

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved

OMB No. 0704-0188

The 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 the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. 0001	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER <u> X </u>
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D. SYSTEM/ITEM JAU-25/A Mechanical Act Init (XW52)	E. CONTRACT/PR NO. N0010417NB062	F. CONTRACTOR
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1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM PRODUCT BASELINE	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-81218	5. CONTRACT REFERENCE SEE BLOCK 16	6. REQUIRING OFFICE NSWC IHEODTD, CODE E21
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7. DD 250 REQ DD	9. DIST STATEMENT REQUIRED D	10. FREQUENCY SEE BLOCK 16	12. DATE OF FIRST SUBMISSION 90 DAC	14. DISTRIBUTION		
8. APP CODE N/A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16	a. ADDRESSEE	b. COPIES	
					Draft	Final
					Reg	Repro

16. REMARKS Block 5. Contract Reference SECTION C – Section C - Description and Specifications paragraph 3. Block 9. DISTRIBUTION STATEMENT D. Distribution authorized to the Department of Defense and U.S. DoD contractors only (Critical Technology) (Date of Contract Award). Other requests shall be referred to (NSWC IHEODTD Code E26). WARNING - This document 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 (Title 50, U.S.C., App. 2401 et seq.), as amended. Violations of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DoD Directive 5230.25. Block 10. Required to be submitted once per contract, per item being procured. Block 13. Date of subsequent submission - Revision only required when an approved Engineering Change Proposal (ECP) has changed the contractor's Technical Drawing Package (TDP) for item(s) called out in section C. Block 14. Distribution Addresses: N00174 CAD/PAD Department NSWC IHEODTD Attn: Code E21* 4393 Benson Road Indian Head, MD 20640-5092 *See Section H - Administrative Points of Contact, paragraph 2 for email distribution Cognizant DCMA (Indicated in Block 6 of SF26)	SEE BLOCK 16	0	1	0	
	15. TOTAL	→	0	1	0

G. PREPARED BY Margaret Phillips	H. DATE 7/25/2016	I. APPROVED BY BRUCE W. PIEGOLS	J. DATE 9/14/16
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A. CONTRACT LINE ITEM NO. 0001	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER <u>X</u>
--	------------------------	--

D. SYSTEM/ITEM JAU-25/A Mechanical Act Init (XW52)	E. CONTRACT/PR NO. N0010417NB062	F. CONTRACTOR
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1. DATA ITEM NO. A003	2. TITLE OF DATA ITEM FAILURE ANALYSIS AND CORRECTIVE ACTION REPORT	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) DI-SESS-81315B	5. CONTRACT REFERENCE SEE BLOCK 16	6. REQUIRING OFFICE NSWC IHEODTD, CODE E21
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED D	10. FREQUENCY SEE BLOCK 16	12. DATE OF FIRST SUBMISSION SEE BLOCK 16	14. DISTRIBUTION		
8. APP CODE N/A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16	a. ADDRESSEE	b. COPIES	
					Draft	Final
					Reg	Repro

16. REMARKS	15. TOTAL
Block 5. Contract Reference Section E - Production Lot Test Samples (NSWC IHEODTD) paragraph 7b or Section E Production Lot Test Samples (Contractor testing) paragraph 8b or both.	SEE BLOCK 16
Block 9. DISTRIBUTION STATEMENT D. Distribution authorized to the Department of Defense and U.S. DoD contractors only (Critical Technology) (Date of Contract Award). Other requests shall be referred to (NSWC IHEODTD Code E26).	0
WARNING - This document 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 (Title 50, U.S.C., App. 2401 et seq.), as amended. Violations of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DoD Directive 5230.25.	1
Block 10. Frequency- Is determined by the number of Lot Acceptance Test (LAT) failures.	0
Blocks 12. Date of first submission - An preliminary report is due no later than 15 days after notification of lot failure. A final report is due 30 days after notification of lot failure.	0
Block 13 - Date of Subsequent Submission- NLT 15 days after failure analysis completion of second failed lot and beyond.	0
Block 14. Distribution Addresses: N00174 CAD/PAD Department NSWC IHEODTD Attn: Code E21* 4393 Benson Road Indian Head, MD 20640-5092 *See Section H - Administrative Points of Contact, paragraph 2 for email distribution Cognizant DCMA (Indicated in Block 6 of SF26)	0
	1
	0

