

DATA ITEM DESCRIPTION			Form Approved OMB No. 0704-0188	
2. TITLE ENGINEERING DOCUMENTATION INFORMATION		1. IDENTIFICATION NUMBER DI-EDRS- 80410		
3. DESCRIPTION / PURPOSE 3.1 The Engineering Documentation Information contains four distinct types of records. They are the Document Description Record (DDR), the Part Description Record (PDR), the Structure Record (STR) and the Manufacturer's Description Record (MDR). 3.2 The Engineering Documentation Information is used to build an engineering data base.				
4. APPROVAL DATE (YYMMDD) 870811	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) G/Y223	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE	
7. APPLICATION / INTERRELATIONSHIP 7.1 This data item description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement for these data included in the contract. 7.2 This DID is applicable to the acquisition of systems and equipments. 7.3 This DID supersedes DI-E-5331D.				
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS		9b. AMSC NUMBER G4179
10. PREPARATION INSTRUCTIONS 10.1 <u>Reference documents.</u> The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments, notices, and revisions, shall be as specified in the contract. 10.2 <u>Specific instructions:</u> 10.2.1 One DDR shall be prepared for each drawing, (assembly, subassembly, or part), standard, or other documents used in the fabrication or maintenance of the equipment. 10.2.2 One PDR shall be prepared for each assembly or part. PDR shall not be prepared for reference documents. 10.2.3 One STR shall be prepared for each application of each item used in the fabrication, operation, or maintenance of the equipment. 10.2.4 At least one MDR shall be prepared for any part or assembly that is an Altered Item (TYPDWG=A in the DDR), Selected Item (TYPDWG=V in the DDR), Source Control (TYPDWG=S in the DDR), or a Specification Control Item (TYPDWG=C in the DDR). Additionally, an MDR shall be prepared for any part or assembly that is a Design Control Repair Part (TYPDWG=D in the DDR) that has a suggested source of supply. 10.3 <u>Content requirements:</u> 10.3.1 <u>Document description record.</u> The record shall contain any of the following data that applies to the document: (Continued on Page 2)				
11. DISTRIBUTION STATEMENT <u>DISTRIBUTION STATEMENT A:</u> Approved for public release; distribution is unlimited.				

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Block 10, Preparation Instructions (Continued)

10.3.1.1 DOCNUM - Document number. The DOCNUM is the unique number used to identify that document.

10.3.1.2 CODIDT - Code identification. Enter the appropriate code for the Contractor and Government Entity (CAGE). The codes are found in the Federal Supply Code for Manufacturers Handbook, H4-1 and H4-2.

10.3.1.3 PLCLASS - Parts list classification. PLCLASS is a one letter code, applicable only to assemblies, representing the classification of the parts lists for the document. ("T" for top secret, "S" for secret, "C" for confidential, and "U" for unclassified.)

10.3.1.4 PLRLEV - Parts list revision level. The PLRLEV is a one or two letter code representing the parts list revision level.

10.3.1.5 REVLEV - Revision level. The REVLEV is a one or two letter code representing the graphics revision level.

10.3.1.6 NUMSHT - Number of sheets. NUMSHT is a one to three digit value representing the total number of sheets of a document with a document number beginning with 'ON'. 1/

10.3.1.7 RIGHTS. Rights is a single letter code representing the Government's rights to a document, ("L" for limited and "U" for unlimited).

10.3.1.8 DWGSIZ - Drawing size. The DWGSIZ is a one letter code representing the dimensions of the drawing in accordance with 101.1 of DOD-STD-100.

10.3.1.9 SECDWG - Security classification of drawing. SECDWG is a one letter code representing the classification of the document, (T, S, C, or U).

10.3.1.10 TITDOC - Title of document. The TITDOC is a description of the document, as it appears in the title block of the document. Document titles shall be limited to 23 characters in length. Abbreviations in accordance with MIL-STD-12 shall be used.

10.3.1.11 TYPDWG - Type of drawing. TYPDWG is a one letter code describing Control drawings. The codes are:

- A - Altered Item
- V - Selected Item
- S - Source Control
- C - Specification Control
- D - Design Control Repair Part 2/

1/ When the numbering of engineering documentation uses ON, the character O is a numeric character.

