

CONTRACT DATA REQUIREMENTS LIST

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. 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		C. CATEGORY TDP TM OTHER		
D. SYSTEM/ITEM Remote Digital Display			E. CONTRACT/PR NO. DAAE20-00-G0001/0006		F. CONTRACTOR Oasis Advanced Eng., Inc.	
1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM Performance and Cost Report			3. SUBTITLE		
4. AUTHORITY (Date Acquisition Document No.) DI-FNCL-80912			5. CONTRACT REFERENCE V.A.		6. REQUIRING OFFICE SFAE-GCS-AB-SI	
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY Monthly	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION		
8. APP CODE		11. AS OF DATE "15"	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES	
					Draft	Final
					Reg	Repro
16. REMARKS Electronic Submission to bhandaa@tacom.army.mil				SFAE-GCS-AB-SI	1	
				15. TOTAL →	1	
1. DATA ITEM NO. A002	2. TITLE OF DATA ITEM Report, Record of Meeting/Minutes			3. SUBTITLE IPT Meetings		
4. AUTHORITY (Date Acquisition Document No.) DI-ADMIN-81505			5. CONTRACT REFERENCE V.B.		6. REQUIRING OFFICE SFAE-GCS-AB-SI	
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY BI-MO	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION		
8. APP CODE		11. AS OF DATE "15"	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES	
					Draft	Final
					Reg	Repro
16. REMARKS Electronic Submission to bhandaa@tacom.army.mil				SFAE-GCS-AB-SI	1	
				15. TOTAL →	1	
1. DATA ITEM NO. A003	2. TITLE OF DATA ITEM Management Plan			3. SUBTITLE Software Program Mgt. Plan		
4. AUTHORITY (Date Acquisition Document No.) DI-MGMT-8004			5. CONTRACT REFERENCE V.C.		6. REQUIRING OFFICE SFAE-GCS-AB-SI	
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION		
8. APP CODE		11. AS OF DATE 2002Oct31	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES	
					Draft	Final
					Reg	Repro
16. REMARKS Electronic Submission to bhandaa@tacom.army.mil				SFAE-GCS-AB-SI	1	
				15. TOTAL →	1	
1. DATA ITEM NO. A004	2. TITLE OF DATA ITEM Software Requirements Specification			3. SUBTITLE Software Requirements Document		
4. AUTHORITY (Date Acquisition Document No.) DI-IPSC-81433			5. CONTRACT REFERENCE V.D.		6. REQUIRING OFFICE SFAE-GCS-AB-SI	
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION		
8. APP CODE		11. AS OF DATE 2002Oct31	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES	
					Draft	Final
					Reg	Repro
16. REMARKS Electronic Submission to bhandaa@tacom.army.mil				SFAE-GCS-AB-SI	1	
				15. TOTAL →	1	
G. PREPARED BY Denise Drylie		H. DATE 23 Sep 02		I. APPROVED BY Anamica Bhandari		J. DATE 27 Sep 02

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

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A. CONTRACT LINE ITEM NO. 0001		B. EXHIBIT		C. CATEGORY TDP _____ TM _____ OTHER _____	
D. SYSTEM/ITEM Remote D2T2		E. CONTRACT/PR NO. DAAE20-00-G0001/0006		F. CONTRACTOR Oasis Advanced Eng., Inc.	
1. DATA ITEM NO. A005	2. TITLE OF DATA ITEM Software Test Plan (STP)			3. SUBTITLE	
4. AUTHORITY (Date Acquisition Document No.) DI-IPSC-81438		5. CONTRACT REFERENCE V. E.		6. REQUIRING OFFICE SFAE-GCS-AB-SI	
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION	
8. APP CODE		11. AS OF DATE 2002Oct31	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES
				Draft	Final
					Reg
					Repro
16. REMARKS Electronic Submission to bhandaa@tacom.army.mil				SFAE-GCS-AB-SI	1
				15. TOTAL →	1
1. DATA ITEM NO. A006	2. TITLE OF DATA ITEM Quality Assurance Provisions			3. SUBTITLE Quality Assurance Plan	
4. AUTHORITY (Date Acquisition Document No.) DI-CMAN-80789		5. CONTRACT REFERENCE V. F.		6. REQUIRING OFFICE SFAE-GCS-AB-SI	
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION	
8. APP CODE		11. AS OF DATE 2002Nov15	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES
				Draft	Final
					Reg
					Repro
16. REMARKS Electronic Submission to bhandaa@tacom.army.mil				SFAE-GCS-AB-SI	1
				15. TOTAL →	1
1. DATA ITEM NO. A007	2. TITLE OF DATA ITEM Communication Security System Descrip.			3. SUBTITLE Internet Access Security Plan	
4. AUTHORITY (Date Acquisition Document No.) DI-MCCR-80340		5. CONTRACT REFERENCE V. G.		6. REQUIRING OFFICE SFAE-GCS-AB-SI	
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION	
8. APP CODE		11. AS OF DATE 2002Nov15	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES
				Draft	Final
					Reg
					Repro
16. REMARKS Electronic Submission to bhandaa@tacom.army.mil				SFAE-GCS-AB-SI	1
				15. TOTAL →	1
1. DATA ITEM NO. A008	2. TITLE OF DATA ITEM System/Subsystem Design Description			3. SUBTITLE D2T2 and R2T2 Design Document	
4. AUTHORITY (Date Acquisition Document No.) DI-IPSC-81432		5. CONTRACT REFERENCE V. H & V. I.		6. REQUIRING OFFICE SFAE-GCS-AB-SI	
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION	
8. APP CODE		11. AS OF DATE 2002Nov15	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES
				Draft	Final
					Reg
					Repro
16. REMARKS Electronic Submission to bhandaa@tacom.army.mil				SFAE-GCS-AB-SI	1
				15. TOTAL →	1
G. PREPARED BY Denise Drylie		H. DATE 23 Sep 02		I. APPROVED BY Anamica Bhandari	
				J. DATE 27 Sep 02	

17. PRICE GROUP
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A. CONTRACT LINE ITEM NO. 0001	B. EXHIBIT	C. CATEGORY TDP TM OTHER	
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D. SYSTEM/ITEM R2T2	E. CONTRACT/PR NO. DAAE20-00-G0001/0006	F. CONTRACTOR Oasis Advanced Eng., Inc.
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1. DATA ITEM NO. A009	2. TITLE OF DATA ITEM Computer Operation Manual (COM)	3. SUBTITLE User Operator Instructions
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4. AUTHORITY (Date Acquisition Document No.) DI-IPSC-81446	5. CONTRACT REFERENCE V. J.	6. REQUIRING OFFICE SFAE-GCS-AB-SI
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION		
8. APP CODE		11. AS OF DATE 2002Dec31	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES	
					Draft	Final

