

SECTION C:

TDPL: 442-023 DATED: 01 Jan 01 END ITEM: Chemical Agent Monitor
NSN: 6665-01-388-9712 PART: 442-023
NOMEN: Housing, Monitor, Chemical Agent PRON(s): C40AA04

The following engineering exceptions apply to this TDPL, and shall be incorporated into solicitations/contracts for the above listed PRON(s):

1. Unless otherwise specified, the issues of the specifications and standards which are DOD adopted shall be those listed in the issue of the DODISS which is dated (01 Jan 01) with no supplements. Unless otherwise specified, the issues of specifications and standards not listed in the DODISS shall be the issue of the non-government specifications and standards which is current on (01 Jan 01).

2. On the TDPL, make the following changes:

a. Delete the following drawings:

- 442-043
- 442-044
- 442-050
- 442-053
- 442-054
- 442-060
- 442-362
- 442-438
- 442-448
- 442-464
- 442-484
- 442-488
- 442-675
- 442-725
- 442-726
- QAP 442-726
- 5-15-17015
- 5-15-17021

b. Change title of specification ASTM D4080 to 'Standard Specification for Trichloroethylene, Technical and Vapor-Degreasing Grade'.

NAME (POC): Phillip Thompson OFFICE: AMSSB-RSO-MAD (RI)

PHONE: DSN 793-1933 MYLARS REQUIRED: N

DATE: 20 Mar 01

RESUBMITTAL: N RATIONALE:

AMC CODE: 1G

SECTION C:

TDPL: 442-023 DATED: 01 Jan 01 END ITEM: Chemical Agent Monitor

NSN: 6665-01-388-9712 PART: 442-023

NOMEN: Housing, Monitor, Chemical Agent PRON(s): C40AA004

The following engineering exceptions apply to this TDPL, and shall be incorporated into solicitations/contracts for the above listed PRON(s) (cont.):

c. Remove the following specifications/standards:

PPP-C-1752
MIL-P-116

d. Add the following specifications/standards:

A-A-59136
MIL-A-21180
A-A-56032
ASTM 6193
SAE-AMS-R-6855
ASTM D 4919
SD-14

e. Add the following NORs:

442-729	Z16-1517-007
EA-PRF-1577	Z16-1516-001
QAP442-023	Z16-1517-001
QAP442-419	Z16-1517-003
QAP442-519	Z16-1517-005

3. Change on drawing 442-024 the suggested source address in note 7 to:

PERMABOND INTERNATIONAL
DIV. OF NATIONAL STARCH & CHEMICAL CORP
BRIDGEWATER, N.J. 08807

4. Change on drawing 442-729 the suggested source address in note 6 to:

W.R. GRACE AND CO.
DAVISON CHEMICAL DIV
7500 GRACE DRIVE
COLUMBIA, MD 21044

NAME (POC): Phillip Thompson OFFICE: AMSSB-RSO-MAD (RI)

PHONE: DSN 793-1933 MYLARS REQUIRED: N

DATE: 20 Mar 01

RESUBMITTAL: N RATIONALE:

AMC CODE: 1G

SECTION C:

TDPL: 442-023 DATED: 01 Jan 01 END ITEM: Chemical Agent Monitor

NSN: 6665-01-388-9712 PART: 442-023

NOMEN: Housing, Monitor, Chemical Agent PRON(s): C40AA004

The following engineering exceptions apply to this TDPL, and shall be incorporated into solicitations/contracts for the above listed PRON(s) (cont.):

5. Change on drawing 442-063 the suggested source address in item 4 of the parts list to:

ENTHONE POLYCLAD
144 HARVEY RD.
LONDONDERRY, N.H. 03053

6. Change on drawing 442-063 change data for item 5 of the parts list as follows:

- (1) Part number = AA56032-IBLK
- (2) Specification = A-A-56032

7. Change from 'MIL-R-6855' to 'SAE-AMS-R-6855' in note 4 of drawing 442-388.

8. On drawing 442-023, Item 2:

The contractor shall use the attached statement of work (SOW) in accordance with EA-PRF-2170. For a copy of the reference TDP, the contractor shall request a copy from the PCO.

9. On drawing 442-023, Item 3:

The contractor shall use the attached statement of work (SOW) in accordance with EA-PRF-1577. For a copy of the reference TDP, the contractor shall request a copy from the PCO.

