

SECTION B Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	FFP - Fabrication of demonstration units made of 304 Stainless Steel In accordance with the statement of work.	10	Each		
					NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	FFP - Fabrication of demonstration units made of ASTM A108 carbon steel In accordance with the statement of work.	10	Each		
					NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	FFP - Inert DFT CCU-107/B cartridge header and bridgewire assemblies. In accordance with the statement of work.	100	Each		
					NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004	Data FFP - Not separately priced. The following items shall be delivered in accordance with the statement of work: List & Documentation of Recommended Changes Material Study Report Documentation of Compliance	1	Lot		
					NET AMT
					Not separately priced

Phase I

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005	FFP - Inert DVT CCU-107/B header and bridgewire assemblies. In accordance with the statement of work.	200	Each		
					NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006	Data	1	Lot		
FFP - Not separately priced. The following items shall be delivered in accordance with the statement of work: List & Documentation of Recommended Changes Documentation of Compliance					
				NET AMT	Not separately priced

Phase II

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0007		400	Each		
FFP - CCU-107/B header and bridgewire assemblies of the new design.					
				NET AMT	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0008	Data	1	Lot		
FFP - Not separately priced. The following items shall be delivered in accordance with the statement of work: Documentation of Compliance A complete set of documentation Drawings for the new design Documented manufacturing process.					
				NET AMT	Not separately priced

CLAUSES INCORPORATED BY REFERENCE:

52.227-13	Patent Rights--Acquisition By The Government	JAN 1997
252.227-7013	Rights in Technical Data--Noncommercial Items	NOV 1995
252.227-7014	Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation	JUN 1995

CLAUSES INCORPORATED BY FULL TEXT

**STATEMENT OF WORK
CAD HERO Improvement
of the**

CCU-107/B Cartridge Header And Bridgewire Assembly

1.0 INTRODUCTION

The Indian Head Division, Naval Surface Warfare Center (NSWCIH), is pursuing the development and procurement of a Hazards of Electromagnetic Radiation to Ordnance (HERO) Safe replacement for the CCU-107/B cartridge's Header And Bridgewire Assembly. The current CCU-107/B cartridge Header And Bridgewire Assembly – Current Design (Attachment 1) is HERO Susceptible. This procurement will consist of a material study of the header body, designing an improved cartridge header which includes a discoidal capacitor, manufacturing an improved cartridge header, developing a manufacturing process, and documenting design changes from the Current Design.

The Header And Bridgewire Assembly Drawings - Development Design (Attachment 2) illustrate an initial design concept for incorporating the discoidal capacitor into the Header And Bridgewire Assembly. The selected contractor will develop a header and bridgewire design that will incorporate the capacitor. This design must be suitable for automated manufacture.

The design and manufacturing process developed under this contract will become the sole property of the U.S. Navy and may be used for future competitive procurement contracts. No proprietary or patented processes or sole source materials shall be used in the manufacture of this item. This procurement will be divided into a Base Requirement phase and two option phases. The occurrence of the first phase and the second phase is contingent upon successful development of the cartridge in each of the previous phases.

2.0 SCOPE

The contractor shall provide all labor, material (except for items listed as Government Furnished Material), and facilities to provide cartridges, details of design changes, and documentation of test data to NSWCIH.

3.0 TASKS

3.1 Material Study

A study shall be conducted to evaluate and compare corrosion resistant 304 stainless steel for the header body material (as specified in the Development Design drawings) to ASTM A108 carbon steel for the header body material (as specified in the Current Design drawings) in the new design. The study shall address and compare producibility, cost, and compatibility with other cartridge components including the capacitor. The study will include the fabrication of 10 demonstration units of 304 stainless steel and 10 of ASTM A108 carbon steel. A report describing the study as well as the demonstration units shall be submitted prior to manufacture of the prototypes in the Base Requirement phase. The Navy will decide which material shall be used for the Base Requirement DFT prototypes.

3.2 Design

Develop a design utilizing the Current and Development Designs provided in this procurement package. Features requiring design development will include the incorporation of an electromagnetic interference (EMI) filter (capacitor), the glass to metal seal, and changes to the internal geometry of the header.

3.3 Manufacture Develop a manufacturing process for the improved HERO Safe CCU-107/B Header and Bridgewire Assembly design. This process will include the installation of an electromagnetic interference (EMI) filter (capacitor), the glass to metal sealing process, and recommended assembly procedures of each component.

3.4 Design Feasibility Test (DFT) Units

The contractor will supply to NSWC, Indian Head a total of 100 inert DFT CCU-107/B header and bridgewire assemblies of the new HERO Safe design for functional evaluation. An evaluation of the units will be conducted by NSWC, Indian Head. The evaluation will include an examination of the filter installation, propellant loading into the headers, press fit of loaded headers into cartridge case, HERO evaluation, and functional test firing of completed headers. A design shall be submitted to NSWC, Indian for review and approval prior to manufacturing the DFT units.

3.5 Design Verification Test (DVT) Units

Upon successful fabrication, acceptance, and evaluation by NSWC, Indian Head of the 100 HERO Safe CCU-107/B Design Feasibility Test Units, the contractor shall fabricate and deliver to NSWC Indian Head 200 inert HERO Safe CCU-107/B header and bridgewire assemblies of the new design. Design changes shall be submitted to NSWC, Indian for review and approval prior to manufacturing DVT units. The 200 headers will be used to produce completed headers for design verification test evaluations and HERO Testing. NSWC, Indian Head will load and instrument headers.

3.6 Qualification Test Units

Upon successful fabrication, acceptance, and evaluation by NSWC, Indian Head of the CCU-107/B Design Verification Test Units, the contractor shall fabricate and deliver to NSWC Indian Head 400 inert HERO Safe CCU-107/B header and bridgewire assemblies in the final production configuration. Design changes shall be submitted to NSWC, Indian for review and approval prior to manufacturing Qualification Test units. The headers will be used for qualification test purposes by NSWC, Indian Head. NSWC, Indian Head will perform loading operations and assembly of the header.

4.0 DELIVERABLES

This procurement will be divided into three phases. The initial phase will be the Base Requirements Phase. The occurrence of Phase I will be being contingent upon successful evaluation of the 100 DFT units by NSWC IHD personnel and the occurrence of Phase II will be contingent on upon successful DVT testing. The DFT and DVT testing will be conducted by NSWC IHD personnel using the header and bridgewire assemblies delivered by the contractor.

4.1 Base Requirement Phase

- a. Material study report.
- b. Fabrication of ten demonstration units made of 304 stainless steel.
- c. Fabrication of ten demonstration units made of ASTM A108 carbon steel.
- d. Listing and documentation of recommended changes to the data package provided by NSWC, Indian Head which were incorporated into the total of 100 delivered CCU-107/B header and bridgewire assemblies.
- e. 100 inert DFT CCU-107/B cartridge header and bridgewire assemblies of the new design.
- f. Documentation of compliance of the 100 inert DFT CCU-107/B header and bridgewire assemblies to the electrical test requirements specified in the technical data package.

4.2 Phase 1

- a. A quantity of 200 inert DVT CCU-107/B header and bridgewire assemblies of the new design will be manufactured and delivered in one lot.

b. Listing and documentation of additional changes to the data package as compared to the units delivered in Base Requirements Phase of this contract.

c. Documentation of compliance of the 200 inert DVT CCU-107/B header and bridgewire assemblies to the electrical test requirements specified in the technical data package.

4.3 Phase 2

a. A quantity of 400 inert Qualification CCU-107/B header and bridgewire assemblies of the new design will be manufactured and delivered in one lot. These units will be manufactured in a final production configuration.

b. Documentation of compliance of the 400 inert Qualification CCU-107/B header and bridgewire assemblies to the electrical test resistance requirements specified in the technical data package.

c. A complete set of documentation drawings for the new CCU-107/B cartridge header and bridgewire assembly design.

d. A documented manufacturing process for the inert CCU-107/B cartridge header and bridgewire design.

e. Return of any government furnished tooling, hardware, etc. provided for use under this contract.

5.0 PERIOD OF PERFORMANCE/SCHEDULE

5.1 Base Requirement Phase

a. Material study report and 20 demonstration units shall be accomplished within eight weeks after receipt of order (ARO).

b. Development of the HERO Safe CCU-107/B cartridge header and bridgewire design and submission for review and approval to NSWC, Indian Head shall be accomplished within four weeks after notification by the Navy of the material selection decision.

c. 100 inert DFT CCU-107/B header and bridgewire assemblies of the new design shall be delivered to NSWC IHD eight weeks after review and approval of the design by NSWC, Indian Head. A 100 percent electrical evaluation with supporting documentation shall be supplied with these units.

5.2 Phase 1

a. 200 inert DVT CCU-107/B header and bridgewire assemblies shall be delivered to NSWC IHD within twelve weeks after completion of government evaluation of DFT units. A 100 percent resistance check and electrical evaluation with supporting documentation shall be supplied with these units.

b. Documentation of design changes from DFT to DVT header units shall be delivered to NSWC IHD within twelve weeks after completion of government evaluation of DFT units.

5.3 Phase 2

a. Four hundred (400) inert Qualification CCU-107/B header and bridgewire assemblies shall be delivered to NSWC IHD ten weeks after completion of government evaluation of DVT units. A 100 percent resistance check and electrical evaluation with supporting documentation shall be supplied with these units.

b. A complete set of CCU-107/B header and bridgewire assembly documentation drawings shall be delivered to NSWC IHD ten weeks after completion of government evaluation of DVT units.

c. A documented manufacturing process for the CCU-107/B header and bridgewire assembly shall be delivered to NSWC IHD ten weeks after completion of government evaluation of DVT units.

d. Documentation of compliance to the documentation drawings of the Header Qualification units shall be delivered to NSWC/HD ten weeks after completion of government evaluation of DVT units.

e. Any remaining Government Furnished Material shall be returned to NSWC, Indian Head Division 2 weeks after delivery of qualification units.

List of Attachments

1) Header and Bridgewire Assembly Drawings – Current Design

6261109	Header and bridgewire assembly
6261108	Header Glass Sealed (2 sheets)
5184843	Insulation, Glass
707AS114	Resin, Epoxy

2) Header and Bridgewire Assembly Drawings – Development Design

SK5230P-305	Header and Bridgewire Assembly
SK5230P-300	Header Glass Seal Assembly
SK5230P-301	Header
SK5230P-302	Capacitor, Discoidal
SK5230P-303	Insulating Disc
SK5230P-304	Electrode
707AS114	Resin, Epoxy
5184843	Insulation, Glass

3) Contract Data Requirements List

4) Past Performance Matrix

5) Past Performance Questionnaire

6) Past Performance Coversheet

- **Note: Attachments 4-6 will be removed at time of award.**

52.204-3 TAXPAYER IDENTIFICATION (OCT 1998)

(a) Definitions.

Common parent, as used in this provision, means that corporate entity that owns or controls an affiliated group of corporations that files its Federal income tax returns on a consolidated basis, and of which the offeror is a member.

Taxpayer Identification Number (TIN), as used in this provision, means the number required by the Internal Revenue Service (IRS) to be used by the offeror in reporting income tax and other returns. The TIN may be either a Social Security Number or an Employer Identification Number.

(b) All offerors must submit the information required in paragraphs (d) through (f) of this provision to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325(d), reporting requirements of 26 U.S.C. 6041, 6041A, and 6050M, and implementing regulations issued by the IRS. If the resulting contract is subject to the payment reporting requirements described in Federal Acquisition Regulation (FAR) 4.904, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments otherwise due under the contract.

(c) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 U.S.C. 7701(c)(3)). If the resulting contract is subject to the payment

reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(d) Taxpayer Identification Number (TIN).

___ TIN:-----

___ TIN has been applied for.

___ TIN is not required because:

___ Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the United States and does not have an office or place of business or a fiscal paying agent in the United States;

___ Offeror is an agency or instrumentality of a foreign government;

___ Offeror is an agency or instrumentality of the Federal Government.

(e) Type of organization.

___ Sole proprietorship;

___ Partnership;

___ Corporate entity (not tax-exempt);

___ Corporate entity (tax-exempt);

___ Government entity (Federal, State, or local);

___ Foreign government;

___ International organization per 26 CFR 1.6049-4;

___ Other-----

(f) Common parent.

___ Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this provision.

___ Name and TIN of common parent:

Name-----

TIN-----

(End of provision)

52.211-8 TIME OF DELIVERY (JUN 1997)

(a) The Government requires delivery to be made according to the following schedule:

CLINS	DELIVERY DATE	UNIT OF ISSUE	QUANTITY	FOB	SHIP TO ADDRESS
0001	8 Weeks ARO	Each	10	Dest.	N00174

					NAVSEA INDIAN HEAD RECEIVING RECEIVING OFFICER BLDG 116 101 STRAUSS AVE. INDIAN HEAD MD 20640-5035
0002	8 Weeks ARO	Each	10	Dest.	Same as CLIN 0001
0003	8 Weeks after approval of Clins 0001 & 0002	Each	100	Dest.	Same as CLIN 0001
0004	As specified in the Statement of Work	Lot	1	Dest.	NAVSEA INDIAN HEAD ATTN: ARMEN MALKASIAN, CODE 5230, BLDG 1557 101 STRAUSS AVE. INDIAN HEAD MD 20640-5035
0005	12 Weeks after approval of Clin 0003	Each	200	Dest.	Same as CLIN 0001
0006	As specified in the Statement of Work	Lot	1	Dest.	Same as CLIN 0004
0007	10 Weeks after approval of Clin 0005	Each	400	Dest.	Same as CLIN 0001
0008	As specified in the Statement of Work	Lot	1	Dest.	Same as CLIN 0004

ARO= After receipt of Order

The Government will evaluate equally, as regards time of delivery, offers that propose delivery of each quantity within the applicable delivery period specified above. Offers that propose delivery that will not clearly fall within the applicable required delivery period specified above, will be considered nonresponsive and rejected. The Government reserves the right to award under either the required delivery schedule or the proposed delivery schedule, when an offeror offers an earlier delivery schedule than required above. If the offeror proposes no other delivery schedule, the required delivery schedule above will apply.

