

REQ DOC NO. -

RCP 22RX19761

ATTACHMENT   3  

CONTINUATION SHEET

CONTRACT NO. - \_\_\_\_\_

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NAME OF OFFER OR/CONTRACTOR

ITEM #	SUPPLIES/SERVICES	QTY	U/I
0005	NUT, HEX	520	EA
NSN: 1H 5310-01-212-4580 X2, Item 6019AJ			

C. DESCRIPTION/SPECIFICATIONS

C.1 **THIS IS LEVEL I MATERIAL**

C.2 NUT, HEX, REGULAR, NICKEL COPPER ALUMINUM (K-MONEL), 0.875"-09UNC-2B.

C.3 MANUFACTURE NUTS PER 688-1864 REV K WITH APPENDIX 1&5, AND MIL-DTL-1222J IC 1 INCORPORATED AS APPLICABLE.

(A) DESIGN, MATERIAL AND QUALITY ASSURANCE REQUIREMENTS FOR THREADED FASTENERS: 688-1864 WITH APPENDIX 1&5 MODIFIED TO INCLUDE APPLICABLE PORTIONS OF STUDS, BOLTS, SCREWS AND NUTS FOR APPLICATIONS WHERE A HIGH DEGREE OF RELIABILITY IS REQUIRED; GENERAL SPECIFICATION FOR: MIL-DTL-1222.

(B) TYPE I (1), REGULAR HEX NUT, STYLE A OR B, NICKEL COPPER ALUMINUM PER CHEMICAL AND MECHANICAL PROPERTIES OF MATERIAL NO. 5 (QQ-N-286G, ANNEALED AND AGE HARDENED) OF TABLE I OF 688-1864K. THE SLOW STRAIN RATE TENSILE TEST REQUIRED ON THE STARTING MATERIAL BY QQ-N-286G SHALL BE PERFORMED BY ONE OF THE LABS LISTED IN C.3(B)(1).

(1) LIST OF AUTHORIZED LABORATORIES FOR SLOW STRAIN RATE TENSILE TEST:

1. Huntington Alloys, a Special Metals Company  
Attn: Frank Veltry

3200 Riverside Drive  
Huntington, WV 25705  
Phone: (304) 526-5759  
FAX: (304) 526-5973

2. Metallurgical Consultants, Inc.

Attn: W. M. Buehler  
4820 Caroline  
PO Box 88046  
Huston, TX 77288-0046  
Phone: (713) 526-6351  
FAX: (713) 526-2964

3. Naval Surface Warfare Center, Carderock Division

Attn: Charles Roe  
Code 614  
9500 Macarthur Blvd  
West Bethesda, MD 20817-5700  
Phone: (301) 227-5031  
FAX: (301) 227-5576

4. Teledyne Allvac

Attn: Dr. W. D. Cao  
2020 Ashcraft Ave.  
Monroe, NC 28110  
Phone: (704) 289-4511  
Fax: (704) 289-4269

5. Mannesmann Röhrenwerke

Mannesmann Forschungsinstitut (MFI)  
Attn: Dr. Weiss  
Postfach 251160  
47251 Duisburg  
Germany  
Phone: 011-49-0203-9993194  
Fax: 011-49-0203-9994415

6. Westmoreland Mechanical Testing & Research, Inc.

Old Route 30, Westmoreland Drive  
P.O. Box 388  
Youngstown, PA 15696-0388  
Phone: (724) 537-3131  
FAX: (724) 537-3151

7. ThyssenKrupp VDM USA, Inc.

Larry Paul  
Technical Marketing Manager  
ThyssenKrupp VDM USA Inc.  
122 E. Jefferson  
Tipton, IN 46072  
(765) 675-9964 (office)  
(765) 860-3769 (mobile)  
larry.paul@thyssenkrupp.com  
www.thyssenkruppvdm.com

(C) SIZE, THREAD SERIES AND CLASS OF FIT PER PARAGRAPH C.2 OF THIS PART. ASME B1.3M, SYSTEM 22S IS INVOKED.

(D) COATING NOT APPLICABLE

(E) SELF-LOCKING ELEMENT NOT APPLICABLE

(F) BEARING SURFACE TO BE EITHER WASHER FACED OR CHAMFERED.