16. REMARKS Electronic Submission to bhandaa@tacom.army.mil				15. TOTAL →	1		
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17. PRICE GROUP
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1. DATA ITEM NO. A010	2. TITLE OF DATA ITEM TEST PLAN	3. SUBTITLE Load Testing Plan
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4. AUTHORITY (Date Acquisition Document No.) DI-NDTI-80566	5. CONTRACT REFERENCE V. K.	6. REQUIRING OFFICE SFAE-GCS-AB-SI
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION		
8. APP CODE		11. AS OF DATE 2002Oct31	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES	
					Draft	Final

16. REMARKS Electronic Submission to bhandaa@tacom.army.mil				15. TOTAL →	1		
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
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4. AUTHORITY (Date Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE I
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7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION		
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES	
					Draft	Final

16. REMARKS				15. TOTAL →			
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
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4. AUTHORITY (Date Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
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7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION		
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES	
					Draft	Final

16. REMARKS				15. TOTAL →			
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY Denise Drylie	H. DATE 23 Sep 02	I. APPROVED BY Anamica Bhandari	J. DATE 27 Sep 02
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DATA ITEM DESCRIPTION		Form Approved OAS No 0704-0188	
1 TITLE Performance and Cost Report		2 IDENTIFICATION NUMBER DI-FNCL-80912	
3. DESCRIPTION/PURPOSE 3.1 The Performance and Cost Report provides current status and projected requirements of funds, man-hours, and work completion. 3.2 The report is used for evaluation of contractor progress.			
4 APPROVAL DATE (YYMMDD) 891006	5 OFFICE (OF PRIMARY RESPONSIBILITY) (OPR) A/MICOM	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-F-1208A.			
8 APPROVAL LIMITATION	9a APPLICABLE FORMS	9b AMSC NUMBER A4845	
10 PREPARATION INSTRUCTIONS 10.1 <u>Format</u> . The Performance and Cost Report format shall be contractor selected. Unless effective presentation would be degraded, the initially used format arrangement shall be used for all subsequent submissions. 10.2 <u>Content</u> . The Performance and Cost Report shall contain the following: 10.2.1 <u>Man-hours</u> . Total man-hours expended by technical categories or program tasks, cumulative total man-hours to date, and percentages of total man-hours spent to date. State whether or not remaining hours are sufficient to complete the task. 10.2.2 <u>Funds</u> . Total funds expended, by task, for the month; cumulative total funds spent to date; and percentage of total contract funds spent to date. State whether or not remaining funds are sufficient to complete the task. 10.2.3 <u>Work completion</u> . Percentage of work completed, by tasks during the month, and cumulative percentage of total contract work completed to date.			
11 DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.			

DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0166

Public reporting burden for this collection of information is estimated to average 1.0 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0166), Washington, DC 20503.

1. TITLE REPORT, RECORD OF MEETING/MINUTES	2. IDENTIFICATION NUMBER DI-ADMN-81505
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3. DESCRIPTION/PURPOSE

The report is a record of the proceedings of any specified meeting. The Meeting Minutes will be used by appropriate government and contractor personnel as a record of the deliberations and actions resulting from meetings related to performance of work under a contract.

4. APPROVAL DATE (FPMDD) 951120	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) N/PMS400G35	6a. DTIC APPLICABLE	6b. GDSF APPLICABLE
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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 data item can be used for any Programs/Projects requiring formal documentation of meetings of any type, i.e., audits, design reviews, etc.

7.3 This data item may be used in conjunction with "Agenda, Conference".
(Continued on Page 2)

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER N7175
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10. PREPARATION INSTRUCTIONS

10.1 Format. The report shall be presented in contractor's format.

10.2 Content. The report shall contain a title page which specifies the following:

- a. Date of report/meeting.
- b. Title - Type of meeting (study contract, audit, design review, etc.).
- c. Title of Program/Project.
- d. System/equipment identification and number.
- e. Contract number and/or procurement request number.
- f. Signature(s) - contractor (supporting activity) Project Manager or designated representative.

10.2.1 The report/minutes shall include, the following sections:

10.2.1.1 An introduction which shall include: (Continued on Page 2)

11. DISTRIBUTION STATEMENT

Distribution Statement A. Approved for public release; distribution is unlimited.

Block 7, Application/Interrelationship (Continued)

7.4 This DID supercedes UDI-A-23083A.

Block 10; Preparation Instructions (Continued)

- a. Statement relating to the purpose/objective of the meeting.
- b. The original agenda/revisions thereto. (This may be accomplished by reference to attachment/enclosure)

10.2.1.2 Administrative data which shall include:

- a. Date and location of the meeting.
- b. Agency under whose direction the meeting was convened.
- c. Name and title of the chairman or co-chairmen.
- d. Name and title of persons attending.

10.2.1.3 Information covered during the meeting, including as appropriate, such items as:

- a. A description and/or listing of the material and documentation, if any, discussed/reviewed during the meeting.
- b. Specific statements relating to changes, deletions, modifications, etc., discussed/reviewed during the meeting, including:
 - (1) A description of the change/modification required.
 - (2) The reason for the change/modification.
 - (3) The agency responsible for preparing change proposals, if required, necessary to effect the change/modification.

10.3 Each item discussed/reviewed during the meeting shall be presented in the following order:

10.3.1 Item. A brief statement identifying the item or problem.

10.3.2 Discussion. A summary of pertinent information associated with the item.

Block 10, Preparation Instructions (Continued)

10.3.3 Recommendations. A list of both the Project/Program Manager's and the contractor's recommendations.

10.3.4 Action. A brief statement of agreements reached, action(s) required by the Program/Project Manager or the contractor, identity of the personnel or activity assigned responsibility for taking and/or coordinating required actions, contractual action, if required, and all key dates.

10.4 Media Requirements. Unless otherwise stated on the Contract Data Requirements List (DD Form 1423); the report/minutes shall be typewritten on 8"x 10 1/2" white paper. Charts, graphs, drawings, lists, sketches may be included, if necessary, to support or clarify the text of the report/minutes. Oversize material shall be one-way foldouts. All material presented shall be sufficiently clear and sharp for further reproduction if required. All pages and supporting material shall be securely bound together.