OFFEROR'S PROPOSED DELIVERY SCHEDULE

ITEM NO.	QUANTITY	WITHIN DAYS AFTER DATE OF CONTRACT
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(b) Attention is directed to the Contract Award provision of the solicitation that provides that a written award or acceptance of offer mailed, or otherwise furnished to the successful offeror, results in a binding contract. The Government will mail or otherwise furnish to the offeror an award or notice of award not later than the day award is dated. Therefore, the offeror should compute the time available for performance beginning with the actual date of award, rather than the date the written notice of award is received from the Contracting Officer through the ordinary mails. However, the Government will evaluate an offer that proposes delivery based on the Contractor's date of receipt of the contract or notice of award by adding (1) five calendar days for delivery of the award through the ordinary mails, or (2) one working day if the solicitation states that the contract or notice of award will be transmitted electronically. (The term "working day" excludes weekends and U.S. Federal holidays.) If, as so computed, the offered delivery date is later than the required delivery date, the offer will be considered nonresponsive and rejected.

52.213-4 TERMS AND CONDITIONS--SIMPLIFIED ACQUISITIONS (OTHER THAN COMMERCIAL ITEMS) (JUN 2003)

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses that are incorporated by reference:

(1) The clauses listed below implement provisions of law or Executive order:

(i) 52.222-3, Convict Labor (June 2003) (E.O. 11755).

(ii) 52.222-21, Prohibition of Segregated Facilities (Feb 1999) (E.O. 11246).

(iii) 52.222-26, Equal Opportunity (Apr 2002) (E.O. 11246).

(iv) 52.225-13, Restrictions on Certain Foreign Purchases (June 2003) (E.O.'s 12722, 12724, 13059, 13067, 13121, 13129).

(v) 52.233-3, Protest After Award (Aug 1996) (31 U.S.C. 3553).

(2) Listed below are additional clauses that apply:

(i) 52.232-1, Payments (Apr 1984).

(ii) 52.232-8, Discounts for Prompt Payment (Feb 2002).

(iii) 52.232-11, Extras (Apr 1984).

(iv) 52.232-25, Prompt Payment (Feb 2002).

(v) 52.233-1, Disputes (Jul 2002).

(vi) 52.244-6, Subcontracts for Commercial Items and Commercial Components (Dec 2001).

(vii) 52.253-1, Computer Generated Forms (Jan 1991).

(b) The Contractor shall comply with the following FAR clauses, incorporated by reference, unless the circumstances do not apply:

(1) The clauses listed below implement provisions of law or Executive order:

(i) 52.222-19, Child Labor--Cooperation with Authorities and Remedies (Sept 2002) (E.O. 13126). (Applies to contracts for supplies exceeding the micro-purchase threshold.)

(ii) 52.222-20, Walsh-Healey Public Contracts Act (Dec 1996) (41 U.S.C. 35-45) (Applies to supply contracts over \$10,000 in the United States, Puerto Rico, or the U.S. Virgin Islands).

(iii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (DEC 2001) (38 U.S.C. 4212) (Applies to contracts of \$25,000 or more).

(iv) 52.222-36, Affirmative Action for Workers with Disabilities (June 1998) (29 U.S.C. 793). (Applies to contracts over \$10,000, unless the work is to be performed outside the United States by employees recruited outside the United States.) (For purposes of this clause, United States includes the 50 States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, and Wake Island.)

(v) 52.222-37, Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (DEC 2001) (38 U.S.C. 4212) (Applies to contracts of \$25,000 or more).

(vi) 52.222-41, Service Contract Act of 1965, As Amended (May 1989) (41 U.S.C. 351, et seq.) (Applies to service contracts over \$2,500 that are subject to the Service Contract Act and will be performed in the United States, District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, Johnston Island, Wake Island, or the outer continental shelf lands).

(vii) 52.223-5, Pollution Prevention and Right-to-Know Information (APR 1998) (E.O. 12856) (Applies to services performed on Federal facilities).

(viii) 52.225-1, Buy American Act--Supplies (June 2003) (41 U.S.C. 10a-10d) (Applies to contracts for supplies, and to contracts for services involving the furnishing of supplies, for use in the United States or its outlying areas, if the value of the supply contract or supply portion of a service contract exceeds the micro-purchase threshold and the **acquisition--**

(A) Is set aside for small business concerns; or

(B) Cannot be set aside for small business concerns (see 19.502-2), and does not exceed \$25,000.)

(ix) 52.232-33, Payment by Electronic Funds Transfer--Central Contractor Registration (May 1999). (Applies when the payment will be made by electronic funds transfer (EFT) and the payment office uses the Central Contractor Registration (CCR) database as its source of EFT information.)

(x) 52.232-34, Payment by Electronic Funds Transfer--Other than Central Contractor Registration (May 1999). (Applies when the payment will be made by EFT and the payment office does not use the CCR database as its source of EFT information.)

(xi) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (APR 2003) (46 U.S.C. Appx 1241). (Applies to supplies transported by ocean vessels (except for the types of subcontracts listed at 47.504(d).)

(2) Listed below are additional clauses that may apply:

(i) 52.209-6, Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment (JULY 1995) (Applies to contracts over \$25,000).

(ii) 52.211-17, Delivery of Excess Quantities (SEPT 1989) (Applies to fixed-price supplies).

(iii) 52.247-29, F.o.b. Origin (JUN 1988) (Applies to supplies if delivery is f.o.b. origin).

(iv) 52.247-34, F.o.b. Destination (NOV 1991) (Applies to supplies if delivery is f.o.b. destination).

(c) FAR 52.252-2, Clauses Incorporated by Reference (FEB 1998). This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

www.arnet.gov

(d) Inspection/Acceptance. The Contractor shall tender for acceptance only those items that conform to the requirements of this contract. The Government reserves the right to inspect or test any supplies or services that have been tendered for acceptance. The Government may require repair or replacement of nonconforming supplies or reperformance of nonconforming services at no increase in contract price. The Government must exercise its postacceptance rights--

(1) Within a reasonable period of time after the defect was discovered or should have been discovered; and

(2) Before any substantial change occurs in the condition of the item, unless the change is due to the defect in the item.

(e) Excusable delays. The Contractor shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of the Contractor and without its fault or negligence, such as acts of God or the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. The Contractor shall notify the Contracting Officer in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to the Contracting Officer of the cessation of such occurrence.

(f) Termination for the Government's convenience. The Government reserves the right to terminate this contract, or any part hereof, for its sole convenience. In the event of such termination, the Contractor shall immediately stop all work hereunder and shall immediately cause any and all of its suppliers and subcontractors to cease work. Subject to the terms of this contract, the Contractor shall be paid a percentage of the contract price reflecting the percentage of the work performed prior to the notice of termination, plus reasonable charges that the Contractor can demonstrate to the satisfaction of the Government, using its standard record keeping system, have resulted from the termination. The Contractor shall not be required to comply with the cost accounting standards or contract cost principles for this purpose. This paragraph does not give the Government any right to audit the Contractor's records. The Contractor shall not be paid for any work performed or costs incurred that reasonably could have been avoided.

(g) Termination for cause. The Government may terminate this contract, or any part hereof, for cause in the event of any default by the Contractor, or if the Contractor fails to comply with any contract terms and conditions, or fails to provide the Government, upon request, with adequate assurances of future performance. In the event of termination for cause, the Government shall not be liable to the Contractor for any amount for supplies or services not accepted, and the Contractor shall be liable to the Government for any and all rights and remedies provided by law. If it is determined that the Government improperly terminated this contract for default, such termination shall be deemed a termination for convenience.

(h) Warranty. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.

(End of clause)

52.219-1 SMALL BUSINESS PROGRAM REPRESENTATIONS (APR 2002)

(a)(1) The North American Industry Classification System (NAICS) code for this acquisition is 1377.

(2) The small business size standard is 332995.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b) Representations. (1) The offeror represents as part of its offer that it () is, () is not a small business concern.

(2) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents, for general statistical purposes, that it () is, () is not a small disadvantaged business concern as defined in 13 CFR 124.1002.

(3) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents as part of its offer that it () is, () is not a women-owned small business concern.

(4) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents as part of its offer that it () is, () is not a veteran-owned small business concern.

(5) (Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (b)(4) of this provision.) The offeror represents as part of its offer that it () is, () is not a service-disabled veteran-owned small business concern.

(6) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents, as part of its offer, that--

(i) It () is, () is not a HUBZone small business concern listed, on the date of this representation, on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration, and no material change in ownership and control, principal office, or HUBZone employee percentage has occurred since it was certified by the Small Business Administration in accordance with 13 CFR part 126; and

(ii) It () is, () is not a joint venture that complies with the requirements of 13 CFR part 126, and the representation in paragraph (b)(6)(i) of this provision is accurate for the HUBZone small business concern or concerns that are participating in the joint venture. (The offeror shall enter the name or names of the HUBZone small business concern or concerns that are participating in the joint venture: _____.) Each HUBZone small business concern participating in the joint venture shall submit a separate signed copy of the HUBZone representation.

(c) Definitions. As used in this provision--

Service-disabled veteran-owned small business concern--

(1) Means a small business concern--

(i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and

(ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

(2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

"Small business concern," means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and the size standard in paragraph (a) of this provision.

Veteran-owned small business concern means a small business concern--

(1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and

(2) The management and daily business operations of which are controlled by one or more veterans.

"Women-owned small business concern," means a small business concern --

(1) That is at least 51 percent owned by one or more women; or in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and

(2) Whose management and daily business operations are controlled by one or more women.

(d) Notice.

(1) If this solicitation is for supplies and has been set aside, in whole or in part, for small business concerns, then the clause in this solicitation providing notice of the set-aside contains restrictions on the source of the end items to be furnished.

(2) Under 15 U.S.C. 645(d), any person who misrepresents a firm's status as a small, HUBZone small, small disadvantaged, or women-owned small business concern in order to obtain a contract to be awarded under the preference programs established pursuant to section 8(a), 8(d), 9, or 15 of the Small Business Act or any other provision of Federal law that specifically references section 8(d) for a definition of program eligibility, shall--

- (i) Be punished by imposition of fine, imprisonment, or both;
- (ii) Be subject to administrative remedies, including suspension and debarment; and
- (iii) Be ineligible for participation in programs conducted under the authority of the Act.

(End of provision)

52.219-6 NOTICE OF TOTAL SMALL BUSINESS SET-ASIDE (JUN 2003)

(a) Definition.

"Small business concern," as used in this clause, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the size standards in this solicitation.

(b) General. (1) Offers are solicited only from small business concerns. Offers received from concerns that are not small business concerns shall be considered nonresponsive and will be rejected.

(2) Any award resulting from this solicitation will be made to a small business concern.

(c) Agreement. A small business concern submitting an offer in its own name shall furnish, in performing the contract, only end items manufactured or produced by small business concerns in the United States or its outlying areas. If this procurement is processed under simplified **acquisition** procedures and the total amount of this contract does not exceed \$25,000, a small business concern may furnish the product of any domestic firm. This paragraph does not apply to construction or service contracts.

(End of clause)

52.222-22 PREVIOUS CONTRACTS AND COMPLIANCE REPORTS (FEB 1999)

The offeror represents that --

(a) It has, has not participated in a previous contract or subcontract subject to the Equal Opportunity clause of this solicitation;

(b) It has, has not, filed all required compliance reports; and

(c) Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.

(End of provision)

52.222-25 AFFIRMATIVE ACTION COMPLIANCE (APR 1984)

The offeror represents that

(a) it has developed and has on file, has not developed and does not have on file, at each establishment, affirmative action programs required by the rules and regulations of the Secretary of Labor (41 CFR 60-1 and 60-2), or

(b) has not previously had contracts subject to the written affirmative action programs requirement of the rules and regulations of the Secretary of Labor.

(End of provision)

52.232-33 PAYMENT BY ELECTRONIC FUNDS TRANSFER—CENTRAL CONTRACTOR REGISTRATION (MAY 1999)

(a) Method of payment. (1) All payments by the Government under this contract shall be made by electronic funds transfer (EFT), except as provided in paragraph (a)(2) of this clause. As used in this clause, the term “EFT” refers to the funds transfer and may also include the payment information transfer.

(2) In the event the Government is unable to release one or more payments by EFT, the Contractor agrees to either--

(i) Accept payment by check or some other mutually agreeable method of payment; or

(ii) Request the Government to extend the payment due date until such time as the Government can make payment by EFT (but see paragraph (d) of this clause).

(b) Contractor's EFT information. The Government shall make payment to the Contractor using the EFT information contained in the Central Contractor Registration (CCR) database. In the event that the EFT information changes, the Contractor shall be responsible for providing the updated information to the CCR database.

(c) Mechanisms for EFT payment. The Government may make payment by EFT through either the Automated Clearing House (ACH) network, subject to the rules of the National Automated Clearing House Association, or the Fedwire Transfer System. The rules governing Federal payments through the ACH are contained in 31 CFR part 210.

(d) Suspension of payment. If the Contractor's EFT information in the CCR database is incorrect, then the Government need not make payment to the Contractor under this contract until correct EFT information is entered into the CCR database; and any invoice or contract financing request shall be deemed not to be a proper invoice for the purpose of prompt payment under this contract. The prompt payment terms of the contract regarding notice of an improper invoice and delays in accrual of interest penalties apply.

(e) Contractor EFT arrangements. If the Contractor has identified multiple payment receiving points (i.e., more than one remittance address and/or EFT information set) in the CCR database, and the Contractor has not notified the Government of the payment receiving point applicable to this contract, the Government shall make payment to the first payment receiving point (EFT information set or remittance address as applicable) listed in the CCR database.

(f) Liability for uncompleted or erroneous transfers. (1) If an uncompleted or erroneous transfer occurs because the Government used the Contractor's EFT information incorrectly, the Government remains responsible for--

(i) Making a correct payment;

(ii) Paying any prompt payment penalty due; and

(iii) Recovering any erroneously directed funds.

(2) If an uncompleted or erroneous transfer occurs because the Contractor's EFT information was incorrect, or was revised within 30 days of Government release of the EFT payment transaction instruction to the Federal Reserve System, and--

(i) If the funds are no longer under the control of the payment office, the Government is deemed to have made payment and the Contractor is responsible for recovery of any erroneously directed funds; or

(ii) If the funds remain under the control of the payment office, the Government shall not make payment, and the provisions of paragraph (d) of this clause shall apply.

(g) EFT and prompt payment. A payment shall be deemed to have been made in a timely manner in accordance with the prompt payment terms of this contract if, in the EFT payment transaction instruction released to the Federal Reserve System, the date specified for settlement of the payment is on or before the prompt payment due date, provided the specified payment date is a valid date under the rules of the Federal Reserve System.

(h) EFT and assignment of claims. If the Contractor assigns the proceeds of this contract as provided for in the assignment of claims terms of this contract, the Contractor shall require as a condition of any such assignment, that the assignee shall register in the CCR database and shall be paid by EFT in accordance with the terms of this clause. In all respects, the requirements of this clause shall apply to the assignee as if it were the Contractor. EFT information that shows the ultimate recipient of the transfer to be other than the Contractor, in the absence of a proper assignment of claims acceptable to the Government, is incorrect EFT information within the meaning of paragraph (d) of this clause.

(i) Liability for change of EFT information by financial agent. The Government is not liable for errors resulting from changes to EFT information made by the Contractor's financial agent.

(j) Payment information. The payment or disbursing office shall forward to the Contractor available payment information that is suitable for transmission as of the date of release of the EFT instruction to the Federal Reserve System. The Government may request the Contractor to designate a desired format and method(s) for delivery of payment information from a list of formats and methods the payment office is capable of executing. However, the Government does not guarantee that any particular format or method of delivery is available at any particular payment office and retains the latitude to use the format and delivery method most convenient to the Government. If the Government makes payment by check in accordance with paragraph (a) of this clause, the Government shall mail the payment information to the remittance address contained in the CCR database.

(End of Clause)

52.245-2 GOVERNMENT PROPERTY (FIXED-PRICE CONTRACTS) (JUN 2003)

(a) Government-furnished property.

(1) Overseas contracts. If this contract is to be performed outside of the United States and its outlying areas, the words "Government" and "Government-furnished" (wherever they appear in this clause) shall be construed as "United States Government" and "United States Government-furnished," respectively.

(2) The delivery or performance dates for this contract are based upon the expectation that Government-furnished property suitable for use (except for property furnished "as is") will be delivered to the Contractor at the times stated in the Schedule or, if not so stated, in sufficient time to enable the Contractor to meet the contract's delivery or performance dates.

(3) If Government-furnished property is received by the Contractor in a condition not suitable for the intended use, the Contractor shall, upon receipt of it, notify the Contracting Officer, detailing the facts, and, as directed by the Contracting Officer and at Government expense, either repair, modify, return, or otherwise dispose of the property. After completing the directed action and upon written request of the Contractor, the Contracting Officer shall make an equitable adjustment as provided in paragraph (h) of this clause.

(4) If Government-furnished property is not delivered to the Contractor by the required time, the Contracting Officer shall, upon the Contractor's timely written request, make a determination of the delay, if any, caused the Contractor and shall make an equitable adjustment in accordance with paragraph (h) of this clause.

(b) Changes in Government-furnished property. (1) The Contracting Officer may, by written notice, (i) decrease the Government-furnished property provided or to be provided under this contract, or (ii) substitute other Government-furnished property for the property to be provided by the Government, or to be acquired by the Contractor for the Government, under this contract. The Contractor shall promptly take such action as the Contracting Officer may direct regarding the removal, shipment, or disposal of the property covered by such notice.

(2) Upon the Contractor's written request, the Contracting Officer shall make an equitable adjustment to the contract in accordance with paragraph (h) of this clause, if the Government has agreed in the Schedule to make the property available for performing this contract and there is any--

(i) Decrease or substitution in this property pursuant to subparagraph (b)(1) of this clause; or

(ii) Withdrawal of authority to use this property, if provided under any other contract or lease.

(c) Title in Government property. (1) The Government shall retain title to all Government-furnished property.

(2) All Government-furnished property and all property acquired by the Contractor, title to which vests in the Government under this paragraph (collectively referred to as "Government property"), are subject to the provisions of this clause. However, special tooling accountable to this contract is subject to the provisions of the Special Tooling clause and is not subject to the provisions of this clause. Title to Government property shall not be affected by its incorporation into or attachment to any property not owned by the Government, nor shall Government property become a fixture or lose its identity as personal property by being attached to any real property.

(3) Title to each item of facilities and special test equipment acquired by the Contractor for the Government under this contract shall pass to and vest in the Government when its use in performing this contract commences or when the Government has paid for it, whichever is earlier, whether or not title previously vested in the Government.

(4) If this contract contains a provision directing the Contractor to purchase material for which the Government will reimburse the Contractor as a direct item of cost under this contract--

(i) Title to material purchased from a vendor shall pass to and vest in the Government upon the vendor's delivery of such material; and

(ii) Title to all other material shall pass to and vest in the Government upon--

(A) Issuance of the material for use in contract performance;

(B) Commencement of processing of the material or its use in contract performance; or

(C) Reimbursement of the cost of the material by the Government, whichever occurs first.

(d) Use of Government property. The Government property shall be used only for performing this contract, unless otherwise provided in this contract or approved by the Contracting Officer.

(e) Property administration. (1) The Contractor shall be responsible and accountable for all Government property provided under this contract and shall comply with Federal Acquisition Regulation (FAR) Subpart 45.5, as in effect on the date of this contract.

(2) The Contractor shall establish and maintain a program for the use, maintenance, repair, protection, and preservation of Government property in accordance with sound industrial practice and the applicable provisions of Subpart 45.5 of the FAR.

(3) If damage occurs to Government property, the risk of which has been assumed by the Government under this contract, the Government shall replace the items or the Contractor shall make such repairs as the Government directs. However, if the Contractor cannot effect such repairs within the time required, the Contractor shall dispose of the property as directed by the Contracting Officer. When any property for which the Government is responsible is replaced or repaired, the Contracting Officer shall make an equitable adjustment in accordance with paragraph (h) of this clause.

(4) The Contractor represents that the contract price does not include any amount for repairs or replacement for which the Government is responsible. Repair or replacement of property for which the Contractor is responsible shall be accomplished by the Contractor at its own expense.

(f) Access. The Government and all its designees shall have access at all reasonable times to the premises in which any Government property is located for the purpose of inspecting the Government property.

(g) Risk of loss. Unless otherwise provided in this contract, the Contractor assumes the risk of, and shall be responsible for, any loss or destruction of, or damage to, Government property upon its delivery to the Contractor or upon passage of title to the Government under paragraph (c) of this clause. However, the Contractor is not responsible for reasonable wear and tear to Government property or for Government property properly consumed in performing this contract.

(h) Equitable adjustment. When this clause specifies an equitable adjustment, it shall be made to any affected contract provision in accordance with the procedures of the Changes clause. When appropriate, the Contracting Officer may initiate an equitable adjustment in favor of the Government. The right to an equitable adjustment shall be the Contractor's exclusive remedy. The Government shall not be liable to suit for breach of contract for--

(1) Any delay in delivery of Government-furnished property;

(2) Delivery of Government-furnished property in a condition not suitable for its intended use;

(3) A decrease in or substitution of Government-furnished property; or

(4) Failure to repair or replace Government property for which the Government is responsible.

(i) Final accounting and disposition of Government property. Upon completing this contract, or at such earlier dates as may be fixed by the Contracting Officer, the Contractor shall submit, in a form acceptable to the Contracting Officer, inventory schedules covering all items of Government property (including any resulting scrap) not consumed in performing this contract or delivered to the Government. The Contractor shall prepare for shipment, deliver f.o.b. origin, or dispose of the Government property as may be directed or authorized by the Contracting Officer. The net proceeds of any such disposal shall be credited to the contract price or shall be paid to the Government as the Contracting Officer directs.

(j) Abandonment and restoration of Contractor's premises. Unless otherwise provided herein, the Government--

(1) May abandon any Government property in place, at which time all obligations of the Government regarding such abandoned property shall cease; and

(2) Has no obligation to restore or rehabilitate the Contractor's premises under any circumstances (e.g., abandonment, disposition upon completion of need, or upon contract completion). However, if the Government-furnished property (listed in the Schedule or specifications) is withdrawn or is unsuitable for the intended use, or if other Government property is substituted, then the equitable adjustment under paragraph (h) of this clause may properly include restoration or rehabilitation costs.

(k) Communications. All communications under this clause shall be in writing.

(l) Overseas contracts. If this contract is to be performed outside of the United States of America, its territories, or possessions, the words "Government" and "Government-furnished" (wherever they appear in this clause) shall be construed as "United States Government" and "United States Government-furnished," respectively.

(End of clause)

252.204-7001 COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE REPORTING (AUG 1999)

(a) The offeror is requested to enter its CAGE code on its offer in the block with its name and address. The CAGE code entered must be for that name and address. Enter "CAGE" before the number.

(b) If the offeror does not have a CAGE code, it may ask the Contracting Officer to request one from the Defense Logistics Information Service (DLIS). The Contracting Officer will--

(1) Ask the Contractor to complete section B of a DD Form 2051, Request for Assignment of a Commercial and Government Entity (CAGE) Code;

(2) Complete section A and forward the form to DLIS; and

(3) Notify the Contractor of its assigned CAGE code.

(c) Do not delay submission of the offer pending receipt of a CAGE code.

(End of provision)

252.204-7004 REQUIRED CENTRAL CONTRACTOR REGISTRATION.(NOV 2001)

(a) Definitions.

As used in this clause--

(1) Central Contractor Registration (CCR) database means the primary DoD repository for contractor information required for the conduct of business with DoD.

(2) Data Universal Numbering System (DUNS) number means the 9-digit number assigned by Dun and Bradstreet Information Services to identify unique business entities.

(3) Data Universal Numbering System +4 (DUNS+4) number means the DUNS number assigned by Dun and Bradstreet plus a 4-digit suffix that may be assigned by a parent (controlling) business concern. This 4-digit suffix may be assigned at the discretion of the parent business concern for such purposes as identifying subunits or affiliates of the parent business concern.

(4) Registered in the CCR database means that all mandatory information, including the DUNS number or the DUNS+4 number, if applicable, and the corresponding Commercial and Government Entity (CAGE) code, is in the CCR database; the DUNS number and the CAGE code have been validated; and all edits have been successfully completed.

(b)(1) By submission of an offer, the offeror acknowledges the requirement that a prospective awardee must be registered in the CCR database prior to award, during performance, and through final payment of any contract resulting from this solicitation, except for awards to foreign vendors for work to be performed outside the United States.

(2) The offeror shall provide its DUNS or, if applicable, its DUNS+4 number with its offer, which will be used by the Contracting Officer to verify that the offeror is registered in the CCR database.

(3) Lack of registration in the CCR database will make an offeror ineligible for award.

(4) DoD has established a goal of registering an applicant in the CCR database within 48 hours after receipt of a complete and accurate application via the Internet. However, registration of an applicant submitting an application through a method other than the Internet may take up to 30 days. Therefore, offerors that are not registered should consider applying for registration immediately upon receipt of this solicitation.

(c) The Contractor is responsible for the accuracy and completeness of the data within the CCR, and for any liability resulting from the Government's reliance on inaccurate or incomplete data. To remain registered in the CCR database after the initial registration, the Contractor is required to confirm on an annual basis that its information in the CCR database is accurate and complete.

(d) Offerors and contractors may obtain information on registration and annual confirmation requirements by calling 1-888-227-2423, or via the Internet at <http://www.ccr.gov>.

(End of clause)

5252.245-9109 GOVERNMENT-FURNISHED PROPERTY (INCORPORATION) (SEP 1990)

The Government will provide only that property set forth below, notwithstanding any term or condition of this contract to the contrary. Upon Contractor's written request to the cognizant Technical Program Manager, via the cognizant Contract Administration Office, the Government will furnish the following for incorporation in the equipment to be delivered under this contract: **Bridgewire & Capacitors.**

IHD 126 - GOVERNMENT-FURNISHED PROPERTY (FEB 2000) (NAVSEA/IHD)

(a) The Government will furnish the following property to the Contractor for use in performance of this contract in accordance with the following schedule:

Item	Dollar Value	Quantity	Date Available
Bridgewire	\$150/ 1,000 ft.	1,000 ft.	4 weeks ARO
Capacitors	\$6.00 each	800	4 weeks prior to cartridge assembly

(b) The property will be delivered at the Governments expense at or near **(The contractor is to insert the address, city or town and state in which the plant is located; and if rail transportation is specified in paragraph (a) above, the exact location of private siding or public team track at which rail shipments will be received, as well as the name of the railroad(s)):**

(c) Only the property listed above in the quantity shown will be furnished by the Government. All other property required for performance of this contract shall be furnished by the contractor.

(d) Within 30 days after Government furnished property is determined by the contractor to be lost, damaged, destroyed, no longer usable, or no longer needed for the performance of the contract, the Contractor shall notify the Contracting Officer, in writing, thereof.

(e) Government Furnished Material shall be returned to NSWC 2 weeks after delivery of qualification units.

IHD 195 - SECTION L PROPOSAL REQUIREMENTS (FEB 2000) (NAVSEA/IHD)

I. GENERAL INSTRUCTIONS

Each offeror must submit an offer/proposal and other written information in strict accordance with these instructions. When evaluating an offeror the Government will consider how well the offeror complied with both the letter and spirit of these instructions. The Government will consider any failure on part of the offeror to comply with both the letter and spirit of these instructions to be an indication of the type of conduct it can expect during contract performance. Therefore, the Government encourages offerors to contact the contracting officer by telephone, facsimile transmission, e-mail, or mail in order to request an explanation of any aspect of these instructions. The technical proposal, past performance information, and the cost and price proposal shall be submitted in separate volumes. The technical proposal shall not contain any cost/pricing information.

B. The offeror shall submit the following information:

1. One (1) completed and signed solicitation package, with all pricing information, representations and certifications executed.
2. Three (3) copies of the technical proposal, Volume I.
3. One (1) copy of the past performance information, Volume II.

This information shall be provided by the closing date of the solicitation to:

Naval Surface Warfare Center
101 Strauss Avenue, Bldg 1558
Attn: Samantha Gray, Code 1142I
Indian Head, MD 20640-5035

OFFERORS SHALL ADDRESS THE FOLLOWING FACTORS: Information shall be submitted as detailed below.

Factor I-(Volume I)- Technical Proposal.

Volume 1- Shall address Factors 1.2.3&4 as detailed below. Not to Exceed 10 single sided pages, not less than 10 pitch (New Times Roman or similar).

Element 1- Describe your engineering design capabilities. Address your engineering staff, computer aided design capabilities, and experience designing cartridge actuated devices and/or their components.

Element 2- Describe your in-house assembly facilities and capabilities for electronic components. Detail your automated and manual equipment that will be used to fulfill the requirements of this contract.

Element 3- Describe your in-house manufacturing facilities and capabilities for glass to metal seals. Address your experience with and knowledge of glass to metal seal technology, as well as your in-house manufacturing facilities and capabilities.

Element 4- Describe your in-house experience with and knowledge of header and bridgewire assembly production. Detail your experience with and knowledge of header and bridgewire assembly production. Also, address your in-house manufacturing facilities and capabilities for header and bridgewire assemblies.

Factor II – (VOLUME II) - PAST PERFORMANCE (Shall contain only the Past Performance Information not to exceed 5 pages total.)

Past performance is a measure of the degree to which an offeror, as an organization, has during the past three (3) years: (1) satisfied its customers, and (2) complies with federal, state, local laws and regulations. The offeror shall provide a list of references using the Past Performance Matrix, (Attachment 4), who will be able to provide information regarding the offerors past performance during the past three (3) years regarding; (1) customer satisfaction; (2) timeliness; (3) technical success; (4) program management; (5) and the quality of products.

The offeror will submit the Past Performance Questionnaire to each of the references listed on the Past Performance Matrix, a minimum of three (3) is required. The offeror shall instruct the reference to complete the past performance Questionnaire and return it directly to:

Naval Surface Warfare Center
101 Strauss Ave, BLDG 1558
Indian Head, MD 20640-5035
Attn: Samantha Gray, Code 1142I

The offerors selected references must be listed on the Past Performance Matrix. Failure of the references to submit the Past Performance Questionnaire to the contract specialist by September 29, 2003, may result in the inability of the Government to rank the offerors past performance.

NOTE: PAST PERFORMANCE INFORMATION AND QUESTIONNAIRE SHEETS ARE ATTACHMENTS TO THE REQUEST FOR PROPOSAL.

Factor III - Price (with completed solicitation package)

Although price is the least important factor, it will not be ignored. The degree of its importance will increase with the degree of equality of the offers in relation to the other factors on which selection is to be made. Price will be evaluated by the Contracts personnel to determine fair and reasonableness through the most appropriate method available. All pricing information should be included in the completed copies of the RFQ. Information should be submitted to clearly show the basis for the amount of each cost element and how the amount was developed providing sufficient information for government use in determining the proposed costs/prices fair and reasonable.

IHD 211 - SECTION M BEST VALUE EVALUATION AND BASIS FOR AWARD (FFP) (MAR 2000)
(NAVSEA/IHD)

I. The contract resulting from this solicitation will be awarded to that responsible offeror whose offer, conforming to the solicitation, is determined most advantageous to the Government price and other factors considered. The offeror's proposal shall be in the form prescribed by this solicitation and shall contain a response to each of the areas. Proposals will be evaluated and rated against the factors listed below, in descending order of importance:

Technical Proposal
Past Performance
Cost/Price

As technical proposals become more equal, past performance and price will become more significant factors. With respect to technical proposal, past performance and price, the Government is more interested in obtaining technical excellence and superior performance than lowest price. However, the Government will not pay a price premium that it considers disproportionate to the benefits associated with the proposed margin of technical excellence and superior performance. In determining best overall value, the Government will first assess an offeror on the basis of Technical proposal and then compare and rank offerors on the basis of past performance. Then the Government will compare the tradeoffs between relative margins of technical ranking, performance and price. The offer who represents the best value will be the offeror who represents the best tradeoff between technical excellence, superior performance and price.

FACTOR I. TECHNICAL PROPOSAL (Each element is equally weighted)

1. The following technical element shall apply:

- A. Engineering design capabilities
- B. In-house assembly facilities and capabilities for electronic components.
- C. In-house manufacturing facilities and capabilities for glass to metal seals
- D. In-house experience with and knowledge of header and bridgewire assembly production.

2. All proposals which are unrealistic in terms of technical capabilities will be deemed reflective of an inherent lack of technical competence or indicative of failure to comprehend the complexity and risks of the proposed contractual requirements and may render the offer ineligible for award.

3. An offeror is required to submit a technical proposal as detailed herein. Failure to do so may render an offer ineligible for award.

FACTOR II. PAST PERFORMANCE

1. The Government will evaluate the quality of the offeror's past performance. This evaluation is separate and distinct from the Contracting Officer's responsibility determination. The assessment of the offeror's past performance will be used to evaluate the relative capability of the offeror and their competitors to successfully meet the requirements of the RFP. Past performance of significant and/or critical subcontractors will be considered to the extent warranted by the subcontractor's involvement in the proposed effort.

2. The Government will evaluate the quality of the offeror's past performance. This may include any aspect of past performance that is related to this contract. A record of poor past performance may be considered an indication that the offeror may be lacking in areas such as reliability, quality and customer satisfaction. However, a record of average or exceptional past performance will not result in favorable assessment of an otherwise technically deficient technical proposal. In evaluating an offeror's past performance, the Government will consider information contained in the offeror's past performance references, information obtained from other sources, including past and present customers, subcontractors and any others who may have useful information, and other past performance data available to the Government. Offerors with no past performance history will receive a neutral rating.

a. The subfactors listed below (which are equal in importance) will be used to evaluate past performance:

- i. Product Quality. The offeror's demonstrated ability to conform to contract specification requirements.
- ii. Reliability. The offeror's demonstrated ability to conform to contract requirements.
- iii. Timeliness. The offeror's demonstrated ability to meet contract schedules and delivery dates.

iv. Customer Satisfaction. The offeror's demonstrated commitment to maintaining an acceptable level of performance and customer satisfaction.

v. Program Management. The offeror's ability to meet or exceed its subcontracting plans.

3. Contracting Officers will use the following adjectival definitions as guidelines in evaluating past performance:

Excellent - The offeror's performance was consistently superior. The contractual performance was accomplished with minor problems, to which corrective action taken by the contractor was highly effective.

Good - The offeror's performance was better than average. The contractual performance was accomplished with some minor problems, to which corrective actions taken by the contractor were effective. They would be willing to do business with the offeror again.

Average- The offeror's performance was adequate. The contractual performance reflects a problem, to which the contractor has not yet identified corrective actions. Consideration would take part in awarding a contract to the offeror again.

Poor - The offeror's performance was entirely inadequate. The contractual performance of the element being assessed contains problems, to which the contractor's corrective actions appear to be or were ineffective. They would not do business with the offeror again under any circumstances.

Neutral – Offerors lacking relevant past performance history will receive a neutral rating for past performance. The offeror must provide the information requested above for past performance evaluation or affirmatively state that it possesses no relevant directly related or similar past performance. An offer that fails to provide the past performance information or to assert that the company has no relevant directly related or similar past performance may be considered ineligible for award.

FACTOR III. COST/PRICE

1. Although price is not the most important evaluation factor, it will not be ignored. The degree of its importance will increase with the degree of equality of the proposals in relation to the other factors on which selection is to be based.

II. The Government may award a contract on the basis of initial offers received, without discussions. Therefore, each initial offer should contain the offeror's best terms from a cost/price, technical and past performance standpoint. However, if considered necessary by the contracting officer, discussions will be conducted only with those offerors determined to have a reasonable chance for award.

METHODOLOGY

The offerors' submissions shall be reviewed by the technical review team. Each factor shall be reviewed based on the merits of the information contained in the offerors' submission. The technical review team will not assume nor allow any prior knowledge of the offeror to affect the evaluation.

Once all evaluations are complete the corresponding scores shall be tabulated and placed in a chart as follows in this example: (Note: This is an example only and should not to be construed as indicative of actual scores or prices.)

Offeror	Technical Score	Past Performance Rating	Cost/Price
A	88	Excellent	\$130,000
B	93	Excellent	\$150,000
C	0 **	Good	\$102,000
D	82	Excellent	\$ 96,500

E	93	Poor	\$ 80,500
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* Not to exceed 100

** Offeror did not comply with RFP instructions – was not evaluated

Once this information is tabulated, offerors will be compared making value and price tradeoffs and award will be made to the offeror that represents the Best Value to the Government. If the offeror with the highest scores also represents the lowest price then that offeror is clearly the Best Value. If an offeror with higher scores has a higher price, then a determination must be made whether the difference in value is worth the higher price. In the example the government may award to Offeror A, Offeror B (if it could be determined whether the difference in greater value is worth the difference in price when compared to Offeror A), or Offeror D. Offeror E, even though reflective of a high technical score would not be considered the best value based on the combination of scores received for the evaluation factors. Offeror C did not comply with the instructions as stated in the solicitation and therefore received a low technical score. As the technical evaluation is the most important factor the Government has determined that Offeror C does not represent the best value in regards to the evaluation factors.

IHD SAP 1 INVOICE MAILING INSTRUCTIONS

MAIL INVOICE TO:

INDIAN HEAD DIVISION, NSWC
COMPTROLLER DEPARTMENT, CODE 021
ACCOUNTING AND FINANCE DIVISION BLDG. 1601
101 STRAUSS AVENUE
INDIAN HEAD, MD 20640-5035

Note: It is extremely important that your invoice is mailed to the address cited above. **Failure to do so will result in a delay of your payment.** Informational copies of the invoice may be mailed to the contract administrator and/or the technical point of contact; however, the official invoice **MUST** be mailed to the Indian Head Comptroller Department.

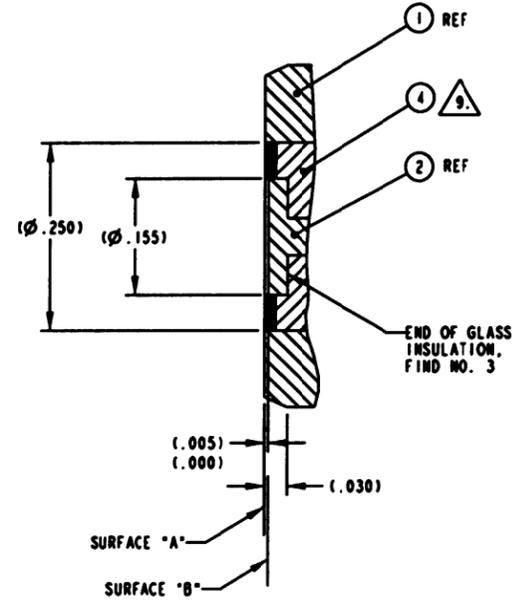
CLASSIFICATION OF CHARACTERISTICS (DOD-STD-210)	
CRITICAL-	NONE
MAJOR-	10
MINOR-	ALL OTHER CHARACTERISTICS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
B	REDRAWN WITH CHANGE SEE ECP 9752200016R2	22 JUL 98	RZYUW

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100.
2. THE SELECTED STEEL, CONFORMING TO THE REQUIREMENTS OF ASTM A108, SHALL MEET THE METAL TO GLASS COMPRESSION SEALING SPECIFIED IN NOTE 10.
3. UNLESS OTHERWISE SPECIFIED: REMOVE ALL BURRS AND BREAK SHARP EDGES .005 MAX. FILLETS R .005 MAX. SURFACE TEXTURE 125.
4. NICKEL PLATING PRIOR TO GLASS TO METAL BONDING IN ACCORDANCE WITH QQ-N-290, CLASS 1, .0002-.0004 THICK IS OPTIONAL.
5. BOND ELECTRODE, FIND NO. 2, IN HEADER, FIND NO. 1, WITH GLASS INSULATION, FIND NO. 3, UTILIZING STANDARD GLASS TO METAL BONDING TECHNIQUES.
6. SURFACE "C" (HEADER, FIND NO. 1, ELECTRODE, FIND NO. 2, AND GLASS INSULATION, FIND NO. 3) MAY BE GROUND TO ACHIEVE THE REQUIRED FLATNESS.
7. BOTH ENDS OF ELECTRODE, FIND NO. 2, SHALL BE FREE OF GLASS INSULATION, FIND NO. 3.
- (M101) 8. AFTER ASSEMBLY, ALL EXPOSED METAL SURFACES SHALL BE NICKEL PLATED .0003 TO .0005 THICK IN ACCORDANCE WITH SAE AMS 2404, CLASS 1. AFTER PLATING THE PARTS SHALL BE BAKED AT 350 F ± 50 F FOR 3 HOURS MINIMUM. HEAT TREAT WITHIN 1 HOUR AFTER PLATING IS COMPLETED. ALL DIMENSIONS APPLY AFTER PLATING. NOTE: "GRINDING PER NOTE 6. MUST BE ACCOMPLISHED PRIOR TO PLATING".
9. FILL CAVITY BETWEEN GLASS INSULATION, FIND NO. 3, AND SURFACE "B" WITH EPOXY RESIN, FIND NO. 4, UNTILL IT IS A MAX OF .010 BELOW TO FLUSH WITH SURFACE "B". SURFACE "A" SHALL BE FREE OF EPOXY RESIN.
- (M102) 10. BONDED ASSEMBLY SHALL BE CAPABLE OF WITHSTANDING A HYDROTATIC PRESSURE OF 30,000 ± 500 PSI WHEN APPLIED TO Ø.265 OF GLASS INSULATION, FIND NO. 3. ANY LEAKAGE, CRACKING OF THE GLASS OR ANY MOVEMENT OR DEFORMATION OF THE PART(S) SHALL BE CAUSE FOR REJECTION.
- (M103) 11. BONDED ASSEMBLY SHALL BE CAPABLE OF SUPPORTING 300 POUNDS MINIMUM DEAD LOAD ON SURFACE "B". ANY CRACKING OF THE GLASS OR ANY MOVEMENT OR DEFORMATION OF THE PART(S) SHALL BE CAUSE FOR REJECTION.
- (M104) 12. INSULATION RESISTANCE BETWEEN ELECTRODE, FIND NO. 2, AND HEADER, FIND NO. 1, SHALL BE 50 MEGOHMS MINIMUM WHEN TESTED AT 500 VOLTS D.C.



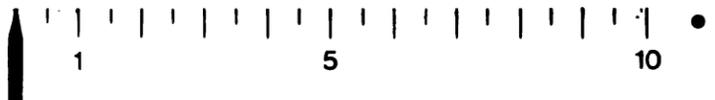
VIEW B
SCALE 10/1
(OPTIONAL CONSTRUCTION)
(SHEET 2)

4	AR	30003	707A114		RESIN, EPOXY	
3	AR		5184843		INSULATION, GLASS	
2	I		CLASS 2, 3 OR 6 CD	MIL-1-23011	ELECTRODE	
1	I		TYPE 1215	ASTM A108	HEADER	
FIND NO	QTY REQ	CAGE CODE	PART OR IDENTIFYING NO	SPECIFICATION	NOMENCLATURE OR DESCRIPTION	MATERIAL OR NOTE

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		INDIAN HEAD DIVISION NAVAL SURFACE WARFARE CENTER INDIAN HEAD, MD 20640-5035		DEPARTMENT OF THE NAVY NAVAL AIR SYSTEMS COMMAND WASHINGTON, D.C. 20361	
GENERAL TOLERANCES		ENGINEER		ENGINEER	
XX DECIMALS ± —		CHECKED		CHECKED	
XXX DECIMALS ± .005		DRAWN INSWC, IH		DATE	
ANGLES ± 2°		APPROVED FOR NAVAIR		DATE	
MATERIAL:		DRAWN INSWC, IH		DATE	
NEXT ASSY USED ON		APPROVED FOR NAVAIR		DATE	
APPLICATION		DO NOT SCALE DRAWING		DATE	
SIZE	CAGE CODE	DRAWING NUMBER			
D	30003	6261108			
SCALE: 6/1	WEIGHT: 133 LBS	SHEET 1 OF 2			

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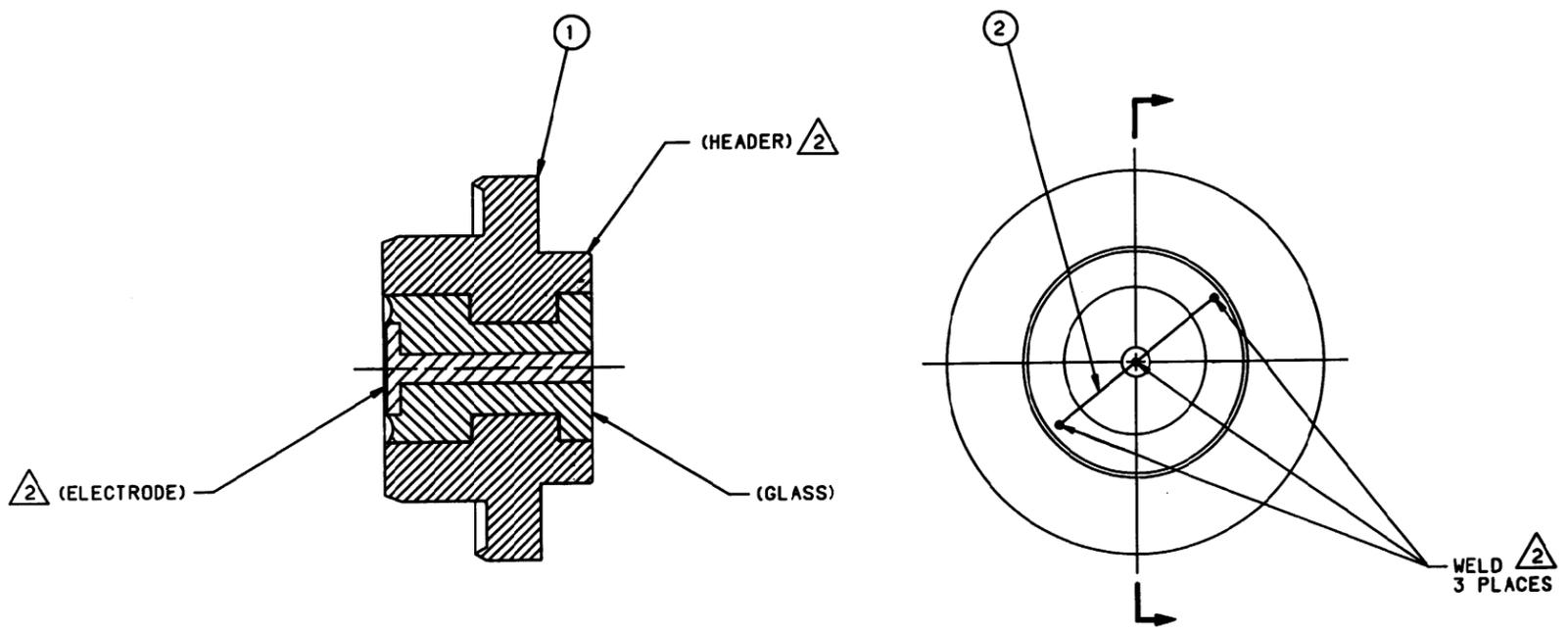
8 7 6 5 4 3 2 1

CLASSIFICATION OF CHARACTERISTICS (NR 43A)	
CRITICAL	- NONE
MAJOR	- 2
MINOR	- ALL OTHER CHARACTERISTICS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:

- 1. INTERPRET DRAWING IN ACCORDANCE WITH DOD-STD-100.
- (M101) 2. WELD BRIDGEWIRE, FIND NO. 2, TO HEADER AND TO ELECTRODE AS SHOWN. ENSURE WELD RESULTS IN A STRONG METAL FUSION BOND. NOTE: "THE CENTER ELECTRODE WILL REQUIRE MORE POWER DURING WELDING THAN WILL THE HEADER".
- (M102) 3. BRIDGE RESISTANCE SHALL BE $1.1 \pm .15$ OHMS.



FIND NO.	QTY	CODE	PART NO. OR IDENTIFYING NO.	SPECIFICATION NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL OR NOTE
2	AR		COMP. D-ANNEALED	ASTM-B344	RESISTANCE WIRE, NOM DIA. .0017, 180-190 OHMS/FT	NICKEL-CHROM-IRON ALLOY
1	1		6261108		HEADER, GLASS SEALED ASSEMBLY	

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.		NAVAL ORDNANCE STATION INDIAN HEAD, MD 20640		DEPARTMENT OF THE NAVY NAVAL SEA SYSTEMS COMMAND WASHINGTON, D.C. 20362	
TOLERANCES: ANGLES ±		APPROVALS		DATE	
FRACTIONS ±		PREP: John Merritt		26 APR 88	
2 PLACE DECIMALS ±		CHK: M. M. C.		8 AUG 88	
3 PLACE DECIMALS ±		ENGR: J. H. H.		10/2/88	
MATERIAL:		AF ENGR: P. H. H.		10/2/88	
NEXT ASSY.	USED ON	APPROVED FOR NAVSEA		SIZE CODE IDENT NO. NAVSEA DRAWING NO.	
APPLICATION		John Merritt 10/2/88		D 53711 6261109	
				SCALE: 8/1 SHEET 1 OF 1	

DISTRIBUTION STATEMENT C: Distribution authorized to U.S. Government and their contractors, administrative or operational use, 4-10-91. Other requests for this document shall be referred to Commanding Officer, Naval Ordnance Station, Indian Head, MD 20640-5000.

D C B A

8 7 6 5 4 3 2 1

CLASSIFICATION OF CHARACTERISTICS (DOD-STD-2101)	
CRITICAL-	NONE
MAJOR-	NONE
MINOR-	ALL CHARACTERISTICS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
D	REPLACES REV C WITH CHANGE SEE RCP 955220D061 AND 955220D007	12/24/92	[Signature]

- NOTES:
- INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100.
 - REQUIREMENTS:
 - MECHANICAL PROPERTIES

DENSITY (20°C, 68°F)	166LB/FT ³
MINIMUM PREFORM DENSITY (20°C, 68°F)	144LB/FT ³
YOUNG'S MODULUS	10.2 X 10 ⁶ PSI
 - THERMAL PROPERTIES

EXPANSION	49.4 X 10 ⁻⁶ /°F (32-572°F)
ROOM TEMPERATURE TO SETTING POINT	55.1 X 10 ⁻⁷ /°F (77-775°F)
 - VISCOSITY

WORKING POINT	1839°F
(10 ⁴ POISES)	
SOFTENING POINT	1195°F
(10 ^{7.6} POISES)	
ANNEALING POINT	835°F
STRAIN POINT	766°F
 - ELECTRICAL

LOG ₁₀ VOLUME RESISTIVITY	
(250°C, 482°F)	8.9
(350°C, 662°F)	7.0
DIELECTRIC CONSTANT	
(20°C, 68°F AND 1MH ₂)	6.3
LOSS TANGENT	
(20°C, 68°F AND 1MH ₂)	.17%

ONLY THE ITEMS DESCRIBED ON THIS DRAWING ARE APPROVED FOR USE IN THE APPLICATION(S) SPECIFIED HEREON. A SUBSTITUTE ITEM SHALL NOT BE USED WITHOUT PRIOR APPROVAL BY THE COGNIZANT DESIGN ACTIVITY.

IDENTIFICATION OF THE APPROVED ITEMS HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY.

APPROVED SOURCE(S) OF SUPPLY			
FSCM	VENDOR	VENDOR'S ITEM IDENT NO.	APPLICATION
28363	CORNING GLASS WORKS CORNING, NEW YORK 14830	CORNING 9010 OR CORNING 9013	CARTRIDGE ACTUATED DEVICES
65167	MANSOL CERAMICS CO. 140 LITTLE STREET BELLEVILLE, NJ 07109	MANSOL 13	
1BH23	ELECTRO-GLASS PRODUCTS P.O. BOX 157 MAMMOTH, PA 15664	EG2164	

DISTRIBUTION STATEMENT C:
DISTRIBUTION AUTHORIZED TO U.S. GOVERNMENT AGENCIES AND THEIR CONTRACTORS. ADMINISTRATIVE OR OPERATIONAL USE, 3 09 92. OTHER REQUESTS FOR THIS DOCUMENT SHALL BE REFERRED TO COMMANDER, INDIAN HEAD DIVISION, NAVAL SURFACE WARFARE CENTER, 101 STRAUSS AVENUE INDIAN HEAD, MD. 20640 5035.

SOURCE CONTROL DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		INDIAN HEAD DIVISION NAVAL SURFACE WARFARE CENTER INDIAN HEAD, MD 20640-5035		DEPARTMENT OF THE NAVY NAVAL SEA SYSTEMS COMMAND WASHINGTON, D C 20362	
GENERAL TOLERANCES		ENGINEER		INSULATION, GLASS	
XX DECIMALS ±		ENGINEER		SIZE PAGE CODE DRAWING NUMBER	
XXX DECIMALS ±		CHECKED		D 53711 5184843	
ANGLES ±		DRAWN		SCALE: 1:1 WEIGHT: 333 LBS SHEET 1 OF 1	
MATERIAL		APPROVED FOR NAVSEA		DATE	
NEXT ASSY USED ON		AUTOMATICALLY GENERATED			
APPLICATION		DO NOT SCALE DRAWING			



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CLASSIFICATION OF CHARACTERISTICS (DOD-STD-2101)	
CRITICAL-	NONE
MAJOR-	NONE
MINOR-	ALL CHARACTERISTICS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
G	REPLACES REV F WITH CHANGE	17 JUN 96	RAY WALDEN
	SEE ECP 955220D061 AND 955220D007		
H	SEE ECP 01030-5130M	12/1/01	J. G. WALDEN

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100.
2. THIS RESIN SHALL BE A TWO PART SYSTEM, HAVING A MIXING RATIO BY WEIGHT OF ONE TO ONE AND A SPECIFIC GRAVITY OF 1.08.
3. THIS RESIN SHALL HAVE AN INITIAL VISCOSITY OF 7000 CPS AND A GEL TIME OF APPROXIMATELY 30 MINUTES AT 60°C (140°F).
4. CURING TIME WILL VARY FROM 24 TO 48 HOURS AT AMBIENT TEMPERATURES TO A MINIMUM OF 1 HOUR AT 95°C (203°F).
5. FOR EASE OF VERIFICATION OF COMPLETE SEALING, ADD 1 ± .5 PARTS COLOR CONCENTRATE BY WEIGHT TO 10 PARTS OF RESIN BY WEIGHT TO GIVE A VISIBLE RED COLOR TO THE RESIN BEFORE USE IN INTENDED APPLICATION. CONAP DS-1831A (RED), (CYTEC INDUSTRIES, INC., 1405 BUFFALO ST, OLEAN, NY, PHONE 716-372-9650) IS A SUITABLE PRODUCT.
6. ONLY ITEMS DESCRIBED ON THIS DRAWING ARE APPROVED FOR USE IN THE APPLICATIONS SPECIFIED HEREON. A SUBSTITUTE ITEM SHALL NOT BE USED WITHOUT PRIOR APPROVAL BY THE QUALIFYING ACTIVITY.
7. IDENTIFICATION OF THE APPROVED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM DESCRIBED ON THE DRAWING.

D
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APPROVED SOURCE(S) OF SUPPLY			
CAGE CODE	VENDOR	VENDOR'S ITEM IDENT NO.	APPLICATION
75037	3M CO. ELECTRICAL PRODUCTS DIVISION OEM 3M AUSTIN CTR AUSTIN, TX 78769-2963 PHONE 800-676-8381	SCOTCHCAST BRAND ELECTRICAL RESIN NO. 8 (5236)	AIRCREW ESCAPE PROPULSION SYSTEMS CARTRIDGES AND CARTRIDGE ACTUATED DEVICES

DISTRIBUTION STATEMENT C:
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SOURCE CONTROL DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		INDIAN HEAD DIVISION NAVAL SURFACE WARFARE CENTER INDIAN HEAD, MD 20640-5035		DEPARTMENT OF THE NAVY NAVAL AIR SYSTEMS COMMAND WASHINGTON, D.C. 20361	
GENERAL TOLERANCES		ENGINEER		RESIN, EPOXY	
XX DECIMALS ± —		ENGINEER		SIZE CAGE CODE DRAWING NUMBER	
XXX DECIMALS ± —		CHECKED		D 30003 707AS114	
ANGLES ± —		DRAWN		SCALE: 1/1 WEIGHT: 11X LBS SHEET 1 OF 1	
MATERIAL:		APPROVED FOR NAVAIR		DATE	
NEXT ASSY USED ON		APPROVED FOR NAVAIR		DATE	
APPLICATION		DO NOT SCALE DRAWING			

AUTHENTICATED
8/15/73

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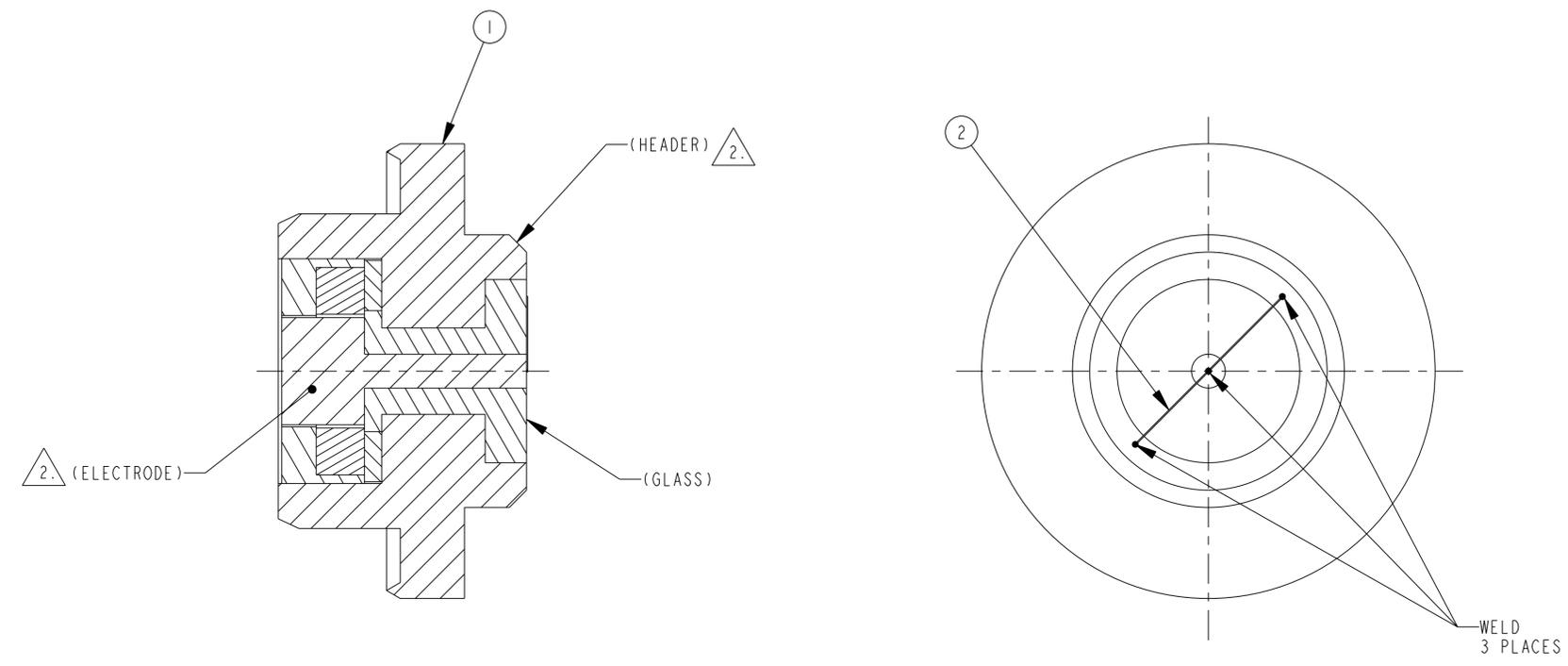
CLASSIFICATION OF CHARACTERISTICS (DOD-STD-2101)	
CRITICAL-	NONE
MAJOR-	2
MINOR-	ALL OTHER CHARACTERISTICS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL

NOTES:

- 1. INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.100-200, APPENDIXES B THRU E.
- (M101) 2. WELD BRIDGEWIRE, FIND NO. 2, TO HEADER GLASS SEAL ASSEMBLY, FIND NO. 1, AS SHOWN. ENSURE WELD RESULTS IN A STRONG METAL FUSION BOND.
NOTE: "THE CENTER ELECTRODE WILL REQUIRE MORE POWER DURING WELDING THAN WILL THE HEADER".
- (M102) 3. BRIDGE RESISTANCE SHALL BE $1.1 \pm .15$ OHMS.

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.



2	AR			ASTM B344	RESISTANCE WIRE, NOM DIA. .0017, 180-190 OHMS/FT	NICKEL-CHROM-IRON ALLOY
1	I		SK5230P-300		HEADER, GLASS SEAL ASSEMBLY	
FIND NO	QTY REQ	CAGE CODE	PART OR IDENTIFYING NO	SPECIFICATION	NOMENCLATURE OR DESCRIPTION	MATERIAL OR NOTE

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			INDIAN HEAD DIVISION NAVAL SURFACE WARFARE CENTER INDIAN HEAD, MD 20640-5035		DEPARTMENT OF THE NAVY NAVAL SEA SYSTEMS COMMAND WASHINGTON, D.C. 20362			
GENERAL TOLERANCES			ENGINEER		HEADER AND BRIDGEWIRE ASSEMBLY			
XX DECIMALS ± —			ENGINEER					
XXX DECIMALS ± —			CHECKED					
ANGLES ± —			DRAWN	NSWC, IH	2002-07-26	SIZE	CAGE CODE	DRAWING NUMBER
MATERIAL:			APPROVED FOR NAVSEA		DATE	D	53711	SK5230P-305
NEXT ASSY	USED ON	DO NOT SCALE DRAWING		SCALE: 8/1		WEIGHT: ---		SHEET 1 OF 1

DISTRIBUTION STATEMENT C:
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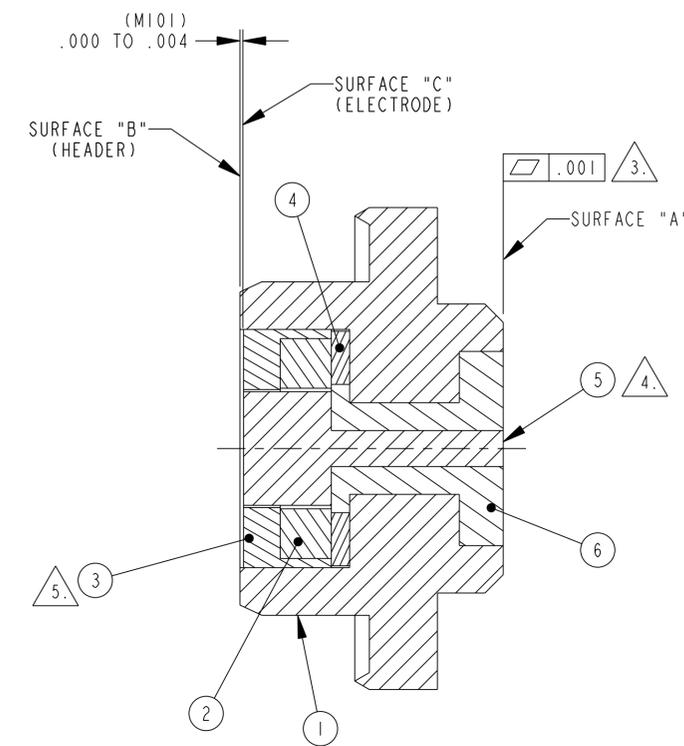
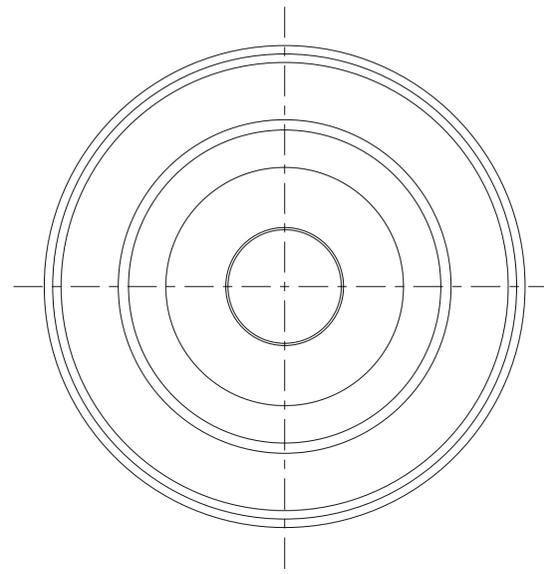
CLASSIFICATION OF CHARACTERISTICS (DOD-STD-2101)	
CRITICAL-	NONE
MAJOR-	3
MINOR-	ALL OTHER CHARACTERISTICS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.100-2000, APPENDIXES B-E.
 2. HEADER, FIND NO. 1, AND ELECTRODE, FIND NO. 5, SHALL BE JOINED IN GLASS TO METAL BOND USING GLASS INSULATION, FIND NO. 6.
 3. SURFACE "A" (HEADER, FIND NO. 1, ELECTRODE, FIND NO. 5, AND GLASS INSULATION, FIND NO. 6) MAY BE GROUND TO ACHIEVE THE REQUIRED FLATNESS.
 4. BOTH ENDS OF ELECTRODE, FIND NO. 5, SHALL BE FREE OF GLASS INSULATION, FIND NO. 6.
 5. FILL CAVITY BETWEEN THE CAPACITOR, FIND NO. 2, AND SURFACE "C" WITH EPOXY, FIND NO. 3. EPOXY SHALL BE FLUSH TO .010 MAX BELOW SURFACE "C". SURFACE "B" SHALL BE FREE OF EPOXY RESIN.
- (M101) 6. BONDED ASSEMBLY SHALL BE CAPABLE OF WITHSTANDING A HYDROSTATIC PRESSURE OF 30,000 ± 500 PSI WHEN APPLIED TO Ø.265 OF GLASS INSULATION, FIND NO. 6. ANY LEAKAGE, CRACKING OF THE GLASS, OR THE CAPACITOR, OR ANY MOVEMENT OR DEFORMATION OF THE PART(S) SHALL BE CAUSE FOR REJECTION.
- (M102) 7. BONDED ASSEMBLY SHALL BE CAPABLE OF SUPPORTING 300 POUNDS MINIMUM DEAD LOAD ON SURFACE "C". ANY CRACKING OF THE GLASS OR ANY MOVEMENT OR DEFORMATION OF THE PART(S) SHALL BE CAUSE FOR REJECTION.
- (M103) 8. INSULATION RESISTANCE BETWEEN ELECTRODE, FIND NO. 5, AND HEADER, FIND NO. 1, SHALL BE 50 MEGOHMS MINIMUM WHEN TESTED AT 500 VOLTS D.C.



FIND NO	QTY REQ	CAGE CODE	PART OR IDENTIFYING NO	SPECIFICATION	NOMENCLATURE OR DESCRIPTION	MATERIAL OR NOTE
6	AR		5184843		INSULATION, GLASS	
5	I		SK5230P-304		ELECTRODE	
4	I		SK5230P-303		INSULATING DISC	
3	AR	30003	707AS114		EPOXY, RESIN	
2	I		SK5230P-302		CAPACITOR, DISCOIDAL	
1	I		SK5230P-301		HEADER	

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		INDIAN HEAD DIVISION NAVAL SURFACE WARFARE CENTER INDIAN HEAD, MD 20640-5035		DEPARTMENT OF THE NAVY NAVAL SEA SYSTEMS COMMAND WASHINGTON, D.C. 20362	
GENERAL TOLERANCES		ENGINEER		HEADER, GLASS SEAL ASSEMBLY	
XX DECIMALS ± —		ENGINEER			
XXX DECIMALS ± —		CHECKED		SIZE	
ANGLES ± —		DRAWN		CAGE CODE	
MATERIAL:		NSWC, IH		DRAWING NUMBER	
NEXT ASSY		DATE		D 53711 SK5230P-300	
USED ON		APPROVED FOR NAVSEA		SCALE: 8/1	
APPLICATION		DO NOT SCALE DRAWING		WEIGHT: ---	
				SHEET 1 OF 1	

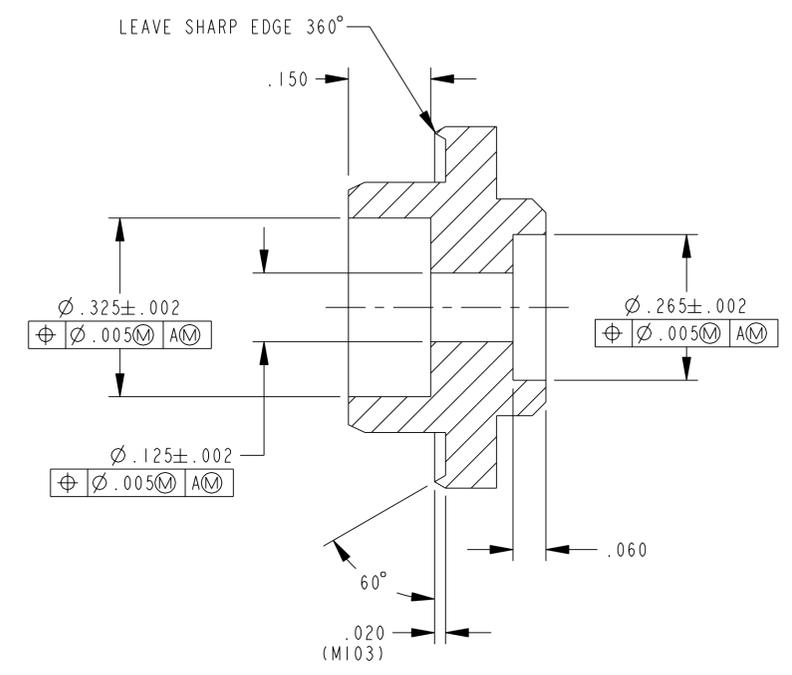
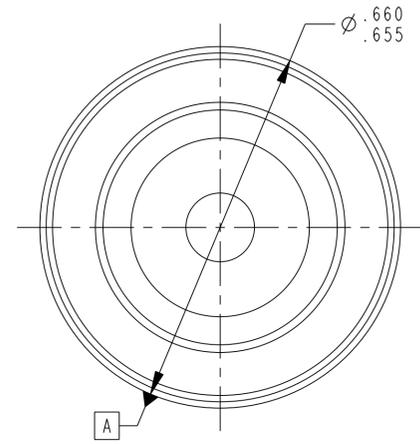
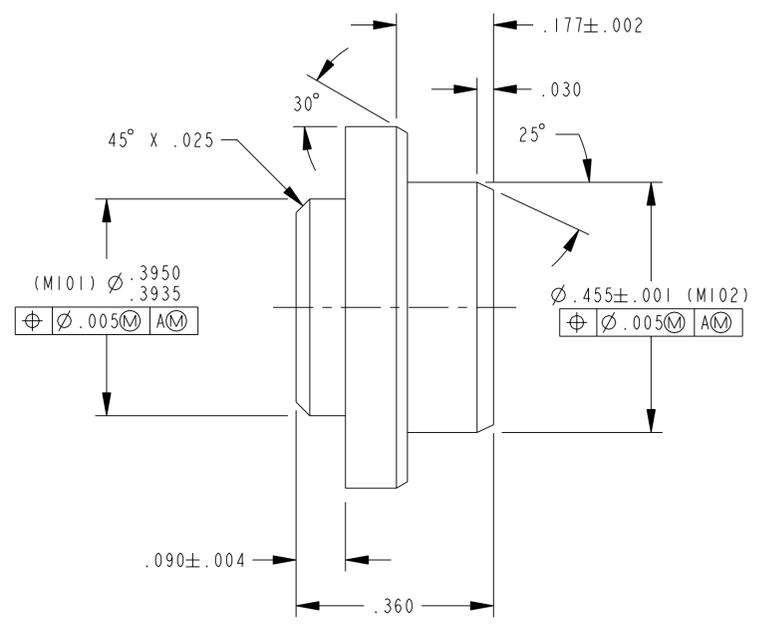
CLASSIFICATION OF CHARACTERISTICS (DOD-STD-2101)	
CRITICAL-	NONE
MAJOR-	4
MINOR-	ALL OTHER CHARACTERISTICS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL

NOTES:

- INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.100-2000, APPENDIX B THRU E.
- (M104) MATERIAL: CRES, TYPE 304, CONDITION A, IN ACCORDANCE WITH ASTM A 276 OR SAE AMS-QQ-S-763.
- UNLESS OTHERWISE SPECIFIED:
REMOVE ALL BURRS AND BREAK SHARP EDGES .005 MAX
FILLETS R .005 MAX.
SURFACE TEXTURE 125.
- NICKEL PLATING IN ACCORDANCE WITH SAE AMS-QQ-N-290, CLASS 1, .0002-.0004 THICK IS OPTIONAL.

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.



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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		INDIAN HEAD DIVISION NAVAL SURFACE WARFARE CENTER INDIAN HEAD, MD 20640-5035		DEPARTMENT OF THE NAVY NAVAL SEA SYSTEMS COMMAND WASHINGTON, D.C. 20362	
GENERAL TOLERANCES		ENGINEER		HEADER	
XX DECIMALS ± —		ENGINEER			
XXX DECIMALS ± .005		CHECKED		SIZE CAGE CODE DRAWING NUMBER	
ANGLES ± 2°		DRAWN NSWC, IH 2002-07-26		D 53711 SK5230P-301	
MATERIAL:		APPROVED FOR NAVSEA DATE		SCALE: 6/1 WEIGHT: --- SHEET 1 OF 1	
NEXT ASSY USED ON APPLICATION		DO NOT SCALE DRAWING			

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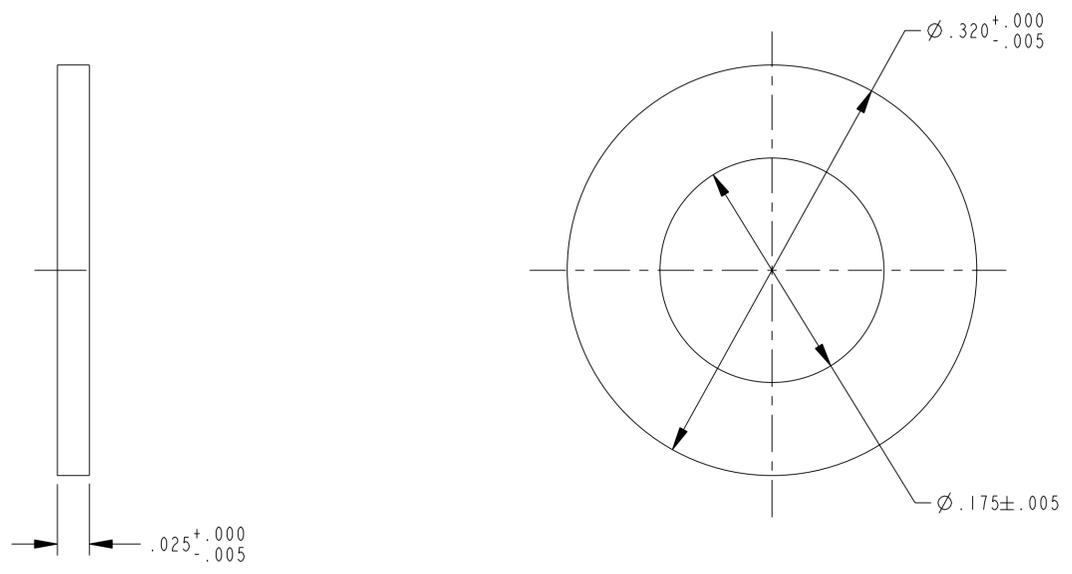
CLASSIFICATION OF CHARACTERISTICS (DOD-STD-2101)	
CRITICAL-	NONE
MAJOR-	NONE
MINOR-	ALL CHARACTERISTICS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.100-2000, APPENDIX B THRU E.
2. MATERIAL: NYLON IN ACCORDANCE WITH ????????



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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		INDIAN HEAD DIVISION NAVAL SURFACE WARFARE CENTER INDIAN HEAD, MD 20640-5035		DEPARTMENT OF THE NAVY NAVAL SEA SYSTEMS COMMAND WASHINGTON, D.C. 20362	
GENERAL TOLERANCES		ENGINEER		INSULATING DISC	
XX DECIMALS ± —		ENGINEER			
XXX DECIMALS ± —		CHECKED			
ANGLES ± —		DRAWN	NSWC, IH	2002-03-29	DATE
MATERIAL:		APPROVED FOR NAVSEA		SIZE	CAGE CODE
_____				D	53711
NEXT ASSY	USED ON			DRAWING NUMBER	
APPLICATION				SK5230P-303	
DO NOT SCALE DRAWING				SCALE: 14/1	WEIGHT: ---
				SHEET 1 OF 1	

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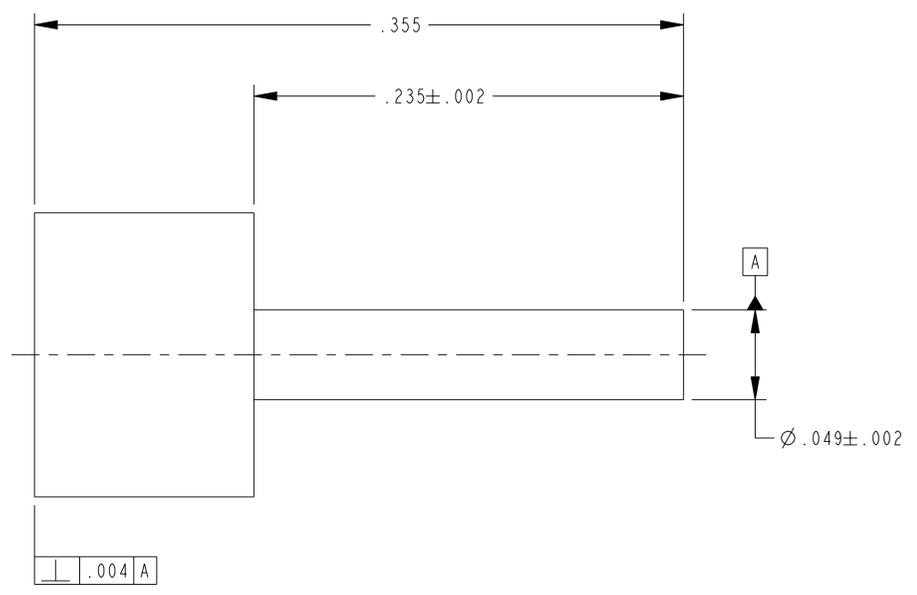
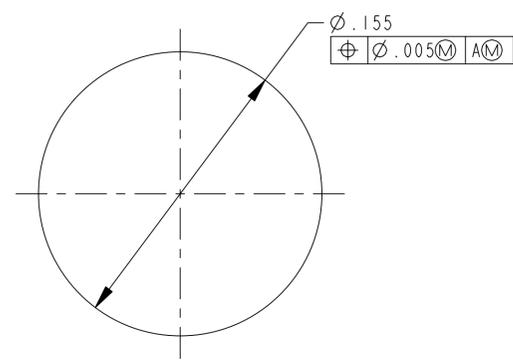
CLASSIFICATION OF CHARACTERISTICS (DOD-STD-2101)	
CRITICAL-	NONE
MAJOR-	I
MINOR-	ALL OTHER CHARACTERISTICS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

NOTES:

- INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.100-2000, APPENDIX B THRU E.
- (M101) MATERIAL: IRON-NICKEL ALLOY IN ACCORDANCE WITH SAE AMS-I-23011, CLASS 2, FORM BAR, FINISH ??, CONDITION ANNEALED.
- UNLESS OTHERWISE SPECIFIED:
REMOVE ALL BURRS AND BREAK SHARP EDGES .005 MAX
FILLETS R .005 MAX.
SURFACE TEXTURE 125.



