

**\* QUALITY ASSURANCE PROVISIONS****SPECIFICATIONS:****NSN: 5306-01-137-7358 P/N:(76301) 74A410774-2003****NOMENCLATURE: Bolt, Hex M/L/G**

Articles to be furnished hereunder shall be manufactured, tested and inspected in accordance with drawing number (76301) 74A410774 REV. "F " or latest revision, and all details and specifications referenced therein.

**I. QUALITY/INSPECTION REQUIREMENTS**

- A. MIL-I-45208 or ISO 9000 Equivalent applies:**
- B. First Article Testing applies:**
- C. Production Lot Testing applies:**
- D. Mandatory Inspection applies:**

**II. SUPPLEMENTAL REQUIREMENTS**

- A. Additionally, para. 3.1, 3.5, 5.1, 5.2, 6.1, 6.2 of MIL-Q-9858 or ISO 9000 equivalent applies.**
- B. The contractor shall include on the detailed process operation sheets developed, a tracking method that is traceable to the contract, all in-house manufacturing processes and the identity of all manufacturing sources performing process/operations outside of their facilities. These sheets shall not be revised or altered after the successful completion of FIRST ARTICLE OR PRODUCTION LOT TESTING without the approval from the basic design engineering activity via the P.C.O..**
- C. The inspection method sheets which list the characteristics of each item produced under the contract shall have serial number traceability to the raw material, casting, or forging. The tracking method used on the inspection/method sheets shall be traceable to the contract. In addition, the contractor is responsible for providing completed inspection method sheets showing the actual dimensions taken of all critical characteristics.**
- D. Markings should be I/A/W MIL-STD-130 REV."K" para 5.3.3(a),(b),(c),(g). Method and location shall be I/A/W the drawing.**

### III. MANDATORY INSPECTION REQUIREMENTS:

During production, mandatory inspection is required to be accomplished by the contractor as follows:

#### A. LEVEL OF INSPECTION (L.O.I.)

- 1) Critical Characteristics: 100% inspection and documentation of dimensions taken shall apply
- 2) Major and Minor Characteristics: L.O.I. shall be I/A/W a sampling plan acceptable to the Q.A.R..

#### B. CRITICAL CHARACTERISTICS FOR:

McDonnell Aircraft: (76301) 74A410774-2003

- 1.) Heat Treat per P.S. 15296: Dwg Note 8
- 2.) Temper Etch Per P.S. 21205: Dwg Note 11
- 3.) Stress Relieve Per P.S. 15063: Dwg Note 10
- 4.) Magnetic Particle Insp Per P.S. 21201 Class "B": Note 12
- 5.) Penetrant Inspection Per P.S. 21202 Class "A": Note 21
- 6.) Shot Peening Per P.S.14023: Note 15
- 7.) Chrome Plating Per P.S. 13102 Class "B": Note 18
- 8.) Cadmium Plating Per P.S. 13144 Type II, Class II: Note 17
- 9.) Seal Chrome Per P.S. 11501: Note 18
- 10.) Zone 5 B  
1.375-12UNJF-3A Thread    
MAJOR DIA 1.3750+.0000/-.0100 Before Plating  
MAJOR DIA 1.3740+.0000/-.0104 After Plating  
PITCH DIA 1.3189+.0000/-.0039 Before Plating  
PITCH DIA 1.3209+.0000/-.0047 After Plating

- 11.) Zone 5 B  
1.367+.000/-.001 Before Plating 16 ✓  
1.374+.000/-.001 After Plating 16 ✓
- 12.) Zone 6 B  
.015+.005/-.000 Undercut
- 13.) Zone 6 B  
.025+.005/-.000 Undercut
- 14.) Zone 6 B  
.050+.010/-.000 Radius
- 15.) Zone 7 B  
1.258+.000/-.010 Dia
- 16.) Zone 7 C  
.250+.005/-.000 Typ shall be Symmetric with "B"  
Within .005 Total
- 17.) Zone 8 C  
1.156+.010/-.000 shall be Symmetric with "B"  
Within .010 Total

**C. MAJOR AND MINOR CHARACTERISTICS:**

- 1) Shall be defined by the contractor subject to Q.A.R. concurrence, unless defined on applicable drawings and associated specifications.

