

14153 QAP-CSI000764205
DTD 14 JAN 09

**DEFENSE SUPPLY CENTER PHILADELPHIA
QUALITY ASSURANCE PROVISION**

NSN: 5306-00-076-4205

P/N: 23037239

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

FIRST ARTICLE REQUIREMENTS
(AFLCR 70-22 and FAR PART 9, SUB PART 9.3)

1. DATE
9 November 2005

2. P/R/MIPR NUMBER

3. PART NUMBER
23037239

4. NSN
5306-00-076-4205

5. FIRST ARTICLE QUANTITY
THE FIRST ARTICLE IS 3 UNIT(S) OF LOT/ITEM EACH
AND WILL BE : PART OF PRODUCTION QUANTITY IN ADDITION TO PRODUCTION QUANTITY

6. ARTICLES
 WILL WILL NOT SERVE AS A MANUFACTURING STANDARD

7. LONG LEAD TIMES
 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 procured 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. A. Contractor Testing Government Testing
The performance or other characteristics which the first article must meet in order to be approved are:
As specified on drawing, 23037239, the referenced specifications therein and NASM 85604.
B. The test(s) to which the first article will be subjected to are given in:
(See A above.)
(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 written notification to ACO and _____
of test time and location due _____ days _____
prior to start of testing. Requesting activity

E. TEST REPORT REQUIRED
(1) DD Form 1423 ELIN _____
(2) Due 120 calendar days from date of contract
(3) Forward to : see Block 12.
(4) Government written notice of approval / disapproval due 90 days after receipt of contractors 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 for 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:
\$400.00

10. Disposition of First Articles:

Approved first articles will be forwarded to _____.

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. (NOTE: If disposition instructions are not received within 30 days of contractor notification of disapproval, disposition will be determined by _____.)

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 retained by _____ pending disposition instructions from the contractor.

On purchase request 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(s).
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. Offerors who have previously furnished production quantities of the same article to the prime contractor for delivery to the _____ Government, X DOD, _____ Air Force.
- b. Offerors currently in production of the same article for the _____ Government, X DOD, _____ Air Force and who have received First Article approval under the existing contract.
- c. Offerors who have previously furnished production quantities of the same article to the _____ Government, X DOD, _____ Air Force, providing articles thus furnished have exhibited satisfactory performance in service, in the opinion of 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 CONDITION C ABOVE, THE COGNIZANT ENGINEERING ACTIVITY WILL DECIDE WHETHER OR NOT THE ITEM HAS EXHIBITED SATISFACTORY PERFORMANCE IN SERVICE, AND WILL 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

FAI JUSTIFICATION

THE INTEGRITY, FIT, AND FUNCTION OF THIS ITEM IS CRITICAL TO SAFE FLIGHT AND ENGINE OPERATION. IN ORDER TO COMPLY WITH DRAWING SPECIFIED DIMENSIONAL TOLERANCES, MATERIAL SPECIFICATIONS, PROCESS AND QUALITY REQUIREMENTS, A CONTRACTOR MUST HAVE EXPERTISE/ EXPERIENCE WITH SOME OF THE MOST SOPHISTICATED PROCESSES AND STRINGENT CONTROLS KNOWN IN MANUFACTURING. IT IS THEREFORE NECESSARY TO VERIFY THE CONTRACTORS ABILITY TO PRODUCE THIS ITEM. CONDITIONS FOR FIRST ARTICLE WAIVER ARE AS OUTLINED IN BLOCK 11 ABOVE.