10. OZONE DEPLETING CHEMICALS: see Statement of Work - Ozone Depleting Chemicals (attached)

11. Mylars will not be furnished.

NAME (POC): Phillip Thompson OFFICE: AMSSB-RSO-MAD (RI)

PHONE: DSN 793-1933 MYLARS REQUIRED: N

DATE: 20 Mar 01

RESUBMITTAL: N RATIONALE:

SECTION C:

TDPL: 442-023 DATED: 01 Jan 01 END ITEM: Chemical Agent MonitorNSN: 6665-01-388-9712 PART: 442-023NOMEN: Housing, Monitor, Chemical Agent PRON(s): C40AA004

The following engineering exceptions apply to this TDPL, and shall be incorporated into solicitations/contracts for the above listed PRON(s) (cont.):

12. Government Furnished Equipment for testing purposes:

Chemical Agent Monitor (6665-01-199-4153) and associated TM.

13. Items are to be serialized. The range of serial numbers will be given after each contract award.

14. The following warning statement applies to all drawings, parts lists listed on TDPL 442-023:

Warning - This TDP contains technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C. sec 2751, et seq.) or the Export Administration Act of 1979, as amended, Title 50, U.S.C., App 2401 et seq. Violation of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DOD Directive 5230.25.

NOTICE TO ACCOMPANY THE DISSEMINATION OF EXPORT-CONTROLLED TECHNICAL DATA

1. Export of information contained herein, which includes, in some circumstances, release to foreign nationals within the United States, without first obtaining approval or license from the Department of State for items controlled by the International Traffic in Arms Regulation (ITAR), or the Department of Commerce for items controlled by the Export Administration Regulations (EAR), may constitute a violation of law.

2. Under 22 U.S.C. 2778 the penalty for unlawful export of items or information controlled under the ITAR is up to 2 years imprisonment, or a fine of \$100,000, or both. Under 50 U.S.C., Appendix 2401, the penalty for unlawful export of items or information controlled under the EAR is a fine of up to \$1,000,000, or five times the value of the exports, whichever is greater; or for an individual, imprisonment of up to 10 years, or a fine of up to \$250,000, or both.

3. In accordance with your certification that establishes you as a "certified US contractor, unauthorized dissemination of this information is prohibited and may result in disqualification as a certified US contractor, and may be considered in determining your eligibility for future contracts with the Department of Defense.

4. The US Government assumes no liability for direct patent infringement, or contributory patent infringement or misuse of technical data.

5. The US Government does not warrant the adequacy, accuracy, currency, or completeness of the technical data.

NAME (POC): Phillip Thompson OFFICE: AMSSB-RSO-MAD (RI)

PHONE: DSN 793-1933 MYLARS REQUIRED: N

DATE: 20 Mar 01

RESUBMITTAL: N RATIONALE:

AMC CODE: 1G

SECTION C:

TDPL: 442-023 DATED: 01 Jan 01 END ITEM: Chemical Agent Monitor

NSN: 6665-01-388-9712 PART: 442-023

NOMEN: Housing, Monitor, Chemical Agent PRON(s): C40AA004

The following engineering exceptions apply to this TDPL, and shall be incorporated into solicitations/contracts for the above listed PRON(s) (cont.):

6. The US Government assumes no liability for loss, damage, or injury resulting from manufacture or use for any purpose of any product, article, system, or material involving reliance upon any or all technical data furnished in response to the request for technical data.
 7. If the technical data furnished by the Government will be used for commercial manufacturing or other profit potential, a license for such use may be necessary. Any payments made in support of the request for data do not include or involve any license rights.
 8. A copy of this notice shall be provided with any partial or complete reproduction of these data that are provided to qualified US contractors.
-

NAME (POC): Phillip Thompson OFFICE: AMSSB-RSO-MAD (RI)

PHONE: DSN 793-1933 MYLARS REQUIRED: N

DATE: 20 Mar 01

RESUBMITTAL: N RATIONALE:

Statement of Work

Optoelectronic Display f/ Chemical Agent Monitor (CAM)

C.1.0 Scope

The contractor shall manufacture the Optoelectronic Display in strict compliance with Performance Purchase Description EA-PRF-1577.

C.2.0 Applicable Documents

EA-PRF-1577
TDP 442-043 (reference only)
442-1033
5-15-19255
MIL-STD-461
MIL-STD-462
MIL-STD-810E
MIL-STD-2073-1
ANSI/ASQC Q90 (ISO 9000)
ANSI/ASQC Q91 (ISO 9001)
ANSI/ASQC Q94 (ISO 9004)
ASTM D 4919
SD-14

C.3.0 Requirements

The contractor, as an independent contractor and not as an agent of the Government, shall provide the necessary services, personnel, labor, facilities, materials, supplies, and equipment (except those specifically designated as Government furnished equipment/material) to perform the following:

C.3.1 Manufacturing

C.3.1.1 Optoelectronic Display. The contractor shall manufacture optoelectronic displays (including First Article) in strict compliance with Performance Specification EA-PRF-1577, 5-15-19255, 442-1033, and all of the documents cited therein, respectively. The contractor shall manufacture all items using the same manufacturing methods, materials, tooling, test equipment, test procedures and facilities planned for use in production.