DATA ITEM DESCRIPTION			Form Approved OMB No. 0704-0188 Exp. Date: Jun 30, 1986	
1. TITLE MANAGEMENT PLAN		2. IDENTIFICATION NUMBER DI-MGMT-80004		
3. DESCRIPTION/PURPOSE 3.1 The management plan describes the contractor's organization, assignment of functions, duties, and responsibilities, management procedures and policies, and reporting requirements for the conduct of contractually-imposed tasks, projects, or programs.				
4. APPROVAL DATE (YYMMDD) 850503	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) G/NSR-R	6a. DTIC REQUIRED	6b. GIDEP REQUIRED	
7. APPLICATION / INTERRELATIONSHIP 7.1 This data item description contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement for this data included in the contract. 7.2 This data item may be applied in any contract or program phase where the contract management is under the direction and control of the contractor. 7.3 This data item supersedes DI-A-5239B.				
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS	9b. AMSC NUMBER G3545	
10. PREPARATION INSTRUCTIONS 10.1 <u>Contract</u> . This data item is generated by the contract which contains a specific and discrete work task to develop this data product. 10.2 <u>Format</u> . The plan shall be in a format that the contractor devises and conforms to the following: a. <u>Identification</u> . The plan shall be identified with the preparing office or contractor's title, the identifying numbers or designation of the Contract/Procurement Request, the identity and/or nomenclature of the system/component/program/project, the security classification and the Government activity issuing the controlling contract. b. <u>Descriptive material</u> . As may be needed to clarify or explain matters in the text, the plan may include descriptive material, sketches, drawings, photographs, tables, forms, graphs, worksheets, charts, etc. c. <u>Page size</u> . The plan may be typewritten or printed on standard size paper, e.g., 8-1/2 x 11 inches or metric A4. The pages shall be sequentially numbered and security bound together. As necessary, graphic material may be one-way foldouts. All attachments shall be identified and referenced in the text. Each section and paragraph shall be numbered. d. <u>Table of contents and index</u> . Plans of more than 30 pages in length shall contain a Table of Contents. Plans more than 120 pages in length shall also include an Index. e. <u>Legibility</u> . The document shall be legible and reproducible.				

10. PREPARATION INSTRUCTIONS (Cont'd)

10.3.1 General. The Management Plan shall consist of the organizational structure, the assignment of functions, duties, and responsibilities, the procedures and policies and the reporting requirements that are established for the initiation, monitoring, control, completion, test and verification, and reporting of contractual tasks, projects, and programs.

10.3.2 Specific contents. The management plan shall cover the organizational structure, program management methodology, personnel, security, and reports as described herein. Other subjects to be included are as follows:

- a. design control
- b. reliability
- c. configuration control
- d. standardization
- e. quality assurance
- f. provisioning
- g. control of Government property
- h. delivery procedures
- i. tests
- j. certifications
- k. packaging
- l. shipping
- m. other

10.3.3 Organizational structure. The plan shall present an organizational chart and supporting narrative portraying the contractor's business (corporate) structure. It shall describe the functional relationships and responsibilities among the organizational elements that will participate in the accomplishment of the contractual commitments.

10.3.4 Program management. The plan shall present an organizational chart and supporting narrative describing the management office the contractor establishes to manage the contractual commitments. The plan shall define the direct lines of control, responsibilities, functional relationships, and authority between the management office and the contractor's other organizational elements. The plan shall also describe all interfaces between the contractor and the Government and between the contractor and other contractors which are necessary and pertinent to the accomplishment of contractual tasks, projects, and programs.

10. PREPARATION INSTRUCTIONS (Cont'd)

10.3.5 Methodology.

a. The plan include a narrative description of the technical approach or methods the contractor will employ to accomplish contractual tasks, projects, and programs, including, as applicable, development, tests, manufacture, construction, formulation, installation, logistics support, training, maintenance documentation, and configuration controls.

b. The plan shall include a milestone chart graphically depicting the schedule of events associated with accomplishing each contractual commitment.

10.3.6 Personnel.

a. The plan shall list the personnel staffing of the contractor's management office that directs the contractual tasks, projects, and programs and assist in completing the contract. The listing shall include the education, training, skills, experience, and security clearance that personnel require to fill each such position and shall state the identity, background, and work experience of the personnel assigned to fill these positions.

b. The plan shall also describe the staffing required for proper accomplishment of each contractual task by skill type, skill level, number of personnel, and security clearance. When submitted as part of a proposal, the plan shall state how many such personnel are currently available and how many new hires are required to staff fully to accomplish each task as scheduled.

10.3.7 Security.

a. Provide a Standard Practice Procedure (SPP) which fully describes the security program, safeguards emergency procedures to be established to the protection of Government-furnished and contractor-developed classified materials prepared in conjunction with the project. The SPP shall be prepared in accordance with guidelines contained in the Industrial Security Manual, Purchase Description, and such additional requirements as may be stipulated by the cognizant security compliance organization. The SPP shall require approval by the Government.

b. Develop a comprehensive security accreditation plan to demonstrate how the computer security requirements stipulated in the PD, as applicable, have been accounted for in the system design, and how satisfaction of each requirement will be explicitly demonstrated in the test program. This plan shall also identify any specific support equipment or software to be provided for demonstration of design compliance and/or system compliance with the planned security requirements. The plan shall require approval by the Government prior to implementation.

10.3.8 Reports. The plan shall describe the management methods the contractor will employ to ensure meeting all preparations, format, and submittal requirements established by the CDRL (DD Form 1423) for data to be delivered to the Government.

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DATA ITEM DESCRIPTION			Form Approved OMB NO. 0704-0188	
Public reporting burden for collection of this information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Washington Headquarters Services, Directorate of Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.				
1. TITLE SOFTWARE REQUIREMENTS SPECIFICATION (SRS)			2. IDENTIFICATION NUMBER DI-IPSC-81433	
3. DESCRIPTION/PURPOSE 3.1 The Software Requirements Specification (SRS) specifies the requirements for a Computer Software Configuration Item (CSCI) and the methods to be used to ensure that each requirement has been met. Requirements pertaining to the CSCI's external interfaces may be presented in the SRS or in one or more Interface Requirements Specifications (IRs) (DI-IPSC-81434) referenced from the SRS. 3.2 The SRS, possibly supplemented by IRs, is used as the basis for design and qualification testing of a CSCI.				
4. APPROVAL DATE (YMMDD) 941205	5. OFFICE OF PRIMARY RESPONSIBILITY EC	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 specific and discrete task requirements as delineated in the contract. 7.2 This DID is used when the developer is tasked to define and record the software requirements to be met by a CSCI. 7.3 Requirements pertaining to CSCI interfaces may be presented in the SRS or in IRs. 7.4 The Contract Data Requirements List (CDRL) (DD 1423) should specify whether deliverable data are to be delivered on paper or electronic media; are to be in a given electronic form (such as ASCII, CALS, or compatible with a specified word processor or other support software); may be delivered in developer format rather than in the format specified herein; and may reside in a computer-aided software engineering (CASE) or other automated tool rather than in the form of a traditional document. 7.5 This DID supersedes DI-MCCR-80025A and DI-MCCR-80301.				
8. APPROVAL LIMITATION Limited Approval from 12/5/94 through 12/5/96	9a. APPLICABLE FORMS	9b. AMSC NUMBER N7076		
10. PREPARATION INSTRUCTIONS 10.1 <u>General instructions.</u> a. <u>Automated techniques.</u> Use of automated techniques is encouraged. The term "document" in this DID means a collection of data regardless of its medium. b. <u>Alternate presentation styles.</u> Diagrams, tables, matrices, and other presentation styles are acceptable substitutes for text when data required by this DID can be made more readable using these styles. <p style="text-align: right;">(Continued on Page 2)</p>				
11. DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.				