9.E.(3) - PCO and 448 MSUG/GBMUED
3001 Staff Drive, Post 1AB-85A
Tinker AFB, OK 73145-3041
Attn: First Article Monitor
DODAAC: FA8111

15. COGNIZANT ENG ORGANIZATION RESPONSIBLE FOR CONDUCTING AND/OR APPROVING TEST (*Name, Organization, and Phone Number*)
Special Engines Engineering Flight
448 HPSG/GBHEE 405 734-4960

16. PR INITIATOR (*Name, Organization, Phone Number*)

TECHNICAL DATA PACKAGE – ENGINEERING NOTES (ENs)

PAGE 1
OF 3 PAGES

NATIONAL STOCK NUMBER
5306-00-076-4205SX

PART NUMBER
23037239

DATE
15 November 2005

1. MANUFACTURING SPECIFICATION NASM85604 IN LIEU OF EMS 85040.
2. LIQUID PENETRANT TESTING PER E 1417 IN LIEU OF AMS 2645.
3. SURFACE TEXTURE PER ASME Y14.36 IN LIEU OF ANSI Y14.36.
4. SCREW THREADS PER AS 8879 IN LIEU OF MIL-S-8879.

TECHNICAL DATA PACKAGE – ENGINEERING NOTES (ENs)PAGE 2
OF 3 PAGESNATIONAL STOCK NUMBER
5306-00-076-4205SXPART NUMBER
23037239DATE
15 November 2005

5. WHEN CHECKED BELOW OR LISTED IN THESE NOTES, DEFINITIONS APPLICABLE TO THIS PRODUCT ARE OR HAVE:

(A) **ENGINEERING CRITICAL IN APPLICATION:** An item, which requires special manufacturing processes, controls, and testing of material or end items. Because of its use or application, failure to maintain the highest reliability of such an item could be catastrophic resulting in loss of life or serious injury, loss of a weapon system or extensive secondary damage, with direct impact on the capability to respond to a national emergency or to achieve wartime sustainability.

(B) **CRITICAL CHARACTERISTICS:** Characteristics which, when defective, are likely to result in hazardous or unsafe conditions for individuals using, maintaining or depending upon the product; or, are likely to prevent performance of the tactical function of a major end item such as an aircraft, missile, space vehicle, engine or a major part thereof. (Derived from MIL-STD-1916).

(C) **MAJOR CHARACTERISTICS:** Characteristics (other than critical or minor), which, when defective, are likely to result in failure or to reduce the usability of the product or a major end item for its intended purpose. (Derived from MIL-STD-1916).

(D) **MINOR CHARACTERISTICS:** All characteristics not designated as critical or major but for which full conformity is required

(E) **COMPLEX:** Items having quality characteristics not wholly visible (hidden characteristics), in the end product for which contractual conformance must be established progressively through precise measurements, tests or controls applied during purchasing, manufacturing, performance, assembly and functional operation either as an individual item or in conjunction with other items [FAR SUBPART 46.203(b)].

(F) **COMMERCIAL:** Described in commercial catalogs, drawings or industrial standards [FAR SUBPART 46.203(a), (1)].

THIS PRODUCT HAS BEEN DETERMINED TO BE OR CONTAINS (AS CHECKED BELOW):

- Engineering critical in application
- Critical characteristics
- Major characteristics
- Minor characteristics, all except critical and major
- Complex
- Available as a commercial product

TECHNICAL DATA PACKAGE – ENGINEERING NOTES (ENs)PAGE 3
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When materials, processes or components are to be obtained from directed sources as indicated herein or in the specifications, the contracting officer of this procuring activity may only utilize alternate sources as a deviation upon prior approval.

Bidders shall notify this procuring activity at the time of quotation of any drawing, specification or standard which is of more current data revision than those shown on the data listing or in these engineering notes. The responsible engineering office of this procuring activity will make determination of acceptability of the more currently dated data.

Lower tier specifications listed in or referenced by first tier specifications may not be shown on the data lists or engineering notes accompanying this contract but are nonetheless required by this contract for compliance. Exceptions would occur only when such lower tier requirements have been specifically waived or substitute specifications/requirements are designated herein.

Reports, process sheets, inspection methods sheets and all other documents required by specifications imposed by this contract for contractor compliance which were previously required to be submitted to a prime design contractor shall be held at that facility for review by government personnel.

When prime design source specifications require or provide for participation by that prime source quality, manufacturing, laboratory or engineering support services, these requirements or provisions do not apply when the contract was issued by this procuring activity. For these services or direction pertaining thereto, contact the cognizant government contract administration office or this procuring activity for assistance.

The contractor is responsible for assuring that all dimensions, conditions, tests and test results identified in these engineering notes, applicable drawings, specifications and contract quality requirements are met by themselves and their suppliers. This requirement applies to all characteristics whether those characteristics have been specifically designed as being critical, major or are those minor characteristics not specifically designated as such.

PROCESS DATA REQUIREMENTS (CHECK WHEN APPLICABLE)

Prior to beginning of manufacture, the contractor will notify the engineering office of this procuring activity of all manufacturing process and processing procedures intended for use in production of this product. Once these processes are established, no changes shall be made without prior approval of the engineering office of this procuring activity.

SERIALIZATION OF PARTS (CHECK WHEN APPLICABLE)

Serialization of each part/assembly (contract end item) is required.

REVISION: ENGINEERING DATA LIST * HISTORY *

DATE: 15NOV05 DATA TECH: UTZ ORGN SYMBOL: LGIDCA PR NR: APPLICATION: 756 RED GR BOX PAGE 1 OF 1

CAGE: 63005 MANUFACTURER NAME: ROLLS ROYCE CORP REFERENCE NR: 23037239 NOUN: BOLT, EXTERNALLY REL NSN: 53060007642055X

CAGE	DRAWING NUMBER	REV	NR SHEETS	NR CARDS	FURN CODE	DIST CODE	NOUN	REQUIREMENTS
63005	23037239	A	0000	0000	S		BOLT, MACHINE	SEE ENGINEERING NOTES 1 THRU 5.
63005	EDT-500	12	0000	0000	S		DRAWING PRACTICES	
73342	EMS35	G	0000	0000	S		LUBRICATING OIL	
00000	AMS 5662	M	0000	0000	O		NICKEL ALLOY	
00000	AMS 7272	F	0000	0000	O		RINGS, SEALING	
00000	AS 478	L	0000	0000	O		ID MARKING METHODS	
00000	AS 8879	D	0000	0000	O		SCREW THREADS	
00000	ASME Y14.36	M	0000	0000	O		SURFACE TEXTURE	
00000	E 1417	/	0000	0000	O		LIQUID PENETRANT TESTING	
00000	MTL-L-7808	K	0000	0000	O		LUBRICATING OIL	
00000	QPL-7808	/	0000	0000	O		QUALIFIED PRODUCTS LIST	
00000	MTL-L-23699	E	0000	0000	O		LUBRICATING OIL	
00000	QPL-23699	/	0000	0000	O		QUALIFIED PRODUCTS LIST	
00000	NASMS5604	/	0000	0000	O		BOLT, NICKEL ALLOY	

STANDARD ENGINEERING TEXT

RELEASE OF THIS DATA TO A FOREIGN-OWNED, CONTROLLED OR INFLUENCED COMPANY IS DEPENDENT UPON THE APPROVAL OF THE FOREIGN DISCLOSURE OFFICE.

ENGINEERING DATA LIST REMARKS

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 BOOKS).
 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.

AMC/AMSC SCREENING ANALYSIS WORKSHEET

PRIORITY
CATEGORY

POTENTIAL
REQUIREMENT
IDENT. DATE

* HISTORY *

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09NOV05

SECTION A ITEM IDENTIFICATION AND INFORMATION

1. NSN 5306000764205SX	2. NOUN BOLT, EXTERNALLY REL	3. END ITEM T56 RED GR BOX	4. PCC	5. ERRC N
6. INI 08JAN06	7. QTY 220	8. UNIT COST \$12.39	9. IDENTIFYING NUMBER (PART NO.) R/N: 23037239	
10. BP/SMC/MPC/FY 9 / / / 6		11. PR YRS 10	12. EST ANNUAL BUY VALUE \$2,725.80	13. PR/MIPR VALUE \$2,725.80
14. COMM OFF THE-SHELF ITEM (Y/N/U): N	15. FORM 1 TYPE ITEM (Y/N/U): N	16. NUC. CERT. END ITEM (Y/N/U): N	17. HARD CRIT. IND (Y/N/U): N	
NEXT HIGHER ASSEMBLY				
18. NSN:	19. NOUN:	20. R/N:	21. CAGE:	