2/ NOTE: TYPDWG=D applies only to parts or assemblies which have a suggested source of supply and are not Altered, Selected, Source, or Specification Control Items.

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Block 10, Preparation Instructions (Continued)

10.3.1.12 MRVLEV02-MRVLEV99 - Revision levels for multisheet documents. MRVLEV0 through MRVLEV99 are one or two letter codes representing the revision levels for the second through the ninety-ninth sheets respectively of a multisheet document.

10.3.2 Part description record. The record shall contain all of the following data as it applies to the part or assembly.

10.3.2.1 DOCNUM - (see 10.3.1.1)

10.3.2.2 PRTDSC - Part description. The PRTDSC is a description of the part as it appears in the title block or field of the document. Part descriptions shall be limited to 23 characters in length. Abbreviations in accordance with MIL-STD-12 shall be used.

10.3.2.3 MNTINON - Maintenance/non-maintenance. MNTINON is a one letter code, M or N.

M - Maintenance Part - A maintenance part is defined as any part or assembly which needs no further fabrication or finishing prior to replacing the part. Maintenance parts include all assemblies, all electrical components, all name, warning, and instruction plates, finished brackets, and fasteners. ^{1/}

N - Non-Maintenance Part - A Non-Maintenance Part is defined as any part which must be further finished prior to replacement such as unfinished brackets which must be welded or drilled, bare printed wiring boards, or bulk material such as solder.

10.3.2.4 PRINUM - Part number. The PRINUM is the unique number used to identify the part. In the event that specifications do not provide guidelines for assigning the part number, contact the contracting officer.

10.3.2.5 SECPRT - Security classification of part. SECPRT is a one letter code applicable only to NSA assemblies and parts, (i.e. ON DOCNUM) ^{2/} representing the security classification of the part. (T, S, C, or U).

10.3.3 Structure record. The record shall contain any of the following data that applies to the part of reference document.

10.3.3.1 DOCUSE - Document use code. DOCUSE is a two letter code which indicates whether the STR is for an assembly, subassembly, piece part, or a reference document. The Document Use Codes that will be used are in Table I.

^{1/} NOTE: An exception to these rules is wire. Wire which must meet special requirements and or specifications will always be coded as a Maintenance Part, MNTINON=M.

^{2/} When the numbering of engineering documentation use ON, the character O is a numeric character.

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Block 10, Preparation Instructions (Continued)

TABLE 1. Document use codes

DOCUMENT USE	CODE
DATA LIST (see 10.5)	DL
SEPARABLE ASSEMBLY	1A
INSEPARABLE ASSEMBLY	3A
PIECE PART 1/	1F
MAGNETIC STORAGE MEDIA	MM
REFERENCE DOCUMENT (with ON number)	RF
REFERENCE DOCUMENT (with non-ON number)	RS
i.e.: MILITARY SPECIFICATIONS	
FEDERAL SPECIFICATIONS	
INDUSTRIAL SPECIFICATIONS	
NSA SPECIFICATIONS	
USAF SPECIFICATIONS	
JAN SPECIFICATIONS	

1/ NOTE: Any piece part, (whether ON, Mil number, or any other number), has a DOCUSE of 1F.

10.3.3.2 DOCNUM - (see 10.3.1.1)

10.3.3.3 NXTASY - Next (higher) assembly. For a part or assembly, the NXTASY is the part number (PRINUM) of the next higher assembly. For any reference document, the NXTASY is the document number (DOCNUM) of the drawing that references the reference document. For top assemblies, the NXTASY is the part number prefixed by the two letter code 'DL'. (see 10.5).

10.3.3.4 UNITSS - Units. UNITSS is a two letter code, applicable only to parts (piece parts and assemblies), representing the units of measurement for the part.

EA - EACH
 FT - FEET
 IN - INCHES
 LB - POUNDS
 CM - CENTIMETERS
 MR - METERS
 KG - KILOGRAMS
 AR - AS REQUIRED

10.3.3.5 QTASY - Quantity in (next) assembly. QTASY is a one to four digit number, applicable only to parts, representing the number of units of the part used in the next higher assembly.

10.3.3.6 PRINUM - Part number. (see 10.3.2.4) 1/

1/ NOTE: Structure Records for Reference Documents do not have a PRINUM.

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10.3.3.7 FNDNUM - Find number. FNDNUM is the find number of the part as it appears on the drawing of the next higher assembly.

10.3.3.8 REFDES - Reference designators. The REFDES are the reference designators for the part or assembly as they appear on the drawing of the next higher assembly. 1/

10.3.4 Manufacturer's description record. The record shall contain the following data:

10.3.4.1 PRINUM - Part number (see 10.3.2.4).

10.3.4.2 VENCOD - Vendor code - The VENCOD is a five digit CAGE code identifying the manufacturer of the part. The codes are found in the Federal Supply Code for Manufacturers Handbook, H4-1 and H4-2.

10.3.4.3 MFRPRT - Manufacturer's part number. The MFRPRT is the unique number used by the manufacturer to identify the part.

10.4 Formal requirements.

10.4.1 The data required shall be on one magnetic tape that conforms with Federal Specification W-T-0051 requirements. The tape shall be on a 9-track tape drive at a density of 1600 BPI. EBCDIC character code with odd parity shall be used. Each logical record shall be 258 characters long with 20 logical records per physical record, (i.e. 5160 characters per physical record). There shall be no internal tape marks. The tape shall be marked externally indicating the above specifications including which of the following formats are used.

10.4.2 Document Description Record (DDR):

<u>POSITION</u>	<u>FIELD NAME</u>	<u>COMMENT</u>
1		enter '1'
2-21	DOCNUM	left justify
22-26	CODIDT	left justify
27	PLCLASS	
28-29	PLRLEV	left justify
30-31	REVLEV	left justify
32-34	NUMSHT	left justify
35	RIGHTS	
36	DWGSIZ	
37	SECDWG	
38-60	TITDOC	
61	TYPDWG	

1/ NOTE: One unique reference designator shall exist for each occurrence of the part or assembly on the next higher assembly (e.g. If a resistor is used ten times in an assembly (i.e. QTASY=10) then there will be ten Reference Designators, (R1 R2, ..., R10)).

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<u>POSITION</u>	<u>FIELD NAME</u>	<u>COMMENT</u>
62-257	MRVLEV02-MRVLEV99	left justify REVLEVs for sheet two in position 62-63, sheet 99 in position 256-257. MRVLEV100 and above shall be submitted as a supplementary listing.
258		blank

10.4.3 Part Description Record (PDR):

<u>POSITION</u>	<u>FIELD NAME</u>	<u>COMMENT</u>
1	enter '2'	
2-21	DOCNUM	left justify
22-44	PRTDSC	left justify
45 MINON		
46-65	PRINUM	left justify
66-85		blank
86 SECPRT		
87-258		blank

10.4.4 Structure Record (STR):

<u>POSITION</u>	<u>FIELD NAME</u>	<u>COMMENT</u>
1	enter '3'	
2-3	DOCUSE	
4-23	DOCNUM	left justify
24-43	NXTASY	left justify
44-45	UNITSS	
46-49	QTYASY	left justify
50-69	PRINUM	left justify
70-72	PNDNUM	left justify
73-103		blank
104-258	REFDES	left justify the first partial reference designator (PRD) in positions 140-108, the second PRD in positions 109-113, etc., through the thirty first PRD in positions 254-258. The thirty second and above PRD shall be submitted as a supplemental listing.

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10.4.5 Manufacturer's Description Records (MDR):

POSITION	FIELD NAME	COMMENT
1	enter '4'	
2-21	PRINUM	left justify
22-26	VENCOD	left justify
27-46	MFRPRT	left justify
47-258		blank

10.5 Special records.

10.5.1 Each top assembly shall have the following special DDR prepared in addition to the regular DDR described in 10.3.1.

DOCNUM = DOCNUM of top assembly prefixed by the two letter code 'DL'
 TITDOC = TITDOC of top assembly

10.5.2 Each top assembly shall have the following special PDR prepared in addition to the regular PDR described in 10.3.2.

DOCNUM = DOCNUM of top assembly prefixed by the two letter code 'DL'
 PRINUM = PRINUM of top assembly prefixed by the two letter code 'DL'
 PRITDSC = PRITDSC of the top assembly