

## QUALITY ASSURANCE PROVISIONS

NSN: 9G 5306-00-832-9778  
P/N: (88277) 3822901-1  
NOMEN: Bolt, close tolerance

Articles to be furnished hereunder shall be manufactured, tested and inspected in accordance with drawing number (88277) 3822901 Rev. "C", or latest revision and all details, notes, assemblies and specifications referenced therein.

### I. Quality/Inspection Requirements

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

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 their facilities. These sheets shall not be revised or altered after the successful completion of First Article and/or Production Lot Testing without approval from the Engineering Support Activity (ESA), via the PCO.

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 in accordance with MIL-STD-130 Latest Rev. Method and location shall be in accordance with the drawing.

### III. Mandatory Inspection Requirements

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

- A. Level of Inspection (LOI):

1) Critical Characteristics: 100% inspection shall apply.

2) Major and Minor Characteristics - LOI shall be in accordance with a sampling plan acceptable to the QAR.

B. Critical Characteristics:

**DRAWING (88277) 3822901**

***Critical Characteristics:***

(Shall be defined as below, unless defined by the Prime Contractor (88277) Boeing

Diametrical and liner dimensions having a total tolerance of 0.001 or less.

Surface finishes having a 16 value or less.

Any geometric feature control requirements with a total tolerance range of 0.002 or less.

Angular tolerances with a total range less than (1) one degree.

Threads specified to class (3) three or greater.

C. Major and Minor Characteristics:

1) Shall be defined by the contractor subject to QAR 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, Mylar's, special tooling, test equipment, or any other manufacturing aid required for the manufacture and/or testing of the subject items will not be provided by the Government or any other source and is the sole responsibility contractor. The foregoing applies notwithstanding any reference to such equipment or the furnishing thereof that may be contained in any drawing

**FIRST ARTICLE TEST REQUIREMENTS (CONTRACTOR TESTING)**

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

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

A. Dimensional Check 100 % of finished part

B. Compliance with drawing, (88277) 3822901 Rev. "C" or latest revision, and all related specifications, as applicable.

**(F.A.T. requirements continued)**

D. Review documentation as provided under DD 1423 requirements.

In addition to the above tests, the First Articles to be delivered hereunder shall also 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 (s) during testing.

The sample quantity shall be three (3) and be submitted within 180 days

**II. Special Instructions:**

Sample (s) may be considered as production items under the contract provided the sample(s) can be refurbished to ready for issue (RFI) condition and provided the sample(s) have inspection approval of the cognizant QAR. Sample(s) may be shipped as production items only after all other units required under the contract have been produced and are ready for shipment.

A. Marking of test sample (s)

**“FOR FIRST ARTICLE TESTING. NOT FOR RFI, DO NOT TAKE UP IN STOCK”. CONTRACT NUMBER:**

B. If the First Article is disapproved, the contractor, upon Government request, shall submit an additional First Article for testing. After each request, the contractor shall make any necessary changes, modification, or repairs to the First Article or select another First Article for testing. All costs related to these tests are to be borne by the contractor, including any and all costs for additional tests following disapproval. The contractor shall furnish any additional First Article to the Government under the terms and conditions and within the time specified by the Government.

The government shall act of this First Article within the time limit specified the government reserves the right to require an equitable adjustment of the contract price for any extension of the delivery schedule or for any additional costs to the Government related to these tests.

C. If the contractor fails to deliver any First Article on time, or the contracting officer disapproves any First Article, the contractor shall be deemed to have failed to make delivery within the meaning of the default clause of this contract.

D. Unless otherwise provided in the contract, and if the approved First Article is not consumed or destroyed in testing, the contractor-

1) May deliver the approved First Article as part of the contract quantity if it meets all contract requirements for acceptance.

**(F.A.T. requirements continued)**

2) Shall remove and dispose of any First Article from the government test facility at the contractor expense.

E. If the Government does not act within the time specified the contracting officer shall, upon timely written request from the contractor, equitably adjust under the changes clause of this contract the delivery or performance dates and/or the contract price, and any other contractual term affected by the delay.