(G) APPLICABLE SPECIFICATION REVISIONS TO BE USED ARE:

SPECIFICATION 688-1864 REV K

MIL-DTL-1222J, IC 1

MIL-I-45208A, AM(1)

MIL-STD-129R

MIL-STD-792F

MIL-STD-2132D WITH NOTICE 1

QQ-N-286G

SAE J 123 MAR 94

FOR SPECIFICATIONS NOT LISTED ABOVE, REVISIONS SHALL BE THOSE LISTED IN THE ACQUISITION STREAMLINING AND STANDARDIZATION INFORMATION SYSTEM (ASSIST) AT THE TIME OF CONTRACT AWARD. AS OF THE ISSUE DATE OF THIS, ASSIST INFORMATION IS AVAILABLE AT THE FOLLOWING WEBSITE:  
<https://quicksearch.dla.mil>

C.4 CLEANLINESS REQUIREMENTS: PARTS SHALL BE CLEANED BY ANY PROCESS OR COMBINATION OF PROCESSES WHICH WILL ACCOMPLISH THOROUGH CLEANING WITHOUT DAMAGE TO THE PARTS. SURFACES SHALL BE EXAMINED VISUALLY TO DETERMINE FREEDOM FROM DIRT, CORROSION, OIL, GREASE OR FOREIGN RESIDUE.

C.5 THE CONTRACTOR MUST PROVIDE THE PROCURING ACTIVITY WITH ALL THE SUBMITTALS LISTED BELOW. SUBMITTALS WHICH ARE REQUIRED BY A SPECIFICATION, BUT WHICH ARE NOT LISTED, NEED NOT BE SUBMITTED. ONLY THOSE SUBMITTALS LISTED BELOW ARE REQUIRED.

NO PROCEDURE SUBMITTALS REQUIRED FOR THIS ITEM.

C.6 DATA REQUIREMENTS PER EXHIBIT A (DD-1423) & ATTCHMENT #1.

C.6.1 MATERIAL CERTIFICATIONS; EXHIBIT A SEQUENCE A001.

C.6.1.1 THE CONTRACTOR SHALL PROVIDE THE LISTED PROCEDURE(S)/CERTIFICATION REPORT(S) TO THE PROCURING ACTIVITY. THE CONTRACTOR SHALL

SPECIFY THE FOLLOWING ON PROCEDURE(S)/REPORT(S) REQUIRING SUBMITTAL, AS APPLICABLE, IN ORDER THAT THE PROCEDURE/REPORT CAN BE READILY REVIEWED AGAINST THE APPROPRIATE ACCEPTANCE CRITERIA:

- (1) SPECIFICATIONS AND REVISIONS, INCLUDING AMENDMENTS, NOTICES, ETC.
- (2) APPLICABLE PARAGRAPH OF THE SPECIFICATION
- (3) THE NAME OF THE SUBMITTAL
- (4) THE MATERIAL CONDITIONS (I.E., MATERIAL GRADE, CLASS, TYPE, SIZE, COMPOSITION, ETC.) IF A PARTICULAR CONDITION IS NOT SPECIFIED AND THE SPECIFICATION PROVIDES FOR ALTERNATIVE CONDITIONS, THEN THE CONTRACTOR MAY, IN MANUFACTURING THE ITEM, SELECT A CONDITION WITHIN THE SCOPE OF THE SPECIFICATION USING TECHNICAL JUDGMENT AND ANNOTATE THE REPORT ACCORDINGLY.

C.6.2 NOT APPLICABLE.

## C.7 MATERIAL MARKING

C.7.1 EACH PIECE OF MATERIAL SHALL BE PERMANENTLY MARKED AT LEAST ONCE WITH THE INFORMATION OF (A), (B), (C), AND (D) BELOW USING THE PERMANENT MARKING METHODS OF MIL-STD-792 OR THE PERMANENT MARKING METHOD SPECIFIED IN THE MATERIAL SPECIFICATION.

(A) "AK" AND "KMD"

(B) VENDOR TRACEABILITY NUMBER TRACEABLE TO ALL MANUFACTURE TEST AND INSPECTION INFORMATION AND TO A UNIQUE SET OF PHYSICAL, MECHANICAL, AND CHEMICAL TEST RESULTS WHICH REPRESENT THE MATERIAL USED TO MAKE THE PIECE.

