

## **\* QUALITY ASSURANCE PROVISIONS**

**NSN: 1560-00-066-3065 P/N:(26512) 123AMM10103-1**

**NOMENCLATURE: Link Assy.,Aileron**

Articles to be furnished hereunder shall be manufactured, tested and inspected in accordance with drawing number (26512) 123AMM10103-1, REV. " J ", 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 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. If the contractor deviates from the frozen Process/Operation sheets or Inspection/Method sheets, a new First Article Inspection shall be required.**
- E. Markings should be I/A/W MIL-STD-130, or latest revision, 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:

Grumman Aircraft P/N: (26512) 123AMM10103-1

- 1) Zone 5-C  
1.2493-1.2488 Dia. 2 Places
- 2) Zone 6-C  
.8118-.8113 Dia 2 Places
- 3) Zone 6-C  
.8118-.8113 Dia shall be concentric within .002 2 Places

#### 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, (26512) 123AMM10103-1, REV." J ",  
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 that are to be delivered hereunder, shall so be subjected to those tests that 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:  
(26512) Grumman 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

(3)

#### **IV. Special Instructions:**

- A.** Contractor shall provide Two samples, one sample shall be unassembled , un-plated and un-painted , one sample shall be plated, painted and assembled, corrosive areas are to be 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: 120 days
  - 4. Total accumulated calendar days 285 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  
(WITNESSED AND ACCEPTED AT THE CONTRACTORS FACILITY)**

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

The Production Lot Samples shall be inspected at the Contractors Facility... Witnessed and accepted by the DCMA/QAR. A written Test report shall be forwarded to the Contracting Officer. All DD 1423 requirements apply.

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

- A. The cognizant CAO/QAR shall select Two (2) items at random from the first production lot, one shall be un-assembled and one shall be assembled.. 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.

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

- A. Dimensional Check 100%
- B. NDI: Review of Certifications
- C. Material Analysis: Review of Material Certifications
- D. Visual: Verification of the overall workmanship
- E. Identification: Verification that the parts are identified per the requirements of the drawing and the contract.
- F. Compliance with drawing, (26512) 123AMM10103-1 Rev. "J", and associated drawings, and specifications referenced therein.
- G. Packaging and Preservation: Verification that the parts have been preserved and packaged per the requirements of the contract.
- H. 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 that will demonstrate that the samples comply with contract requirements.

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

- A.** The Production Lot inspection shall be performed at the contractor's plant by the contractor witnessed and accepted by the DCMC/QAR. Within 15 days of Completion of the Production Lot Testing the CAO/QAR shall prepare and submit two (2) copies of their test report with conclusions and recommendations to the contracting officer. All DD 1423 requirements apply.
  
- B.** 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.

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.

CONTRACT DATA REQUIREMENTS LIST (2 Data Items)					Form Approved OMB No. 0704-0188		
The public reporting burden for this collection of information is estimated to average 220 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 (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. 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: TDP <input type="checkbox"/> TM <input type="checkbox"/> OTHER <input type="checkbox"/>			
D. SYSTEM/ITEM 9G 1560-00-066-3065		E. CONTRACT/PR NO.		F. CONTRACTOR			
1. DATA ITEM NO. 0001	2. TITLE OF DATA ITEM CERTIFICATION DATA REPORT			3. SUBTITLE COMPLETED PROCESS/OPERATION SHEETS			
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80678		5. CONTRACT REFERENCE C-321 SPECIFICATION		6. REQUIRING OFFICE DSCR			
7. DD250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY AS REQUIRED	12. DATE OF FIRST SUBMISSION SEE BLK. 16*	14. DISTRIBUTION			
8. ADP CODE A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK. 16**/**	a. ADDRESSEE		b. COPIES	
16. REMARKS * AT TIME OF COMPLETION OF FIRST ARTICEL TESTING  ** UPON SUBMISSION OF PRODUCTION LOT SAMPLES  *** IF THE PROCESS OPERATIONS CHANGE AFTER APPROVAL OF FIRST PRODUCTION LOT TESTING/PRODUCTION LOT SAMPLES				CAO/QAR	*/**	1/0	
				DSCR/PCO	*/**	1/0	
				NADEP	*/**	1/0	
							15. TOTAL
1. DATA ITEM NO. 0002	2. TITLE OF DATA ITEM CERTIFICATION DATA REPORT			3. SUBTITLE COMPLETED INSPECTION METHOD SHEETS			
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80678		5. CONTRACT REFERENCE C-321 SPECIFICATION		6. REQUIRING OFFICE DSCR			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY AS REQUIRED	12. DATE OF FIRST SUBMISSION SEE BLK. 16*	14. DISTRIBUTION			
8. ADP CODE A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK. 16**	a. ADDRESSEE		b. COPIES	
16. REMARKS * AT TIME OF COMPLETION OF FIRST ARTICLE TESTING  ** UPON SUBMISSION OF PRODUCTION LOT SAMPLES AND AT TIME OF CONTRACT COMPLETION, CONTRACTOR SHALL RETAIN 100% OF CONTRACT QUANTITY RECORDS FOR SEVEN YEARS.				CAO/QAR	*/**	1/0	
				DSCR/PCO	**	1/0	
				NADEP	**	1/0	
							15. TOTAL
G. PREPARED BY 0731.21		H. DATE 02/27/04	I. APPROVED BY		J. DATE 02/27/04		



**CONTRACT DATA REQUIREMENTS LIST**  
(1 Data Item)

Form Approved  
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 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.

<b>A. CONTRACT LINE ITEM NO.</b>	<b>B. EXH/ATCH NO.</b>	<b>C. CATEGORY:</b>	
		TDP	TM OTHER

<b>D. SYSTEM/ITEM</b> 1560-00-066-3065	<b>E. CONTRACT/PR NO.</b>	<b>F. CONTRACTOR</b>
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1. DATA ITEM NO. 0005	2. TITLE OF DATA ITEM CERTIFICATION DATA REPORT	3. SUBTITLE CERTIFICATIONS
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4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80678/T	5. CONTRACT REFERENCE SEE BLOCK 16	6. REQUIRING OFFICE DSC-RICHMOND
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY AS REQUIRED	12. DATE OF FIRST SUBMISSION SEE BLOCK 16*	14. DISTRIBUTION			
8. ADP CODE A	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16**		b. COPIES			
						Final	
				a. ADDRESSEE	Draft	Reg	Repro

16. REMARKS

PARA. 10.1, 10.2, 10.2.1, 10.2.2, 10.2.4, AND 10.5 APPLY

BLOCK #12: UPON SUBMITTAL OF FIRST ARTICLE SAMPLES AND UPON SUBMISSION OF PRODUCTION LOT SAMPLES

BLOCK #3: SEPARATE REPORTS SHALL BE PROVIDED FOR THE BELOW LISTED SUBTITLES, CERTIFICATION REPORTS FOR PRIME PROCESS AND MATERIAL SPECIFICATIONS, SHALL INCLUDE CERTIFICATION THAT ALL VENDORS PERFORMING THESE PROCESSES ARE PRIME, (OEM), GRUMMAN AIRCRAFT, APPROVED SOURCES.

BLOCK #5: CONTRACT REFERENCE: P/N: (26512) 123AMM10103-1

1. MATERIAL CERTIFICATION AND ANALYSIS DOCUMENTATION FOR :  
P/N: (26512) 123AMM10103-3, AL ALLOY PER SAE-AMS-QQ-A-200/11 7075-T6511 or SAE-AMS-QQ-A-225/9 7075-T651  
P/N: G409B-5-218 SPACER 4130 STEEL TUBING PER SAE-AMS-T-6736  
P/N: 123AMP10100-13 WASHER LAM PHENOLIC PER MIL-I-24768
2. CERTIFICATION OF APPROVED MATERIAL SOURCES FOR  
NAS516-1 FITTING  
MS 28913B BEARING  
MS 27641 BEARING
3. CERTIFICATION OF APPROVED SOURCES FOR:
  - a) MAGNETIC PARTICLE INSPECTION PER ASTM E 1444-91
  - b) HEAT TREAT PER SAE-AMS-H-6875
  - c) PENETRANT INSP PER ASTM E 1417
  - d) COATING, ANODIZE PER MIL-A-8625
  - e) CADMIUM PLATING PER SAE-AMS-P-416
  - f) PRIMER, EPOXY PER MIL-P-23377

15. TOTAL						4/0
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G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
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