C.3.1.2 Government Furnished Equipment. The Government shall furnish one (1) Chemical Agent Monitor and its associated technical manuals as required by EA-PRF-1577.

C.3.2 Engineering Management

C.3.2.1 Engineering Data and Specifications. The contractor shall establish, maintain, and make available for Government review at the contractor's facility all engineering drawings, parts lists, product specifications, manufacturing process procedures, unique quality control procedures, packaging instructions, and lists of suppliers and manufacturers used by the contractor to manufacture the optoelectronic display.

C.3.2.2 Final TDP Delivery. The contractor shall copy and submit all engineering drawings, parts lists, product specifications, manufacturing process procedures, unique quality control procedures, packaging instructions, and lists of suppliers and manufacturers used by the contractor to manufacture the optoelectronic display.

C.3.2.3 Configuration Management.

C.3.2.3.1 Configuration Management Plan (CMP). The contractor shall implement and maintain a configuration management plan throughout the life of the contract. MIL-STD-973 contains relevant configuration management information that may be useful to the contractor. The contractor shall obtain the written approval of the PCO prior to the implementation of the CMP and any subsequent changes.

C.3.2.3.2 Requests for Deviation, Requests for Waiver, Engineering Change Proposal and Notice of Revision.

C.3.2.3.2.1 The contractor shall prepare and submit Requests for Deviation and Requests for Waiver for any performance requirements.

C.3.2.3.2.2 The Government will maintain formal configuration control of all performance specifications, special packaging instructions (SPI) and configuration drawings referenced in Section C.3.1.

C.3.2.3.2.3 All engineering changes against items under Government Configuration Control shall be documented on an engineering change proposal and notice of revision, in Government or contractor format, and submitted to the Government for approval in accordance with the approved CMP.

C.3.2.3.3 Configuration Control Board (CCB).

C.3.2.3.3.1 The contractor shall establish and implement the use of a CCB to review engineering changes and recommend appropriate action prior to implementation.

C.3.2.3.3.2 The contractor shall provide the Government at least ten (10) days notice prior to convening the CCB so that if the Government chooses, a representative may participate. The contractor shall provide the Government with the engineering change proposal and a notice of revision at least ten (10) days prior to convening the CCB.

C.3.2.3.3.3 If the contractor generates a change against an item that is under Government Configuration Control, the contractor shall provide an engineering change proposal and notice of revision, in Government or contractor format, at least ten (10) days prior to the Government convening the CCB. No engineering changes shall be implemented without Government approval.

C.3.2.3.4 Material Review Board (MRB).

C.3.2.3.4.1 The contractor shall establish and implement the use of a MRB to determine the acceptance status of nonconforming parts and material used in fabrication of the optoelectronic displays throughout the life of the contract.

C.3.2.3.4.2 The contractor shall provide the Government at least ten (10) days notice prior to convening the MRBs so if the Government chooses, a representative may participate.

C.3.2.3.4.3 If as a result of the MRB a change is generated against an item that is under Government Configuration Control, the contractor shall provide an engineering change proposal and notice of revision, in Government or contractor format, at least ten (10) days prior to the Government convening the CCB. The contractor shall participate on the Government CCB. No engineering changes shall be implemented without Government approval.

C.3.3 Serialization and Markings.

C.3.3.1 Serial Numbers. The contractor shall mark the optoelectronic displays with a sequential serial number. Serial numbers will be provided by the Government upon contractor award.

C.3.3.2 Markings, Tags and Identification Plates.

C.3.3.2.1 The contractor shall insure that markings, tags or identification plates on the systems are consistently located on the exterior of the systems, securely attached or marked, uniform in shape and size, legible, and visible to the naked eye.

C.3.3.2.2. The contractor shall ensure that the information placed on the systems does not degrade systems performance.

C.3.4 Packaging

C.3.4.1 Special Packaging Instructions (SPIs).

C.3.4.1.1. The contractor shall package all parts entering the military distribution system in accordance with SPIs.

C.3.4.1.1.1 The contractor may utilize the Government SPIs provided for information purposes, modify the Government SPIs, or develop and use contractor SPIs for military packaging.

C.3.4.1.1.1.1 If the contractor elects to use the Government furnished SPIs, packaging validation testing is not required.

C.3.4.1.1.1.2 If the contractor elects to develop and use contractor SPIs, or if the Government furnished SPIs are modified, the contractor shall perform packaging validation testing to ensure that the packaging meets or exceeds the requirements cited on the Government furnished SPIs.

C.3.4.1.1.1.3 All changes shall be documented on an Engineering Change Proposal (ECP) and Notice of Revision (NOR) in contractor's format, and submitted to the Government for approval in accordance with C.3.3 Configuration Management.

C.3.4.1.1.1.3.1 If packaging validation testing is required, the contractor shall prepare and submit a Packaging Test Plan. The contractor shall conduct packaging testing in accordance with this contract.

C.3.4.1.1.1.3.2 The contractor shall submit copies of the modified Government SPIs or contractor developed SPIs to the Government within 30 days of the completion of the packaging testing.

C.3.4.2 Preservation, Unit Packing, Packing, Unitization and Marking.

C.3.4.2.1 The generic term packaging, shall include preservation, unit packing, packing, unitization, and marking. All items going into the military distribution system (as set forth in Section F, Deliveries) require military packaging, as defined in MIL-STD-2073-1. Items not going into military stock shall be packaged in accordance with standard commercial practices and shall be received at the final destination undamaged and in useable condition.

C.3.4.2.2 The packaging for the optoelectronic display shall be military packaging, in accordance with the detailed requirements of MIL-STD-2073-1.

C.3.4.2.3 The contractor shall use, where practicable, advanced technology or innovative methods and materials for shipment and storage, for the purpose of effecting packaging economies. As a reference, the contractor may use MIL-STD-2073-1 – Standard Practice for Military Packaging; MIL-STD-129-Standard Practice, Marking for Shipment and Storage; and MIL-HDBK-304 – Packaging Cushioning Design, in the development of acceptable materials, containers, and processes for packaging. These documents may also be used for determining methods for preservation, unit packing, packing, unitization, and marking; procedures required to select packaging materials for packaging designs; and guidance in the preparation of packaging requirements expressed in the SPIs, and packaging drawings.

C.3.4.2.4 Protection. The contractor shall design all military packaging to provide unit protection in the Level A shipping configuration during shipment, handling and storage in accordance with the above work definition and MIL-STD-2073-1. The following storage and packaging rough handling conditions shall be met:

C.3.4.2.4.1 Storage. The contractor shall provide packaging capable of providing environmental protection to its contents for a period of 9 weeks under the following conditions:

Condition	Parameters
Desert	+160°F ± 2°F
Tropic	+113°F + 2°F 85 + 5% RH
Arctic	-50°F + 2°F
Cyclic	Three cycles, each cycle consisting of 1 week under each of the preceding conditions in sequence

C.3.4.2.4.2 Rough Handling. The contractor shall provide packaging capable of providing protection to its contents under the following rough handling conditions as specified in MIL-STD-810E, conducted sequentially:

Condition	Purpose
Secured Cargo Vibration	Test to simulate transport by truck, rail, aircraft, and ocean
Loose Cargo Vibration	Test to simulate field (off road) transports
Shock (drop)	Test to simulate packaging rough handling

C.3.4.3 Fabrication. The contractor shall fabricate prototypes of the packaging designs and conduct (1) packaging validation testing if required; and (2) packaging first article testing in accordance with the first article packaging inspection requirements as found in Section E of the contract (FAR Clause 52.209-3 Alt. I).

C.3.4.4 Hazardous Material Identification.

C.3.4.4.1 The contractor shall assure that the shipping configuration or container, as applicable, complies with Performance Oriented Packaging (POP), in accordance with Annex 1 Part 7 of the International Maritime Organization – International Maritime Dangerous Goods Code (IMO – IMDGC); Chapter 7 of the International Civil Aviation Organization – Technical Instructions for Safe Transportation of Dangerous Goods by Air (ICAO-TDGA); and 49 Code of Federal Regulation (CFR) Transportation, Parts 107-178 if the end item is or contains a regulated hazardous material.

C.3.4.4.2 The contractor shall design, mark, and certify the packaging in accordance with these documents. The contractor shall conduct all testing in accordance with ASTM D 4919 Testing of Hazardous Materials Packaging.

C.3.5 QUALITY ASSURANCE SYSTEM

C.3.5.1 Quality System.

C.3.5.1.1 The contractor shall implement, execute, and maintain a Quality System in accordance with International Standard Operation 9002 (ISO 9002) for the life of this contract.

C.3.5.1.2 The contractor may use an existing Quality System provided it meets acquisition needs and is acceptable to the Government. Registrars Accreditation Board (RAB) certification is not required for the performance of this contract.

C.3.5.2 Quality System Plan (QSP). The contractor shall utilize the QSP submitted in response to this solicitation and approved by the Government at contract award as the baseline for all quality program activities. The contractor shall update the QSP with all comments identified by the Government. The contractor shall make the approved plan available to the Government 30 days after contract award. The contractor shall obtain the written approval of the PCO prior to the implementation of the QSP and any subsequent changes. The contractor shall implement and maintain the QSP throughout the life of this contract.

C.3.5.3 Reduction of Latent or Incipient Defects. The contractor shall implement a process for the reduction of latent or incipient defects in the optoelectronic display and its components.

C.3.5.4 First Article Testing (FAT). The contractor shall conduct FAT of the optoelectronic display, and applicable military packaging, as defined in Section E of this contract.

C.3.5.4.1 FAT Test Plan. The contractor shall prepare and submit a detailed FAT test plan.

C.3.5.4.2 The contractor shall conduct FAT on twenty one (21) optoelectronic displays. The contractor shall perform FAT in accordance with EA-PRF-1577.

C.3.5.4.3 The contractor shall ensure that all test personnel including subcontractors are knowledgeable on the operation of the CAM and be capable of properly performing the necessary operational checks as required during the conduct of the test.

C.3.5.4.4 The contractor shall package and transport all test hardware to and from all test sites.

C.3.5.4.5 FAT Test Report

C.3.5.4.1 The contractor shall prepare and submit a FAT Test Report.

C.3.5.4.2 The contractor shall include all test data to include but not limited to actual dimensional, physical, and electrical test results.

C.3.5.4.3 The contractor shall provide certification of materials and components as an appendix to the FAT Test Report.

C.3.5.5 Production of Optoelectronic Display. The contractor shall not initiate production or fabrication of hardware until all FAT test results have been approved by the Government.

Packaging Requirements Sheet
(Special Packaging Instructions) DS6411

PRON: C40AAPXX DATE: 28 MAR 2001

NSN: 6665-01-388-9712

MILSTRIP: SUE LERCH/28202

- A. Military preservation, packing, and marking for the item identified above shall be accomplished in accordance with the specific requirements identified below, all the applicable requirements of MIL-STD-2073-1, Revision D, Date 15 DEC 99, and the Special Packaging Instruction contained in the TDP.

PRESERVATION: MILITARY

LEVEL OF PACKING: B

QUANTITY PER UNIT PACKAGE: 001

SPI NUMBER P442-023, REV. D, DATED 29 JAN 01

- B. Unitization: Shipments of identical items going to the same destination shall be palletized if they have a total cubic displacement of 50 cubic feet or more unless skids or other forklift handling features are included on the containers. Pallet loads must be stable, and to the greatest extent possible, provide a level top for ease of stacking. A palletized load shall not exceed 4,000 pounds and should not exceed 52 inches in length or width, or 54 inches in height. The load shall be contained in a manner that will permit safe handling during shipment and storage.
- C. Marking: In addition to any special markings called out on the SPI, all unit packages, intermediate packs, exterior shipping containers, and, as applicable, unitized loads shall be marked in accordance with MIL-STD-129 Revision N, Date 15 May 97, including bar coding iaw ANSI/AIM-BC1, Uniform Symbology Specification Code 39.
- D. This SPI has been validated and the method of preservation/packing has proven successful in meeting the needs of the military distribution system, including indeterminate storage and shipment throughout the world. Special instructions and/or tailoring of the SPI is detailed in the Supplemental Instructions in Paragraph E below. A prototype package is required to validate the sizes and fit requirements of the SPI. Minor dimensional and size changes are acceptable provided contractor provides the PCO and ACO with notification 60 days prior to delivery. Any design changes or changes in the method of preservation that provide a cost savings without degrading the method of preservation or packing or affecting the serviceability of the item will be considered and responded to within 10 days of submission to PCO and ACO. Government reserves the right to require testing to validate alternate industrial preservation methods, materials, alternate blocking, bracing, cushioning, and packing.
- E. SUPPLEMENTAL INSTRUCTIONS: THE GROSS WEIGHT AND TOTAL QUANTITY PER PALLET SHALL BE PLACED ON A MARKING BOARD/PANEL AND SECURELY ATTACHED ON TWO ADJACENT SIDES.

F. ECP Z16-1517-0002 APPLIES.