Software Requirements Specification (SRS)
DI-IPSC-81433

10. PREPARATION INSTRUCTIONS -- 10.1 General Instructions (continued)

- c. Title page or identifier with signature blocks. The document shall include a title page containing, as applicable: document number; volume number; version/revision indicator; security markings or other restrictions on the handling of the document; date; document title; name, abbreviation, and any other identifier for the system, subsystem, or item to which the document applies; contract number; CDRL item number; organization for which the document has been prepared; name and address of the preparing organization; distribution statement; and signature blocks for the developer representative authorized to release the document, the acquirer representative authorized to approve the document, and the dates of release/approval. For data in a database or other alternative form, this information shall be included on external and internal labels or by equivalent identification methods.
- d. Table of contents. The document shall contain a table of contents providing the number, title, and page number of each titled paragraph, figure, table, and appendix. For data in a database or other alternative form, this information shall consist of an internal or external table of contents containing pointers to, or instructions for accessing, each paragraph, figure, table, and appendix or their equivalents.
- e. Page numbering/labeling. Each page shall contain a unique page number and display the document number, including version, volume, and date, as applicable. For data in a database or other alternative form, files, screens, or other entities shall be assigned names or numbers in such a way that desired data can be indexed and accessed.
- f. Response to tailoring instructions. If a paragraph is tailored out of this DID, the resulting document shall contain the corresponding paragraph number and title, followed by "This paragraph has been tailored out." For data in a database or other alternative form, this representation need occur only in the table of contents or equivalent.
- g. Multiple paragraphs and subparagraphs. Any section, paragraph, or subparagraph in this DID may be written as multiple paragraphs or subparagraphs to enhance readability.
- h. Standard data descriptions. If a data description required by this DID has been published in a standard data element dictionary specified in the contract, reference to an entry in that dictionary is preferred over including the description itself.
- i. Substitution of existing documents. Commercial or other existing documents may be substituted for all or part of the document if they contain the required data.

10.2 Content requirements. Content requirements begin on the following page. The numbers shown designate the paragraph numbers to be used in the document. Each such number is understood to have the prefix "10.2" within this DID. For example, the paragraph numbered 1.1 is understood to be paragraph 10.2.1.1 within this DID.

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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

1. Scope. This section shall be divided into the following paragraphs.

1.1 Identification. This paragraph shall contain a full identification of the system and the software to which this document applies, including, as applicable, identification number(s), title(s), abbreviation(s), version number(s), and release number(s).

1.2 System overview. This paragraph shall briefly state the purpose of the system and the software to which this document applies. It shall describe the general nature of the system and software; summarize the history of system development, operation, and maintenance; identify the project sponsor, acquirer, user, developer, and support agencies; identify current and planned operating sites; and list other relevant documents.

1.3 Document overview. This paragraph shall summarize the purpose and contents of this document and shall describe any security or privacy considerations associated with its use.

2. Referenced documents. This section shall list the number, title, revision, and date of all documents referenced in this specification. This section shall also identify the source for all documents not available through normal Government stocking activities.

3. Requirements. This section shall be divided into the following paragraphs to specify the CSCI requirements, that is, those characteristics of the CSCI that are conditions for its acceptance. CSCI requirements are software requirements generated to satisfy the system requirements allocated to this CSCI. Each requirement shall be assigned a project-unique identifier to support testing and traceability and shall be stated in such a way that an objective test can be defined for it. Each requirement shall be annotated with associated qualification method(s) (see section 4) and traceability to system (or subsystem, if applicable) requirements (see section 5.a) if not provided in those sections. The degree of detail to be provided shall be guided by the following rule: Include those characteristics of the CSCI that are conditions for CSCI acceptance; defer to design descriptions those characteristics that the acquirer is willing to leave up to the developer. If there are no requirements in a given paragraph, the paragraph shall so state. If a given requirement fits into more than one paragraph, it may be stated once and referenced from the other paragraphs.

3.1 Required states and modes. If the CSCI is required to operate in more than one state or mode having requirements distinct from other states or modes, this paragraph shall identify and define each state and mode. Examples of states and modes include: idle, ready, active, post-use analysis, training, degraded, emergency, backup, wartime, peacetime. The distinction between states and modes is arbitrary. A CSCI may be described in terms of states only, modes only, states within modes, modes within states, or any other scheme that is useful. If no states or modes are required, this paragraph shall so state, without the need to create artificial distinctions. If states and/or modes are required, each requirement or group of requirements in this specification shall be correlated to the states and modes. The correlation may be indicated by a table or other method in this paragraph, in an appendix referenced from this paragraph, or by annotation of the requirements in the paragraphs where they appear.

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10. PREPARATION INSTRUCTIONS – 10.2 Content Requirements (continued)

3.2 CSCI capability requirements. This paragraph shall be divided into subparagraphs to itemize the requirements associated with each capability of the CSCI. A "capability" is defined as a group of related requirements. The word "capability" may be replaced with "function," "subject," "object," or other term useful for presenting the requirements.

3.2.x (CSCI capability). This paragraph shall identify a required CSCI capability and shall itemize the requirements associated with the capability. If the capability can be more clearly specified by dividing it into constituent capabilities, the constituent capabilities shall be specified in subparagraphs. The requirements shall specify required behavior of the CSCI and shall include applicable parameters, such as response times, throughput times, other timing constraints, sequencing, accuracy, capacities (how much/how many), priorities, continuous operation requirements, and allowable deviations based on operating conditions. The requirements shall include, as applicable, required behavior under unexpected, unallowed, or "out of bounds" conditions, requirements for error handling, and any provisions to be incorporated into the CSCI to provide continuity of operations in the event of emergencies. Paragraph 3.3.x of this DID provides a list of topics to be considered when specifying requirements regarding inputs the CSCI must accept and outputs it must produce.

3.3 CSCI external interface requirements. This paragraph shall be divided into subparagraphs to specify the requirements, if any, for the CSCI's external interfaces. This paragraph may reference one or more Interface Requirements Specifications (IRs) or other documents containing these requirements.

3.3.1 Interface identification and diagrams. This paragraph shall identify the required external interfaces of the CSCI (that is, relationships with other entities that involve sharing, providing or exchanging data). The identification of each interface shall include a project-unique identifier and shall designate the interfacing entities (systems, configuration items, users, etc.) by name, number, version, and documentation references, as applicable. The identification shall state which entities have fixed interface characteristics (and therefore impose interface requirements on interfacing entities) and which are being developed or modified (thus having interface requirements imposed on them). One or more interface diagrams shall be provided to depict the interfaces.

