

REQUEST FOR ENGINEERING INFORMATION (REI)

1. ORIGINATOR NAME/PHONE NO. WINNIE JENKINS 804-279-6618	2. ORG/CODE 0731.12	3. CONTRACT OR SCHEDULE NUMBER	4. REI NUMBER 02-12010
5. NSN/PART NOMENCLATURE 6685-00-223-9042 GAGE, PRESSURE	6. DWG./PART NO. AFFECTED 516144-1	7. TYPE OF EQUIPMENT MK 7 ARRESTING GEAR	8. REQUEST DATE 01/05/02
9. SUPERVISOR	10. INSPECTOR	11. REFERENCE DOCUMENT DSCR-07-02-02409	PAGE 1 OF 7

DESCRIPTION OF PROBLEM

12.

HIGH PRIORITY REQUEST, 30 DAY TURN-AROUND REQUESTED.

NO PREVIOUS TDR, REV "D" AVAILABLE.

PLEASE IDENTIFY SOURCES OF SUPPLY IF AVAILABLE AND INCLUDE A LEGIBLE COPY OF THE CURRENT DRAWING AND A CURRENT COPY OF THE QM1006 QUALITY REQUIREMENTS IF NOT INCORPORATED INTO THE TDR. IN ADDITION, PLEASE IDENTIFY IF THIS ITEM IS CRITICAL OR HAS CRITICAL APPLICATION AND IF A FAT AND/OR A PAS ARE REQUIRED.

POC FOR THIS REQUEST IS CHARLES JOHNSON, 215-697-2196 AT NAVICP-P.

NAVAIR COMMENT

14.

PN 516144-1 IS **NOT** A CRITICAL SAFETY ITEM (CSI).
 PRE AWARD SURVEY (PAS) IS **NOT** REQUIRED.
 FIRST ARTICLE TEST (FAT) IS **NOT** REQUIRED.
 TDR PROVIDED BEGINNING ON PAGE 2.

1582

15. CHANGE DRAWINGS No MANUALS No MRC's No ECP REQ'D No	16. NAVAIR COMMENT PREPARED BY <i>Gary Zeichner</i>	PHONE NUMBER 732-323-1658	DATE 1/28/02	CODE 4.8.10.2
	17. NAVAIR COMMENT APPROVED BY <i>Rich Kotelnick</i>	PHONE NUMBER 732-323-1582	DATE 1/28/02	CODE 4.8.10.2

516144-1

REVISION D

ABOVE TITLE BLOCK, NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION, LAKEHURST, NJ 08733 (SUPERSEDING "NAVAL AIR ENGINEERING CENTER, LAKEHURST, NJ 08733").

IN MECHANICAL FINISH BLOCK, ASME B46.1 (SUPERSEDING "ANSI/ASME B46.100").

IN NOTE 1, ASME (SUPERSEDING "ANSI").

DISREGARD NOTE 1.E. IN LIEU THEREOF THE FOLLOWING SHALL APPLY: "ACCURACY SHALL BE GRADE A."

IN NOTE 2, NAWC (SUPERSEDING "NAEC") AND ADD TO END OF NOTE: "IN ACCORDANCE WITH SAE AS478."

DISREGARD NOTE 3. IN LIEU THEREOF THE FOLLOWING SHALL APPLY: "EACH GAGE SHALL BE TESTED IN ACCORDANCE WITH PARAGRAPHS 6.1. AND 6.2 OF ASME B40.100. EACH GAGE MUST MEET THE GRADE A ACCURACY REQUIREMENT. FLUID FOR TEST SHALL BE IN ACCORDANCE WITH MIL-H-5606."

DISREGARD NOTE 4, IN LIEU THEREOF THE FOLLOWING SHALL APPLY: THREAD DIMENSIONS AND DESIGNATIONS SHALL BE INTERPRETED IN ACCORDANCE WITH FED-STD-H28 AND ASME Y14.6 RESPECTIVELY. ACCEPTABILITY OF SCREW THREADS SHALL BE IN ACCORDANCE WITH SYSTEM 21 OF FED-STD-H28/20.

NOTE 1:

SECTION 326 OF THE 1993 DEFENSE AUTHORIZATION ACT PLACES RESTRICTIONS ON THE USE OF CLASS I OZONE DEPLETING SUBSTANCES (ODS). UNTIL SUCH TIME AS THESE CLASS I ODS'S ARE ELIMINATED FROM MILITARY DRAWINGS AND SPECIFICATIONS (INCLUDING SECOND TIER, I.E., THOSE SPECIFICATIONS LISTED IN THE SPECIFICATIONS LISTED ON THE DRAWINGS), THE FOLLOWING SHALL APPLY:

1. THE CONTRACTOR SHALL USE A GOVERNMENT APPROVED NON-OZONE DEPLETING SUBSTANCE.
2. IF A GOVERNMENT APPROVED NON-OZONE DEPLETING SUBSTANCE IS UNKNOWN/ UNAVAILABLE, THE CONTRACTOR SHALL CONTACT 4.8.1.4 AT NAWCAD LAKEHURST FOR AN ACCEPTABLE SUBSTITUTE, AN ALTERNATE PROCESS OR A WAIVER OF THE REQUIREMENT.

