Articles must meet are <u>identified in drawing 4071261, sub-tier drawings and specifications identified therein.</u>		(1) Due within _____ calendar days from date of contract.	
B. The detailed technical requirements for First Article approval tests are contained in <u>Block 12 of this form and LPE-OAR-003.</u> <i>(Cite Spec and Para number)</i>		(2) Notify _____ calendar days prior to shipment.	
C. <input checked="" type="checkbox"/> TEST PLAN REQUIRED (1) DD Form 1423 ELIN <u>A001</u> (2) Delivery due <u>30</u> calendar days from date of contract. (3) Number of days for government approval/disapproval <u>45</u> days.		(3) Delivered to government at _____ _____ <i>(Set Forth Consignee and Address)</i>	
D. Contractor's notification to ACO and <u>PCO</u> <i>(Requesting Activity)</i> of test time and location due <u>10</u> days prior to start of testing.		(4) Government written notice of approval/disapproval within _____ days after receipt of first article package.	
E. <input checked="" type="checkbox"/> TEST REPORT REQUIRED (1) DD Form 1423 ELIN <u>A002</u> (2) Due <u>120</u> calendar days from date of contract. (3) Forward to <u>PCO and OC-ALC/TICLA, 3001 Staff Dr., Ste. T69, Tinker AFB, OK 73145 Attn: FA Monitor</u> (4) Government written notice of approval/disapproval due _____ days after receipt of contractor's report.		G. Estimated cost of government testing/inspection evaluation. \$ <u>500</u>	
10. DISPOSITION OF FIRST ARTICLES			
<input type="checkbox"/> Approved First Articles will be forwarded to _____		<input type="checkbox"/> Disapproved First Articles will be returned to the contractor/ will be retained by _____ pending disposition instructions from the contractor.	
<input checked="" type="checkbox"/> <u>1</u> <i>(insert quantity)</i> First Articles will be expended in testing. Residual components of disapproved First Articles <input type="checkbox"/> will be returned to the contractor/ <input type="checkbox"/> will be retained by _____ pending disposition instructions from the contractor.		<input type="checkbox"/> 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.	
<input type="checkbox"/> 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.		<input checked="" type="checkbox"/> Other Disposition: <u>See block 12 of this form</u> _____ _____	

TICLA/MARK Folsom / 20 May 02

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. The assembly detail part numbers shall be inspected per paragraphs 3.1, 3.2, 3.3, 3.4, and 3.5 of LPF-QAR-003 prior to assembly.
- c. 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)

Jolly Sartor, OC-ALC/LPFR, DSN 884-8786

14. PR INITIATOR (Name, Organization, Phone)

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I. HARDWARE DESCRIPTION

- A. Nomenclature:
Bracket, Engine Accessory
- B. Function:
An assembly made up of a flat bracket, flat washer and a sleeve bushing which supports and allows expansion/contraction of an augmentor spray manifold.
- C. Material Composition:
AMS 5537 cobalt alloy, sleeve bushing: AMS 5759 cobalt 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 F-16 configured engines. A failure during flight can lead to the loss of the aircraft and possibly the loss of life.

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. Untimely delivery critically impacts end item overhaul/repair schedules. Failure to deliver on schedule may result in additional high cost emergency procurements.
4. An inferior part can result in a loss of engine power or inflight shutdown. This would lead to a mission abort and possibly the loss of the aircraft.

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- 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 18 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:
 - 1. Drawing Number: 4071261 (Including all sub-assembly or detail drawings specified on this drawing number)
 - 2. Quality Assurance Data (QAD): 4071261 As applicable, include the QAD for each sub-assembly or detail part listed on the above drawing.