3.3.x (Project-unique identifier of interface). This paragraph (beginning with 3.3.2) shall identify a CSCI external interface by project-unique identifier, shall briefly identify the interfacing entities, and shall be divided into subparagraphs as needed to state the requirements imposed on the CSCI to achieve the interface. Interface characteristics of the other entities involved in the interface shall be stated as assumptions or as "When [the entity not covered] does this, the CSCI shall..." not as requirements on the other entities. This paragraph may reference other documents (such as data dictionaries, standards for communication protocols, and standards for user interfaces) in place of stating the information here. The requirements shall include the following, as applicable, presented in any order suited to the requirements, and shall note any differences in these characteristics from the point of view of the interfacing entities (such as different expectations about the size, frequency, or other characteristics of data elements):

- a. Priority that the CSCI must assign the interface

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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

- b. Requirements on the type of interface (such as real-time data transfer, storage-and-retrieval of data, etc.) to be implemented
- c. Required characteristics of individual data elements that the CSCI must provide, store, send, access, receive, etc., such as:
 - 1) Names/identifiers
 - a) Project-unique identifier
 - b) Non-technical (natural-language) name
 - c) DoD standard data element name
 - d) Technical name (e.g., variable or field name in code or database)
 - e) Abbreviation or synonymous names
 - 2) Data type (alphanumeric, integer, etc.)
 - 3) Size and format (such as length and punctuation of a character string)
 - 4) Units of measurement (such as meters, dollars, nanoseconds)
 - 5) Range or enumeration of possible values (such as 0-99)
 - 6) Accuracy (how correct) and precision (number of significant digits)
 - 7) Priority, timing, frequency, volume, sequencing, and other constraints, such as whether the data element may be updated and whether business rules apply
 - 8) Security and privacy constraints
 - 9) Sources (setting/sending entities) and recipients (using/receiving entities)
- d. Required characteristics of data element assemblies (records, messages, files, arrays, displays, reports, etc.) that the CSCI must provide, store, send, access, receive, etc., such as:
 - 1) Names/identifiers
 - a) Project-unique identifier
 - b) Non-technical (natural language) name
 - c) Technical name (e.g., record or data structure name in code or database)
 - d) Abbreviations or synonymous names
 - 2) Data elements in the assembly and their structure (number, order, grouping)
 - 3) Medium (such as disk) and structure of data elements/assemblies on the medium
 - 4) Visual and auditory characteristics of displays and other outputs (such as colors, layouts, fonts, icons and other display elements, beeps, lights)
 - 5) Relationships among assemblies, such as sorting/access characteristics
 - 6) Priority, timing, frequency, volume, sequencing, and other constraints, such as whether the assembly may be updated and whether business rules apply
 - 7) Security and privacy constraints
 - 8) Sources (setting/sending entities) and recipients (using/receiving entities)

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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

- e. Required characteristics of communication methods that the CSCI must use for the interface, such as:
 - 1) Project-unique identifier(s)
 - 2) Communication links/bands/frequencies/media and their characteristics
 - 3) Message formatting
 - 4) Flow control (such as sequence numbering and buffer allocation)
 - 5) Data transfer rate, whether periodic/aperiodic, and interval between transfers
 - 6) Routing, addressing, and naming conventions
 - 7) Transmission services, including priority and grade
 - 8) Safety/security/privacy considerations, such as encryption, user authentication, compartmentalization, and auditing

- f. Required characteristics of protocols the CSCI must use for the interface, such as:
 - 1) Project-unique identifier(s)
 - 2) Priority/layer of the protocol
 - 3) Packeting, including fragmentation and reassembly, routing, and addressing
 - 4) Legality checks, error control, and recovery procedures
 - 5) Synchronization, including connection establishment, maintenance, termination
 - 6) Status, identification, and any other reporting features

- g. Other required characteristics, such as physical compatibility of the interfacing entities (dimensions, tolerances, loads, plug compatibility, etc.), voltages, etc.

3.4 CSCI internal interface requirements. This paragraph shall specify the requirements, if any, imposed on interfaces internal to the CSCI. If all internal interfaces are left to the design, this fact shall be so stated. If such requirements are to be imposed, paragraph 3.3 of this DID provides a list of topics to be considered.

3.5 CSCI internal data requirements. This paragraph shall specify the requirements, if any, imposed on data internal to the CSCI. Included shall be requirements, if any, on databases and data files to be included in the CSCI. If all decisions about internal data are left to the design, this fact shall be so stated. If such requirements are to be imposed, paragraphs 3.3.x.c and 3.3.x.d of this DID provide a list of topics to be considered.

3.6 Adaptation requirements. This paragraph shall specify the requirements, if any, concerning installation-dependent data to be provided by the CSCI (such as site-dependent latitude and longitude or site-dependent state tax codes) and operational parameters that the CSCI is required to use that may vary according to operational needs (such as parameters indicating operation-dependent targeting constants or data recording).

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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

3.7 Safety requirements. This paragraph shall specify the CSCI requirements, if any, concerned with preventing or minimizing unintended hazards to personnel, property, and the physical environment. Examples include safeguards the CSCI must provide to prevent inadvertent actions (such as accidentally issuing an "auto pilot off" command) and non-actions (such as failure to issue an intended "auto pilot off" command). This paragraph shall include the CSCI requirements, if any, regarding nuclear components of the system, including, as applicable, prevention of inadvertent detonation and compliance with nuclear safety rules.

3.8 Security and privacy requirements. This paragraph shall specify the CSCI requirements, if any, concerned with maintaining security and privacy. These requirements shall include, as applicable, the security/privacy environment in which the CSCI must operate, the type and degree of security or privacy to be provided, the security/privacy risks the CSCI must withstand, required safeguards to reduce those risks, the security/privacy policy that must be met, the security/privacy accountability the CSCI must provide, and the criteria that must be met for security/privacy certification/accreditation.

3.9 CSCI environment requirements. This paragraph shall specify the requirements, if any, regarding the environment in which the CSCI must operate. Examples include the computer hardware and operating system on which the CSCI must run. (Additional requirements concerning computer resources are given in the next paragraph.)

3.10 Computer resource requirements. This paragraph shall be divided into the following subparagraphs.

3.10.1 Computer hardware requirements. This paragraph shall specify the requirements, if any, regarding computer hardware that must be used by the CSCI. The requirements shall include, as applicable, number of each type of equipment, type, size, capacity, and other required characteristics of processors, memory, input/output devices, auxiliary storage, communications/network equipment, and other required equipment.

3.10.2 Computer hardware resource utilization requirements. This paragraph shall specify the requirements, if any, on the CSCI's computer hardware resource utilization, such as maximum allowable use of processor capacity, memory capacity, input/output device capacity, auxiliary storage device capacity, and communications/network equipment capacity. The requirements (stated, for example, as percentages of the capacity of each computer hardware resource) shall include the conditions, if any, under which the resource utilization is to be measured.