SEE ATTACHED PAGES FOR QUALITY ASSURANCE REQUIREMENTS.

Ser 4.8.13B148-2/02-12010
11 January 2002

From: Head, Prototype Manufacturing and Quality Assurance Division
Naval Air Systems Command, Lakehurst, NJ (4.8.13)
Hwy #547, Lakehurst, NJ 08733-5125

To: Commanding Officer, Naval Inventory Control Point, Philadelphia
Attn: Code 0731.12, Charles Johnson
700 Robbins Avenue, Philadelphia, PA 19111

Subj: GAGE, PRESSURE, P/N 516144-1, REV. D, NSN 6685-00-223-9042

Encl: (1) QM1006 #02-12010

1. The Quality Assurance requirements for the subject procurement are listed in enclosure (1) and shall be used in conjunction with REI 02-12010. If a conflict exists with regard to identifying the criticality of this item of ALRE/SE, the higher level of criticality shall apply.
2. Any deviations from these quality requirements will need prior approval from Naval Air Systems Command, Lakehurst, Code 4.8.13.2.
3. If you have any questions on this matter or additional information is required, please advise.


RICH HEADLEY

SUPPLEMENTAL CONTRACT QUALITY REQUIREMENTS

NAVAIR has established the following Quality Assurance requirements to be used in procurement of the material identified below.
Additional amplifying information is available via separate correspondence.

REI/TDR NUMBER: 02-12010	DATE: 11 January 2002
NAME: GAGE, PRESSURE	NSN: 6685-00-223-9042
PART NO. 516144-1	REV: D
	CIC=Y (CRITICAL)

A: SOURCE SELECTION

1. Pre-award survey with NAVAIR QA participation required? Yes (See attached, para 1) No
(Can be waived by NAVAIR based on a given supplier's history)
2. Post Award with NAVAIR QA participation required? Yes (See attached, para 2) No
(Can be waived by NAVAIR based on given supplier's history)
3. Recommended Sources based on recent, documented Quality performance:
(Recommended sources do not need a pre-award survey by NAVAIR QA)
 - a. None
 - b.
 - c.

B: INSPECTION AND ACCEPTANCE POINT:

1. Preliminary Inspection Point: Source Destination
2. Acceptance Point: Source Destination

C: QUALITY LETTER OF INSTRUCTION:

1. Quality Assurance Letter of Instruction Required? YES (See attached, para 3) NO

D: QUALITY ASSURANCE STANDARD:

1. Higher Level Quality program per FAR 52.246-11 YES NO
2. Standard Quality program per FAR 52.246-2 YES NO
(Must use if higher level selected)

E: NAVAIR INSPECTION WITNESS OPTION:

1. NAVAIR option to witness final inspection required? YES (See attached, 4) NO
2. NAVAIR option to witness interim inspections required? YES (see below) NO
- a.
- b.
- c.

F: CONFIGURATION CONTROL:

Configuration control in accordance with MIL-STD-973 is required. The approval authority for all major and minor waivers and deviations shall be NAWCADLKE Code 4.8.10.

G: QUALITY CONFORMANCE AND LOT SAMPLING INSPECTIONS:

1. NAVAIR specified Quality Conformance Inspection plan with sampling rates? Yes (See attached, para 5) No

H: RECEIPT INSPECTION

1. Receipt Inspection Certification required? Yes No
2. Point of Certification? NAVAIR Lakehurst Source with contractor assist

I: FIRST ARTICLE TEST

1. First Article Testing required? Yes (see attached para 6) NO
2. Place of Testing Performance. Source Government Both

See attached for detailed First Article Testing requirements, associated data deliverables, and estimated costs.

J: PRODUCTION LOT TESTING

1. Production Lot Testing required? Yes (see attached para 7) NO
2. Place of Testing Performance. Source Government Both

See attached for detailed Production Lot Testing requirements and estimated costs.

K: DATA DELIVERABLES:

- Data deliverables required? Yes see attached DD 1423 forms No

L: ALRE FLIGHT CRITICAL COMPONENT NOTICE

1. ALRE Flight Critical Component notice required? Yes No

M: CERTIFICATE OF QUALITY COMPLIANCE

1. Certificate of Quality Compliance Required? Yes No

N: OTHER PART SPECIFIC AND UNIQUE REQUIREMENTS

QUALITY ASSURANCE REQUIREMENTS:

The paragraphs shown below, when referenced on the QM1006 checklist, provide the detailed Quality Assurance requirements to be used for the particular procurement. These paragraphs shall only apply when the corresponding "Yes" block has been checked on the associated checklist.

