DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503

1. TITLE
EXPLOSIVE ORDNANCE DISPOSAL DATA

2. IDENTIFICATION NUMBER
DI-SAFT-80931A

3. DESCRIPTION/PURPOSE

3.1 This data is used by the Naval Explosive Ordnance Disposal Technology Center (NAVEODTECHCEN) to develop, test, validate and publish joint service non-nuclear Explosive Ordnance Disposal (EOD) 60 series technical manuals. EOD technicians shall use this data in support of testing, development and operational evaluation of new or modified weapon systems, ordnance items and aircraft systems.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
920909	N/EODTC-602		

7. APPLICATION/INTERRELATIONSHIP

7.1 This Data Item Description (DID) contains the content and format preparation instructions for explosive ordnance disposal source data resulting from the work task described in the contract statement of work.

7.2 This DID is used by all military services when explosive or pyrotechnic items are inherent in the system, subsystem, aircraft or munitions being developed or modified, or procured as non-developmental items (NDI).

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8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER
		N6788

10. PREPARATION INSTRUCTIONS

10.1 General. Data requirements are divided into two sections. Paragraph 10.2 contains data requirements for explosive items. Paragraph 10.3 contains data requirements for aircraft/remotely piloted vehicle (RPV) subsystems.

10.2 Required explosive ordnance data.

10.2.1 Identification. Identification shall include the following:

a. The official designation/nomenclature of the ordnance, any common names and any known foreign designations.

b. A brief general description of the normal applications of the ordnance item plus optional applications.

c. All external markings, paintings and colors which appear on the end item. Typical markings include ordnance designation, loading information, settings, index marks, time scales, manufacturers marks, instructional notes, lot numbers and color code designations.

d. All fittings and features which will differentiate the item from a similar item within a class or family of ordnance items. Features or fittings should be visible and obvious without touching or disassembling the item. Furnish camera ready line drawings of external construction with appropriate callouts identifying pertinent fittings, features and dimensions of the ordnance item.

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11. DISTRIBUTION STATEMENT

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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7. APPLICATION/INTERRELATIONSHIP (Continued)

7.3 This DID is related to DI-DRPR-81000, DI-DRPR-81001 and DI-DRPR-81002.

7.4 It is not intended that all the requirements contained herein should be applied to every program or program phase. Portions of this DID are subject to deletion tailoring depending upon the program phases in which it is applied in the solicitation/contract.

7.5 Electronic media. When data is required in electronic media, it shall meet the current Computer-Aided Acquisition and Logistic Support (CALS) standards (see MIL-HDBK-59 for guidance). Text data shall be in DOS DCA/RTF or ASCII format. Graphic arts data shall be in TIFF format. Data may be on ISO 9660 erasable optical disk (1024 bytes per sector), 3½-inch 1.44 MB floppy disk (DOS format), 9 track tape, or ¼-inch cartridge tape (Domain/OS wbak format or DOS format).

7.6 This DID supersedes DI-SAFT-80931.

7.7 Office of the Chief of Naval Operations (OPNAV) Instructions may be obtained from: Naval Aviation Supply Office (ASO), Physical Distribution Division, 5801 Tabor Avenue, Philadelphia, PA 19120-5099.

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10. PREPARATION INSTRUCTIONS (Continued)

e. Other ordnance used with this item. For example, fuze data shall state what bombs, dispensers, projectiles, landmines, grenades or rocket warheads they are used with; bomb data shall state what fuzes, rockets, fin assemblies or guidance units may be used; underwater ordnance items such as torpedoes, naval mines, depth charges, sound signals and markers shall include data on what exploders, extenders, clock starters, hydrostatic arming devices or target detection units can be used; dispensers, clusters, launchers and certain projectiles shall include all submunitions which could be loaded. If new fuzing is used in conjunction with a munition item, complete information on the fuze is required in accordance with requirements herein.

10.2.2 Description. Descriptive data shall include the following:

a. An overall narrative physical description of the item to include dimensions, weights, components and types of materials. Also describe the appearance and condition of the item in the unarmed, prearmed and armed conditions.

b. Composition and strength of structural and shell material. Include material specifications and structural dimensions such as thickness of material, thread specifications, etc. Referencing military specifications, or stating that items meet or exceed military specifications, will not suffice.

c. Description of all major sections, subassemblies and hazardous components or material. Include their purpose, function and method of operation. This includes

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10. PREPARATION INSTRUCTIONS (Continued)

illustrations (Level II engineering drawings of the components (external views and internal cutaways) with appropriate callouts for major sections, subassemblies, hazardous components, power sources; plus arming, safing and firing subcomponents).

d. A description of all toxic/hazardous materials, liquids, explosives, hydraulics or pneumatic pressure sources and routing. Describe electric voltage sources and circuits, thermal or chemical energy sources, mechanical hazards, fuels and oxidizers. Describe any other item that could present a physical threat to the safety of personnel. Include any known Environmental Protection Agency (EPA) approved disposal information relating to the above items.

e. A description of all explosive maincharges, subassemblies and firing trains. Include type, weight, unique sensitivities and composition, including specific ingredients and their percentages.

f. Electrical power source and operation information for arming and firing circuits. Include time from power activation until voltage drops below minimum firing level for each explosive component (all fire/all no fire times) including bleed down time of firing capacitors and resistor circuits. Documentation of these values is required including a statistical analysis to derive worst-case conditions from a safety "wait time" standpoint.

g. For influence actuated ordnance, influence sensitivity/activation levels required for functioning of the ordnance.

h. Identification and location of all classified components.