3.10.3 Computer software requirements. This paragraph shall specify the requirements, if any, regarding computer software that must be used by, or incorporated into, the CSCI. Examples include operating systems, database management systems, communications/network software, utility software, input and equipment simulators, test software, and manufacturing software. The correct nomenclature, version, and documentation references of each such software item shall be provided.

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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

3.10.4 Computer communications requirements. This paragraph shall specify the additional requirements, if any, concerning the computer communications that must be used by the CSCI. Examples include geographic locations to be linked; configuration and network topology; transmission techniques; data transfer rates; gateways; required system use times; type and volume of data to be transmitted/received; time boundaries for transmission/reception/response; peak volumes of data; and diagnostic features.

3.11 Software quality factors. This paragraph shall specify the CSCI requirements, if any, concerned with software quality factors identified in the contract or derived from a higher level specification. Examples include quantitative requirements regarding CSCI functionality (the ability to perform all required functions), reliability (the ability to perform with correct, consistent results), maintainability (the ability to be easily corrected), availability (the ability to be accessed and operated when needed), flexibility (the ability to be easily adapted to changing requirements), portability (the ability to be easily modified for a new environment), reusability (the ability to be used in multiple applications), testability (the ability to be easily and thoroughly tested), usability (the ability to be easily learned and used), and other attributes.

3.12 Design and implementation constraints. This paragraph shall specify the requirements, if any, that constrain the design and implementation of the CSCI. These requirements may be specified by reference to appropriate commercial or military standards and specifications. Examples include requirements concerning:

- a. Use of a particular CSCI architecture or requirements on the architecture, such as required databases or other software units; use of standard, military, or existing components; or use of Government/acquirer-furnished property (equipment, information, or software)
- b. Use of particular design or implementation standards; use of particular data standards; use of a particular programming language
- c. Flexibility and expandability that must be provided to support anticipated areas of growth or changes in technology, threat, or mission

3.13 Personnel-related requirements. This paragraph shall specify the CSCI requirements, if any, included to accommodate the number, skill levels, duty cycles, training needs, or other information about the personnel who will use or support the CSCI. Examples include requirements for number of simultaneous users and for built-in help or training features. Also included shall be the human factors engineering requirements, if any, imposed on the CSCI. These requirements shall include, as applicable, considerations for the capabilities and limitations of humans; foreseeable human errors under both normal and extreme conditions; and specific areas where the effects of human error would be particularly serious. Examples include requirements for color and duration of error messages, physical placement of critical indicators or keys, and use of auditory signals.

3.14 Training-related requirements. This paragraph shall specify the CSCI requirements, if any, pertaining to training. Examples include training software to be included in the CSCI.

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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

3.15 Logistics-related requirements. This paragraph shall specify the CSCI requirements, if any, concerned with logistics considerations. These considerations may include: system maintenance, software support, system transportation modes, supply-system requirements, impact on existing facilities, and impact on existing equipment.

3.16 Other requirements. This paragraph shall specify additional CSCI requirements, if any, not covered in the previous paragraphs.

3.17 Packaging requirements. This section shall specify the requirements, if any, for packaging, labeling, and handling the CSCI for delivery (for example, delivery on 8 track magnetic tape labelled and packaged in a certain way). Applicable military specifications and standards may be referenced if appropriate.

3.18 Precedence and criticality of requirements. This paragraph shall specify, if applicable, the order of precedence, criticality, or assigned weights indicating the relative importance of the requirements in this specification. Examples include identifying those requirements deemed critical to safety, to security, or to privacy for purposes of singling them out for special treatment. If all requirements have equal weight, this paragraph shall so state.

4. Qualification provisions. This section shall define a set of qualification methods and shall specify for each requirement in Section 3 the method(s) to be used to ensure that the requirement has been met. A table may be used to present this information, or each requirement in Section 3 may be annotated with the method(s) to be used. Qualification methods may include:

- a. Demonstration: The operation of the CSCI, or a part of the CSCI, that relies on observable functional operation not requiring the use of instrumentation, special test equipment, or subsequent analysis.
- b. Test: The operation of the CSCI, or a part of the CSCI, using instrumentation or other special test equipment to collect data for later analysis.
- c. Analysis: The processing of accumulated data obtained from other qualification methods. Examples are reduction, interpretation, or extrapolation of test results.
- d. Inspection: The visual examination of CSCI code, documentation, etc.
- e. Special qualification methods: Any special qualification methods for the CSCI, such as special tools, techniques, procedures, facilities, and acceptance limits.

5. Requirements traceability. This paragraph shall contain:

- a. Traceability from each CSCI requirement in this specification to the system (or subsystem, if applicable) requirements it addresses. (Alternatively, this traceability may be provided by annotating each requirement in Section 3.)

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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

Note: Each level of system refinement may result in requirements not directly traceable to higher-level requirements. For example, a system architectural design that creates multiple CSCIs may result in requirements about how the CSCIs will interface, even though these interfaces are not covered in system requirements. Such requirements may be traced to a general requirement such as "system implementation" or to the system design decisions that resulted in their generation.

- b. Traceability from each system (or subsystem, if applicable) requirement allocated to this CSCI to the CSCI requirements that address it. All system (subsystem) requirements allocated to this CSCI shall be accounted for. Those that trace to CSCI requirements contained in IRSs shall reference those IRSs.

6. Notes. This section shall contain any general information that aids in understanding this specification (e.g., background information, glossary, rationale). This section shall include an alphabetical listing of all acronyms, abbreviations, and their meanings as used in this document and a list of any terms and definitions needed to understand this document.

A. Appendixes. Appendixes may be used to provide information published separately for convenience in document maintenance (e.g., charts, classified data). As applicable, each appendix shall be referenced in the main body of the document where the data would normally have been provided. Appendixes may be bound as separate documents for ease in handling. Appendixes shall be lettered alphabetically (A, B, etc.).