(C) THE MANUFACTURER'S NAME, TRADEMARK, OR SYMBOL.

(D) INFORMATION REQUIRED BY THE SPECIFICATION IN ADDITION TO THAT REQUIRED BY (A), (B), AND (C) ABOVE SHALL BE MARKED EITHER PER THE SPECIFICATION OR AT LEAST ONCE PER PERMANENT MARKING METHODS OF MIL-STD-792. MATERIAL DESIGNATOR LISTED IN THE SPECIFICATION NEED NOT BE MARKED ON THE MATERIAL IF IT IS DIFFERENT FROM THAT SPECIFIED BY (A) ABOVE.

C.7.2 IF ANY MARKING SPECIFIED ABOVE CANNOT BE APPLIED DUE TO SPACE LIMITATION, A WAIVER REQUEST SHALL BE SUBMITTED TO THE CONTRACTING OFFICER.

C.7.3 WHEN FEASIBLE, CONSOLIDATE THE PLACEMENT OF THE PERMANENT MARKING TO ACCOMMODATE THE MARKING OF A 9-DIGIT FINAL ACCEPTANCE MARKING AT PORTSMOUTH NAVAL SHIPYARD. DO NOT COMPROMISE LEGIBILITY OF THE PERMANENT MARKING TO CONSOLIDATE THE SPACING.

#### D. PRESERVATION/PACKAGING/PACKING

D.1 PRESERVATION, PACKAGING, AND PACKING SHALL BE IN ACCORDANCE WITH ASTM D3951-15, STANDARD PRACTICE FOR COMMERCIAL PACKAGING, EXCEPT THAT EACH EXTERNALLY THREADED FASTENER SHALL BE FURNISHED WITH A THREAD PROTECTOR AND EACH ITEM SHALL BE INDIVIDUALLY PACKAGED IN A COLORED (EXCEPT YELLOW) TRANSPARENT ZIP-LOCK TYPE PACKAGE WITH A MINIMUM SIZE OF 4" X 7". MARKING AND LABELING SHALL BE IN ACCORDANCE WITH MIL-STD-129. BAR CODE MARKING FOR HAND SCANNING IS REQUIRED.

#### E. INSPECTION AND ACCEPTANCE

E.1 GOVERNMENT INSPECTION IS REQUIRED DURING MANUFACTURE AND PRIOR TO SHIPMENT FROM THIS FACILITY. UPON RECEIPT OF THIS ORDER, PROMPTLY NOTIFY THE REPRESENTATIVE OF THE GOVERNMENT OFFICE WHO NORMALLY SERVES YOUR FACILITY SO THAT APPROPRIATE PLANNING FOR GOVERNMENT INSPECTION CAN BE ACCOMPLISHED. IN THE EVENT A REPRESENTATIVE OF THE GOVERNMENT OFFICE CANNOT BE LOCATED, THE CONTRACT SPECIALIST SHOULD BE NOTIFIED PROMPTLY. PROVIDE THE LOCATION WHERE PROCUREMENT QUALITY ASSURANCE (PQA) OF THE SUPPLIES WILL BE MADE ALONG WITH THE ORGANIZATION THAT WILL BE PERFORMING PQA.

E.2 ALL NON-CONFORMANCES TO CONTRACT REQUIREMENTS AFFECTING PRODUCT AND/OR DOCUMENTATION SHALL REQUIRE PROCURING ACTIVITY WAIVER APPROVAL TO ACCEPT.

E.3 APPROVED SAMPLING PLANS (E.G. MIL-STD-105, ANSI/ASQC Z1.4) ARE ALLOWED AS DELINEATED IN THE APPLICABLE MANUFACTURING SPECIFICATION EXCEPT THAT A LOT IS ACCEPTABLE BASED ON ZERO DEFECTS. WHEN A REJECT IS FOUND, THE ENTIRE LOT SHALL BE INSPECTED FOR THAT ATTRIBUTE AND ANY DEFECTIVE ITEMS SHALL BE REMOVED FROM THE LOT IN ORDER FOR THE LOT TO BE ACCEPTABLE