14153 **QAP-CSI012698500**
DTD 8 JULY 08

DEFENSE SUPPLY CENTER PHILADELPHIA
QUALITY ASSURANCE PROVISION

NSN: 5315-01-269-8500
P/N: 2007405-31

This Quality Assurance Provision **(QAP)** is to be used in conjunction with any orders/contracts for the cited **NSN**

FIRST ARTICLE REQUIREMENTS

(AFMCI 64-110, AFMCI 23-102 and FAR Part 9, Sub Part 9.3) (Additional Instructions on Page 3)

1. DATE
18 JUN 2008

2. PR/MIPR NUMBER	3. PART NUMBER	4. NSN
	2007405-31	5315012698500LE

5. FIRST ARTICLE QUANTITY

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

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

6. ARTICLES

☐ WILL ☒ WILL NOT SERVE AS A MANUFACTURING

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 the 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 conformance with all drawings, specifications, and engineering data requirements.

B. The detailed technical requirements for First Article approval tests are contained in all drawings, specifications, and engineering data requirements.
(Cite Spec and Para number)

C. ☐ TEST PLAN REQUIRED

(1) DD Form 1423 ELIN

(2) Delivery due _____ calendar days from date of contract.

(3) Number of days for government approval/disapproval _____ days.

D. Contractor's notification to ACO and NA
(Requesting Activity)
of test time and location due 365 days prior to start of testing.

E. ☐ TEST REPORT REQUIRED

(1) DD Form 1423 ELIN

(2) Due _____ calendar days from date of contract.

(3) Forwarded to

(4) Government written notice of approval/disapproval due _____ days after receipt of contractor's report.

F. FIRST ARTICLE DELIVERY

(1) Due within 90 calendar days from date contract.

(2) Notify 30 calendar days prior to shipment.

(3) Delivered to government at

OO-ALC/309 MXSG/MXRILV

Bldg 849 Attn: Non-Accountable Bay

Transportation Office

Hill Air Force Base, UT 84056-5713

(Set Forth Consignee and Address)

(4) Governement written notice of approval/disapproval within 120 days after receipt of first article package.

G. Estimated cost of government testing/inspection evaluation.

$1,500.00

10. DISPOSITION OF FIRST ARTICLES

[X] Approved First Articles will be forwarded to

supply

[ ] _____ *(insert quantity)* First Articles will be expended in testing. Residual components of dispproved 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.

[X] Disapproved First Articles will be returned to the contractor/

[X] will be retained by OO-ALC
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:

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

a. [X] Offers who have previously furnished production quantities of the same or similar article to the prime contractor for delivery to the

[ ] Government, [ ] DoD, [X] Air Force.

b. [X] Offers currently in production of the same or similar article for a [ ] Government, [ ] DoD,

[X] Air Force contract and who have received First Article approval under the existing contract.

c. [X] Offers who have previously furnished production quantities of the same or similar articles to the

[ ] Government, [ ] DoD,

[X] Air Force, provided articles thus furnished, have exhibited satisfactory performance in service in the opinion of the Air Force.

d. [X] Provided not more than 36 months have elapsed since completion of the contract.

e. [ ] First Article testing will not be waived.

f. [X] 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 THIS DECISION. THE BUYER MUST SOLICIT DUAL PRICES *(That is, both with and without requirement for first article approval)* AND MUST

FURNISH THE COGNIZANT ENGINEERING ACTIVITY WITH THE FOLLOWING INFORMATION ON THE PREVIOUSLY SUPPLIED ARTICLE:

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

12. REMARKS

NAME Clark, Andrew R DATE 18 JUN 2008

The critical nature of the part requires a First Article from a contractor who has never produced the item or has not produced the item for an extended period of time. The Government reserves the right to assure all materials and process certifications are correct and to test the item to any or all drawings, specifications and other contract requirements. A vendor will normally be allowed only one attempt to receive full or conditional approval. Failure to receive approval of First Article inspection will, at the discretion of the Government, result in termination of the contract. The contractor shall produce a report on the subject item with all dimensions and tolerances specified on the manufacturing data listed in one column and the actual corresponding reading obtained from the inspection of the part listed in another column. Materials utilized in the manufacture of First Article items shall be identified and certified along with a copy of material purchase requests as conforming to applicable data requirements. Material processing, including finish requirements-plating, casting, forging, heat treatment, welding, inspecting, anodize, painting, etc-utilized in the manufacture of First Article items shall be identified and certified along with a copy of material purchase requests as conforming to applicable data requirements. A copy of the purchase order certifying the process accomplished at other than the contractor's facility shall be included.