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DATA ITEM DESCRIPTION		<i>Form Approved</i> OMB NO. 0704-0188	
Public reporting burden for collection of this information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Washington Headquarters Services, Directorate for Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.			
1. TITLE SOFTWARE TEST PLAN (STP)		2. IDENTIFICATION NUMBER DI-IPSC-81438	
3. DESCRIPTION/PURPOSE 3.1 The Software Test Plan (STP) describes plans for qualification testing of Computer Software Configuration Items (CSCIs) and software systems. It describes the software test environment to be used for the testing, identifies the tests to be performed, and provides schedules for test activities. 3.2 There is usually a single STP for a project. The STP enables the acquirer to assess the adequacy of planning for CSCI and, if applicable, software system qualification testing.			
4. APPROVAL DATE (YYMMDD) 941205	5. OFFICE OF PRIMARY RESPONSIBILITY EC	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 specific and discrete task requirements as delineated in the contract. 7.2 This DID is used when the developer is tasked to develop and record plans for conducting CSCI qualification testing and/or system qualification testing of a software system. 7.3 The Contract Data Requirements List (CDRL) (DD 1423) should specify whether deliverable data are to be delivered on paper or electronic media; are to be in a given electronic form (such as ASCII, CALS, or compatible with a specified word processor or other support software); may be delivered in developer format rather than in the format specified herein; and may reside in a computer-aided software engineering (CASE) or other automated tool rather than in the form of a traditional document. 7.4 This DID supersedes DI-MCCR-80014A, DI-IPSC-80697, DI-MCCR-80307, DI-MCCR-80308, and DI-MCCR-80309.			
8. APPROVAL LIMITATION Limited Approval from 12/5/94 through 12/5/96	9a. APPLICABLE FORMS		9b. AMSC NUMBER N7081
10. PREPARATION INSTRUCTIONS 10.1 <u>General instructions.</u> a. <u>Automated techniques.</u> Use of automated techniques is encouraged. The term "document" in this DID means a collection of data regardless of its medium. b. <u>Alternate presentation styles.</u> Diagrams, tables, matrices, and other presentation styles are acceptable substitutes for text when data required by this DID can be made more readable using these styles. <p style="text-align: right;">(Continued on Page 2)</p>			
11. DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.			

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10. PREPARATION INSTRUCTIONS -- 10.1 General Instructions (continued)

- c. Title page or identifier. The document shall include a title page containing, as applicable: document number; volume number; version/revision indicator; security markings or other restrictions on the handling of the document; date; document title; name, abbreviation, and any other identifier for the system, subsystem, or item to which the document applies; contract number; CDRL item number; organization for which the document has been prepared; name and address of the preparing organization; and distribution statement. For data in a database or other alternative form, this information shall be included on external and internal labels or by equivalent identification methods.
- d. Table of contents. The document shall contain a table of contents providing the number, title, and page number of each titled paragraph, figure, table, and appendix. For data in a database or other alternative form, this information shall consist of an internal or external table of contents containing pointers to, or instructions for accessing, each paragraph, figure, table, and appendix or their equivalents.
- e. Page numbering/labeling. Each page shall contain a unique page number and display the document number, including version, volume, and date, as applicable. For data in a database or other alternative form, files, screens, or other entities shall be assigned names or numbers in such a way that desired data can be indexed and accessed.
- f. Response to tailoring instructions. If a paragraph is tailored out of this DID, the resulting document shall contain the corresponding paragraph number and title, followed by "This paragraph has been tailored out." For data in a database or other alternative form, this representation need occur only in the table of contents or equivalent.
- g. Multiple paragraphs and subparagraphs. Any section, paragraph, or subparagraph in this DID may be written as multiple paragraphs or subparagraphs to enhance readability.
- h. Standard data descriptions. If a data description required by this DID has been published in a standard data element dictionary specified in the contract, reference to an entry in that dictionary is preferred over including the description itself.
- i. Substitution of existing documents. Commercial or other existing documents may be substituted for all or part of the document if they contain the required data.

10.2 Content requirements. Content requirements begin on the following page. The numbers shown designate the paragraph numbers to be used in the document. Each such number is understood to have the prefix "10.2" within this DID. For example, the paragraph numbered 1.1 is understood to be paragraph 10.2.1.1 within this DID.

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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

1. Scope. This section shall be divided into the following paragraphs.

1.1 Identification. This paragraph shall contain a full identification of the system and the software to which this document applies, including, as applicable, identification number(s), title(s), abbreviation(s), version number(s), and release number(s).

1.2 System overview. This paragraph shall briefly state the purpose of the system and the software to which this document applies. It shall describe the general nature of the system and software; summarize the history of system development, operation, and maintenance; identify the project sponsor, acquirer, user, developer, and support agencies; identify current and planned operating sites; and list other relevant documents.

1.3 Document overview. This paragraph shall summarize the purpose and contents of this document and shall describe any security or privacy considerations associated with its use.

1.4 Relationship to other plans. This paragraph shall describe the relationship, if any, of the STP to related project management plans.

2. Referenced documents. This section shall list the number, title, revision, and date of all documents referenced in this plan. This section shall also identify the source for all documents not available through normal Government stocking activities.

3. Software test environment. This section shall be divided into the following paragraphs to describe the software test environment at each intended test site. Reference may be made to the Software Development Plan (SDP) for resources that are described there.

3.x (Name of test site(s)). This paragraph shall identify one or more test sites to be used for the testing, and shall be divided into the following subparagraphs to describe the software test environment at the site(s). If all tests will be conducted at a single site, this paragraph and its subparagraphs shall be presented only once. If multiple test sites use the same or similar software test environments, they may be discussed together. Duplicative information among test site descriptions may be reduced by referencing earlier descriptions.

3.x.1 Software items. This paragraph shall identify by name, number, and version, as applicable, the software items (e.g., operating systems, compilers, communications software, related applications software, databases, input files, code auditors, dynamic path analyzers, test drivers, preprocessors, test data generators, test control software, other special test software, post-processors) necessary to perform the planned testing activities at the test site(s). This paragraph shall describe the purpose of each item, describe its media (tape, disk, etc.), identify those that are expected to be supplied by the site, and identify any classified processing or other security or privacy issues associated with the software items.

3.x.2 Hardware and firmware items. This paragraph shall identify by name, number, and version, as applicable, the computer hardware, interfacing equipment, communications equipment, test data reduction equipment, apparatus such as extra peripherals (tape drives, printers, plotters), test message generators, test timing devices, test event records, etc., and firmware items that will be used in the software test environment at the test site(s). This paragraph shall describe the purpose of each item, state the period of usage and the number

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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

of each item needed, identify those that are expected to be supplied by the site, and identify any classified processing or other security or privacy issues associated with the items.

3.x.3 Other materials. This paragraph shall identify and describe any other materials needed for the testing at the test site(s). These materials may include manuals, software listings, media containing the software to be tested, media containing data to be used in the tests, sample listings of outputs, and other forms or instructions. This paragraph shall identify those items that are to be delivered to the site and those that are expected to be supplied by the site. The description shall include the type, layout, and quantity of the materials, as applicable. This paragraph shall identify any classified processing or other security or privacy issues associated with the items.

3.x.4 Proprietary nature, acquirer's rights, and licensing. This paragraph shall identify the proprietary nature, acquirer's rights, and licensing issues associated with each element of the software test environment.

3.x.5 Installation, testing, and control. This paragraph shall identify the developer's plans for performing each of the following, possibly in conjunction with personnel at the test site(s):

- a. Acquiring or developing each element of the software test environment
- b. Installing and testing each item of the software test environment prior to its use
- c. Controlling and maintaining each item of the software test environment

3.x.6 Participating organizations. This paragraph shall identify the organizations that will participate in the testing at the test sites(s) and the roles and responsibilities of each.