F. Before First Article approval, the acquisition of materials or components for, or the commencement of production of, the balance of the contract quantity is at the sole risk of the contractor. Before First Article approval, the costs thereof shall not be allocable to this contract for 1)-progress payments, or 2) termination settlements if the contract is terminated for the convenience of the Government.

G. The contractor shall produce both the First Article and the production quantity at the same facility and shall submit a certification to this effect with each First Article.

H. The contractor shall provide specific written notification to the procuring contractor officer informing him/her of the shipment of any articles furnished in accordance with this clause. Such notification must be addressed to the attention of the ACO with copies to the testing activity. Failure to provide such notification shall excuse the government from any delay in performing First Article Testing and informing the contractor of the results thereof.

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

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

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

A. The cognizant CAO/QAR shall select two (2) item (s) at random from the production lot. In addition the QAR shall select one (1) item (s) at random from each successive lot or portion thereof.

B. Production Lot Testing to be completed during production after First Article Approval.

C. Sample (s) are to be unpainted. Corrosive areas to be coated with a light preservative.

**(Production Lot Test Requirements continued)**

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

A. Compliance with drawing (88277) 3822901 Rev. "C" and all specifications referenced therein.

B. Dimensional Check

In addition to the above tests, the Production Lot Sample(s) to be delivered hereunder shall also be subjected to those tests, which will demonstrate, that the sample(s) comply with contract requirements.

C. If the contractor fails to deliver any Production Lot Samples for testing within the time or times specified, or if the contracting officer disapproves any Production Lot Samples, the contractor shall be deemed to have failed to make delivery within the meaning of the default clause of this contract. This contract shall be subject to termination for default.

D. In order for a Production Lot to be acceptable all samples representative of the lot must pass all the contract requirements. In the event a sample fails to pass such requirements; the lot will be rejected. In such an event, the government may, at its option and at no additional cost to the government, (I) terminate all or any portion of this contract for default, (II) require the manufacture of a new Production Lot, or a rework of the rejected Production Lot if the means and procedures by the contractor for rework are acceptable to the government, or (III) require the submission of additional samples for test. The foregoing procedures shall apply to new or reworked Production Lots in the same way as they did to the original Production Lot.

E. For each additional sample or each resubmission of a modified sample which the contractor is required to submit for approval hereunder as a result of a failure of a previous sample to conform to the requirements of the specification, the contractor shall pay to the government the costs of reinspection, examination and retesting and the contractor and his sureties (if any) shall be liable for the amount of such costs.

F. Nothing contained in the foregoing provisions of this clause. and no action of the government in accordance herewith, shall in any way prejudice the right of the government under the clause of this contract entitled Default.

**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 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.

<b>A. CONTRACT LINE ITEM NO.</b>	<b>B. EXHIBIT</b>	<b>C. CATEGORY:</b> TDP <input type="checkbox"/> TM <input type="checkbox"/> OTHER <input checked="" type="checkbox"/>
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<b>D. SYSTEM/ITEM</b> 5306-00-832-9778	<b>E. CONTRACT/PR NO.</b>	<b>F. CONTRACTOR</b>
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<b>1. DATA ITEM NO.</b> 0001	<b>2. TITLE OF DATA ITEM</b> CERTIFICATION DATA REPORTS	<b>3. SUBTITLE</b> COMPLETED PROCESS OPERATION SHEETS	<b>17. PRICE GROUP</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b> DI-MISC-80678/T	<b>5. CONTRACT REFERENCE</b>	<b>6. REQUIRING OFFICE</b> DSCR	<b>18. ESTIMATED TOTAL PRICE</b>
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<b>7. DD250 REQ</b> LT	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY AS REQ</b>	<b>12. DATE OF FIRST SUBMISSION</b> SEE BLOCK 16*	<b>14. DISTRIBUTION</b>
<b>8. ADP CODE</b> A		<b>11. AS OF DATE</b>	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> SEE BLOCK 16 **	