**IV. Unless expressly provided for elsewhere in this clause, equipment such as FIXTURES, JIGS, DIES, PATTERNS, TEMPLATES, MYLARS, SPECIAL TOOLING, TEST EQUIPMENT, or any other manufacturing aid required for the manufacture and/or testing of the subject item will not be provided by the government or any other source and is the sole responsibility of the contractor. The foregoing applies notwithstanding any reference to such equipment or the furnishing thereof that may be contained in any drawing or referenced specification.**

## **FIRST ARTICLE TEST REQUIRED (GOVERNMENT TESTING)**

### **I. First Article Inspection/Test Criteria:**

The tests to be performed under the contract approval clause of the contract are:

- A. Dimensional Check 100%**
- B. Form/Fit**
- C. Identification**
- D. NDI**
- E. Material Analysis**
- F. Visual: Verification of the overall workmanship**
- G. Compliance with drawing, (76301) 74A410774-2003 REV." F ", or latest revision, and associated drawings, and specifications referenced therein.**
- H. Packaging and Preservation: Verification that the parts have been preserved and packaged per the requirements of the contract.**
- I. Review documentation as provided under DD 1423 requirements.**

In addition to the above tests, the First Articles are to be delivered hereunder shall also be subjected to those tests which will demonstrate that the articles comply with contract requirements.

The contractor shall be responsible for providing necessary parts and repair of the First Article Samples during testing.

### **II. Samples to be submitted for testing: Quantity: Two (2)**

- A. Estimated cost: TBD**
- B. Waiver of First Article Testing Requirements may be granted for:  
(76301) McDonnell Aircraft**

**III. Testing shall be performed at the Government Designated facility listed below:**

NAVAL Aviation Depot  
ATTN: Mrs. Debbie Rodr  
Code: 93001, Bldg. 341  
NAS North Island  
San Diego, CA 92135-7058

**IV. Special Instructions:**

- A. Contractor shall provide two samples, one sample shall be free of all plating, and one sample shall be plated, corrosive areas coated with a light preservative.**
- B. Samples may be considered as production items under the contract provided that the samples can be refurbished to ready for issue (RFI) condition and that the samples have inspection approval of the cognizant Q.A.R. Samples may be shipped as production items only after all other units required under the contract have been produced and are ready for shipment.**
- C. Samples will be returned to the contractor if not destroyed in testing**
- D. Estimated Production Lead-Time Schedule:**
  - 1. Submission of the First Article samples by the contractor: 120 days**
  - 2. Analysis of FAT report and notification to contractor: 45 days**
  - 3. Production delivery after First Article acceptance: 90 days**
  - 4. Total accumulated calendar days 255 days**

## **NOTIFICATION OF SHIPMENT OF MATERIAL FOR GOVERNMENT TESTING**

Fourteen (14) days prior to shipment of First Article Samples, the contractor shall notify the designated test facility, in writing of the anticipated shipping date, with an information copy to the P.C.O.. The contractor shall also arrange for preliminary inspection of test samples by the CAO/QAR.

Upon shipment of First Article Samples, two (2) copies of the Material Inspection and Receiving Report (DD Form 250), bearing the QAR's signature and indication of preliminary inspection, shall be forwarded to the designated test facility. The envelopes shall be clearly marked. "**DO NOT OPEN IN MAILROOM**".

Within 105 days after receipt of the samples, the test site shall complete testing/evaluation and submit two (2) copies of their test report with conclusions and recommendations to the P.C.O..

Disposition instruction must be provided to NADEP North Island, First Article Coordinator.

## **PRODUCTION LOT TESTING REQUIREMENTS (GOVERNMENT TESTING)**

The material produced under contract shall be accepted by the cognizant CAO/QAR contingent upon the successful completion of these requirements.

