QUALITY ASSURANCE PROVISIONS

NSN: 9G-1660-00-157-3967
P/N: (26512) 1128SCEC402-1
NOMEN: Heat Exchanger Assembly

Articles to be furnished hereunder shall be manufactured, tested and inspected in accordance with drawing number (26512) 1128SCEC402-1 Rev. "G" 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 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 apply.

B. The contractor shall identify on the process/operation sheets all manufacturing sources performing processes/operations outside of 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 traceability to the raw material, casting, or forging. In addition, the contractor is responsible for providing completed inspection method sheets showing the actual dimensions taken.

D. Markings should be in accordance with MIL-STD-130 Rev. "K" paragraph 5.3.3(a), (b), (c), and (g). 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:
[Shall be defined as below, unless defined by the prime contractor]

[Diametrical and linear dimensions having a total tolerance of 0.001 or less.]

[Surface finishes having a 16 value or less.]

[Any geometric feature control requirement with a total tolerance range of .002"
or less.]

[Angular tolerances with a total range less than 1 degree.]

[Threads specified to Class 3 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 of 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

FIRST ARTICLE TESTS REQUIRED [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, (26512) 1128SCEC402-1 Rev. "G", and specifications referenced therein.

C. 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.

II. Special Instructions: THE FOLLOWING INSPECTION SHALL BE WITNESSED AND DOCUMENTATION SHALL BE REVIEWED BY THE COGNIZANT DCMA/QAR. The DCMA/QAR shall be present to witness all First Article Tests Performed at the Contractor's facility.

1. 100% Dimensional Inspection of Drawing# (26512) 1128SCEC402-1 and all details referenced therein.

2. Review DD Form 1423 Data Item's

3. Process/Operation sheets and Acceptance Test Procedure utilized to manufacture part number (26512) 1128SCEC402-1. The contractor shall include on the detailed process operation sheets 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 Testing without the approval from the basic design engineering activity (NAVAIRSYSCOM) via the PCO.

4. Inspection Method Sheets, which list the critical characteristics of the item and all detail component parts, shall have trace ability 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 methods sheets showing actual dimensions taken of all critical characteristics.

PRODUCTION TESTING REQUIREMENTS

NSN: 9G-1660-00-157-3967
P/N: (26512) 1128SCEC402-1
NOMEN: Heat Exchanger Assembly

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 one (1) item at random from the each 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. Sample(s) are to be unpainted. Corrosive areas are to be coated with a light preservative.

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

A. Compliance with drawing (26512) 1128SCEC402-1 REV. "G", Acceptance Test Procedure and specifications referenced therein.

B. Dimensional Check 100%

C. Review of documentation as provided under CDRL (DD1423) requirements.

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

III. Testing Location, Cost and Estimated Leadtime

A. All testing to be accomplished at contractors facility.

Within fifteen days of completion of Production Lot Testing, NAVAVNDEPOT, and/or CAO/QAR shall prepare and submit two copies of their test report with conclusions and recommendations to the Contracting Officer.

IV. NOTIFICATION OF TESTING:

The contractor shall notify the PCO, ACO and QAR prior to conducting Production Lot Tests so that the Government may witness such testing.

A. The QAR shall be present to witness all Production Lot Tests.

V. Shipment and Distribution of Samples

A. 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 CAO. 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.

VI. The designated test facility and the Contracting Officer shall be notified as to all shipping data applicable to the sample, such as bill of lading number, method of shipment etc.. _____ days prior to shipment.

PRODUCTION LOT SAMPLE TESTING [CONTRACTOR TESTING]

A. The Production Lot Samples shall be selected at random by the cognizant government inspector. The samples shall be identified by contract number, lot number and be clearly marked as follows: PRODUCTION LOT TEST SAMPLES
NOT RFI MATERIAL
DO NOT TAKE UP IN STOCK

B. Such samples shall be tested in sufficient time prior to the delivery date of the production articles to allow a 30 day period for testing and written notification by the contracting officer of the approval or disapproval of the samples. Within 45 days of the receipt of the samples, the CAO shall notify the contracting officer, of the results of the testing, together with a recommendation for approval or disapproval.

C. In the event the contractor does not receive written notification of approval or disapproval of the samples for a particular production lot within 45 days from their submission for such testing, the contract delivery schedule shall be equitably adjusted as necessary.