SECTION B SUMMARY OF SCREENING ACTION

1. STAT C	2. DIV E	3. CTIC	4. ACQUISITION IDENTIFYING NUMBER R/N: 23037239	5. REV	6. CQR/I&A 0
7A. DESIGN DIS N	7B. SPEC CNTRL N	7C. SRC CNTRL 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 D	
13. AMC/AMSC 2C	14. DCC C1	15. EXP DT 0109	16. PRV AMC/S/DT 00 / 0000	17. NBR DRWGS REVD 0	
18. AMC COMPLETION DT: 22DEC05			19. MM RECMD AMC/AMSC:		
	IM	EQ/SP	CR TECH	CR ENGR	MM ENGR
20. DATE BEGAN	09NOV05	09NOV05	14NOV05		16NOV05
21. DATE COMPLETED	09NOV05	14NOV05	22DEC05		20DEC05
22. CODE/PHONE NR NAME	XXX / 46838 MORRIS LIN	5E / 49167 LOPEZ MARC	UTZ / 64438 ZIMMER, JO	/	EKW / 49198 WHITEHURST
23. ORGANIZATION	ITBS	LPERB	LGLDCA		LPERB

SECTION C ECONOMIC EVALUATION

EST SAVING/LOSS OVER FUTURE PROG	A. SAV FACTOR %	B. \$ COST OF BREAKOUT
(ABV x A x PROG-YRS) - B = \$0.00	0	\$0.00

SECTION D PROCUREMENT SUPPORT REQUIRED

1. FIRST ARTICLE TEST (Y/N): Y	2. TECHNICAL DATA PACKAGE (Y/N): Y
3. EXPORT CONTROL (Y/N): N	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): Y
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
063005	23037239	32	00UCY9	M S AEROSPACE	

AMC/AMSC SCREENING ANALYSIS WORKSHEET

* HISTORY *

(CONTINUING SHEET)

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NSN : 5306000764205SX

AMC/AMSC : 2C

IM DATE BEGAN : 09NOV05

SECTION F SCREENING EVALUATION/REMARKS

1. JUSTIFICATION FOR SUFFIX CODE OTHER THAN G :

THIS PART REQUIRES ENGINEERING SOURCE APPROVAL BY THE DESIGN CONTROL ACTIVITY IN ORDER TO MAINTAIN THE QUALITY OF THE PART. AN ALTERNATE SOURCE MUST QUALIFY IN ACCORDANCE WITH THE DESIGN CONTROL ACTIVITY'S PROCEDURES, AS APPROVED BY THE COGNIZANT GOVERNMENT ENGINEERING ACTIVITY.
BRIAN WHALEN GBMUEC 736-4438

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

3. REMARKS

BOLT IS USE IN THE ASSEMBLY OF THE T56 GEARBOX, T.O.T56-54.
QR'S APPLY AND ARE ATTACHED

SECTION G MISCELLANEOUS INFORMATION

1. PROCUREMENT HISTORY (LAST 5 BUYS) : STD PRICE \$12.39

AWARD DATE	CLIN QTY	UNIT PRICE	SUPPLIERS 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

REMARKS :

3. POTENTIAL SOURCES

DESIGN ACTIVITY INFORMATION			SUPPLIER INFORMATION		
CAGE	REFERENCE NUMBER	RNC	CAGE	CONTRACTOR'S NAME	Orig/Eval