

NSN: 5180-01-502-9504
PN: DFP-TRI001 CAGE: 19207
DESCRIPTION FOR PURCHASE (DFP)
NO. TRI001, 21 FEBRUARY 2003
FOR
KIT, BATTLE DAMAGE ASSESSMENT & REPAIR (BDAR),
CREW

1. SCOPE

1.1. Scope: This Description For Purchase (DFP) describes a BDAR Crew Kit.

2. APPLICABLE DOCUMENTS

2.1. Government Documents:

BDAR COMPONENTS LIST, CREW (TRI001CL)

(This document is enclosed at the end of this DFP)

2.2. Non-Government Documents

AMERICAN SOCIETY FOR TESTING AND MATERIALS

ASTM-D-3951 – PACKAGING, COMMERCIAL

ASTM A580 – STEEL

(Copies of these documents may be purchased from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshocken, PA 19428-2959)

SOCIETY OF AUTOMOTIVE ENGINEERS

SAE A57928/5 – TERMINAL ENDS AND SPLICES

(Copies of this document may be purchased from the Society of Automotive Engineers, SAE World Headquarters, 400 Commonwealth Drive, Warrendale, PA 15096-0001)

2.3. Order of precedence: In the event of a conflict between the text of this document and the reference cited herein (except for associated detail specifications, specification sheets, or MS standards), the text of this specification shall take precedence. Nothing in this document, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

Attachment 002

3. KIT REQUIREMENTS.

3.1. General Description. The BDAR Crew Kit is an assemblage of commercially available items within a storage bag/container designed to prevent damage of the components during transport via hand-carry, ground vehicle, and aircraft.

3.2. Construction: The BDAR Crew Kit bag/container and components shall be new and without defects. The bag shall be made as specified in the components list drawing TRI0001CL (ref 2.1.). Each BDAR Kit shall be delivered assembled so that it can be immediately used for its intended purpose. The bag/container shall be constructed so as to protect internal components from internal (product in kit causing damage to other kit product) and external damage. **If foam damage is used, then must ensure not damaged due to spillage where it loses its functional use.**

3.3. Components:

3.3.1. Components of the BDAR Crew Kit shall consist of its carrying bag/container and components as listed in the BDAR Components List, (ref 2.1). **Belzona products will have MSDS requirement sheets in a ziplock bag.** The contractor may package small component parts in individual containers/bags as deemed necessary and to ease inventory. **The box/container shall be constructed of material which will not render the box/container unserviceable due to the products and components within it.**

3.3.2. Reference BDAR Crew Kit Components List, (ref 2.1). Several items within the components list state mandatory sources. The contractor shall provide those components with mandatory sources from those mandatory sources and part numbers provided. Several items within the components list show known sources. These are for informational purposes only and are not mandatory sources. The contractor reserves the right to utilize that known source or any other they deem appropriate to fulfill the requirements of this DFP.

3.3.3. COTS Literature. Some components of the BDAR Crew Kit may have supplemental Commercial Off The Shelf (COTS) literature. The contractor shall insert COTS literature that comes with any component commercially into the BDAR Crew Kit Bag/container. COTS literature includes but is not limited to manuals, instruction sheets, and parts list. All COTS literature shall be packaged together and in a fashion to prevent damage from moisture.

3.4. Components List **Sheets**: The components list(s) **sheet** as called out in the BDAR Crew Kit Components List (ref 2.1) shall be of the contractor's own design. It shall be laminated to be weather resistant. It **should be included or**

packaged with COTS literature. It shall contain the following information: **either Brand Name, Vendor or Source, or Manufacturer and related common part number, item name or nomenclature, unit of issue and quantity in kit. Include the referenced source's CAGE code if applicable.** The top of the components list label shall contain this kits item name (Kit, BDAR, Crew), the Kits NSN (provided by the government), the contract number, and the contractor's name, address, phone number, **maximum weight of entire kit, maximum cube of entire kit, and part number.** If more than one sheet is utilized, they shall be numbered accordingly. The label will **annotate or** indicate by an asterisk **Belzona** components that must meet a MSDS requirement. **Waive acceptance of components list labels on prototypes.**

3.5. Dimensions

3.5.1. Component Dimensions: Component Dimensions shall be in accordance with the BDAR Components List (Ref 2.1). In the event, there is no dimension listed for an individual component, the contractor shall insure that the component that is provided shall fit within the BDAR Crew Kit Bag/container without difficulty.