10.2.3 Operational sequence. Operational sequence data shall include the step-by-step sequence of events from the initial prearming action through arming and functioning. The functional sequence/description shall be supported by photo reproducible illustrations or photographs with callouts mentioned in the sequence of operation or functional description(s). Electrical block/circuit diagrams shall include all electrically initiated ordnance items and shall include all power sources, firing capacitor switches and bleeder resistors. Cutaway illustrations, as appropriate, shall show internal components.

10.2.4 Safety information. This information shall include:

a. Known or suspected information on sensitivity of weapons to electrical, magnetic, electromagnetic, chemical, explosive, heat, radiological, mechanical or other energy that could activate or function item if armed, unarmed, damaged or undamaged.

b. Blast intensity, fragmentation range and size of fragments of the main charge or warhead.

c. Test report or other documents detailing design safety features and operational and safety tests.

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10. PREPARATION INSTRUCTIONS (Continued)

d. Safety protection requirements for hazardous and toxic solid, liquid and gaseous materials likely to be encountered.

e. Visual documentation, e.g., film or videotape, of operational and safety tests.

10.2.5 Disassembly procedures. If disassembly is possible, describe step-by-step the normal disassembly of the item required to separate the explosive and hazardous components from the item body. This would include installation of safing devices, protective devices, cable disconnections and tools required. Include drawings and diagrams as appropriate. Include separate procedures for varying item configuration if possible.

10.2.6 Recommended EOD procedures. This section provides render safe procedures for armed and unarmed conditions of the item and recommended disposal procedures. Safety warnings, cautions and notes shall be incorporated into the procedures. All render safe procedures shall be classified a minimum of Confidential in accordance with OPNAVINST 5513.3B, Encl. 24. Each page containing render safe procedures shall be stamped "RECOMMENDED RENDER SAFE PROCEDURES".

a. Recommended render safe procedures.

(1) Unarmed condition.

(a) Appearance. Describe the item so that it can be positively identified as unarmed by the physical condition which can be expected to be encountered.

(b) Procedure. Describe, sequentially, the steps to totally render safe the item. This includes installation of safing or protective devices (or both), disassembly, disconnections, tools required, recovery actions, transportation, handling, etc. Include drawings and diagrams as appropriate. Also include separate procedures for varying item configuration, if applicable, on each condition listed under appearance. If appropriate, describe the intended objective of the procedures and criteria to ascertain if the procedure was successful.

(2) Armed condition.

(a) Appearance. Describe the item so it can be identified as being armed or unknown, i.e., not positively identified as safe.

(b) Procedure. Same as 10.2.6a(1)(b) above. Procedures should be developed to be accomplished by remote means, if possible.

b. Disposal procedures. Establish explosive ordnance disposal procedures (normally detonation or burning) for hazardous materials using EPA approved methods. Include

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10. PREPARATION INSTRUCTIONS (Continued)

procedures for the complete item as well as all individual hazardous components. Include drawings and diagrams as appropriate.

10.3 Required aircraft data.

10.3.1 Identification. Identification data shall include the following:

a. Type of aircraft (brief description).

b. All exterior painting and markings.

c. Aircraft dimensions including front, rear, side and top views (diagrams, photographs).

10.3.2 Aircraft general information. Include general information on major systems including toxic or hazardous materials/liquids to include type, weight and location of those materials. Include information on pneumatic, hydraulic actuated systems, electrical auxiliary power units and hazard zones around ground operating aircraft. In addition, include the following with appropriate illustrations containing callouts:

a. Cockpit entry, both normal and emergency.

b. Engine shutdown procedures.

c. Methods to isolate all aircraft electrical power sources, e.g., removal of aircraft batteries.

d. Landing gear system and safing procedures.

e. Any other safing procedures for mechanical hazards.

10.3.3 Egress systems. Include all explosive components, their location, explosive weight and type. Items shall be described in sufficient detail to provide positive identification. Include a step-by-step sequential operation of the egress system to include the various initiation methods and functioning times. Include photo reproducible illustrations and photographs that are compatible with functioning description. Include callouts of all components covered in the sequence of operations. Include location, type, explosive weights, hazards and safety precautions for each component.

10.3.4 Survivability life support systems. Identify, describe and provide camera ready illustrations with callouts of all components which have a potential hazard to personnel (such as pressurized oxygen bottles, flares or markers).

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10. PREPARATION INSTRUCTIONS (Continued)

10.3.5 Armament systems.

a. Describe weapons release systems to include racks, launchers, pylons and flare/chaff dispensers. Include functioning sequence, system location, location of explosive components or actuators, mechanical and electrical safing procedures and explosive component removal procedures. If any component is an already established military item without special modifications, reference to item and location illustrations on aircraft is sufficient, e.g., MAU-12A ejection racks located at stations 2 and 6.

b. Describe internal gun systems to include access, mechanical and electrical safing procedures, operational sequence and emergency disassembly. Include camera ready illustrations with callouts to support descriptions. Data on electronic target acquisition systems, etc., is only required if necessary for safing or if it presents a hazard(s) to personnel. Include information on any component which presents a hazard(s) to personnel.

c. Include a list of non-nuclear munitions compatible with aircraft.

d. Include step-by-step non-nuclear munitions downloading procedures. Include removal of racks, dispensers, launchers and gun systems. Include camera ready illustrations with callouts of components referenced in the description(s).

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