### **I. Production Lot Test Sampling Requirements:**

- A. The cognizant CAO/QAR shall select two (2) items at random from the first production lot produced. In addition the QAR shall select one (1) item at random from each successive lot or portion thereof.**
- B. Production Lot Testing to be completed during production after First Article approval.**
- C. First Production Lot samples, one sample is to be unplated and one sample is to be plated. Samples shall have corrosive areas coated with a light preservative. Each successive Production Lot sample shall be plated, corrosive areas shall be coated with a light preservative.**

### **II. The tests to be performed under the Production Lot Sample testing provisions of the contract are:**

- A. Compliance with drawing, (76301) 74A410774 REV. " F " or latest revision, associated drawings, and specifications referenced therein.**
- B. Dimensional Check 100%**
- C. Visual: Verification of the overall workmanship**
- D. Packaging and Preservation: Verification that the parts have been preserved and packaged per the requirements of the contract.**
- E. Review of documentation as provided under CDRL, DD1423**

In addition to the above tests, the Production Lot Samples to be delivered hereunder shall also be subjected to those tests which will demonstrate that the samples comply with contract requirements.

### III. Testing Location, Cost and Estimated Lead-time:

- A. Ship samples/Data to NADEP, North Island ,Code: 93001, Bldg. 341
- B. Shipping container marking: NON RFI
- C. Estimated Cost for Inspection/Test is TBD.
- D. Estimated Lead-time for Inspection/Test is TBD.

Within fifteen days of completion of Production Lot Testing, the CAO/QAR shall prepare and submit two copies of the test report with conclusions and recommendations to the contracting officer.

### IV. Shipment and Distribution of Samples:

- A. Fourteen (14) days prior to shipment of production lot samples, the contractor shall notify the designated test facility, in writing, of the anticipated shipping date, with an information copy to the P.C.O. . The contractor shall also arrange for preliminary inspection of the test samples by the CAO/QAR.
- B. Upon shipment of Production Lot Samples, two (2) copies of the Material Inspection and Receiving Report (DD Form 250), bearing the QAR'S signature and indication of preliminary inspection, shall be forwarded to P.C.O. and to the designated test facility. The envelope shall be clearly marked. **"DO NOT OPEN IN MAILROOM"**.
- C. Samples may be considered as production items under the contract provided the samples can be refurbished to Ready For Issue (R.F.I.) condition and provided the samples have inspection approval of the cognizant CAO/QAR. Samples may be shipped as production items only after all other units required under the contract have been produced and are ready for shipment.
- D. Samples will be returned to the contractor. Disposition instructions must be provided to NADEP North Island, First Article Coordinator.
- E. The designated test facility and the contracting officer shall be notified as to all shipping data applicable to the samples, such as bill of lading number, method of shipment, etc... 14 days prior to shipment.