3.5.2. Loaded Bag Dimensions: Although the Dimensions of the Bag/container are listed in the BDAR Crew Kit Components List (Ref 2.1), it is understood that once a bag is loaded with all of its components, those dimensions may be exceeded. As a result, a fully loaded BDAR Crew Kit bag shall not exceed 15 inches in width.

3.6. Inventorying. Utilizing the Components List Sheet(s) as dictated in 3.3, the entire BDAR Crew Kit shall be capable of being fully inventoried within 10 minutes.

3.7. Drop. A BDAR Crew Kit, at temperatures from -20 degrees F to +120 degrees F, shall withstand being dropped from a height of 36 inches onto a hard floor surface. The BDAR Crew Kit bag/container and components shall not sustain any damage, other than minor denting or scratching that will not affect the performance of any component. The drop shall not cause the bag/container to open.

3.8. Color. The BDAR Crew Kit bag/container shall be Olive Drab Green, Gray, or Black.

3.9. Label. The BDAR Crew Kit shall be labeled on it's exterior with the following information: Kit name (KIT, BDAR, CREW), **and** NSN (provided by the government). The contractor shall label the BDAR Crew kit bag/container directly with 1 – 1 ½ inch stenciled letters using solvent resistant, contrasting **color (paint or dye) on the top flap** of the **bag**. The **waterproof** information must be capable of withstanding the effects of outside environmental conditions

such as moisture, sand, and wind as well as the kits products. Solvent as mentioned in this requirement is defined as engine motor oil, transmission fluid, hydraulic fluid, diesel fuel, antifreeze, and bearing grease.

3.10. Weight. Fully loaded, the BDAR Crew Kit shall not exceed 25 lbs.

4. VERIFICATIONS

4.1. General: Product verification shall be performed in accordance with the following requirements.

4.1.1. Responsibility for verification: Unless otherwise specified in the contract, the contractor is responsible for the performance of all verifications requirements as specified herein. Except as otherwise specified in the contract, the contractor may use his own or any other facilities suitable for the performance of the verifications requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the verifications set forth in the specifications where such verifications set forth in the specification where such verifications are deemed necessary to assure supplies and services conform to prescribed requirements.

4.1.2. Responsibility for compliance: All delivered BDAR Crew Kits shall meet all requirements herein.

4.1.3. Product Examination: Visually, dimensionally, and manually examine each kit to determine conformance with the requirements herein. Visual examination shall include verification of completeness of manufacturing and assembly, proper cleaning, and that all components are free of defects. Failure of any kit to pass any examination shall result in the rejection of the kit.

4.2. Construction Examination: Visually inspect the BDAR Crew Kit Bag/container and components to insure the bag and components are new and without defects (see 3.2). Visually inspect the BDAR Crew kit to insure it is fully assembled and ready for immediate use (see 3.2). Any BDAR Crew kit found to have used or defective components shall result in the rejection of the kit. Any BDAR Crew kit found not ready for immediate use shall result in the rejection of the kit.

4.3. Component Verification:

4.3.1. Visually inspect the BDAR Crew Kit and insure it has all components as required in 3.3.1. Verify that all components fit within the bag/container and that the container can be completely closed once all components are placed inside. Visually inspect the BDAR kit and insure it contains MSDS as required in 3.3. Any BDAR Crew kit found to have missing components or without the required MSDS shall result in the rejection of the kit.

4.3.2. Visually inspect the BDAR Crew Kit and insure that components that have mandatory sources listed the components list are in fact those components from that mandatory source and with that part number (ref 3.3.2.). Any BDAR Crew kit found to have a component with a stated mandatory source that is not in fact from that mandatory source shall result in rejection of the kit.

4.3.3. COTS Verification. (Only required for prototype). The contractor shall submit a written Certificate of Conformance stating that any and all COTS literature is provided for components within the BDAR Crew Kit. The government reserves the right to perform a visual inspection to check for COTS literature. Failure of a contractor to submit the Certificate of Conformance as stated above shall result in the rejection of the kit.

4.4. Components List **Label** Verification: Visually inspect the BDAR Crew Kit and insure it has a Components List **Label** as required in 3.4. Verify that the **label(s)** contain all required information as stated in 3.4. Verify that the **label** is laminated. Verify that if more than one **label** is used, it is numbered accordingly. Verify that the components list **label** contains all the required components as dictated in 3.3.1. Any BDAR Crew kit found to have a missing, incorrect, deficient, or unlaminated Components List **Label(s)** shall result in the rejection of the kit.

4.5. Dimension Verifications:

4.5.1. Component Dimension Verifications: Visually examine and measure the BDAR Crew kit components to insure they conform to the requirements stated in 3.5.1. Visually examine and insure that all components fit easily within the BDAR kit bag/container. Any BDAR kit components found to exceed the prescribed dimensions or that do not fit within the BDAR Crew kit bag shall result in the rejection of the kit.

4.5.2. Loaded Bag Dimension Verification: Visually examine and measure the BDAR Crew kit as a whole. Verify that the dimensions are within the limits as set forth in 3.5.2. Any BDAR Crew kit found to exceed the prescribed dimensions shall result in the rejection of the kit.

4.6. Inventory Verification: Visually inventory the entire BDAR Crew Kit while under a time watch. Verify that every component can be physically removed from the kit one at a time. Verify within a 10-minute timeframe that each component on the components list is present in the kit. Any BDAR Crew kit that cannot be inventoried within the allotted 10-minute timeframe by trained personnel (military users) shall result in the rejection of the kit.

4.7. Drop Verification: (Only required for the prototype). Under current weather condition at the time of the test, drop a fully assembled and closed BDAR Crew kit from a distance of 36 inches onto a hard surface. The drop shall not cause the

Bag/Container to open. Visually inspect each component and verify that none have sustained damage that shall effects the performance of the component. Minor denting or scratching of components shall be considered acceptable provided that component can still be utilized for its intended purpose. Any BDAR Crew kit that opens due to the drop test, damage to any component which exceeds minor denting or scratching, or any component found to be damaged to the point it cannot be used shall result in the rejection of the kit. The government reserves the right to request additional testing at the temperature extremes of -20 to +120 deg F.

4.8. Color Verification: Visually inspect the BDAR Crew kit bag/container and insure it is Olive Drab Green.

4.9. Label Verification: Visually inspect the BDAR Crew kit bag/container and locate the label. Insure it is in the correct location as specified in 3.9. Insure the label is waterproof. Insure the label contains all the necessary information required in 3.9. Any labeling that does not meet the requirements as specified in 3.9. shall result in the rejection of the kit.

4.10. Weight: Physically weigh a complete BDAR Crew Kit and verify that it does not exceed 25 lbs. Any BDAR Crew Kit that exceeds the 25 lb requirement shall result in rejection of the kit.

4.11. Packaging. Verify that preservation, packing, and packaging are in accordance with the contractor's best commercial practice per ASTM-D-3951 and the requirements herein. Failure to meet the requirements of ASTM-D-3951 and the requirements herein shall be cause for rejection (see paragraph 5).

5. PRESERVATION, PACKING, AND PACKAGING

5.1. Preservation, Packing and Packaging. Preservation, Packing and Packaging shall be in accordance with ASTM-D-3951 plus the following additional requirements:

- a. If oak or chestnut wood products are used in the performance of this contract, these wood or wood products must be free of all bark.
- b. All non-manufactured wood used in packaging shall be heat-treated to a core temperature of 56 degrees Celsius for a minimum of 30 minutes. The box/pallet manufacturer and the manufacturer of wood used as inner packaging shall be affiliated with an inspection agency accredited by the Board of Review of the American Lumber Standard Committee. Each box/pallet shall be marked to show the conformance to the International Plant Protection Convention Standard. Boxes/pallets and any wood used as inner packaging made of non-manufactured wood shall be heat-treated. The quality mark shall be placed on both ends of the outer packaging, between the end cleats or end battens; on two sides of the pallet. **This is not applicable for this contract.**

c. Unless otherwise specified herein, shipments to the same destination of identical items having a total packaged displacement exceeding 50 cubic feet shall be palletized unless forklift - handling features such as skids are included on containers.

d. Workmanship shall be such that when proper procedure is followed, materials and equipment being processed will be provided the maximum protection against corrosion, deterioration, and be suitable for storage to the level of packaging specified.

e. If the items are packaged in more than one box the boxes shall be marked ie., 1 of 3, 2 of 3, 3 of 3 etc.

5.2. Marking: Container markings shall be in capital letters of equal height, shall be proportionate to the available marking space and shall contain the following information (if applicable) in the order listed. **This is not applicable for this contract.**

- a. NSN/NATO stock number. (if applicable)
- b. CAGE code of the company awarded the contract, and part number of the item as specified in the contract.
- c. Quantity and unit of issue.
- d. Level of protection and date packed.
- e. Contract or purchase order number.

5.3. Marking on the shipping container. Markings on the shipping container shall be grouped into three distinct categories, identification markings, contract data markings and address markings.

5.3.1. Identification Markings: (as applicable)

- a. NSN/NATO stock number. (if applicable)
- b. CAGE code of the company awarded the contract, and part number of the item as specified in the contract.
- c. Quantity and unit of issue
- d. Level of protection and date packed.
- f. Gross weight and cube.
- g. Item description or nomenclature.

5.3.2. Contract Data Marking: (as applicable) The contract data marking placed under the identification markings, shall consist of the contract or purchase order number.

5.3.3. Address Markings: The address markings placed to the right of the identification and contract data markings (if space is available) shall consist of the following information in the order shown.

- a. Control number or reference number (as a minimum, the Transportation Control Number (TCN) shall be provided as the single standard shipment identification number)
- b. FROM MILITARY: Name and address of consignor (DOD Activity Address Code) and in the clear address if applicable
- c. FROM CONTRACTOR: Name and address of the contractor (including nine-digit zip code). When supplies are shipped from a subcontractor, only the name and address of the company awarded the contract shall be used.
- d. TO: Name and address of consignee (DOD Activity Address Code (DODAAC) and in the clear Address if applicable
- e. Piece number and total pieces (if more than one shipping container is used for the order).

6. NOTES. The following information is general in nature and is not mandatory in this DFP but only to provide additional information.

6.1. Intended Use. The intended use of this DFP is to obtain a BDAR Crew Kit for field use. This Kit shall be utilized by Crew personnel to perform emergency repair of systems to allow the system to continue on with the mission or to allow it to retreat back for more complete repair.

6.2. DFP Basis. This DFP was written to fulfill Combat Developer requirements for a BDAR Crew Kit.

6.3. Definitions:

A.K.A. Also Known As – Used to provide a common commercial name for components listed in the DFP and DFP Components List.

BDAR Battle Damage Assessment & Repair

CAGE Commercial And Government Entity – A code assigned to a contractor or government activity/command consisting of 5 alpha or numeric characters.

OEM Original Equipment Manufacturer

NSN National Stock Number

PN Part Number

6.4. This DFP TRI001 was prepared by CAGE 19207. Address is:

U.S. TANK-AUTOMOTIVE AND ARMAMENTS COMMAND
ROCK ISLAND ARSENAL SITE

ATTN: AMSTA-LC-CTT
ROCK ISLAND, IL 61299-7630
(309) 782-2759
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NSN: 5180-01-502-9507
PN: DFP-TRI002 CAGE: 19207
DESCRIPTION FOR PURCHASE (DFP)
NO. TRI002, 21 FEBRUARY 2003
FOR
KIT, BATTLE DAMAGE ASSESSMENT & REPAIR (BDAR),
MAINTAINER

1. SCOPE

1.1. Scope: This Description For Purchase (DFP) describes a BDAR Maintainer Kit.

2. APPLICABLE DOCUMENTS

2.1. Government Documents:

BDAR COMPONENTS LIST, MAINTAINER (TRI002CL)

(This document is enclosed at the end of this DFP)

2.2. Non-Government Documents

AMERICAN SOCIETY FOR TESTING AND MATERIALS

ASTM-D-3951 – PACKAGING, COMMERCIAL

ASTM A580 – STEEL

(Copies of these documents may be purchased from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshocken, PA 19428-2959)

SOCIETY OF AUTOMOTIVE ENGINEERS

SAE A57928/5 – TERMINAL ENDS AND SPLICES

(Copies of this document may be purchased from the Society of Automotive Engineers, SAE World Headquarters, 400 Commonwealth Drive, Warrendale, PA 15096-0001)

2.3. Order of precedence: In the event of a conflict between the text of this document and the reference cited herein (except for associated detail specifications, specification sheets, or MS standards), the text of this specification shall take precedence. Nothing in this document, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

A. Johnson 003

3. KIT REQUIREMENTS.

3.1. General Description. The BDAR Maintainer Kit is an assemblage of commercially available items within a storage box designed to prevent damage of the components during transport via hand-carry, ground vehicle, and aircraft.

3.2. Construction: The BDAR Maintainer Kit box and components shall be new and without defects. Each BDAR Maintainer Kit shall be delivered assembled so that it can be immediately used for its intended purpose. The box shall be made as specified in the components list drawing TRI0002CL (ref 2.1.). The box shall be constructed so as to protect internal components from internal (product in kit causing damage to other kit product) and external damage. If foam donnage is used, then must ensure not damaged due to spillage where it loses its functional use.

3.3. Components:

3.3.1. Components of the BDAR Maintainer Kit shall consist of its carrying tool box/container and components as listed in the BDAR Components List, (ref 2.1). **Belzona products will have MSDS requirement sheets in a zip lock bag.** The contractor may package small component parts in individual containers/bags as deemed necessary and to ease inventory. The box/container shall be constructed of material which will not render the box/container unserviceable due to the products and components within it.

3.3.2. Reference BDAR Maintainer Kit Components List, (ref 2.1). Several items within the components list state mandatory sources. The contractor shall provide those components with mandatory sources from those mandatory sources and part numbers provided. Several items within the components list show known sources. These are for informational purposes only and are not mandatory sources. The contractor reserves the right to utilize that known source or any other they deem appropriate to fulfill the requirements of this DFP.

3.3.3. COTS Literature. Some components of the BDAR Maintainer Kit may have supplemental Commercial Off The Shelf (COTS) literature. The contractor shall insert COTS literature that comes with any component commercially into the BDAR Maintainer Kit Box. COTS literature includes but is not limited to manuals, instruction sheets, and parts list. All COTS literature shall be packaged together and in a fashion to prevent damage from moisture.

3.4. Components List Label(s): The components list(s) label as called out in the BDAR Maintainer Kit Components List (ref 2.1) shall be of the contractor's own design. It shall be **solvent and** weather resistant. It shall be permanently affixed. It shall contain the following information: **either Brand Name, Vendor or**

Source, or Manufacturer and related common part number, item name or nomenclature, unit of issue and quantity in kit. Include the referenced source's CAGE code if applicable. The top of the components list label shall contain this kits item name (Kit, BDAR, Maintainer), the Kits NSN (provided by the government), the contract number, and the contractor's name, address, phone number, **maximum weight of entire kit, maximum cube of entire kit, and part number.** If more than one sheet is utilized, they shall be numbered accordingly. The label will **annotate or** indicate by an asterisk **Belzona** components that must meet a MSDS requirement. **Waive acceptance of components list labels for the prototype.**

3.5. Dimensions

3.5.1. Component Dimensions: Component Dimensions shall be in accordance with the BDAR Components List (Ref 2.1). In the event, there is no dimension listed for an individual component, the contractor shall insure that the component that is provided shall fit within the BDAR Maintainer Kit box without difficulty.

3.5.2. Loaded Box Dimensions: The Dimensions of the Box are listed in the BDAR Maintainer Kit Components List (Ref 2.1). A fully loaded BDAR Maintainer Kit shall not exceed the dimensions of the Tool Box as specified in the Components List TRI0002CL (Ref 2.1).

3.6. Inventorying. Utilizing the Components List Sheet(s) as dictated in 3.3, the entire BDAR Maintainer Kit shall be capable of being fully inventoried within 10 minutes.

3.7. Drop. A BDAR Maintainer Kit, at temperatures from -20 degrees F to +120 degrees F, shall withstand being dropped from a height of 36 inches onto a hard floor surface. The BDAR Maintainer Kit box and components shall not sustain any damage, other than minor denting or scratching that will not affect the performance of any component including the box. The drop shall not cause the box to open.

3.8. Color. The BDAR Maintainer Kit box shall be Gray, Olive Drab Green, or black.

3.9. Label. The BDAR Maintainer Kit shall be labeled on it's interior with the following information: Kit name (KIT, BDAR, MAINTAINER), NSN (provided by the government), contract number, contractor's name, weight of entire kit, cube of entire kit, and part number. The interior label will be self-adhesive. The exterior will include only Kit name, BDAR, Maintainer, and NSN. The contractor shall label the BDAR Maintainer box with 1 - 1 ½ inch stenciled letters using solvent resistant, contrasting **color (paint or dye)** on the **front or back** of the box, **maintaining consistency.** The waterproof information must be capable of withstanding the effects of outside environmental conditions such as

moisture, sand, and wind as well as the kits products. Solvent as mentioned in this requirement is defined as engine motor oil, transmission fluid, hydraulic fluid, diesel fuel, antifreeze, and bearing grease.

3.10. Weight. Fully loaded, the BDAR Maintainer Kit shall not exceed 40 lbs.

4. VERIFICATIONS

4.1. General: Product verification shall be performed in accordance with the following requirements.

4.1.1. Responsibility for verification: Unless otherwise specified in the contract, the contractor is responsible for the performance of all verifications requirements as specified herein. Except as otherwise specified in the contract, the contractor may use his own or any other facilities suitable for the performance of the verifications requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the verifications set forth in the specifications where such verifications are deemed necessary to assure supplies and services conform to prescribed requirements.

4.1.2. Responsibility for compliance: All delivered BDAR Maintainer Kits shall meet all requirements herein.

4.1.3. Product Examination: Visually, dimensionally, and manually examine each kit to determine conformance with the requirements herein. Visual examination shall include verification of completeness of manufacturing and assembly, proper cleaning, and that all components are free of defects. Failure of any case to pass any examination shall result in the rejection of the kit.

4.2. Construction Examination: Visually inspect the BDAR Maintainer Kit Box and components to insure the box and components are new and without defects (see 3.2). Visually inspect the BDAR Maintainer kit to insure it is fully assembled and ready for immediate use (see 3.2). Any BDAR Maintainer kit found to have used or defective components shall result in the rejection of the lot. Any BDAR Maintainer kit found not ready for immediate use shall result in the rejection of the kit.

4.3. Component Verification:

4.3.1. Visually inspect the BDAR Maintainer Kit and insure it has all components as required in 3.3.1. Verify that all components fit within the container and that the container can be completely closed once all components are placed inside. Visually inspect the BDAR Maintainer kit and insure it contains MSDS as required in 3.3. Any BDAR Maintainer kit found to have missing components or without the required MSDS shall result in the rejection of the kit.

4.3.2. Visually inspect the BDAR Maintainer Kit and insure that components that have mandatory sources listed the components list are in fact those components from that mandatory source and with that part number (ref 3.3.2.). Any BDAR Maintainer kit found to have a component with a stated mandatory source that is not in fact from that mandatory source shall result in rejection of the kit.

4.3.3. COTS Verification. (only required for prototype). The contractor shall submit a written Certificate of Conformance stating that any and all COTS literature is provided for components within the BDAR Maintainer Kit. The government reserves the right to perform a visual inspection to check for COTS literature. Failure of a contractor to submit the Certificate of Conformance as stated above shall result in the rejection of the kit.

4.4. Components List **Label** Verification: Visually inspect the BDAR Maintainer Kit and insure it has a Components List **Label** as required in 3.4. Verify that the **label(s)** contain all required information as stated in 3.4. Verify that the **label** is **weather and solvent resistant**. Verify that if more than one **label** is used, it is numbered accordingly. Verify that the components list **label** contains all the required components as dictated in 3.3.1. Any BDAR Maintainer kit found to have a missing, incorrect, deficient, or unlaminated Components List **Label(s)** shall result in the rejection of the kit.

4.5. Dimension Verifications:

4.5.1. Component Dimension Verifications: Visually examine and measure the BDAR Maintainer kit components to insure they conform to the requirements stated in 3.5.1. Visually examine and insure that all components fit easily within the BDAR Maintainer kit box. Any BDAR Maintainer kit components found to exceed the prescribed dimensions or that do not fit within the BDAR Maintainer kit box shall result in the rejection of the kit.

4.5.2. Loaded Box Dimension Verification: Visually examine and measure the BDAR Maintainer kit as a whole. Verify that the dimensions are within the limits as set forth in 3.5.2. Any BDAR Maintainer kit found to exceed the prescribed dimensions shall result in the rejection of the kit.

4.6. Inventory Verification: Visually inventory the entire BDAR Maintainer Kit while under a time watch. Verify that every component can be physically removed from the kit one at a time. Verify within a 10-minute timeframe that each component on the components list is present in the kit. Any BDAR Maintainer kit that cannot be inventoried within the allotted 10-minute timeframe by trained personnel (military users) shall result in the rejection of the kit.

4.7. Drop Verification: (Only required for the prototype). Under current weather condition at the time of the test, drop a fully assembled and closed BDAR Maintainer kit from a distance of 36 inches onto a hard surface. The drop shall

not cause the Bag/Container to open. Visually inspect each component and verify that none have sustained damage that shall effects the performance of the component. Minor denting or scratching of components shall be considered acceptable provided that component can still be utilized for its intended purpose. Any BDAR Maintainer kit that opens due to the drop test, damage to any component which exceeds minor denting or scratching, or any component found to be damaged to the point it cannot be used shall result in the rejection of the kit. The government reserves the right to request additional testing at the temperature extremes of -20 to +120 deg F.

4.8. Color Verification: Visually inspect the BDAR Maintainer kit box and insure it is Gray, **Black**, or Olive Drab Green.

4.9. Label Verification: Visually inspect the BDAR Maintainer kit box and locate the label. Insure it is in the correct location as specified in 3.9. Insure the label is waterproof. Insure the label contains all the necessary information required in 3.9. Any labeling that does not meet the requirements as specified in 3.9. shall result in the rejection of the kit.

4.10. Weight: Physically weigh a complete BDAR Maintainer Kit and verify that it does not exceed 40 lbs. Any BDAR Maintainer Kit that exceeds the 40 lb requirement shall result in rejection of the kit.

4.11. Packaging. Verify that preservation, packing, and packaging are in accordance with the contractor's best commercial practice per ASTM-D-3951 and the requirements herein. Failure to meet the requirements of ASTM-D-3951 and the requirements herein shall be cause for rejection (see paragraph 5).