G. PREPARED BY Margaret Phillips Margaret Phillips	H. DATE 7/25/2016	I. APPROVED BY BRUCE W. PIEGOLS	J. DATE 8/14/16
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A. CONTRACT LINE ITEM NO. 0001
B. EXHIBIT A
C. CATEGORY: TDP _____ TM _____ OTHER X

D. SYSTEM/ITEM JAU-25/A Mechanical Act Init (XW52)
E. CONTRACT/PR NO. N0010417NB062
F. CONTRACTOR

1. DATA ITEM NO. A004
2. TITLE OF DATA ITEM ACCEPTANCE TEST PLAN
3. SUBTITLE Radiographic test technique and sample plate

4. AUTHORITY (Data Acquisition Document No.) DI-QCIC-80553A
5. CONTRACT REFERENCE SEE BLOCK 16
6. REQUIRING OFFICE NSWC IHEODTD, CODE E21

7. DD 250 REQ DD	9. DIST STATEMENT REQUIRED D	10. FREQUENCY SEE BLOCK 16	12. DATE OF FIRST SUBMISSION SEE BLOCK 16	14. DISTRIBUTION		
8. APP CODE N/A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16	a. ADDRESSEE	b. COPIES	
					Draft	Final
					Reg	Repro
				SEE BLOCK 16	0	1 0

16. REMARKS

Block 5. Contract Reference Section E - CAD/PAD Inspection and Acceptance paragraph 9a for X-RAYS and paragraph 9b if N-RAYS are required.

Block 9. DISTRIBUTION STATEMENT D. Distribution authorized to the Department of Defense and U.S. DoD contractors only (Critical Technology) (Date of Contract Award). Other requests shall be referred to (NSWC IHEODTD Code E26).

WARNING - This document 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 (Title 50, U.S.C., App. 2401 et seq.), as amended. Violations of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DoD Directive 5230.25.

Block 10. Once per contract per line item being procured.

Blocks 12 and 13. Shall be submitted 45 days prior to submission of lot acceptance test samples.

Block 14. Distribution Addresses:

N00174
CAD/PAD Department
NSWC IHEODTD
Attn: Code E21*
4393 Benson Road
Indian Head, MD 20640-5092
*See Section H - Administrative Points of Contact, paragraph 2 for email distribution

Cognizant DCMA (Indicated in Block 6 of SF26)

15. TOTAL	0	1	0
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G. PREPARED BY Margaret Phillips
H. DATE 7/25/2016
I. APPROVED BY BRUCE W. PIEGOLS
J. DATE 9/14/16

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A. CONTRACT LINE ITEM NO. 0001	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER <u> X </u>
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D. SYSTEM/ITEM JAU-25/A Mechanical Act Init (XW52)	E. CONTRACT/PR NO. N0010417NB062	F. CONTRACTOR
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1. DATA ITEM NO. A006	2. TITLE OF DATA ITEM CONFIGURATION MARRIAGE RECORD	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) DI-MISC-81481	5. CONTRACT REFERENCE SEE BLOCK 16	6. REQUIRING OFFICE NSWC IHEODTD, CODE E21
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7. DD 250 REQ DD	9. DIST STATEMENT REQUIRED D	10. FREQUENCY ONE/R	12. DATE OF FIRST SUBMISSION SEE BLOCK 16	14. DISTRIBUTION			
8. APP CODE N/A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16	a. ADDRESSEE	b. COPIES		
					Draft	Final	
						Reg	Repro

16. REMARKS Block 5. Contract Reference-Section E - CAD/PAD Inspection and Acceptance paragraph 23. Block 9. - DISTRIBUTION STATEMENT D. Distribution authorized to the Department of Defense and U.S. DoD contractors only (Critical Technology) (Date of Contract Award). Other requests shall be referred to (NSWC IHEODTD Code E26). WARNING - This document 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 (Title 50, U.S.C., App. 2401 et seq.), as amended. Violations of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DoD Directive 5230.25. Blocks 12 and 13. Due at the time of submission of lot acceptance test samples. Block 14. Distribution Addresses: N00174 CAD/PAD Department NSWC IHEODTD Attn: Code E21* 4393 Benson Road Indian Head, MD 20640-5092 *See Section H - Administrative Points of Contact, paragraph 2 for email distribution Cognizant DCMA (Indicated in Block 6 of SF26)	SEE BLOCK 16	0	1	0
	15. TOTAL	→	0	1

G. PREPARED BY Margaret Phillips	H. DATE 7/25/2016	I. APPROVED BY BRUCE W. PIEGOLS	J. DATE 8/14/16
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A. CONTRACT LINE ITEM NO. 0001	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER <u>X</u>
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D. SYSTEM/ITEM JAU-25/A Mechanical Act Init (XW52)	E. CONTRACT/PR NO. N0010417NB062	F. CONTRACTOR
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1. DATA ITEM NO. A007	2. TITLE OF DATA ITEM FAILURE ANALYSIS AND CORRECTIVE ACTION REPORT	3. SUBTITLE FIRST ARTICLE
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4. AUTHORITY (Data Acquisition Document No.) DI-SESS-81315B	5. CONTRACT REFERENCE SEE BLOCK 16	6. REQUIRING OFFICE NSWC IHEODTD, CODE E21
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED D	10. FREQUENCY SEE BLOCK 16	12. DATE OF FIRST SUBMISSION SEE BLOCK 16	14. DISTRIBUTION		
8. APP CODE N/A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16	a. ADDRESSEE	b. COPIES	
					Draft	Final
					Reg	Repro

16. REMARKS Block 5. Contract Reference SECTION E - CAD/PAD Inspection and Acceptance paragraph 24 and SECTION I - First Article Approval (Government Testing ALT I), Note or SECTION I - First Article Approval (Contractor Testing ALT I), Note. Block 9. DISTRIBUTION STATEMENT D. Distribution authorized to the Department of Defense and U.S. DoD contractors only (Critical Technology) (Date of Contract Award). Other requests shall be referred to (NSWC IHEODTD Code E26). WARNING - This document 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 (Title 50, U.S.C., App. 2401 et seq.), as amended. Violations of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DoD Directive 5230.25. Block 10. Frequency- Is determined by the number of First Article Test (FAT) failures. Blocks 12. Date of first submission - An preliminary report is due no later than 15 days after notification of FAT failure. A final report is due 30 days after notification of FAT failure. Block 13 - Date of Subsequent Submission- NLT 15 days after failure analysis completion of second failed FAT and beyond. Block 14. Distribution Addresses: N00174 CAD/PAD Department NSWC IHEODTD Attn: Code E21* 4393 Benson Road Indian Head, MD 20640-5092 *See Section H - Administrative Points of Contact, paragraph 2 for email distribution Cognizant DCMA (Indicated in Block 6 of SF26)	SEE BLOCK 16	0	1	0
		15. TOTAL →	0	1

G. PREPARED BY Margaret Phillips	H. DATE 7/25/2016	I. APPROVED BY BRUCE W. MEGOLS	J. DATE 7/14/16
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A. CONTRACT LINE ITEM NO. 0001	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER <u> X </u>
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D. SYSTEM/ITEM JAU-25/A Mechanical Act Init (XW52)	E. CONTRACT/PR NO. N0010417NB062	F. CONTRACTOR
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1. DATA ITEM NO. A008	2. TITLE OF DATA ITEM AMMUNITION DATA CARD	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80043B	5. CONTRACT REFERENCE SEE BLOCK 16	6. REQUIRING OFFICE NSWC IHEODTD, CODE E21
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7. DD 250 REQ SD	9. DIST STATEMENT REQUIRED D	10. FREQUENCY SEE BLOCK 16	12. DATE OF FIRST SUBMISSION SEE BLOCK 16	14. DISTRIBUTION		
8. APP CODE N/A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16	a. ADDRESSEE	b. COPIES	
					Draft	Final
					Reg	Repro

16. REMARKS	SEE BLOCK 16	0	1	0
Block 5. Section E - Ammunition Data Cards (ADC) and Material Inspection and Receiving Report paragraph 1.				
Block 9. DISTRIBUTION STATEMENT D. Distribution authorized to the Department of Defense and U.S. DoD contractors only (Critical Technology) (Date of Contract Award). Other requests shall be referred to (NSWC IHEODTD Code E26).				
WARNING - This document 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 (Title 50, U.S.C., App. 2401 et seq.), as amended. Violations of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DoD Directive 5230.25.				
Block 10. Twice per production lot, per item being procured.				
Block 12. A provisionally accepted ADC is due concurrently with LAT samples.				
Block 13. The final ADC is due five days after LAT production lot release to be delivered with each shipment.				
Block 14. Distribution Addresses:				
N00174 CAD/PAD Department NSWC IHEODTD Attn: Code E21* 4393 Benson Road Indian Head, MD 20640-5092 *See Section H - Administrative Points of Contact, paragraph 2 for email distribution				
Cognizant DCMA (Indicated in Block 6 of SF26) Hard copy to be included with each shipment				
15. TOTAL → 0 1 0				

G. PREPARED BY <i>Margaret Phillips</i> Margaret Phillips	H. DATE 7/25/2016	I. APPROVED BY <i>Bruce W. Piegols</i> BRUCE W. PIEGOLS	J. DATE 9/14/16
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INSTRUCTIONS FOR COMPLETING DD FORM 1423

(See DoD 5010.12-M for detailed instructions.)

FOR GOVERNMENT PERSONNEL

FOR THE CONTRACTOR

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.

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.

CAD/PAD Item Marking Instruction

Prepared By
CAD/PAD Joint Program Office

784CBSG/GJ
Code E25MA, NSWC Indian Head

Version 1.2
Dated 3 April 2016



Table of Contents

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2. Scope	Page 5
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4. Placement of UID Markings	Page 8
5. Items delivered in kit format	Page 9
6. Waivers	Page 9

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.

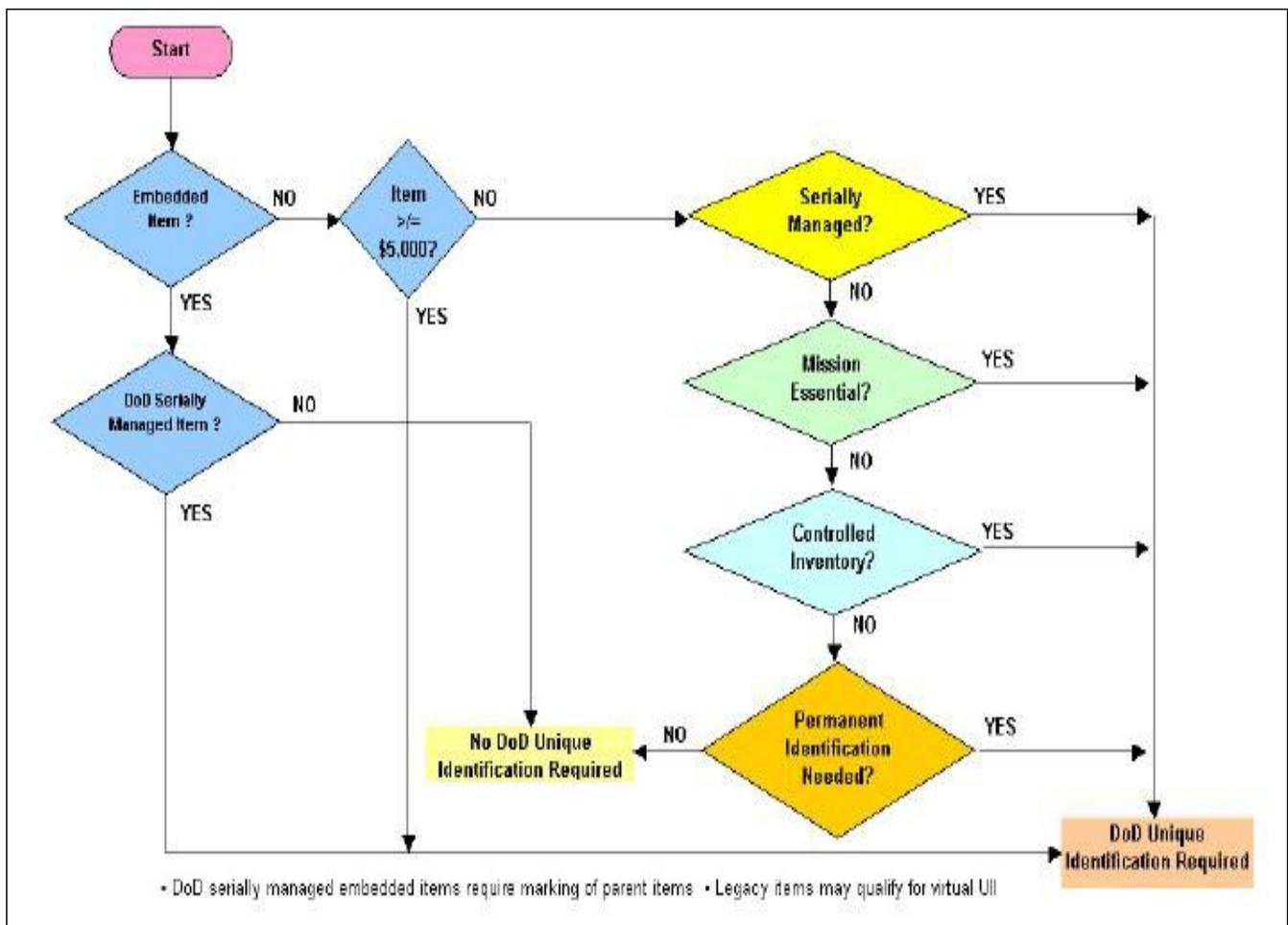


Figure 1. Determining UID Requirement

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. A new lot number and serial number shall also be assigned for "remanufactured" CAD/PAD components as opposed to adding a suffix to the original lot number for a "rework", overhaul or renovation" effort.
-

NOTE: The requirement for unique lot number has been deleted. DOM is not required if the lot number contains the DOM as identified in MIL-STD-1168.

- 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

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

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)

[> ^R_S 06 ^G_S 17V 12345 ^G_S 1P 123456789-ABCDEFGH ^G_S S 12345678 ^G_S 30T ABC06D123-001 ^G_S 4D 08151 ^R_S ^E_OT

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).

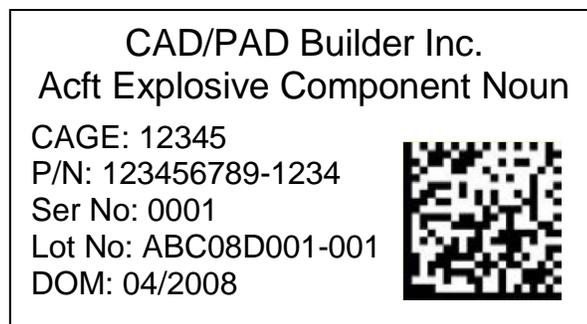


Figure 3. Sample Data Plate/Label

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: 04/2008

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.

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Ammo Card Listing

**** AMMUNITION DATA CARD ****

NSN 1377009991212 M009 (NSN AND DODIC WITH NO DASHES)
NOMENCLATURE CARTRIDGE IMPULSE, MK 99 MOD 1 (INCLUDE MODEL, SEE SECT B of KT)
LOTNUMBER PQP06A008-001 (PER MIL-STD-1168)
SERIAL NUMBER (ENTER N/A. SERIAL NUMBER INFORMATION WILL BE ENTERED IN REMARKS FIELD)
CONTRACTOR PROVEN QUALITY PRODUCTS, INC
NET QUANTITY 2722 (QTY AVAILABLE TO SHIP AFTER LATS, RETAINS AND REJECTS REMOVED FROM LOT)
PACKING 1 PER BAG/2 PER FBB/20 MAX PER WOODEN BOX /SPI 01-0633165 (GIVE DETAILS AND INCLUDE SPI OR PACKAGING DWG NUMBERS)
CONTRACT/ORDER NUM N0010406CK999 (PRIME CONTRACT NUMBER - NO DASHES)
PURCHASE ORDER NUM (SUBCONTRACTOR PURCHASE ORDER NUMBER FROM THE PRIME CONTRACTOR)
DRAWING NUMBER 951AS111 (USE GOVT DWG #; IF NONE USE KTR ITEM P/N; SEE SECT B OF KT)
* DRAWING TAB
DRAWING REV - (IF NONE PUT "N/A")
SPEC NUM MIL-C-99999
SPEC REV C
SPEC AMEND 1
DATE STARTED 01/01/2006 (MM/DD/YYYY; MUST MATCH MONTH LETTER IN LOT NUMBER; DATE PRODUCTION LOADING OR ASSEMBLY STARTED, UNLESS OTHERWISE SPECIFIED BY PRODUCT ASSEMBLY DRAWING OR SPECIFICATION)
DATE COMPLETED 04/20/2006 (DATE LOT WAS COMPLETED)
DATE INSPECTED 05/01/2006 (DATE LOT PRESENTED TO DCM QAR FOR INSPECTION/SAMPLES)
* LINE
* ZONE WEIGHT
CHARGE WEIGHT .000260 LB (MEASURING UNIT IN POUNDS)
* INDEX OF POWDER
* MAX PACK DEPTH (US)
* MAX PACK DEPTH (METRIC)
* PROD PACK DEPTH
EXPLOSIVE WT PKG .1040 LB (N.E.W. FOR ALL UNITS CONTAINED IN OUTER MAX PACK)
TEST SAMP 47 (TOTAL # OF LAT SAMPLES INCLUDING RETAINS; SEE NOTES KTR TESTED)
TS-SENT-TO-PG 4 (TEST ACTIVITY CODE WHERE LATS ARE SENT TO; PULL DOWN SCREEN)
TS-DATE-SHIPPED 06/29/2006 (MM/DD/YYYY)
TS-MODE-SHIPPED FEDEX (METHOD OF SHIPMENT)
DOT NOMENCLATURE CARTRIDGES, POWER DEVICE (UN PROPER SHIPPING NAME, SECT D)
HAZARD CLASS 1.4C (HAZ CLASS & COMPATIBILITY CODE PER SECTION D OF CONTRACT)
GOV'T QA ACTIVITY 039 (DCM ACTIVITY CODE FOUND IN WARP MANUAL PGs 57-58)
DISPOSITION PA (PA - PENDING ACCEPTANCE {LATS}; AC - ACCEPTED LOT (APPROVAL LTR))
GOV'T INSPECTOR JOE G. DCAS
DATE SIGNED 06/25/2006 (DATE SIGNED BY GOV'T INSPECTOR)

COMPONENTS ***** (LIST ALL COMPONENTS, **NOT** JUST EXPLOSIVES, INCLUDING EXPLOSIVE SUB-ASSEMBLY COMPONENTGS WHEN NOT COVERED BY A SEPARATE AMMUNITION DATA CARD)

COMPONENT	DRAWING NO. (INCLUDE DWG REV, SHOW N/A FOR NO REV)	MANUFACTURER	DATE	LOT NUMBER (OF COMPONENT)	QTY
O-RING	MS3324-8 A	HANCOCK, INC	1205	23026	2775
ADHESIVE	MMM-A-134B	3M SEALANTS	0405	36669	AR
PRIMER MIX 878	2240790C	PQP, INC	0305	PQP123	2.5 LB
PROPELLANT	855AS222A	GFM	1205	HES 5806	350 GM

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CLOSURE DISC	875AS444A	ALVIN, CORP	0805	33217	2775
FIRING PIN	2513655B	SHARP, INC	0605	35889	2775
SPRING	5558990B	SLINKY SPRINGS	0705	77899	2775
SHEAR PIN	838AS444B	REIMER PINS	0705	99787	2775
SET SCREW	2246777B	SCREWS UNLIMITED	0505	06778	2775
RING, LOCK	777AS444A	BOYD RINGS, INC	0605	87877	2775
CTG BODY	777AS888C	KRIKSTAN BODIES	1105	55676	2775
PRIMER	877AS999B	GFM	0605	OLIN 593	2775

REMARKS *******(LIST USEFUL LOT INFORMATION NOT ACCOUNTED FOR IN OTHER ADC FIELDS)**

1. (LOT S/N RANGE: 001 THRU 2775)
2. LAT qty x-ea S/N's: 002, 022, 034, 145, 179, 222, 345, 478, 666, 788, 998, 1005, 1035, 1165, 1245, 1356, 1599, 1655, 1788, 1889, 2190, 2001, 2069, 2100, 2267, 2345, 2544, 2699, 2701, and 2722.
3. Retain S/N's: 003,033 and 200.
4. REJECT S/N's: 175, 435, 1050, and 2233.

NOTE: AN ACCURATE AND UNDERSTANDABLE ACCOUNTING OF ENTIRE LOT BY SERIAL NUMBER IS REQUIRED. TERMS SUCH AS "ATTRITION", "EXCESS" OR "RESIDUAL" CAUSE CONFUSION AND SHALL NOT BE USED. TENSILE TEST SPECIMENS FOR LINEAR PRODUCTS SHALL BE IDENTIFIED BY SERIAL NUMBER.

5. LOT REWORKED FOR SHEAR PINS PER APPROVED REWORK PROCEDURE # PQP RW06-001.

WAIVER AND DEVIATION DATA ***** **(LIST ALL INDIVIDUALLY, DO NOT GROUP; LIST APPROVAL # AND BRIEF DESCRIPTION)**

6. RFW WAIVER # FY06-W111; SIX UNITS FAILED PMAX REQUIREMENT OF 3100 PSI WITH WORST CASE BEING 2979 PSI.
7. RFD DEVIATION FY06-D115; ALLOWS THE USE OF ALTERNATE MATERIAL (BRASS) IN PLACE OF CHIPBOARD FOR THE CARTRIDGE WAD.

=====
**** ADDITIONAL AMMO DATA CARD HELPFUL HINTS/REFERENCE NOTES ****

THE ABOVE IS MADE UP OF DIFFERENT LOT SCENARIOS TO PROVIDE EXAMPLES. THIS IS MEANT TO BE USED AS A GUIDE TO HELP REMOVE FRUSTRATION AND PROVIDE SOME CONSISTENCY FOR THE INPUTTERS AND THE REVIEWERS. IT WILL NOT ADDRESS ALL SITUATIONS. FOR MORE DETAILS GO TO THE WORLDWIDE AMMUNITION-data REPOSITORY PROGRAM (WARP) USER'S MANUAL ON THE WARP WEBSITE BELOW. IF STILL UNSURE, SEEK ADDITIONAL GUIDANCE FROM TECHNICAL ACTIVITY IN CONTRACT (KT). (NOTE: TO ACCESS WARP, YOU MUST HAVE A CAC OR PURCHASE AN ECA THROUGH A GOVERNMENT APPROVED VENDOR SUCH AS IdenTrust (<http://identrust.com/warp/>)).

WARP WEBSITE - <https://mhpwarp.redstone.army.mil>

AMMUNITION DATA CARD (ADC) SERVES AS A "BIRTH CERTIFICATE" FOR LOT - GIVES ALL DETAILS OF LOT MANUFACTURE AT FINGERTIPS. USED FOR MALFUNCTION INVESTIGATION AND

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AMMUNITION RECLASSIFICATION. INCORRECT OR INCOMPLETE INFORMATION ON ADC'S COMES DOWN TO A SAFETY ISSUE.

AMMUNITION DATA CARD IS NOT INTENDED TO IDENTIFY SPECIFIC SHIPMENTS WITHIN A GIVEN LOT.

* DENOTES FIELDS NOT REQUIRED FOR CADs/CTGs

PACKING: THERE ARE 2 LINES AVAILABLE SO GIVE SPECIFIC DETAILS OF HOW ITEMS WERE PACKED INCLUDING INNER, INTERMEDIATE (if required) AND OUTER PACKAGING. INCLUDE NUMBER OF UNITS IN EACH TYPE OF PACKAGING CONTAINER FOR THE NORMAL MAXIMUM PACKAGING CONFIGURATION. INCLUDE SPI OR PACKAGING DRAWING NUMBER(s).

ABBREVIATIONS: LB = POUNDS, GR = GRAINS, GM = GRAMS, AR = AS REQUIRED

IF TESTED AT CONTRACTOR'S FACILITY - PUT TOTAL NUMBER (INCLUDING RETAINS) OF SAMPLES IN THE "TEST SAMP" FIELD AS STATED IN THE CONTRACT AND THEN UNDER "REMARKS" PUT # OF RETAINS SHIPPED TO NSWC IHD; FOR EXAMPLE: 45 UNITS TESTED AT CONTRACTOR'S FACILITY AND 2 RETAINS SHIPPED TO NSWC INDIAN HEAD ON 2/19/2006. FOR "TS-SENT-TO-PG" USE ALPHA "O" WHICH DESIGNATES "ON-SITE FACILITY"(PRIVATE CONTRACTOR ONLY).

DIFFERENCE BETWEEN THE LAT AND PRODUCTION LOT ADC - THE ONLY DIFFERENCES BETWEEN THE LAT AND PRODUCTION LOT ADC SHOULD BE THE DISPOSITION LINE FROM "PA" TO "AC" **UNLESS** THERE ARE REJECTED SERIAL NUMBERS OR WAIVERS/DEVIATIONS THAT NEEDS TO BE ADDED IN THE APPROPRIATE SECTIONS.

EXPLOSIVE SUB-COMPONENTS- CARTRIDGES (CTGs), INITIATORS, ETC. NOT MANUFACTURED BY THE END ITEM MANUFACTURER SHALL HAVE THEIR OWN ADC. USE END ITEM NSN & DODIC.

THERE ARE TWO OPTIONS FOR SUBCONTRACTED EXPLOSIVE ITEMS:

1. IF THERE IS A FLOW DOWN REQUIREMENT FROM THE PRIME TO PREPARE DATA CARDS AND THE SUBCONTRACTOR USES THE WARP PROGRAM - THE SUBCONTRACTOR WOULD USE THE PURCHASE ORDER NUMBER FROM THE PRIME CONTRACTOR IN THE PURCHASE ORDER NUMBER FIELD AND WOULD ENTER THE PRIME CONTRACT NUMBER IN THE CONTRACT/ORDER NUMBER FIELD. GARA/QAR FOR THE SUBCONTRACT WOULD NOT HAVE OVERSIGHT OF THE PRIME CONTRACT NUMBER.

2. IF THE SUBCONTRACTOR IS NOT ABLE TO USE THE WARP SYSTEM FOR THE DATA CARDS THEN THEY WOULD PROVIDE THE PRIME CONTRACTOR WITH THE INFORMATION AND THE PRIME WOULD ENTER THE INFORMATION ON THEIR DATA CARD.