D. 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, and this contract shall be subject to termination for default.

E. 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 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 proposed 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.

F. 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.

G. 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 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☐ TM☐ OTHER☐
D. SYSTEM/ITEM 9G-1660-00-157-3967	E. CONTRACT/PR NO.	F. CONTRACTOR

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
0001	CERTIFICATION DATA REPORT	COMPLETED PROCESS/OPERATION SHEETS

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MISC-80678	C-321 SPECIFICATION	DSCR

7. DD250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT		AS REQUIRED	SEE BLK. 16*
8. ADP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
A			SEE BLK. 16**/***

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
CAO/QAR	*/***	1/0	
DSCR/PCO	*/***	1/0	
15. TOTAL		3/0	

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 LOTTESTING/PRODUCTION LOT SAMPLES

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
0002	CERTIFICATION DATA REPORT	COMPLETED INSPECTION METHOD SHEETS

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. RE2QUIRING OFFICE
DI-MISC-80678	C-321 SPECIFICATION	DSCR

7. DD 250 REQ	9. DEST STATEMET REQUIRIED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT		AS REQUIRED	SEE BLK. 16*
8. ADP CODE		11AS OF DATE	13DATE OF SUBSEQUENT SUBMISSION
A			SEE BLK. 16**

14 DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
CAO/QAR	*/**	1/0	
DSCR/PCO	**	1/0	
15. TOTAL		2/0	

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.

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
VINCENT J. LOISEAU 0731.14	02/15/03	VINCENT J LOISEAU	02/15/03

CONTRACT DATA REQUIREMENTS LIST
(2 Data Items)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP☐ TM☐ OTHER☐
D. SYSTEM/ITEM 9G-1660-00-157-3967	E. CONTRACT/PR NO.	F. CONTRACTOR

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
0003	REQUEST FOR DEVIATION	

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-CMAN-80640		DSCR

7. DD250 REQ	9. DIST STATEMENT REQUIRED	10 FREQUENCY	12 DATE OF FIRST SUBMISSION	14. DISTRIBUTION
LT		AS REQUIRED		
8. ADP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	

16. REMARKS

ORIGINAL

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
DSCR/PCO		1/0	
15. TOTAL		1/0	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
0004	REQUEST FOR WAIVER	

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. RE2QUIRING OFFICE
DI-CMAN-80641		DSCR

7. DD 250 REQ	9. DEST STATEMET REQUIRIED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14 DISTRIBUTION
LT		AS REQUIRED		
8. ADP CODE		11AS OF DATE	13DATE OF SUBSEQUENT SUBMISSION	

16. REMARKS

ORIGINAL

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
DSCR/PCO		1/0	
15. TOTAL		1/0	

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
VINCENT J. LOISEAU 0731.14	02/15/03	VINCENT J LOISEAU	02/15/03

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.

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

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
9G-1660-00-157-3967		

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
0005	CERTIFICATION DATA REPORT	CERTIFICATIONS

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MISC-80678	C-321: SPECIFICATION	DSCR

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT		AS REQUIRED	SEE BLOCK 16*
8. ADP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
A			SEE BLOCK 16**

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
CAO/QAR	*/**	1/0	
DSCR/PCO	*/**	1/0	
15. TOTAL		2/0	

16. REMARKS

BLOCK #4 (AUTHORITY) PARA. 10.1, 10.2,10.2.1,10.2.2,10.2.4, AND 10.5

BLOCK #12, #13: * AT TIME OF FIRST ARTICLE TEST
** UPON SUBMISSION OF PRODUCTION LOT SAMPLES AND AT TIME OF CONTRACT COMPLETION, CONTRACTOR SHALL RETAIN 100% OF CONTRACT QUANTITY RECORDS FOR SEVEN YEARS.

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

BLOCK #5: CONTRACT REFERENCE:

1. CERTIFICATION OF APPROVED MATERIALS I/A/W THE APPLICABLE DRAWINGS.
2. PROCESSES I/A/W THE APPLICABLE DRAWINGS AND SPECIFICATIONS.
3. Acceptance Test Procedure utilized to manufacture part number (26512) 1128SCEC402-1.
   a. Pressure Drop Test
   b. Proof pressure Test
   c. Leakage Test

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
VINCENT J. LOISEAU 0731.14	02/15/03	VINCENT J. LOISEAU	02/15/03