<b>16. REMARKS</b> BLOCK 12 UPON SUBMISSION OF FIRST ARTICLE TEST SAMPLES  BLOCK 13 IF THE PROCESS OPERATION SHEETS CHANGE AFTER COMPLETION AND APPROVAL OF FIRST ARTICLE TEST AND/OR PRODUCTION LOT TEST.	<b>a. ADDRESSEE</b>	<b>b. COPIES</b>	
		Draft	Final
		Reg	Repro
	DCM/CAO	1/0	
	OCH/QAR	1/0	
	NAVICP-P 0731	1/0	
	PCO	1/0	
	<b>15. TOTAL</b>		4/0

<b>1. DATA ITEM NO.</b> 0002	<b>2. TITLE OF DATA ITEM</b> CERTIFICATION DATA REPORTS	<b>3. SUBTITLE</b> COMPLETED INSPECTION METHODS SHEETS	<b>17. PRICE GROUP</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b> DI-MISC-80678/T	<b>5. CONTRACT REFERENCE</b>	<b>6. REQUIRING OFFICE</b> NAVICP-P	<b>18. ESTIMATED TOTAL PRICE</b>
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<b>7. DD 250 REQ</b> LT	<b>9. DEST STATEMENT REQUIRED</b>	<b>10. FREQUENCY AS REQ</b>	<b>12. DATE OF FIRST SUBMISSION</b> SEE BLOCK 16*	<b>14 DISTRIBUTION</b>
<b>8. ADP CODE</b> A		<b>11. AS OF DATE</b>	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> SEE BLOCK 16**	

<b>16. REMARKS</b> BLOCK 12 UPON SUBMISSION OF FIRST ARTICLE TEST  BLOCK 13 UPON TIME OF CONTRACT COMPLETION	<b>a. ADDRESSEE</b>	<b>b. COPIES</b>	
		Draft	Final
		Reg	Repro
	DCM/CAO	1/0	
	DCM/QAR	1/0	
	NAVICP-P 0731	1/0	
	PCO	1/0	
	<b>15. TOTAL</b>		4/0

<b>PREPARED BY</b> NAVICP-P	<b>H. DATE</b> 02-09-02	<b>I. APPROVED BY</b> NAVICP-P	<b>J. DATE</b> 02-09-02
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# INSTRUCTION FOR COMPLETING DD FORM 1423

(See DoD 5010.12-M for detailed instructions.)

FOR GOVERNMENT

## FOR GOVERNMENT PERSONNEL

Item A. Self-explanatory

Item B. Self-explanatory

Item C. Mark (X) appropriate category: TDP - Technical Data Package; TM - Technical Manual Other - other category of data, such as A Provisioning, A Configuration Management, etc.

Item D. Enter name of system/item being acquired that data will support.

Item E. Self-explanatory (to be filled in after contract award)

Item F. Self-explanatory (to be filled in after contract award)

Item G. Signature of preparer of CDRL

Item H. Date CDRL was prepared

Item I. Signature of CDRL approval authority

Item J. Date CDRL was approved

Item 1. See DoD FAR Supplement Subpart 4 71 for proper numbering.

Item 2. Enter title as it appears on data acquisition document cited in Item 4.

Item 3. Enter subtitle of data item for further definition of data item (optional entry)

Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-1 (AMSDL), or one-time DID number, that defines data content and format requirements

Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number)

Item 6. Enter technical office responsible for ensuring adequacy of the data item

Specify requirement for inspection/acceptance of the data item by the Government

Item 8. Specify requirement for approval of a draft before preparation of the final data item

Item 9. For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref DoDD 5230.24)

Item 10. Specify number of times data items are to be delivered

Item 11. Specify as-of date of data item, when applicable

Item 12. Specify when first submittal is required

Item 13. Specify when subsequent submittals are required, when applicable

Item 14. Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16

Item 15. Enter total number of draft/final copies to be delivered

Item 16. Use for additional clarifying information for items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14; Desired medium for delivery of the data item.

## FOR THE CONTRACTOR

Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423

a. Group I. Definition - Data which is not otherwise essential to the contractor performance of the primary contracted effort (production development, testing, and administration) but which is required by DD Form 1423

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort both the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirement, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if not data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract