

INSTRUCTIONS FOR COMPLETING DD FORM 1423

(See DoD 5010.12-M for detailed instructions.)

FOR GOVERNMENT PERSONNEL

- Item A. Self-explanatory.
- Item B. Self-explanatory.
- Item C. Mark (X) appropriate category: TDP - Technical Data Package; TM - Technical Manual; Other - other category of data, such as "Provisioning," "Configuration Management," etc.
- Item D. Enter name of system/item being acquired that data will support.
- Item E. Self-explanatory (to be filled in after contract award).
- Item F. Self-explanatory (to be filled in after contract award).
- Item G. Signature of preparer of CDRL.
- Item H. Date CDRL was prepared.
- Item I. Signature of CDRL approval authority.
- Item J. Date CDRL was approved.
- Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.
- Item 2. Enter title as it appears on data acquisition document cited in Item 4.
- Item 3. Enter subtitle of data item for further definition of data item (optional entry).
- Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).
- Item 6. Enter technical office responsible for ensuring adequacy of the data item.
- Item 7. Specify requirement for inspection/acceptance of the data item by the Government.
- Item 8. Specify requirement for approval of a draft before preparation of the final data item.
- Item 9. For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoDD 5230.24).
- Item 10. Specify number of times data items are to be delivered.
- Item 11. Specify as-of date of data item, when applicable.
- Item 12. Specify when first submittal is required.
- Item 13. Specify when subsequent submittals are required, when applicable.
- Item 14. Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.
- Item 15. Enter total number of draft/final copies to be delivered.
- Item 16. Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14.; Desired medium for delivery of the data item.

FOR THE CONTRACTOR

Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.

a. Group I. Definition - Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data.

These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

CS7200
STATEMENT OF WORK - AMMUNITION DATA CARDS
April 2012

When to Use:
As specified in the USAF Airmunitions Specification

Text:

(A) Ammunition Data Cards shall be prepared in accordance with MIL-STD-1168B and shall follow the format required by the World Wide Web application identified as WARP or Worldwide Ammunition-data Repository Program.

WARP will reside within the Munitions History Program (MHP). Additional details on these WARP applications are provided below.

(B) MHP-WARP Access Procedures

(1) Government or Contractor employee with CAC and AKO account:

- (a) Click on the MHP hyperlink which is <https://mhp.redstone.army.mil/>
- (b) Enter CAC PIN when prompted
- (c) Click on WARP (ADC)
- (d) Click on Help
- (e) Click on WARP Request Access and follow instructions

(2) Contractor or Government employee without CAC and AKO account: MHP-WARP uses PKI authentication requiring a DoD approved digital certificate as a security measure to protect the integrity of stored data. There are three vendors that have been approved to issue DoD approved certificates per an External Certification Authority (ECA) program. You are required to use one of the approved vendors listed on the following DISA website: <http://iase.disa.mil/pki/eca/index.html> A nominal fee is charged for each certificate. The Contractor, including any subcontractors, shall assume the responsibility for all costs of obtaining each digital certificate needed.

(3) After the required certificate is obtained:

- (a) Click on the MHP-WARP hyperlink: <https://mhpwarp.redstone.army.mil/>
- (b) Enter ECA password
- (c) Click on Help and follow the instructions for obtaining the necessary access
- (d) HELP Numbers are as follows:
MHP Access – (256)313-2143; DSN 897-2143
JMC Quality Administrators for WARP issues – (309)782-2697 or (309)782-7107

(e) Worldwide Ammunition-data Repository Program (WARP)

An online user's manual will provide additional help in the development of an ammunition data card. It is recommended that you download and read the user's manual prior to inputting your

initial data card. The user's manual also contains screen shots, which depict what the inputter will see during the ADC input process.

(f) Ammunition Data Card Input

ADC input allows current contractors and government facilities the capability to create, and submit for approval, ADCs which meet the format requirements of MIL-STD-1168B. ADCs are automatically forwarded to the respective Government Agency Responsible for Acceptance (GARA). The GARA in most cases is the Defense Contract Management Agency (DCMA) Quality Assurance Representative (QAR), who reviews contractor input for accuracy and completeness, and after updating the disposition code for the specific lot, submits the ADC to the database. The inputter is granted access only to ADCs identified with its specific manufacturing code, as identified in MIL-HDBK-1461A, Manufacturer's Symbols. The use of previously inputted ADCs through the TEMPLATE option significantly reduces input effort, while increasing accuracy and consistency of data.

(g) Email Notification

WARP provides immediate, automated notification to process participants when actions are required. When the producer has completed an ADC submission, an email message is routed to the GARA advising that an ADC awaits review and approval. If the GARA approves the ADC as submitted, the ADC is released to the base and an email, with approved data card, is routed back to the originator. If the ADC requires modification or correction to conform to MIL-STD-1168B and contract requirements, an email is provided to the ADC originator advising that corrective action is required prior to approval.

(h) Information Updates

It is important that the System Administrators are apprised when a producer receives a new contract. The producer shall notify ROCK-JMC-WARP@conus.army.mil within 30 days after receipt of a new contract. Information to be included shall be the contract number, item, GARA, Manufacturer's identification symbol and the names of the individuals who will be inputting ADCs into the system. If you are a new producer and do not have a Manufacturer's identification symbol, you can obtain one by sending an email to ROCK-JMC-WARP@conus.army.mil. The email must contain manufacturer's name, address where performance of the contract will take place, and a point of contact.

(End of statement of work)
(CS7200)

AMC/AMSC SCREENING ANALYSIS WORKSHEET REPORT					PRIORITY CATEGORY			
					02			
ITEM IDENTIFICATION AND INFORMATION								
NSN 1377010528208ES		NOUN CARTRIDGE,IMPULSE			END ITEM ACES II		PCC	ERRC N
QUANTITY 1	UNIT COST \$165.8300	IDENTIFYING NUMBER (Part No) R/N A114312-521			CAGE 88277	TOP DWG REV NO.		
EST ANNUAL BUY VALUE \$165.83				COMM OFF-THE-SHELF ITEM YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> UNKNOWN				
NUC. CERT. END ITEM YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> UNKNOWN			HARD CRIT. IND YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> UNKNOWN					
NEXT HIGHER ASSEMBLY								
NSN		NOUN			R/N		CAGE	
SUMMARY OF SCREENING ACTION								
DESIGN DISCLOSURE		SPEC CONTROL <input checked="" type="checkbox"/>		SOURCE CONTROL		MIL/IND/CONTR PERF SPEC		
ST/STE REQUIRED YES <input checked="" type="checkbox"/> NO UNKNOWN		ST/STE AVAILABLE YES <input checked="" type="checkbox"/> NO UNKNOWN		DATA COMPLETE <input checked="" type="checkbox"/> YES NO UNKNOWN		DATA RIGHTS LIMITED YES <input checked="" type="checkbox"/> NO UNKNOWN		AAC C
AMC/AMSC 1 / C		AMC/AMSC EXP DT 27 SEP 2017		PRV AMC/AMSC 1 / C		PRV AMC/AMSC EXP DT 30 APR 2012		
AMC COMPLETION DT 01 OCT 2012				ENGINEER AMC/AMSC 1 / C				
USER TYPE	DATE/TIME IN	DATE/TIME OUT	NAME	ORGANIZATION/ OFFICE SYMBOL	COMMERCIAL PHONE	DSN PHONE		
Engineer	27 SEP 2012 / 1433	01 OCT 2012 / 1644	Hancey, Allen R	AFLCMC / EBHJ	801-586-9220	586-9220		
Screening Technician	26 SEP 2012 / 1317	27 SEP 2012 / 1433	Stuart, Michael C	418 SCMS / GULABB	801-586-3988	586-3988		
Screening Technician Workload Manager	26 SEP 2012 / 1316	26 SEP 2012 / 1317	Cope, Charles R	418 SCMS / GULABB	801-777-6611	777-6611		
PROCUREMENT SUPPORT REQUIRED								
FIRST ARTICLE TEST YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			ENGINEERING DATA LIST REQ <input checked="" type="checkbox"/> YES NO			EXPORT CONTROLLED <input checked="" type="checkbox"/> YES NO		
PRODUCTION SAMPLE REQ YES <input checked="" type="checkbox"/> NO		MLO/ARTWORK Not required			PROD SAMPLE FURN YES <input checked="" type="checkbox"/> NO		ENGR NOTES YES <input checked="" type="checkbox"/> NO	
APPROVED SOURCES								
DESIGN ACTIVITY INFORMATION								
CAGE	REFERENCE NUMBER	CONTRACTOR NAME	RNCC / RNVC	NAME	ORGANIZATION/ OFFICE SYMBOL	COMMERCIAL PHONE	DSN PHONE	
88277	A114312-521	BOEING COMPANY THE	7 / 2	Stuart, Michael C	418 SCMS/ GULABB	801-586-3988	586-3988	
SUPPLIER INFORMATION								

**REPSHIP Data Requirements for Individual Shipments of Hazardous Material (HAZMAT) and
Inert Component Parts - Continental United States (CONUS) to CONUS, CONUS to Overseas or
From All Overseas Locations**

FROM:	Shipping Activity
To:	Domestic Customer or Transshipping Activity Clearance Authority (Ocean) or Customer Service Branch (CSB) (Air) or CONUS Sea Terminal

INFO: 505 CBSS/GBLB, 6043 Elm Lane, Hill AFB, UT 84056-5819 or FAX (801) 777-1089

INFO: Sponsoring Service Accountable Supply Activity Ultimate Consignee/ Final Destination

SUBJ:	Report of Shipment (REPSHIP)
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1. Shipment Date written as a three-digit day of the year (Julian)
2. Estimated Time of Arrival (ETA) written as a three-digit day of the year (Julian)(Observe Standard Transit Time (STT), if CONUS Truck Shipment and no Required Delivery Date (RDD) identified)
3. Required Delivery Date (RDD) or Delivery Date (DD), if specified
4. Carrier
5. Bill of Lading (BL) Number (Notes 1, 2, 3)
6. Military Traffic Expediting-Greater Security (MTX-GS) Service Number (Notes 1, 2, 3)
7. Air Release Number (Notes 1, 2, 3) or for Surface Shipments, Export Traffic Release (ETR) Number and Vessel Name and/or Voyage Document Number
8. Shipment (Cargo) Name (Example: Bombs)
9. Container and Seal Number (if applicable):
 - a. Container Transportation Control Number (TCN)
 - b. Total Weight of Contents
10. Category (CAT), (e.g. Sensitive-Category I, II, III, IV, Unclassified, Confidential, Secret, None)
11. Security Risk Code (SRC) or Controlled Item Inventory Code (CIIC)
12. Total Net Explosive Weight (NEW)
13. Hazard Classification (s)
14. Name, address, and phone number of person responsible for information contained in REPSHIP

NOTES:

1. When the conveyance contains more than one shipment unit, repeat the data elements in separately lettered paragraphs for each shipment unit.
2. Cargo for more than one vessel or flight, but shipped to Port of Embarkation (POE) in a single conveyance, is included in a single REPSHIP. When cargo for a single vessel is moved to the Seaport of Embarkation (SPOE) in more than one conveyance, repeat all the data elements as above in separate numbered paragraphs for each conveyance or REPSHIP.
3. A separate REPSHIP is used for each mode of shipment to the POE.

CAD/PAD Item Marking Instruction

Prepared By
CAD/PAD Joint Program Office

784CBSG/GJ
Code E211B, NSWC Indian Head

Version 1.1
Dated 1 May 2008



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References

NOTE: Use latest revision of all reference documents.

1. **MIL-STD-130** Department of Defense Standard Practice Identification Marking of U.S. Military Property
2. **MIL- STD-1168** Ammunition Lot Numbering and Ammunition Data Card
3. **ISO/IEC 16022** Information technology - International symbology specification - Data Matrix
4. **ISO/IEC 15434** Information technology - International symbology specification - Syntax for high capacity ADC media
5. **ISO/IEC 15418** Information technology - International symbology specification - EAN/UCC Application Identifiers and FACT Data Identifiers and Maintenance (Note: Data Identifier dictionary with technical content is contained in ANS MH10.8.2)
6. **UNDER SECRETARY OF DEFENSE FOR ACQUISITION POLICY AND TECHNOLOGY** Department of Defense Guide to Uniquely Identifying Items version 1.6 (this document is available on line at <http://www.acq.osd.mil/dpap/pdi/uid/index.html> or from Defense Procurement & Acquisition Policy, 3060 Defense Pentagon, Room 3E1044, Washington, DC 20301-3060)
7. **DEFENSE FEDERAL ACQUISITION REGULATION SUPPLEMENT 252.211-7003** Item Identification and Valuation (Copies of this document are available on line at <http://farsite.hill.af.mil/> or from the Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954)
8. **AFSCM 21-556 Vol. 2** Julian Date format
9. **ANS MH10.8.2 - 2006** Data Identifier and Application Identifier Standard
10. **ANS MH10.8.7 - 2005** Labeling and Direct Product Marking with Linear Bar Code and Two-Dimensional Symbols

Figures

1. Determining IUID requirement
2. Sample UID Data Stream
3. Sample CAD/PAD Data Plate/Label
4. Sample of Etched Data
5. Sample CAD/PAD Small Item Data Plate/Label

1. Purpose.

The Under Secretary of Defense has implemented policy requiring DoD components meeting the requirements identified in Figure 1 to be marked with **Item Unique Identifiers (IUID)**. Cartridge Actuated Devices and Propellant Actuated Devices (CAD/PAD) items, regardless of dollar value, are typically serially managed in aircraft maintenance data systems and therefore are applicable to the IUID requirement.

Additionally, the Air Force Aircrew Escape System Executive Working Group (AESEWG) and the egress system maintenance community has requested that CAD/PAD items be marked with Data Matrix ECC 200 on item data plates or items to enhance accuracy of aircraft maintenance data.

In accordance with MIL-STD-130, this marking instruction identifies marking requirements that meet the above objectives by tailoring Unique Identification (UID) requirements to include aircraft maintenance data requirements for both free text Human Readable Information (HRI) and Machine Readable Information (MRI), which are both mandated requirements for CAD/PAD items.

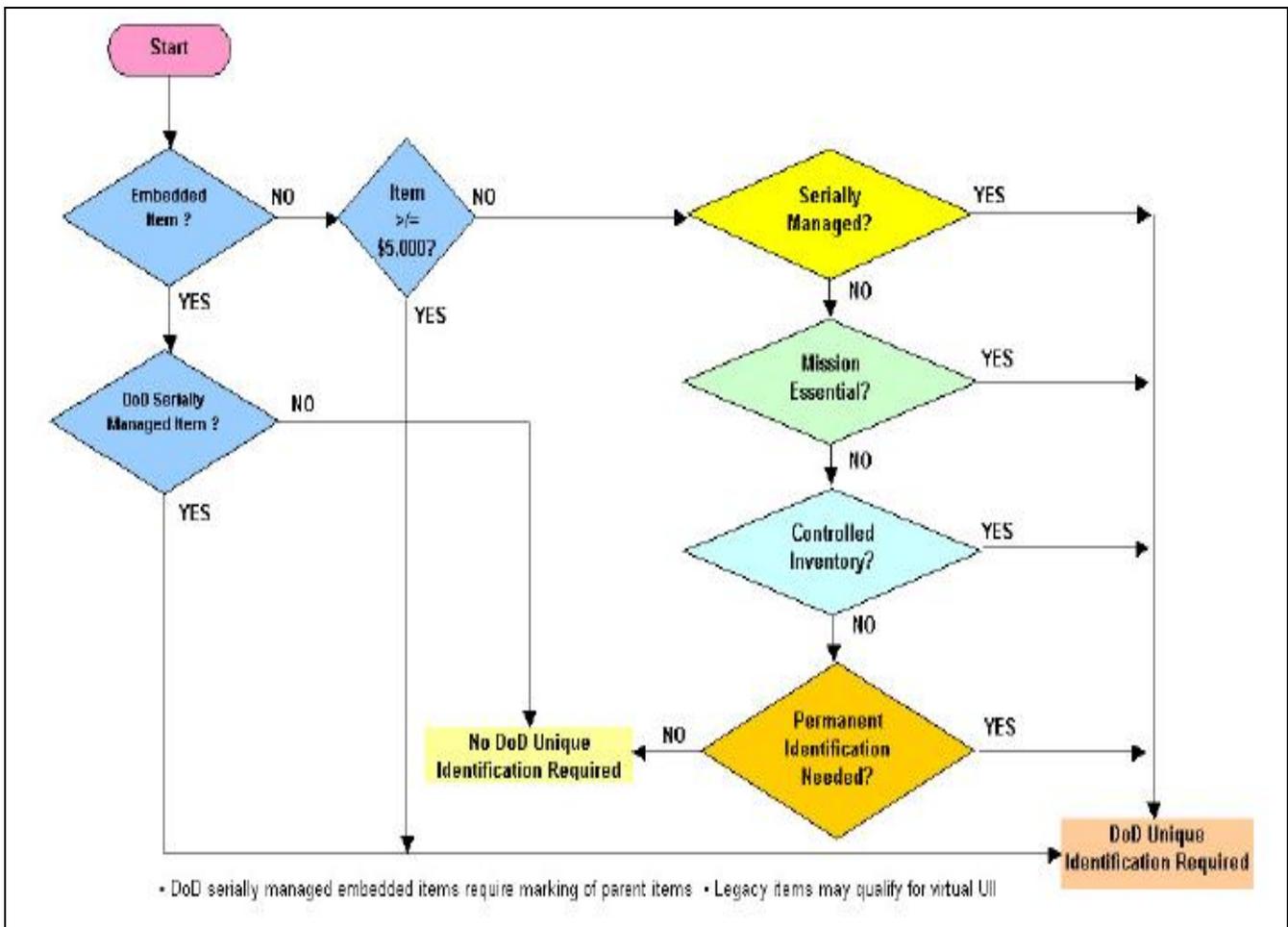


Figure 1. Determining UID Requirement

2. SCOPE.

This instruction identifies marking requirements applicable to suppliers/manufacturers of CAD/PAD components. It is applicable to both production of new CAD/PAD components and remanufacture of service returned, over-aged components. It identifies marking methods applicable to the various sizes and shapes of CAD/PAD components.

As of this writing, guidance regarding mandated transfer of data to the IUID registry can be found at "<http://www.acq.osd.mil/dpap/pdi/uid/index.html>". Go to Training and Communication link, select IUID Toolkit (www.IUIDtoolkit.com), and select "Defense Suppliers", then under "Submit", select subsection "Registration of IUID Data11", under Support Tools select "Data Submission".

3. Marking Requirements.

Both Human Readable Information (HRI) and Machine Readable Information (MRI) are required (see section 4). In accordance with the Defense Federal Acquisition Regulation Supplement (DFARS), DoD has mandated the use of Data Matrix ECC 200 as the standard format for UID MRI markings. Guidance for the construct and application of Data Matrix markings is contained in MIL-STD-130 and the DoD UID Guide located at <http://www.acq.osd.mil/dpap/pdi/uid/index.html>, select Guides link.

3. 1. **HRI Marking Requirements.** The following HRI data is required (as a minimum):

- Item Nomenclature; Per applicable manufacturer drawing
- Manufacturer's Commercial and Government Entity (CAGE); Five (5) alpha/numeric characters.
- Item Lot Number; Lot numbers shall be assigned IAW MIL-STD-1168, unless otherwise directed.

NOTE: The requirement for unique lot number has been deleted.

- Item Serial Number; Six (6) digit serial numbers (minimum) are required. Serial numbers shall be sequentially assigned and shall not be repeated until serial number 999,999 has been reached.
- Item manufacturer's Part Number

NOTE: The weapon system Specification Number does not meet this requirement

- Date of Manufacture (DOM); Month and Year of manufacture as identified in MIL-STD-1168B. DOM shall be the same date that is coded into the lot number.
- Optional markings: Additional markings (such as manufacturer's name, logo, contract number) are acceptable, provided that space is available on the item/data label.

NOTE: Markings and/or attachments shall make no reference to item installation requirements/procedures or shelf/service lives

3.2. MRI Data Construct.

Data Matrix ECC200 markings shall be developed based on UID Data Construct #2 using Data Identifiers (DIs) in accordance with MIL-STD-130 and the DoD UID Guide (see Figure 2). To facilitate durability throughout the scanning life cycle, the largest symbol size, including quiet zone, shall be fitted within the available marking real estate. The symbol's internal module (cell) sizes shall be no smaller than 0.0075 inch (0.19 mm) and no larger than 0.025 inch (0.64 mm). Marks shall contain **only** the data elements identified below:

NOTE: The actual UII will be comprised of CAGE, Part Number, and Serial Number data. The parenthesis surrounding the Data Identifiers are NOT encoded in the 2D symbol

- (17V) Manufacturer's Commercial and Government Entity (CAGE) code, 5 alpha/numeric characters
- (1P) Manufacturer's Item Part Number, 18 alpha/numeric characters maximum

NOTE: The weapon system specification numbers do not meet this requirement

- (S) Item Serial Number, IAW HRI requirement, six (6) digits minimum, up to eight (8) alpha/numeric characters maximum
- (30T) Item production Lot Number, IAW HRI requirement, 15 alpha/numeric characters maximum

NOTE: The data identifier for Lot Number has been changed from 1T to 30T

- (4D) Date of Manufacture (DOM), IAW HRI requirement, in Julian Date format, five (5) numeric characters:

Example: 08151 = 31 May 2008

The first two positions are the last two digits of the year, the last three positions are the Julian Date (001 through 366)

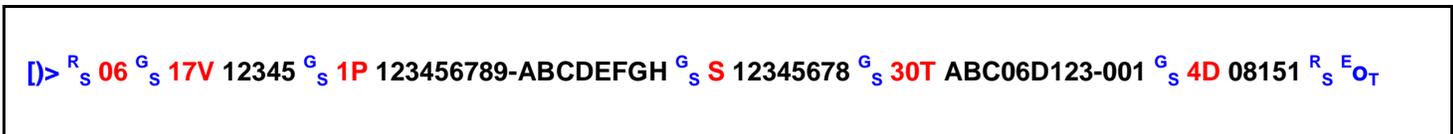


Figure 2. Sample UID Data Stream

4. **Placement of UID Marking.** CAD/PAD items vary considerably in size and shape. A large percentage of these items are currently marked with HRI printed on data plates or labels permanently affixed to the item. The preferred method for incorporating the UID required MRI is to include it on the current data plate/label and, wherever possible, the supplier is to incorporate this concept. The following identifies known variations in marking and preferred MRI incorporation methods.

Note: Unless specifically identified as a requirement in the procurement contract, subcomponents of the End Item Assembly shall not be UID marked.

4.1. **CAD/PAD Items Currently Marked with Data Plates, Labels, or Flag-Tags.** The data plates/labels for these items shall be modified/arranged to allow space for the MRI per paragraph 3.2. Marking shall comply with MIL-STD-130 and the DoD UID Guide (see figure 3).

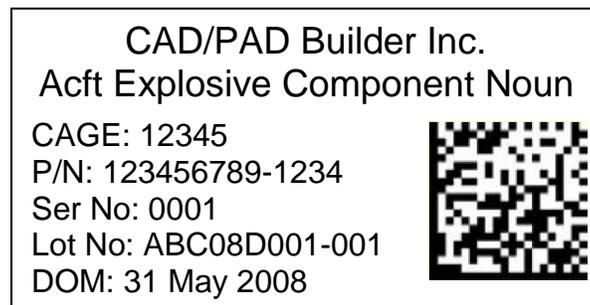


Figure 3. Sample Data Plate/Label

4.2. **CAD/PAD Items Currently Marked With Ink or Laser Etching Directly on the Item.** Item marking shall be modified/arranged to allow space for the incorporation of ink or laser etched MRI per paragraph 3.2. Marking shall comply with MIL-STD-130 and the DoD UID Guide (see figure 4).

CAD/PAD Builder Inc.
Acft Explosive Component Noun
CAGE: 12345
P/N: 123456789-1234
Ser No: 0001
Lot No: ABC08D001-001
DOM: 31 May 2008

Figure 4. Sample of Etched Data

4.3. **CAD/PAD Items Considered to be Too Small for HRI and MRI.** These items shall be physically marked using currently approved methods for HRI. A self-adhesive label shall be supplied in the item inner packaging that includes the minimum HRI (per paragraph 3.1) and the MRI Data Matrix marking (per paragraph 3.2). The label shall be as small as possible (meeting MIL-STD-130 requirements for HRI) and will include only the minimum required data (see figure 5).

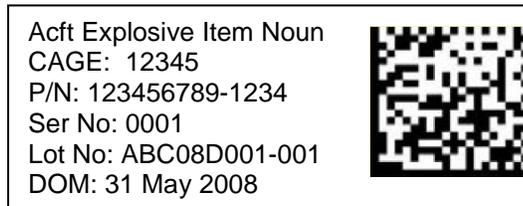


Figure 5. Sample Small Item Data Plate/Label

Note: This will allow the maintainer to scan the MRI from the label and the ability to affix it to the next higher assembly.

5. **Kit Marking Requirements.** Individual components procured and delivered in a “kit” or “ship-set” format shall each be marked with HRI and MRI as identified in sections 3 and 4. The kit containers shall also be marked with HRI and MRI per sections 3 and 4.

Note: Individual components supplied in kits or ship-sets require unique item identifiers. Their markings shall not reflect those identifying the kit or ship-set.

5.1 Only the “kit” or “ship-set” will require data submission into the UID Registry. Data submission for individual components in a kit is not required, as these components were not individually priced as line items when placed on contract.

Note: To meet UID requirements, each kit will be assigned an individual serial number. Kits that are comprised of multiple containers will all be marked with the same serial number.

5.2 “Kits” or “ship sets” will typically be assigned lot numbers coinciding with the oldest individual component in the kit.

6. **Waivers.** Waivers to the UID requirement are not allowed. Requests for waivers to marking methods outlined in this instruction may be considered. Submit requests through appropriate contracting channels.

SPECIAL PACKAGING INSTRUCTION			CODE ID 98747	SPI NO. (TPO) F01-052-8208 SHEET 1 OF 6															
PART OR DRAWING NO. SEE TABLE 1	NATIONAL STOCK NO. SEE TABLE 1	CURRENT REV J	ILL. C. CHARBONEAU CHK. L. OLIVER ENGR. R. McCLOY AUTH. T. LOCK																
ITEM NOMENCLATURE CARTRIDGE, IMPULSE		ORIGINAL DATE 92046																	
MILITARY PRESERVATION IAW MIL-STD-2073			PACKING AS SPECIFIED BELOW AND BILL OF MATERIALS																
SERVICEABLE METHOD: 41 UNSERVICEABLE METHOD: 10 QUP 001 ICQ 000 CLEANING & DRYING: IAW MIL-STD-2073 PRESERVATIVE: N/A			LEVEL SPEC STYLE TYPE CL VRTY GR TR A SEE NOTICE 2 B ASTM-D5118 RSC V3c																
MARKING IAW MIL-STD-129			LEVEL A LEVEL B GROSS CU FT SEE NOTICE 2 1.052 GROSS WT LBS SEE NOTICE 2 10 DESIGN FRAGILITY G 80 80																
SPECIAL MARKINGS: A) SPI NO. F01-052-8208 *MARK THE SPI NUMBER ON ONE SIDE OF THE CONTAINER. B) PROPER SHIPPING NAME: CARTRIDGES FOR WEAPONS, BLANK UN 0014 C) UN POP MARKING:  4G/Y5/S/** USA/DOD/AF70 **THE LAST TWO DIGITS OF THE YEAR DURING WHICH THE PACKAGING WAS MANUFACTURED.			CNTR I.D. LEVEL A: SEE NOTICE 2 LEVEL B: 10 10 16 CNTR O.D. LEVEL A: SEE NOTICE 2 LEVEL B: 10 3/8 10 3/8 16 3/4 ITEM DIM SEE TABLE 1 ITEM WT. SEE TABLE 1																
NOTE: THE ABOVE POP MARKINGS ARE FOR DOD USE ONLY.			REVISIONS																
			<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">LTR</th> <th style="width: 70%;">DESCRIPTION</th> <th style="width: 20%;">DATE</th> </tr> </thead> <tbody> <tr> <td>F</td> <td>TOOK REF -1 OFF & ADDED WOOD STATEMENT</td> <td>01261</td> </tr> <tr> <td>G</td> <td>UPDATED & RETESTED</td> <td>04020</td> </tr> <tr> <td>H</td> <td>UPDATED & RETESTED</td> <td>05306</td> </tr> <tr> <td>J</td> <td>UPDATED WITH NEW WOOD STATEMENT</td> <td>07256</td> </tr> </tbody> </table>		LTR	DESCRIPTION	DATE	F	TOOK REF -1 OFF & ADDED WOOD STATEMENT	01261	G	UPDATED & RETESTED	04020	H	UPDATED & RETESTED	05306	J	UPDATED WITH NEW WOOD STATEMENT	07256
LTR	DESCRIPTION	DATE																	
F	TOOK REF -1 OFF & ADDED WOOD STATEMENT	01261																	
G	UPDATED & RETESTED	04020																	
H	UPDATED & RETESTED	05306																	
J	UPDATED WITH NEW WOOD STATEMENT	07256																	
CLOSURE LEVEL A: SEE NOTICE 2 LEVEL B: IAW ASTM-D1974 SEE MUNITION NOTICES PAGE 2. SEE NOTES PAGE 2.																			
-3	52	SET-UP CARTON	3 X 2 X 3	PPP-B-566 STYLE II, TYPE D, CLASS A, VARIETY 1															
-2	A/R	CUSHIONING	A/R	A-A-1898 GRADE I															
-1	52	BAG	3 X 3 (ID)	MIL-DTL-117 TYPE I, CLASS F, STYLE 1															
P/N	QTY REQD	NOMENCLATURE DESCRIPTION	SIZE: (INCHES UNLESS SPECIFIED) TOLERANCES ON FRAC. ± 1/8, DECIMAL ± .01, ANGLES ± 1°	MATERIAL SPECIFICATION															

DDDPPHM/USA/DOD/AF70/1R93038

SPI NO. F01-052-8208

SPECIAL PACKAGING INSTRUCTION	CODE ID 98747	SPI NO. (TPD) F01-052-8208
ITEM NOMENCLATURE CARTRIDGE, IMPULSE		SHEET 2 OF 6
<p>MUNITION NOTICES</p> <p>NOTICE 1: CLASS 1 (EXPLOSIVE) MATERIAL OWNED BY THE DEPARTMENT OF DEFENSE (DOD) PACKAGED PRIOR TO JANUARY 1, 1990 IN ACCORDANCE WITH THE PACKAGING REQUIREMENTS IN EFFECT AT THAT TIME ARE EXCEPTED FROM THE REQUIREMENTS OF PERFORMANCE ORIENTED PACKAGING (POP) PROVIDED THE PACKAGINGS HAVE MAINTAINED THEIR INTEGRITY AND THE GOODS ARE DECLARED AS GOVERNMENT OWNED GOODS PACKAGED PRIOR TO JANUARY 1, 1990. THIS CLAUSE DOES NOT APPLY TO COMMERCIAL AIR SHIPMENTS. (REF DLAD 4145.41/AFJI 24-210.)</p> <p>NOTICE 2: FOR LEVEL A PACKING REQUIREMENTS: THE LEVEL B PACKS SHALL BE OVERBOXED IN A CONTAINER AS LISTED IN MIL-STD-2073. MARK THE OUTSIDE OF THE OVERBOX "INSIDE (INNER) PACKAGES COMPLY WITH 4G/Y5/S/**." THE SIZE AND WEIGHT OF THE OVERBOX WILL VARY DEPENDING ON THE NUMBER OF ITEMS BEING SHIPPED. USE FILLER PAD OF ASTM-D4727, CF, DOM, GR 275 (OR EQUAL) TO ASSURE A TIGHT FIT IN THE OVERBOX.</p> <p>NOTICE 3: VARIATIONS TO THE PACKAGING REQUIREMENTS OF THE SPI ARE AUTHORIZED IN ACCORDANCE WITH TITLE 49 CFR 178.601(G)(4), VARIATION 4.</p> <p>NOTICE 4: ASSETS PACKAGED IN ACCORDANCE WITH PREVIOUS EDITIONS OF THIS SPI DO NOT REQUIRE REPACKAGING.</p> <p><i>INTERNATIONAL STANDARDS FOR PHYTOSANITARY MEASURES (ISPM No. 15) REQUIREMENTS</i></p> <p>THE FOLLOWING STATEMENT IS IN COMPLIANCE WITH THE UNITED NATIONS-IMPLEMENTED RESTRICTIONS ON SOLID WOOD PACKING MATERIAL (SWPM). THIS REQUIREMENT IS SPECIFICALLY CONCERNED WITH INVASIVE SPECIES SUCH AS THE PINEWOOD NEMATODE. THE STATEMENT BELOW CITES THE REQUIREMENTS IN DETAIL AND COVERS LUMBER FOR BUILDING CONTAINERS AND PALLETS USED FOR DELIVERIES RESULTING IN SHIPMENTS WORLDWIDE (DIRECT, OR THROUGH AIR LOGISTICS CENTERS (ALC), CONTAINER CONSOLIDATION POINTS (CCP), OR OTHER BASES).</p> <p>WOODEN LUMBER, WOODEN PALLET AND PACKAGING/CONTAINER STATEMENT:</p> <p>ALL WOODEN LUMBER, WOODEN PALLETS, AND WOODEN CONTAINERS PRODUCED ENTIRELY OR IN PART OF SOLID WOOD PACKING MATERIAL (SWPM) SHALL BE CONSTRUCTED FROM HEAT-TREATED (HT) MATERIAL (HT 56 DEGREES CENTIGRADE OR 133 DEGREES FAHRENHEIT FOR 30 MINUTES). CERTIFICATION/MARKING IS REQUIRED BY AN ACCREDITED AGENCY RECOGNIZED BY THE AMERICAN LUMBER STANDARDS COMMITTEE (ALSC). FOR REFERENCE DOCUMENTATION, SEE "INTERNATIONAL STANDARDS FOR PHYTOSANITARY MEASURES (ISPM) No. 15." THIS DOCUMENT CAN BE FOUND AT www.ippc.int.</p> <p>NOTES</p> <ol style="list-style-type: none"> 1. USE ADDITIONAL (REF -2) CUSHIONING AS REQUIRED TO FILL ALL VOIDS AND ENSURE A SNUG FIT IN SHIPPING CONTAINER. 2. TOTAL QUANTITY IN SHIPPING CONTAINER IS 52 EACH. 		

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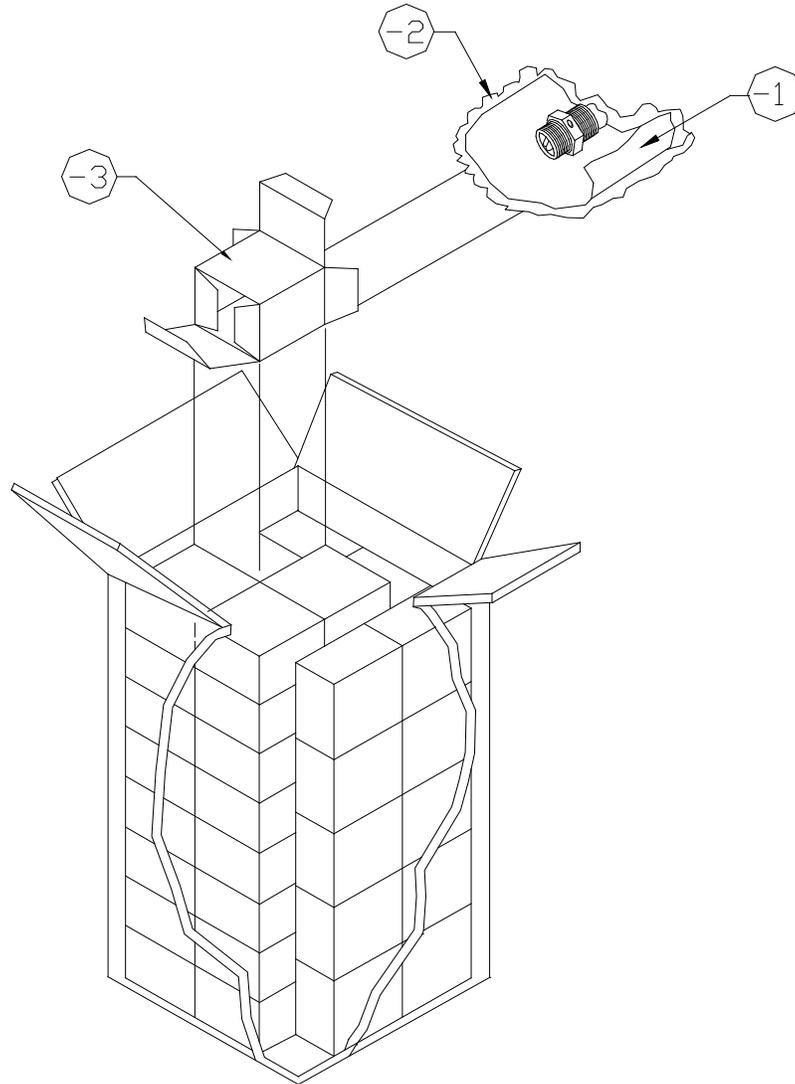


TABLE 1

NOTE: THE FOLLOWING NSN'S SHALL NOT BE MIX-PACED IN THE SAME SHIPPING CONTAINER.

NSN	P/N	EX#	DIMENSIONS	NET WT.	N.E.W.
1377-01-052-8208	1003-24	1988080300	.6 DIA. X 1.1	0.02 LBS.	.0019
1377-01-084-9358	6010600	1989120079	.6 DIA X 1.1	0.02 LBS.	.0002
1377-01-322-0071	9392046-1	1994090144	.6 DIA X 1.1	0.02 LBS.	.0019

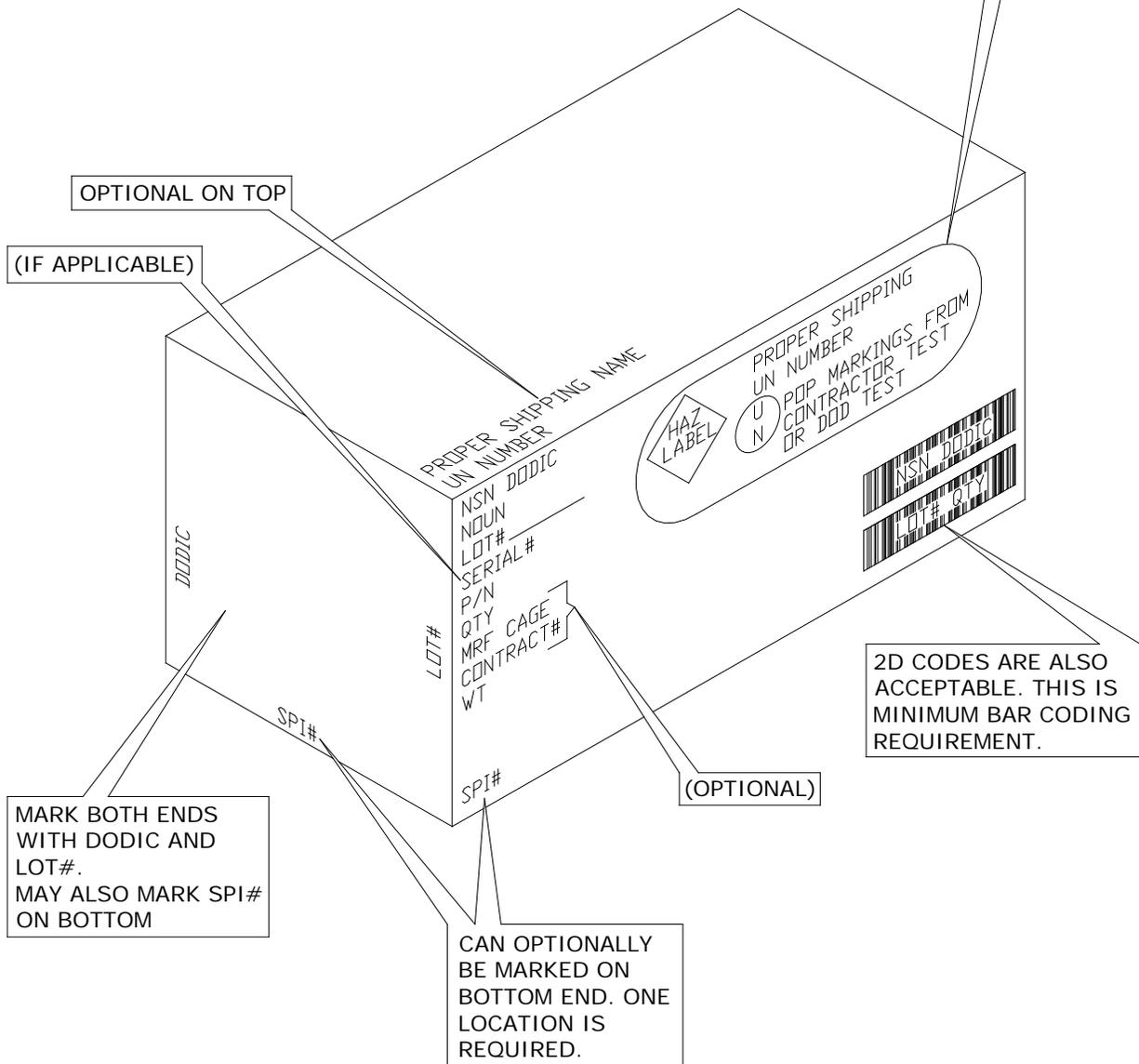
SPECIAL PACKAGING INSTRUCTION	CODE ID 98747	SPI NO. (TPD) F01-052-8208
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ITEM NOMENCLATURE CARTRIDGE, IMPULSE	SHEET 4 OF 6
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ATTACHMENT

TYPICAL OUTER PACKAGE MARKINGS (MIL-STD-129, REF. 5.6.1-5.6.2d)

REQUIRED ON EITHER FRONT OR BACK. CAN BE ANYWHERE ON OPPOSITE SIDE IF SPACE NOT AVAILABLE ON FRONT SIDE. SHOULD BE SEPERATE FROM OTHER MARKINGS.



SPECIAL PACKAGING INSTRUCTION

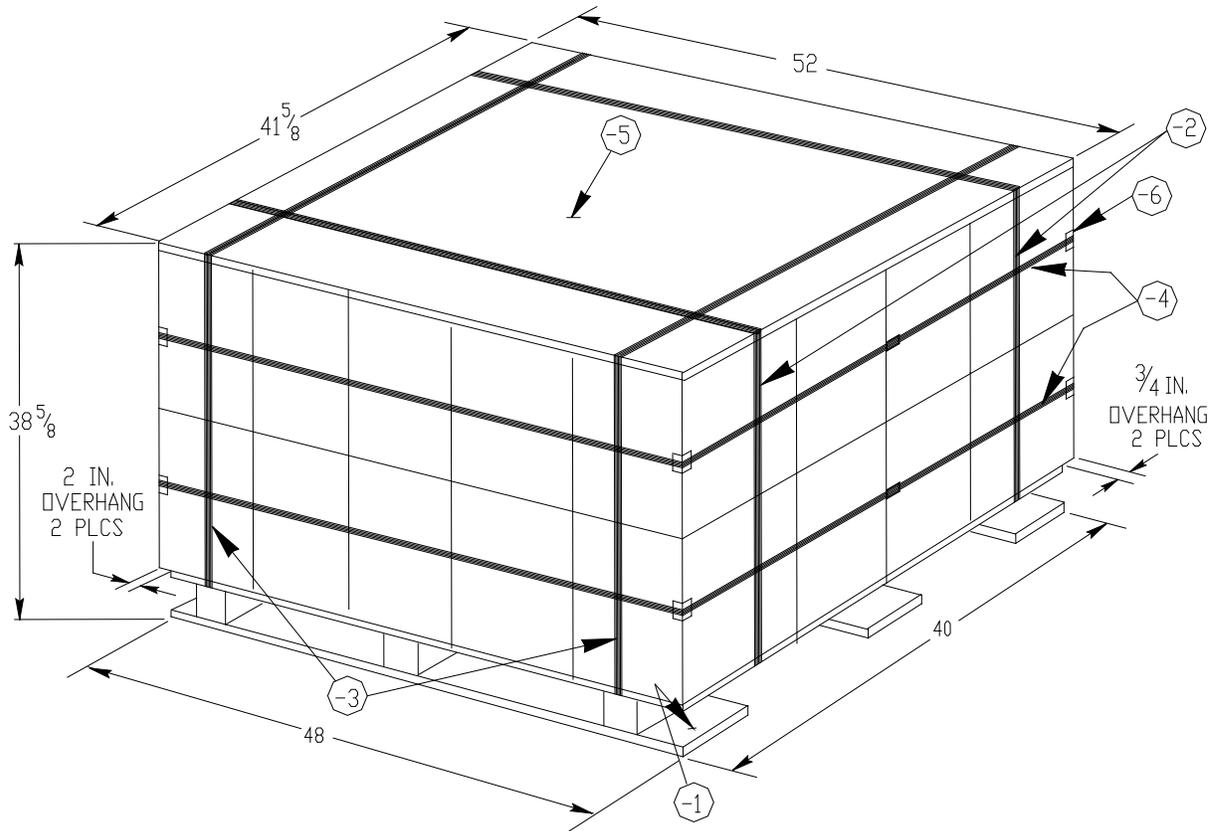
CODE ID
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CARTRIDGE, IMPULSE

SHEET 5 OF 6

PALLETIZATION PROCEDURE FOR LEVEL B PACK



40 BOXES @ 10 LBS = 400 LBS.
NET PALLET WT = 65 LBS
PLYWOOD WT = 16.95 LBS
STRAPPING WT = 1.40 LBS

483.35

CUBE OF PALLETIZED LOAD = 48.3

-6	8	EDGE PROTECTORS		NSN 8135-00-145-0070 (OR EQUAL)
-5	1	PLYWOOD	52 X 41 5/8 X 3/8	A-A-55057 TYPE A
-4	2	STRAPS	190 X 3/4 X .023	ASTM-D-3953 TYPE I, GR 2, REG DUTY, FIN B
-3	2	STRAPS	173 X 3/4 X .023	ASTM-D-3953 TYPE I, GR 2, REG DUTY, FIN B
-2	2	STRAPS	206 X 3/4 X .023	ASTM-D-3953 TYPE I, GR 2, REG DUTY, FIN B
-1	1	PALLET, 4-WAY ENTRY	40 X 48	MIL-P-15011 STYLE 1A, SIZE A, TYPE 1, CLASS I
P/N	QTY REQD	NOMENCLATURE OR DESCRIPTION	SIZE (INCHES UNLESS SPECIFIED)	MATERIAL SPECIFICATION

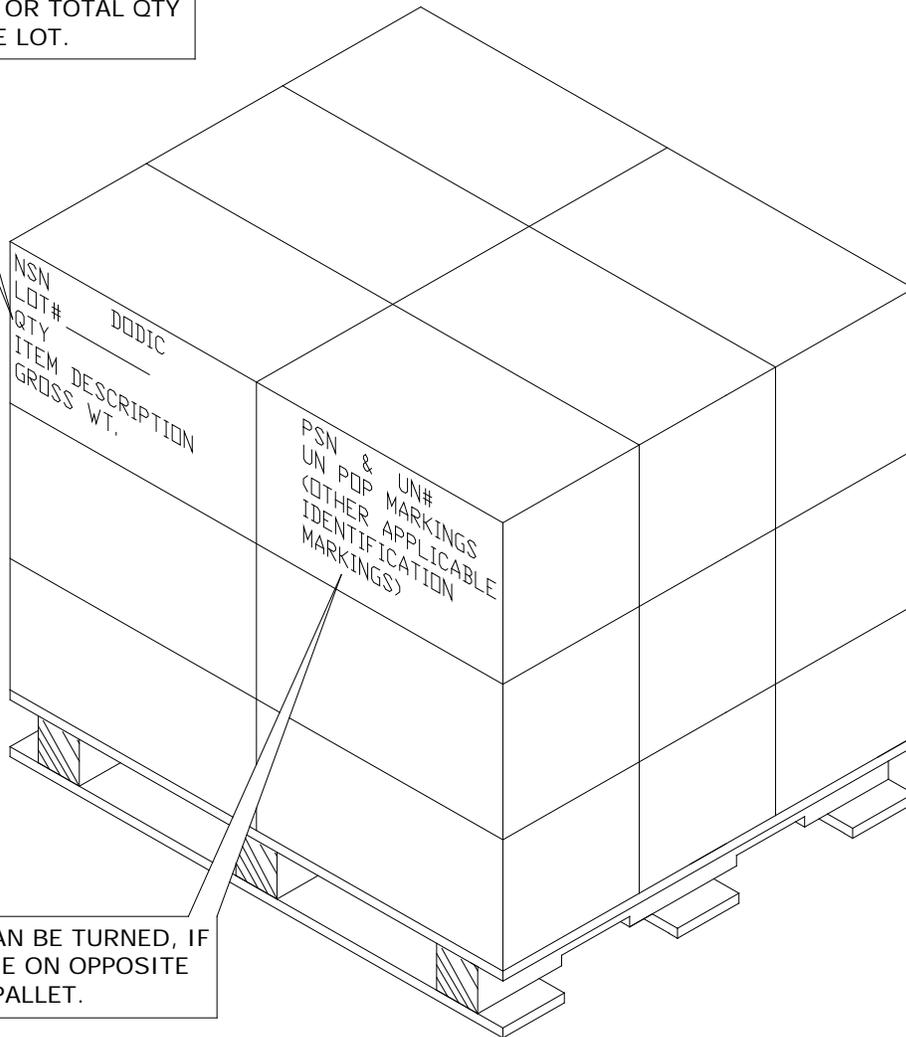
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ITEM NOMENCLATURE CARTRIDGE, IMPULSE	SHEET 6 OF 6
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ATTACHMENT

TYPICAL OUTER PACKAGE MARKINGS
(MIL-STD-129, REF. 5.6.4.1)

BY LOT IF MORE THAN
1 LOT, OR TOTAL QTY
OF THE LOT.



IF BOX CAN BE TURNED, IF
NOT PLACE ON OPPOSITE
SIDE OF PALLET.

- PALLETS (MIL-P-15011):
- MUST BE 4-WAY ENTRY.
 - HEAT TREATED HARDWOOD OR METAL.
 - 40" X 48" UNLESS OTHERWISE REQUIRED (SPI) OR REQUESTED/APPROVED (REQUEST FOR DEVIATION).
- BANDING (ASTM-D3953):
- GALVANIZED BANDING.
 - SIZE DEPENDS ON PACKAGE/PALLET WEIGHT.

AIRMUNITIONS SPECIFICATION

1. Contractor shall contact their nearest Defense Contract Management Agency (DCMA) Office for transportation guidance and assistance for all Foreign Military Sales (FMS) deliveries prior to shipment; and insure that the DCMA provides one information copy of completed Notice of Availability (NOA) including FMS case and requisition numbers: AFLCMC/EBHMB Attn: FMS Transportation by mail to 6043 Elm Lane, Hill AFB, UT 84056-5819, Fax to: (801) 777-1089 or Email OO-ALC/GH Bldg 1246 Transportation@hill.af.mil
2. Department of Defense identification Code MD89, Alt MT76
3. One copy of all shipping documents shall be furnished to 418 SCMS/GULAAC, by mail to: 6038 Aspen Ave, Hill AFB, Utah 84056-5805 or Fax to: (801) 777-5545, and shall identify requisition number, MIPR number and line item.
4. Ammunition Data Cards (ADC) shall be filled out; input in accordance with Attachment 2, Statement of Work- Ammunition Data Cards; and state quantity/serial numbers of lot acceptance test units in the remarks block. **CDRL (DI-MISC-80043)**
5. Items shall be marked in accordance with CAD/PAD Item Marking Instruction Version 1.1, 01 May 2008, reference attached copy.
6. Hazard Class/Division: 1.4
 - Storage Compatibility Group: S
 - DOT Marking: Cartridges, For Weapons, Blank
 - DOT Class: 1.4
 - DOT Label: Explosive, 1.4s
 - UN Serial No. UN0014
 - UN Proper Shipping Name: UN0014, Cartridges for Weapons, Blank, 1.4S, PG II

7. All Engineering Change Proposals (ECP's) Requests for Deviations/Waiver (RFD/RFW) affecting the approved product baseline configuration, acceptance test procedures, or manufacturing process of any item(s) on this contract shall be in accordance with MIL-STD-973. Class I ECP's and Major/Critical RFD's shall be submitted to the responsible Government Engineering Authority for review/disposition by CCB. Class II ECP's and Minor RFD's shall be processed by the Cognizant Government Engineer.

8. Item must pass both gross and fine checks. MIL-STD-883, Method 1014.13 may be used as guidance. The existing leak rate limit established for this item(s) will remain the same. Contractor shall generate a Lot Acceptance Test Plan (LATP/ATP) with an analysis or test results showing compliance for Hill AFB engineering approval at least 90 days prior to commencement of Lot Acceptance Testing allowing for 30 days approval time after submission. **CDRL (DI-QCIC-80553)**

9. If Hexanitrostilbene (HNS) explosive material is used in the manufacture of this item, the HNS shall meet the requirements of Government Document WS5003F (or latest revision), Purchase Description of HNS Explosive; and maximum particle size shall not exceed 250 microns.

10. Lot Acceptance Test Requirements are in accordance with the latest government approved ATP.

11. The contractor shall furnish a Lot Acceptance Test/Inspection Report **CDRL (DI-NDTI-80809)**

12. LOT ACCEPTANCE TEST: In the event of an end item failure, the contractor shall notify the PCO/ACO and Air Force Engineering Organization within 1 business day Air Force Engineering Organization: AFLCMC/EBHJ JPO Div. FAX/E-mail: (801) 586-9220/allen.hancey@hill.af.mil

13. In the event of test failure(s), a Failure Analysis and Corrective Action Report with proposed corrective actions/recommendations is required. **CDRL (DI-SESS-81315)**

14. The age of the energetic materials and components (i.e. ALL explosives, propellants, pyrotechnics, cartridges, and /or initiators) used in the manufacture of these items or sub-components shall not exceed 24 months based on the original manufacturing date. All energetic materials and components must be traceable to the original DoD qualified manufacturer and compliant with the **ITAR part 120 and 121** (http://www.pmdtc.state.gov/regulations_laws/itar.html). Raw (non-blended) ingredients & materials used in blended/mixed energetic materials such as, but not limited to: fuels, oxidizers, binders, curatives, sensitizers, plasticizers, stabilizers etc., shall not exceed 24 months since date of manufacture and comply with original manufacture's MIL-STD/Specification or Government may waive the energetic and constituent material requirements listed above or

portions thereof, on a case-by-case basis (when advantageous to the government) provided the contract or furnishes all details of the reason for the waiver and the age, lot numbers, traceability, and other pertinent information/test data and Certificate of Analysis/Conformance (COA/COC) of the subject materials or components. The waiver (if granted) may be subject to, but not limited to, conditions such as sensitivity testing, stabilizer and analysis and /or dehumidification at vendor's cost.

15. This item is designated as a Critical Safety Item (CSI). Documentation for critical characteristics may be found in the contract, TDP, assembly/inspection procedures or QALI. Other characteristics requiring inspection or special oversight from DCMA: See Quality Assurance Letter of Instruction.

16. The contractor shall provide an advanced Report of Shipment (REPSHIP) to the consignee no later than 24 hours prior to the shipment arrival, and for ammunition shipments no later than two hours after shipment departure. A (REPSHIP) shall include all the following data in accordance with attachment 1.