First Article waiver approvals as well as similar item determination are solely the responsibility of the Cognizant Engineering Organization.

The Cognizant Engineering Organization shall determine First Article testing requirements based on component criticality and complexity, regardless of PR value.

13. COGNIZANT ENG ORGANIZATION RESPONSIBLE FOR CONDUCTING AND/OR APPROVING TEST *(Name, Organization, Phone)*	14. PR INITIATOR *(Name, Organization, Phone)*

REVISION: 3

ENGINEERING DATA LIST

HISTORY

DATE:	DATA TECH:	ORGANIZATION/OFFICE SYMBOL:	END ITEM:	PAGE
14 APR 2008	Ciuliani, Sandi L	510 CBSS / GBMAF	F-16 LG	1 OF 1

CAGE:	MANUFACTURER NAME:	REFERENCE NUMBER:	NOUN:	NSN:
13002	GOODRICH CORPORATION DBA GOODRICH L	2007405-31	PIN	5315012698500LE

LINE /SUB	CAGE	ENG DRAWING NUM / ACCOMP DOC NUM	REV	NR SHEETS	FURN CODE	DIST CODE	NOUN	REMARKS
L	17576	2007405	F	0000	S		PIN, PIVOT LINKAGE ATTACHMENT	NAME: Ciuliani, Sandi L DATE: 14 APR 2008 W/AESO 06A0720
L	98747	HILL AFB IMT 462		0000	X		ENGR DATA RQMTS (ATCH A)	

STANDARD ENGINEERING TEXT

FURNISHED METHOD CODE LEGEND:

C - CLASSIFIED DOCUMENT.
S - FURNISHED WITH SOLICITATION.
M - STABLE BASE DRAWING REQUIRED; FURNISHED WITH CONTRACT AWARD.

X - DATA SUPPLIED (NOT IN JEDMICS).
R - FURNISHED BY PCO UPON REQUEST.
P - PARTIAL DOCUMENT FURNISHED.
V - VENDOR DRAWING; (NOT PROVIDED).

G - GOV'T DOCUMENT.
O - OTHERS, CONTRACTOR MUST ACQUIRE.
A - DATA NOT AVAILABLE.

REVISION	**ENGINEERING DATA REQUIREMENTS** (ATTACHMENT "A")

NOTE: MILITARY SPECIFICATIONS / STANDARDS WILL NOT BE FURNISHED IN THE BID SET.

1. THE FOLLOWING INSTRUCTIONS ARE FURNISHED FOR THE MANUFACTURE OF **PIN PIVOT - LINKAGE ATTACHMENT (F-16 LG)**

2. PART NUMBER	3. NATIONAL STOCK NUMBER
2007405-31	**5315-01-269-8500LE**

4. THE FOLLOWING SPECIFICATIONS/STANDARDS, ETC. WILL BE USED IN LIEU OF THE DATA INDICATED. THE SUPERSEDED DATA WILL NOT BE FURNISHED UNLESS SO INDICATED.

A. THE SOURCE/MATERIAL IF LISTED ON THE STANDARDS, SPECIFICATION AND DRAWINGS ARE THE ONLY SOURCE/MATERIALS FOR THOSE ITEMS. SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL BY OO-ALC COGNIZANT ENGINEERING ACTIVITY 515 CBSS/GBEA.

B. DEVIATIONS FROM SPECIFICATIONS IDENTIFIED IN CONTROL DRAWINGS ARE NOT AUTHORIZED WITHOUT PRIOR APPROVAL BY OO-ALC ENGINEERING.

C. USE MIL-STD-130 IN LIEU OF FPS-3008.

D. PERFORM MAGNETIC PARTICLE INSPECTION PER ASTM E 1444 IN LIEU OF MIL-I-6868. USE FLUORESCENT TYPE, FULL WAVE DIRECT CURRENT (FWDC), AND WET CONTINUOUS METHOD WITH THE FOLLOWING ACCEPTANCE/REJECTION CRITERIA: NO RELEVANT DEFECTS ALLOWED. THE INTENT OF NO RELEVANT DEFECTS ALLOWED IS THAT THE INSPECTION IS CONDUCTED AT THE REQUIRED SENSITIVITY LEVEL AND THERE SHALL BE NO RELEVANT INDICATIONS ALLOWED. THE INSPECTOR PERFORMING THE INSPECTIONS SHALL BE CERTIFIED TO LEVEL II WITH THE INSPECTION PROCEDURE DEVELOPED BY A LEVEL III AS SPECIFIED IN AIA/NAS NAS 410.