# CONTRACT DATA REQUIREMENTS LIST

Form Approved  
OMB NO. 0704-0188

Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY		D. DATE		E. CONTRACT/PR NO.		F. CONTRACTOR	
				TDP _____ TM _____ OTHER _____							
1. DATA ITEM NO. <b>1</b>		2. TITLE OF DATA ITEM <b>CERTIFICATION DATA REPORT</b>				3. SUBTITLE <b>COMPLETE PROCESS OP SHEETS</b>					
4. AUTHORITY (Data Acquisition Document No.) <b>DI-MISC-80678/T1</b>				5. CONTRACT REFERENCE				6. REQUIRING OFFICE <b>DSC RICHMOND</b>			
7. DD 250 REQ <b>LT</b>	9. DIST STATEMENT REQUIRED	10. FREQUENCY <b>AS REQ</b>	12. DATE OF FIRST SUBMISSION <b>SEE BLOCK #16</b>			DISTRIBUTION					
8. APP CODE <b>A</b>		11. AS OF DATE <b>AS REQ</b>	13. DATE OF SUBSEQUENT SUBMISSION <b>SEE BLOCK #16</b>			a. ADDRESSEE		b. COPIES			
				Draft				FINAL			
								Reg	Repro		
16. REMARKS PARA. 10.1, 10.2, 10.2.2, 10.2.4, 10.2.5 SHALL APPLY * UPON SUBMISSION OF FIRST ARTICLE/PRODUCTION LOT TEST SAMPLE(S) ** IF PROCESS OPERATION SHEETS CHANGE AFTER SUCCESSFUL COMPLETION OF FAT/PLT.						DCMC		*	1/0		
						NADEP/NORIS		**	1/0		
						CODE: 93001					
						15. TOTAL				2/0	
1. DATA ITEM NO. <b>2</b>		2. TITLE OF DATA ITEM <b>CERTIFICATION DATA REPORT</b>				3. SUBTITLE <b>COMPLETE INSPECTION METHOD SHEETS</b>					
4. AUTHORITY (Data Acquisition Document No.) <b>DI-MISC-80678/T2</b>				5. CONTRACT REFERENCE				6. REQUIRING OFFICE <b>DSC RICHMOND</b>			
7. DD 250 REQ <b>LT</b>	9. DIST STATEMENT REQUIRED	10. FREQUENCY <b>AS REQ</b>	12. DATE OF FIRST SUBMISSION <b>SEE BLOCK #16</b>			DISTRIBUTION					
8. APP CODE <b>A</b>		11. AS OF DATE <b>AS REQ</b>	13. DATE OF SUBSEQUENT SUBMISSION <b>SEE BLOCK #16</b>			a. ADDRESSEE		b. COPIES			
				Draft				FINAL			
								Reg	Repro		
16. REMARKS PARA. 10.1, 10.2, 10.2.1, 10.2.2, 10.2.4, 10.5 SHALL APPLY * UPON SUBMISSION OF FIRST ARTICLE/PRODUCTION LOT TEST SAMPLE(S) ** AT TIME OF CONTRACT COMPLETION.						DCMC		*	1/0		
						NADEP/NORIS		**	1/0		
						CODE: 93001					
						15. TOTAL				2/0	
1. DATA ITEM NO. <b>3</b>		2. TITLE OF DATA ITEM <b>REQUEST FOR WAIVER</b>				3. SUBTITLE					
4. AUTHORITY (Data Acquisition Document No.) <b>DI-CMAN-80640C</b>				5. CONTRACT REFERENCE				6. REQUIRING OFFICE <b>DSC RICHMOND</b>			
7. DD 250 REQ <b>LT</b>	9. DIST STATEMENT REQUIRED	10. FREQUENCY <b>AS REQ</b>	12. DATE OF FIRST SUBMISSION			DISTRIBUTION					
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION			a. ADDRESSEE		b. COPIES			
				Draft				FINAL			
								Reg	Repro		
16. REMARKS						DCMC/ACO				1/0	
						DCMC/QAR				1/0	
						PCO				1/0	
						15. TOTAL				3/0	
1. DATA ITEM NO. <b>4</b>		2. TITLE OF DATA ITEM <b>REQUEST FOR DEVIATION</b>				3. SUBTITLE					
4. AUTHORITY (Data Acquisition Document No.) <b>DI-CMAN-80640C</b>				5. CONTRACT REFERENCE				6. REQUIRING OFFICE <b>DSC RICHMOND</b>			
7. DD 250 REQ <b>LT</b>	9. DIST STATEMENT REQUIRED	10. FREQUENCY <b>AS REQ</b>	12. DATE OF FIRST SUBMISSION			DISTRIBUTION					
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION			a. ADDRESSEE		b. COPIES			
				Draft				FINAL			
								Reg	Repro		
16. REMARKS						DCMC/ACO				1/0	
						DCMC/QAR				1/0	
						PCO				1/0	
						15. TOTAL				3/0	

17. PRICE GROUP  
18. ESTIMATED TOTAL PRICE