DISTRIBUTION STATEMENT C:
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		INDIAN HEAD DIVISION NAVAL SURFACE WARFARE CENTER INDIAN HEAD, MD 20640-5035		DEPARTMENT OF THE NAVY NAVAL SEA SYSTEMS COMMAND WASHINGTON, D.C. 20362	
GENERAL TOLERANCES		ENGINEER		ELECTRODE	
XX DECIMALS ± —		ENGINEER			
XXX DECIMALS ± .005		CHECKED		SIZE CAGE CODE DRAWING NUMBER	
ANGLES ± —		DRAWN NSWC, IH 2001-08-13		D 53711 SK5230P-304	
MATERIAL:		APPROVED FOR NAVSEA DATE		SCALE: 20/1 WEIGHT: --- SHEET 1 OF 1	
NEXT ASSY USED ON APPLICATION		DO NOT SCALE DRAWING			

CLASSIFICATION OF CHARACTERISTICS (DOD-STD-2101)	
CRITICAL-	NONE
MAJOR-	NONE
MINOR-	ALL CHARACTERISTICS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
D	REPLACES REV C WITH CHANGE SEE RCP 955220D061 AND 955220D007	12/24/92	[Signature]

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100.

2. REQUIREMENTS:

2.1 MECHANICAL PROPERTIES

DENSITY (20°C, 68°F)	166LB/FT ³
MINIMUM PREFORM DENSITY (20°C, 68°F)	144LB/FT ³
YOUNG'S MODULUS	10.2 X 10 ⁶ PSI

2.2 THERMAL PROPERTIES

EXPANSION	49.4 X 10 ⁻⁶ /°F (32-572°F)
ROOM TEMPERATURE TO SETTING POINT	55.1 X 10 ⁻⁷ /°F (77-775°F)

2.3 VISCOSITY

WORKING POINT	1839°F
(10 ⁴ POISES)	
SOFTENING POINT	1195°F
(10 ^{7.6} POISES)	
ANNEALING POINT	835°F
STRAIN POINT	766°F

2.4 ELECTRICAL

LOG ₁₀ VOLUME RESISTIVITY	
(250°C, 482°F)	8.9
(350°C, 662°F)	7.0
DIELECTRIC CONSTANT	
(20°C, 68°F AND 1MH _z)	6.3
LOSS TANGENT	
(20°C, 68°F AND 1MH _z)	.17X

ONLY THE ITEMS DESCRIBED ON THIS DRAWING ARE APPROVED FOR USE IN THE APPLICATION(S) SPECIFIED HEREON. A SUBSTITUTE ITEM SHALL NOT BE USED WITHOUT PRIOR APPROVAL BY THE COGNIZANT DESIGN ACTIVITY.

IDENTIFICATION OF THE APPROVED ITEMS HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY.

APPROVED SOURCE(S) OF SUPPLY			
FSCM	VENDOR	VENDOR'S ITEM IDENT NO.	APPLICATION
28363	CORNING GLASS WORKS CORNING, NEW YORK 14830	CORNING 9010 OR CORNING 9013	CARTRIDGE ACTUATED DEVICES
65167	MANSOL CERAMICS CO. 140 LITTLE STREET BELLEVILLE, NJ 07109	MANSOL 13	
1BH23	ELECTRO-GLASS PRODUCTS P.O. BOX 157 MAMMOTH, PA 15664	EG2164	

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SOURCE CONTROL DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		INDIAN HEAD DIVISION NAVAL SURFACE WARFARE CENTER INDIAN HEAD, MD 20640-5035		DEPARTMENT OF THE NAVY NAVAL SEA SYSTEMS COMMAND WASHINGTON, D C 20362	
GENERAL TOLERANCES		ENGINEER		INSULATION, GLASS	
XX DECIMALS ±		ENGINEER		SIZE PAGE CODE DRAWING NUMBER	
XXX DECIMALS ±		CHECKED		D 53711 5184843	
ANGLES ±		DRAWN		SCALE: 1:1 WEIGHT: 333 LBS SHEET 1 OF 1	
MATERIAL		APPROVED FOR NAVSEA		DATE	
NEXT ASSY USED ON		AUTOMATICALLY GENERATED			
APPLICATION		DO NOT SCALE DRAWING			



8 7 6 5 4 3 2

CLASSIFICATION OF CHARACTERISTICS (DOD-STD-210)	
CRITICAL-	NONE
MAJOR-	NONE
MINOR-	ALL CHARACTERISTICS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
G	REPLACES REV F WITH CHANGE	17 JUN 96	RAY WALDEN
	SEE ECP 9552200061 AND 9552200007		
H	SEE ECP 01030-5130M	12/1/01	J. G. [Signature]

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100.
2. THIS RESIN SHALL BE A TWO PART SYSTEM, HAVING A MIXING RATIO BY WEIGHT OF ONE TO ONE AND A SPECIFIC GRAVITY OF 1.08.
3. THIS RESIN SHALL HAVE AN INITIAL VISCOSITY OF 7000 CPS AND A GEL TIME OF APPROXIMATELY 30 MINUTES AT 60°C (140°F).
4. CURING TIME WILL VARY FROM 24 TO 48 HOURS AT AMBIENT TEMPERATURES TO A MINIMUM OF 1 HOUR AT 95°C (203°F).
5. FOR EASE OF VERIFICATION OF COMPLETE SEALING, ADD 1 ± .5 PARTS COLOR CONCENTRATE BY WEIGHT TO 10 PARTS OF RESIN BY WEIGHT TO GIVE A VISIBLE RED COLOR TO THE RESIN BEFORE USE IN INTENDED APPLICATION. CONAP DS-1831A (RED), (CYTEC INDUSTRIES, INC., 1405 BUFFALO ST, OLEAN, NY, PHONE 716-372-9650) IS A SUITABLE PRODUCT.
6. ONLY ITEMS DESCRIBED ON THIS DRAWING ARE APPROVED FOR USE IN THE APPLICATIONS SPECIFIED HEREON. A SUBSTITUTE ITEM SHALL NOT BE USED WITHOUT PRIOR APPROVAL BY THE QUALIFYING ACTIVITY.
7. IDENTIFICATION OF THE APPROVED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM DESCRIBED ON THE DRAWING.

APPROVED SOURCE(S) OF SUPPLY			
CAGE CODE	VENDOR	VENDOR'S ITEM IDENT NO.	APPLICATION
75037	3M CO. ELECTRICAL PRODUCTS DIVISION OEM 3M AUSTIN CTR AUSTIN, TX 78769-2963 PHONE 800-676-8381	SCOTCHCAST BRAND ELECTRICAL RESIN NO. 8 (5236)	AIRCREW ESCAPE PROPULSION SYSTEMS CARTRIDGES AND CARTRIDGE ACTUATED DEVICES

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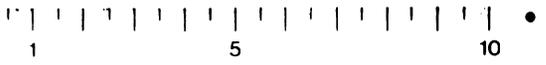
SOURCE CONTROL DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		INDIAN HEAD DIVISION NAVAL SURFACE WARFARE CENTER INDIAN HEAD, MD 20640-5035		DEPARTMENT OF THE NAVY NAVAL AIR SYSTEMS COMMAND WASHINGTON, D.C. 20361	
GENERAL TOLERANCES		ENGINEER		RESIN, EPOXY	
XX DECIMALS ±		ENGINEER		DRAWING NUMBER	
XXX DECIMALS ±		CHECKED		D 30003	
ANGLES ±		DRAWN		707AS114	
MATERIAL:		APPROVED FOR NAVAIR		SCALE: 1/1	
NEXT ASSY USED ON APPLICATION		DATE		WEIGHT: XXX LBS	
DO NOT SCALE DRAWING				SHEET 1 OF 1	

AUTHENTICATED
8/29/13

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PAST PERFORMANCE MATRIX

References	\$ Value of Contract	Work Description	Contract Completed on Time YES / NO	Contract Completed at Cost YES / NO (if no % of overrun)	Provide Explanation for NO answers

REFERENCES COLUMN SHOULD INCLUDE GOVERNMENT ACTIVITY/ COMPANY NAME, ADDRESS, POC AND TELEPHONE NUMBER.

PAST PERFORMANCE QUESTIONNAIRE COVERSHEET

FOR SOLICITATION NUMBER _____

Offeror's Name: _____

Name of agency/activity completing questionnaire: _____

Name and title of the person completing questionnaire: _____

Length of time your agency/activity has been involved with the offeror: _____

SUBMIT PAST PERFORMANCE QUESTIONNAIRE BY _____

TO:

NAVSEA Indian Head, Surface Warfare Center Division

101 Strauss Avenue, Bldg. 1558

Indian Head, MD 20640-5035

Attn: Samantha Gray, Contract Specialist, Code 1142I

e-mail address: gravsm@ih.navy.mil

Fax: 301-744-6547

RATING SCALE

Please use the following ratings to answer the questions.

EVALUATION CRITERIA

Excellent - The offeror's performance was consistently superior. The contractual performance was accomplished with minor problems, to which corrective action taken by the contractor was highly effective.

Good - The offeror's performance was better than average. The contractual performance was accomplished with some minor problems, to which corrective actions taken by the contractor were effective. They would be willing to do business with the offeror again.

Average- The offeror's performance was adequate. The contractual performance reflects a problem, to which the contractor has not yet identified corrective actions. Consideration would take part in awarding a contract to the offeror again.

Poor - The offeror's performance was entirely inadequate. The contractual performance of the element being assessed contains problems, to which the contractor's corrective actions appear to be or were ineffective. They would not do business with the offeror again under any circumstances.

N/A - The contractual performance of the element being assessed was never a requirement, never an issue, or there is no knowledge of the element in question.

Past Performance Questionnaire Interview Sheet

CUSTOMER SATISFACTION

The referenced contractor was responsive to the customer's needs.

The contractor's personnel were qualified to meet the requirements.

The contractor's ability to accurately estimate cost.

TIMELINESS

The contractor's ability to ensure, to the extent of its responsibility, that all tasks were completed within the requested time frame.

TECHNICAL SUCCESS

The contractor has a clear understanding of the tasks detailed in the SOW and/or delivery orders.

The contractor's ability to complete tasks correctly the first time.

The contractor's ability to resolve problems.

PROGRAM MANAGEMENT

Did the contractor successfully manage its subcontractors?

Was the contractor's management effective in controlling cost, schedule and performance requirements?

QUALITY

The contractor's quality and reliability of services delivered.

	EXCELLENT	GOOD	AVERAGE	POOR	N/A
<u>CUSTOMER SATISFACTION</u>					
The referenced contractor was responsive to the customer's needs.					
The contractor's personnel were qualified to meet the requirements.					
The contractor's ability to accurately estimate cost.					
<u>TIMELINESS</u>					
The contractor's ability to ensure, to the extent of its responsibility, that all tasks were completed within the requested time frame.					
<u>TECHNICAL SUCCESS</u>					
The contractor has a clear understanding of the tasks detailed in the SOW and/or delivery orders.					
The contractor's ability to complete tasks correctly the first time.					
The contractor's ability to resolve problems.					
<u>PROGRAM MANAGEMENT</u>					
Did the contractor successfully manage its subcontractors?					
Was the contractor's management effective in controlling cost, schedule and performance requirements?					
<u>QUALITY</u>					
The contractor's quality and reliability of services delivered.					

PLEASE PROVIDE SUBJECTIVE RESPONSES FOR THE FOLLOWING:

1. Would you recommend this contractor for similar Government contracts? Please explain:

2. Have you experienced special or unique problems with the referenced contractor that the Government should be aware of in making our decision?