E. USE MATERIAL, 4330V MODIFIED STEEL PER SAE AMS 6411 IN LIEU OF AMS 6411.

F. UNIQUE IDENTIFICATION (UID) SHALL BE APPLIED TO EACH PART PER MIL-STD-130. THE UID SHALL BE BOTH HUMAN READABLE INFORMATION (HRI) MARKINGS AND MACHINE-READABLE INFORMATION (MRI) MARKS. THE MRI SHALL BE ACCOMPANIED BY A HRI. BOTH MARKS WILL BE LIMITED TO 16 ALPHANUMERIC CHARACTERS INCLUDING THE VENDOR CAGE (FSCM) OF THE CONTRACTOR NAMED ON THE CONTRACT, DATE OF MANUFACTURE IN THE FORMAT MMYY, AND A UNIQUE 4-DIGIT NUMBER STARTING WITH 0001 IN NUMERICAL ORDER OF MANUFACTURE. THE HRI SHALL APPEAR AS "SN 9874701080001". THE HEIGHT OF EACH ALPHANUMERIC CHARACTER IN THE HRI SHALL BE A MAXIMUM OF .125 INCHES. MARKINGS FOR BOTH THE MRI AND HRI SHALL BE TO SAE AS 9132. THE LOCATION OF THE UID SHALL BE THE SAME LOCATION AS IDENTIFIED ON THE DRAWING. THE METHOD OF MARKING FOR HRI SHALL BE LIMITED TO DOT PEEN OR VIBRO PEEN. THE DEPTH OF EACH MARK SHALL BE FROM .003 - .005 INCHES UNLESS OTHERWISE SPECIFIED ON THE ORIGINAL DRAWING. THE METHOD OF MARKING FOR THE MRI SHALL BE LIMITED TO TESA BRAND SECURE 6973 BLACK UID LASER ETCHED MARKING TAPE (FOR MORE INFORMATION REFER TO (WWW.TESATAPE.COM/PROFESSIONAL/INDUSTRY/APPLICATIONS/UIDDOD). THE FULL DETAILED UID MARKING REQUIREMENTS SHALL BE APPLIED TO A SUPPLEMENTAL BAG OR OTHER PACKAGE THAT ENCLOSES THE INDIVIDUAL ITEM.

G. DIMENSIONING AND TOLERANCING PER ASME Y14.5 IN LIEU OF ANSI Y14.5-1973.

H. SURFACE ROUGHNESS PER ASME B46.1 IN LIEU OF ASA B46.1-1962.

I. SHOT PEEN PER SAE AMS-S-13165 IN LIEU OF MIL-S-13165, ALL OTHER ASPECTS OF NOTE 5 APPLY.

J. FOR PARTS HEAT TREATED TO 180 KSI AND ABOVE, ANY SURFACE GROUND/MACHINED AFTER HEAT TREAT, SHALL BE INSPECTED FOR ABUSIVE GRINDING/MACHINING BURNS PER MIL-STD-867 IN LIEU OF MM5512. GRINDING SHALL BE PER MIL-STD-866 IN LIEU OF MM5759.

K. HEAT TREAT PER SAE AMS-H-6875 IN LIEU OF MIL-H-6875 AND MM 4995.

PREPARED BY	SYMBOL	DATE
ANDREW CLARK	**515 CBSS/GBEA**	**20080414**

L. CHROME PLATE PER MIL-STD-1501, TYPE II, CL 2 PER DRAWING REQUIRMENTS IN LIEU OF QQ-C-320, UNDERSIZE DIMENSION M TO 1.6142-1.6124 PERMITTED TO ALLOW CHROME BUILDUP.

M. CADMIUM PLATE PER MIL-STD-870 TYPE II CLASS 2 IN LIEU OF MM 5542 & MM4951.

N. FINISH ASSEMBLY PER THE FOLLOWING:

1. APPLY ONE COAT EPOXY WATERBORNE PRIMER PER MIL-PRF-85582 TYPE I CLASS C2 OR N. ALTERNATE ONE COAT OF EPOXY POLYAMIDE PRIMER PER MIL-PRF-23377 TYPE I CLASS C2 OR N IN LIEU OF MIL-P-23377.

2. APPLY TWO TOPCOATS POLYURETHANE PER MIL-PRF-85285 TYPE I CLASS H COLOR NUMBER 17925 (WHITE) PER FED-STD-595 IN LIEU OF MIL-C-83286 COLOR NUMBER 17875.

O. CORROSION PROTECTION PER MIL-C-16173 CLASS II, GRADE 2, IN LIEU OF MM5752.

P. 515 CBSS/GBEA RETAINS ALL RIGHTS TO REVIEW AND ACCEPT MATERIAL REVIEW BOARD (MRB) DISPOSITIONS PRIOR TO SHIPMENT OF DISCREPANT ITEM. ALL DEVIATIONS, MINOR AND MAJOR, FROM THE ENGINEERING DRAWING PACKAGE SHALL BE SUBMITTED FOR MRB DISPOSITION.

Q. PRIOR TO CONTRACT AWARD, THE CONTRACTOR SHALL CERTIFY TO THE GOVERNMENT IN WRITING FULL COMPLIANCE WITH MANUALS, SPECIFICATIONS AND STANDARDS CALLED OUT AND REQUIRED FOR THE MANUFACTURE OF THIS CONTRACTED LANDING GEAR COMPONENT/ASSEMBLY. CONTRACTOR IS RESPONSIBLE TO COMPLETELY SEARCH THESE MANUALS, SPECIFICATIONS AND STANDARDS AND FULLY UNDERSTAND THE REQUIREMENTS NECESSARY TO MANUFACTURE LANDING GEAR COMPONENTS. ANY QUESTIONS CAN BE FORWARDED TO 515 CBSS/GBEA.

R. THE MAXIMUM ALLOWABLE DELAY FOR THE 4 HOUR BAKE BETWEEN CHROMIUM PLATE AND CADMIUM PLATE OPERATIONS AS REFERENCED IN MIL-STD-1501 SHALL BE 4 HOURS.

S. THIS ITEM HAS BEEN DESIGNAED CSI, SEE AESO 06A0720 FOR CRITICAL CHARACTERISTICS.

PREPARED BY	SYMBOL	DATE
ANDREW CLARK	**515 CBSS/GBEA**	**20080414**

SOURCE QUALIFICATION STATEMENT
(PL 98-525, Section 2319)

SECTION A. ITEM IDENTIFICATION

1. STOCK NUMBER (NSN): 5315-01-269-8500

2. PART NUMBER (P/N): 2007405-31

3. NOUN: Pin, Pivot, Linkage Attachment

4. APPLICATION: F-16

SECTION B

JUSTIFICATION FOR ESTABLISHING QUALIFICATION REQUIREMENTS AND REASON WHY QUALIFICATION REQUIREMENTS MUST BE DEMONSTRATED PRIOR TO CONTRACT AWARD

1. Characteristics associated with the manufacturing and processing of this component could result in product functional degradations. This item performs a critical function on the aircraft and special equipment is required for its manufacture and testing. Close tolerance machining is required. Special care and attention is required but not limited to surface finish, processing, and assembly of this item. This item is particularly susceptible to process induced manufacturing flaws; therefore care must be taken to insure a potential vendor's capability prior to contract award.

2. The bidder's ability to interpret Engineering drawings and specifications and the execution of the qualification requirements specified herein are necessary to verify the structural and/or functional integrity and/or fit and form of the item being procured.

3. Failure to procure this item from a fully qualified source could result in failure of the part, degradation of aircraft mission capability, or loss of aircraft and crew.

4. Completion of the specified pre-contract award qualification requirements will assure the government that the offerer is capable of producing the item in compliance with the applicable technical specification/data and within the schedule and economic constraints of our contracts. There are sufficient technical and schedule risks, which can only be minimized by a completion of the requirements prior to contract award.

SOURCE QUALIFICATION REQUIREMENTS
(PL 98-525, SECTION 2319)

STOCK NR (NSN)5315-01-269-8500 PART NUMBER (P/N)2007405-31
NOUN: Pin, Pivot, Linkage Attachment AIRCRAFT:F-16

SECTION C

QUALIFICATION REQUIREMENTS THAT MUST BE SATISFIED TO BECOME A QUALIFIED SOURCE

1. Because of the need for uninterrupted item support to military aircraft systems and in keeping with the requirements of PL 98-525, the current acquisition need not and generally will not be delayed to provide an offerer an opportunity to qualify. Normal acquisition practices at OO-ALC should preclude the denial of opportunity to any interested offerer.

2. The offerer must provide a pre-contract award qualification article, which meets the requirements of the engineering drawings, material specifications, and process specifications. However, successful completion of the qualification testing does not guarantee any contract award. If the offeror is deemed qualified and awarded the contract, a post-contract award first ariticle exhibit may be required to verify production capability.

3. The required materials will be procured from a qualified source and will meet the requirements of their respective specifications. The offerer will assure that the material supplier has accomplished this and will submit certified documentation of accomplishment of the above requirements to the purchaser along with the pre-contract award qualification article.

4. The qualification article shall demonstrate full compatibility and comparability with existing parts, and once submitted, will be subjected to such testing as deemed necessary by the government, to insure the article meets all dimensional, processing, and functional requirements. Such testing may result in the destruction of the article. Following completion of necessary testing and evaluation, the article, no matter what its condition, shall be returned to the contractor or disposed of at his discretion and direction, whether it was found acceptable or not.

5. Form verification: The Government's Quality Verification Center will verify compliance with dimensional data requirements. Material and process compliance will also be verified as required.

6. Fit/function verification: Existing components and Government test stands/fixtures will be utilized to verify physical interface and functional performance of articles.

7. Testing for material and process compliance

(a) Material analysis
(b) Heat treat
(c) Grinding
(d) Plating
(e) Finish
(f) Other

8. Remarks:

a. Organic verification capabilities exist at OO-ALC.

b. Test requirements outside organic capabilities will be contracted out to independent laboratories.

9. The estimated cost of government testing and evaluation is $1500.00

10. Maximum time for testing of the qualification article will not exceed 30 days from receipt at testing agency.

SOURCE QUALIFICATION REQUIREMENTS
(PL 98-525, SECTION 2319)

STOCK NR (NSN)5315-01-269-8500 PART NUMBER (P/N)2007405-31
NOUN: Pin, Pivot, Linkage Attachment AIRCRAFT:F-16

SECTION D

QUALIFICATION WAIVER REQUIREMENTS.

1. An offerer who has had previous experience in the manufacture and qualification of items, which can be correlated with this product, may apply to the design control authority at OO-ALC for a waiver of the above stated qualification requirements.

a. The qualification waiver criteria utilized by the design control authority to perform a qualification analysis are available upon request. The qualification waiver criteria may be used as a guide in preparing the offerer's written input to the design control authority.

b. The burden of proof for written inputs is on the offerer. The design control authority will not pursue authenticity verification of claims made by the offerer of product manufacturing experience with other Government or non-Government agencies. Unsubstantiated claims will not be considered in the waiver analysis process.

c. This waiver will be granted if and only if the design control authority (GBEA) can establish the qualifications of the offerer through the evaluation of written inputs from the offerer or from previous knowledge of the offerer's capabilities or from previous experience with the offerer on similar item acquisitions. If there is any doubt about the offerer's capability, the offerer will be required to submit a pre-qualification article. There is no guarantee of qualification by similarity. GBEA reserves the right to require a pre-qualification article of all offerers.

2. The current acquisition need not and will not be delayed in order to provide an offerer with an opportunity to meet the requirements for qualification waiver.

3. Maximum time for approval of qualification by similarity will not exceed 15 days.

SOURCE QUALIFICATION REQUIREMENTS
(PL98-525, SECTION 2319)

STOCK NR (NSN)5315-01-269-8500
NOUN Pin, Pivot, Linkage Attachment

PART NUMBER (P/N)2007405-31
Aircraft: F-16

SECTION E

MASTER SIGNATURE BLOCK:

515 CBSS/GBEA Engineer

20080626
Date

515 CBSS/GBEA Lead Engineer

20080826
Date

The Master SQS has been coordinated by CR, BC, and SBA and approved by LIK on 4 April 01. The Master SQS coordination copies are kept on file in 515 CBSS/GBEA (Reference: SP 01-105)