

DATA ITEM DESCRIPTION			Form Approved OAS No 0704-0188	
2. TITLE COMPUTER SOFTWARE FLOWCHART		1. IDENTIFICATION NUMBER DI-MCCR- 80491		
3. DESCRIPTION / PURPOSE 3.1 The Computer Software Flowchart describes preparation requirements for flowcharts that provide graphic portrayals of the logic design and logic steps that computer software follow.				
4. APPROVAL DATE (YYMMDD) 871123	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) G/R	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 as delineated in the contract. 7.2 This DID supersedes DI-H-5201.				
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS		9b. AMSC NUMBER 64271
10. PREPARATION INSTRUCTIONS 10.1 Reference document. The applicable issue of the document cited herein, including its approval date and dates of any applicable amendments, notices, and revisions, shall be as specified in the contract. 10.2. <u>General requirements.</u> 10.2.1 <u>Functional flowchart.</u> Depict overall logic design, operation, and information flow. Limit to one page, when possible. 10.2.2 <u>General flowchart.</u> Depict major logic steps, operations, and information flow. Limit to two pages and not more than 30 representative symbols. 10.2.3 <u>Detailed flowchart.</u> Depict processing being performed in the sequence of operation and all branch and decision points which fulfill the objectives of each of the major logic steps shown in the general flowchart. 10.2.3.1 <u>Duplicate instructions.</u> Depict duplicate sets of instructions for a procedure by a single sequence of symbols with appropriate annotations. 10.3 <u>Format.</u> 10.3.1 <u>Functional and general flowcharts.</u> Prepared on one side only of white bond paper 8 1/2 x 11 inches with a 1 1/4-inch margin on left side and minimum of 3/4-inch margin on all other sides. <p style="text-align: right;">(Continued on Page 2)</p>				
11. DISTRIBUTION STATEMENT  <u>DISTRIBUTION STATEMENT A.</u> Approved for public release; distribution is unlimited.				

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**Block 10, Preparation Instructions (Continued)**

**10.3.2 Detailed flowcharts.** Prepared on two sizes of paper. First size is prepared in accordance with 10.3.1. Second size prepared on 22 x 34-inch paper and includes all flow on one sheet.

**10.3.3 Identification.** All flowcharts shall contain the following identification on upper right hand corner of page.

10.3.3.1 Program number.

10.3.3.2 Program name.

10.3.3.3 Programmer's name.

10.3.3.4 Date and revision number.

10.3.3.5 Description.

**10.3.4 Number of pages.** The page number (and total number of pages) shall be applied in center of lower margin.

**10.3.5 Table of contents.** Used for multiple page flowcharts. Indicates each program included in the document and shall divide each into its separate activities, showing page locations and name of each activity and program.

**10.4 Flowcharting standards.** Flowcharting symbols shall conform to ANSI X3.5 with the following exceptions.

**10.4.1 Flow-line symbols.** Flowcharts shall use the following flow-line symbols for clarity.



Major Flow



Other Directional Flow

**10.4.2 Annotation symbol.** Used as follows:

- a. On functional flowcharts to further clarify the significance of a symbolic function.
- b. On general flowcharts to provide direct linkage with the detailed flowchart(s).
- c. With a flowchart symbol, when it is impractical to include explanatory information within the designated symbol.

**10.4.3 Magnetic tape symbol.** Shall contain information to identify the type of information contained and its name.

**10.4.4 Communication link symbol.** Depicted by use of open arrowheads for each time symbol is used.

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Block 10, Preparation Instructions (Continued)

10.4.5 Predefined process symbol. Contains name and page location of the process and a brief description.

10.4.6 Connector symbol. Entry connectors shall be the first symbol of each page and shall conform to the requirements of 10.5.

10.5 Symbol identification and cross references. Identifies and, when applicable, cross references each symbol; i.e., connector and striped symbols.

10.5.1 Identification notation used on detailed flowchart(s) shall relate directly to program labels as specified by Computer Software Coding Standards specified in the contract.