1. Due to the critical use of this material and/or it's quality history, a preaward survey is required. Unless specifically waived by NAWC Quality Assurance, NAWC quality assurance personnel shall participate in this survey. Notify the NAWC Quality Assurance branch, Code 4.8.M.2, Jim Gooch, (732)-323-7504; telefax (732) 323-7234, of all pending preaward surveys associated with this procurement.
2. A contract Post Award conference is required for this procurement. This may be waived by NAWC Quality Assurance based on the results of the preaward survey.
3. The procuring activity shall issue a Quality Assurance Letter of Instruction (QALI) to the appropriate Adminstrating Contract Office instructing the authorized government Quality Assurance Representative as follows:
 - a. Features/attributes/requirements classified as Critical on the drawing(s) or within the technical specification shall be inspected 100%
 - b. Features/attributes/requirements classified as Major on the drawing(s) or within the technical specification shall be inspected using an AQL of 1.0 as defined by ANSI Z1.4
 - c. Minor features/attributes/requirements shall be per the QAR's established procedures.
 - d. The QAR will invoke government source inspection via delegation for all work on Critical and Major features/attributes/requirements performed by sub-contractors which cannot be verified upon receipt by the prime contractor.
4. The solicitation/contract shall contain the NAWCADLKE inspection surveillance clause as follows:

Because of the critical nature of this material, a representative of the Naval Air Warfare Center Aircraft Division Lakehurst (NAW-CADLKE) is available to furnish technical assistance on Quality Assurance (QA) matters and shall have the option of conducting QA surveillance for the first lot produced under this contract (and all subsequent lots if necessary). This requirement will be performed in conjunction with the Quality Assurance Representative (QAR) of the cognizant Defense Contract Management Command and does not abrogate the authority or responsibility of the designated QAR. The contractor agrees to notify, in writing, the supervisor of the NAWC QA section Code, 4.8.13. 2, Lakehurst, NJ 08733-5035 and the NAVICP Mechanicsburg Contracting Officer when material is scheduled to be presented to the DCMC QAR for Government inspection and acceptance. This notice shall afford the NAW-CADLKE QA representative the option of being present during the inspection. Notification to NAWC may be provided via telephone (732)-323-7504 immediately followed by written conformation, or via facsimile transmission (FAX 732-323-1381). A minimum of fourteen (14) working days is required to arrange the surveillance visit.
5. The contractor shall perform Quality Conformance and Lot Sampling Inspection for all associated features that are present in the drawings and specifications:
 - a. Features/attributes/requirements classified as Critical and Major on the drawing(s) or within the technical specification shall be inspected 100%;
 - b. Unless otherwise specified, attributes for plating, hardness, and non-destructive testing shall be inspected 100%;
 - c. Class 3 Threads, dimensions, and geometric feature controls with a tolerance range of .010 or less shall be inspected using an AQL of 1.5 and the General Inspection Level II as defined by ANSI Z1.4
 - d. Minor Characteristics: Sampling rate determined by contractor subject to QAR approval.

7. Production Lot Special Tests: (Source)

The contractor shall conduct Production Lot Special Testing on this item of ALRE/SE and must address all elements listed below and prepare a Production Lot Test Report documenting the outcome.

a. Conformance of Production Lot Test:

1. Production Lot Test quantity shall be from the first lot produced and this lot will not exceed 100 pieces;
2. The Production Lot Test shall be available for Government evaluation per the contract schedule. The Evaluation shall be conducted in the presence of the Government personnel. Accordingly, the contractor shall allow time to arrange for NAWC participation in accordance with the "NAVAIR Inspection Witness Option";
3. The contractor shall provide facilities and personnel to conduct all necessary tests to establish conformance.
4. The contractor shall have available for review all certifications, test reports, in-process inspection documents needed to substantiate product quality; this same documentation shall also be included in the Production Lot test report;
5. The contractor shall accomplish 100% inspection and/or testing of all critical, major, and minor dimensions and/or requirements identified in the drawings, drawing notes, and process and fabrication specifications. Results shall consist of actual dimensions, measurements, and test outcomes and shall be recorded and included in the Production Lot test report;
6. The first lot produced and tested may be delivered and counted along with the contract production quantities providing the items have not been damaged during testing, and have been found to be conforming;
7. The contractor is responsible for preparing the Production Lot Test Report in accordance with Mil-HDBK-831 Test report format.

b. The contractor shall demonstrate satisfactory compliance with the following special tests and requirements:

1. Requirements of Note 1 Drawing 516144
2. Certification per Note 3 Drawing 516144