5. PRESERVATION, PACKING, AND PACKAGING

5.1. Preservation, Packing and Packaging. Preservation, Packing and Packaging shall be in accordance with ASTM-D-3951 plus the following additional requirements:

a. If oak or chestnut wood products are used in the performance of this contract, these wood or wood products must be free of all bark.

b. All non-manufactured wood used in packaging shall be heat-treated to a core temperature of 56 degrees Celsius for a minimum of 30 minutes. The box/pallet manufacturer and the manufacturer of wood used as inner packaging shall be affiliated with an inspection agency accredited by the Board of Review of the American Lumber Standard Committee. Each box/pallet shall be marked to show the conformance to the International Plant Protection Convention Standard. Boxes/pallets and any wood used as inner packaging made of non-manufactured wood shall be heat-treated. The quality mark shall be placed on both ends of the outer packaging, between the end cleats or end battens; on two sides of the pallet. **This is not applicable for this contract.**

c. Unless otherwise specified herein, shipments to the same destination of identical items having a total packaged displacement exceeding 50 cubic feet shall be palletized unless forklift - handling features such as skids are included on containers.

d. Workmanship shall be such that when proper procedure is followed, materials and equipment being processed will be provided the maximum protection against corrosion, deterioration, and be suitable for storage to the level of packaging specified.

e. If the items are packaged in more than one box the boxes shall be marked ie., 1 of 3, 2 of 3, 3 of 3 etc.

5.2. Marking: Container markings shall be in capital letters of equal height, shall be proportionate to the available marking space and shall contain the following information (if applicable) in the order listed. **This is not applicable for this contract.**

- a. NSN/NATO stock number. (if applicable)
- b. CAGE code of the company awarded the contract, and part number of the item as specified in the contract.
- c. Quantity and unit of issue.
- d. Level of protection and date packed.
- e. Contract or purchase order number.

5.3. Marking on the shipping container. Markings on the shipping container shall be grouped into three distinct categories, identification markings, contract data markings and address markings.

5.3.1. Identification Markings: (as applicable)

- a. NSN/NATO stock number. (if applicable)
- b. CAGE code of the company awarded the contract, and part number of the item as specified in the contract.
- c. Quantity and unit of issue
- d. Level of protection and date packed.
- f. Gross weight and cube.
- g. Item description or nomenclature.

5.3.2. Contract Data Marking: (as applicable) The contract data marking placed under the identification markings, shall consist of the contract or purchase order number.

5.3.3. Address Markings: The address markings placed to the right of the identification and contract data markings (if space is available) shall consist of the following information in the order shown.

- a. Control number or reference number (as a minimum, the Transportation Control Number (TCN) shall be provided as the single standard shipment identification number)
- b. FROM MILITARY: Name and address of consignor (DOD Activity Address Code) and in the clear address if applicable
- c. FROM CONTRACTOR: Name and address of the contractor (including nine-digit zip code). When supplies are shipped from a subcontractor, only the name and address of the company awarded the contract shall be used.
- d. TO: Name and address of consignee (DOD Activity Address Code (DODAAC) and in the clear Address if applicable
- e. Piece number and total pieces (if more than one shipping container is used for the order).

6. NOTES. The following information is general in nature and is not mandatory in this DFP but only to provide additional information.

6.1. Intended Use. The intended use of this DFP is to obtain a BDAR Maintainer Kit for field use. This Kit shall be utilized by Maintenance personnel (Maintainers) to perform emergency repair of systems to allow the system to continue on with the mission or to allow it to retreat back for more complete repair.

6.2. DFP Basis. This DFP was written to fulfill Combat Developer requirements for a BDAR Maintainer Kit.

6.3. Definitions:

A.K.A. Also Known As – Used to provide a common commercial name for components listed in the DFP and DFP Components List.

BDAR Battle Damage Assessment & Repair

CAGE Commercial And Government Entity – A code assigned to a contractor or government activity/command consisting of 5 alpha or numeric characters.

OEM Original Equipment Manufacturer

NSN National Stock Number

PN Part Number

6.4. This DFP TRI002 was prepared by CAGE 19207. Address is:

U.S. TANK-AUTOMOTIVE AND ARMAMENTS COMMAND
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