3.x.7 Personnel. This paragraph shall identify the number, type, and skill level of personnel needed during the test period at the test site(s), the dates and times they will be needed, and any special needs, such as multishift operation and retention of key skills to ensure continuity and consistency in extensive test programs.

3.x.8 Orientation plan. This paragraph shall describe any orientation and training to be given before and during the testing. This information shall be related to the personnel needs given in 3.x.7. This training may include user instruction, operator instruction, maintenance and control group instruction, and orientation briefings to staff personnel. If extensive training is anticipated, a separate plan may be developed and referenced here.

3.x.9 Tests to be performed. This paragraph shall identify, by referencing section 4, the tests to be performed at the test site(s).

4. Test identification. This section shall be divided into the following paragraphs to identify and describe each test to which this STP applies.

4.1 General information. This paragraph shall be divided into subparagraphs to present general information applicable to the overall testing to be performed.

4.1.1 Test levels. This paragraph shall describe the levels at which testing will be performed, for example, CSCI level or system level.

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DI-IPSC-81438

10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

4.1.2 Test classes. This paragraph shall describe the types or classes of tests that will be performed (for example, timing tests, erroneous input tests, maximum capacity tests).

4.1.3 General test conditions. This paragraph shall describe conditions that apply to all of the tests or to a group of tests. For example: "Each test shall include nominal, maximum, and minimum values;" "each test of type x shall use live data;" "execution size and time shall be measured for each CSCI." Included shall be a statement of the extent of testing to be performed and rationale for the extent selected. The extent of testing shall be expressed as a percentage of some well defined total quantity, such as the number of samples of discrete operating conditions or values, or other sampling approach. Also included shall be the approach to be followed for retesting/regression testing.

4.1.4 Test progression. In cases of progressive or cumulative tests, this paragraph shall explain the planned sequence or progression of tests.

4.1.5 Data recording, reduction, and analysis. This paragraph shall identify and describe the data recording, reduction, and analysis procedures to be used during and after the tests identified in this STP. These procedures shall include, as applicable, manual, automatic, and semi-automatic techniques for recording test results, manipulating the raw results into a form suitable for evaluation, and retaining the results of data reduction and analysis.

4.2 Planned tests. This paragraph shall be divided into the following subparagraphs to describe the total scope of the planned testing.

4.2.x (Item(s) to be tested). This paragraph shall identify a CSCI, subsystem, system, or other entity by name and project-unique identifier, and shall be divided into the following subparagraphs to describe the testing planned for the item(s). (Note: the "tests" in this plan are collections of test cases. There is no intent to describe each test case in this document.)

4.2.x.y (Project-unique identifier of a test). This paragraph shall identify a test by project-unique identifier and shall provide the information specified below for the test. Reference may be made as needed to the general information in 4.1.

- a. Test objective
- b. Test level
- c. Test type or class
- d. Qualification method(s) as specified in the requirements specification
- e. Identifier of the CSCI requirements and, if applicable, software system requirements addressed by this test. (Alternatively, this information may be provided in Section 6.)
- f. Special requirements (for example, 48 hours of continuous facility time, weapon simulation, extent of test, use of a special input or database)
- g. Type of data to be recorded
- h. Type of data recording/reduction/analysis to be employed

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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

- i. Assumptions and constraints, such as anticipated limitations on the test due to system or test conditions--timing, interfaces, equipment, personnel, database, etc.
- j. Safety, security, and privacy considerations associated with the test

5. Test schedules. This section shall contain or reference the schedules for conducting the tests identified in this plan. It shall include:

- a. A listing or chart depicting the sites at which the testing will be scheduled and the time frames during which the testing will be conducted
- b. A schedule for each test site depicting the activities and events listed below, as applicable, in chronological order with supporting narrative as necessary:
 - 1) On-site test period and periods assigned to major portions of the testing
 - 2) Pretest on-site period needed for setting up the software test environment and other equipment, system debugging, orientation, and familiarization
 - 3) Collection of database/data file values, input values, and other operational data needed for the testing
 - 4) Conducting the tests, including planned retesting
 - 5) Preparation, review, and approval of the Software Test Report (STR)

6. Requirements traceability. This paragraph shall contain:

- a. Traceability from each test identified in this plan to the CSCI requirements and, if applicable, software system requirements it addresses. (Alternatively, this traceability may be provided in 4.2.x.y and referenced from this paragraph.)
- b. Traceability from each CSCI requirement and, if applicable, each software system requirement covered by this test plan to the test(s) that address it. The traceability shall cover the CSCI requirements in all applicable Software Requirements Specifications (SRSs) and associated Interface Requirements Specifications (IRSs), and, for software systems, the system requirements in all applicable System/Subsystem Specifications (SSSs) and associated system-level IRSs.

7. Notes. This section shall contain any general information that aids in understanding this document (e.g., background information, glossary, rationale). This section shall include an alphabetical listing of all acronyms, abbreviations, and their meanings as used in this document and a list of any terms and definitions needed to understand this document.

A. Appendixes. Appendixes may be used to provide information published separately for convenience in document maintenance (e.g., charts, classified data). As applicable, each appendix shall be referenced in the main body of the document where the data would normally have been provided. Appendixes may be bound as separate documents for ease in handling. Appendixes shall be lettered alphabetically (A, B, etc.).

DATA ITEM DESCRIPTION		<small>Form Approved OMB No. 0704-0188</small>	
1. TITLE <p style="text-align: center;">Quality Assurance Provisions</p>		2. IDENTIFICATION NUMBER <p style="text-align: center;">DI-CMAN-80789</p>	
3. DESCRIPTION/PURPOSE <p>3.1 Quality Assurance Provisions (QAPs) are the documented requirements, procedures, and criteria necessary for demonstrating that designs conform to user requirements and that material and associated services conform to approved designs.</p>			
4. APPROVAL DATE (YYMMDD) 890308	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) <p style="text-align: center;">MI</p>	6a. DTC APPLICABLE	6b. GIDEP APPLICABLE
7. APPLICATION/INTERRELATIONSHIP <p>7.1 This Data Item Description (DID) contains the format and preparation instructions for the QAP resulting from the work task described by 3.2 of MIL-T-47500/6.</p> <p>7.2 This DID is related to DI-CMAN-80788, "Quality Engineering Planning List".</p> <p>7.3 This DID supersedes DI-R-1765.</p>			
8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER <p style="text-align: center;">A4663</p>	
10. PREPARATION INSTRUCTIONS <p>10.1 <u>Reference documents.</u> The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments and revisions, shall be as specified in the contract.</p> <p>10.2 <u>Format and content.</u> QAP shall meet the requirements of MIL-T-47500/6 and the applicable selection worksheet incorporated in the contract or order.</p>			
11. DISTRIBUTION STATEMENT <p>DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.</p>			

DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0188

TITLE

COMMUNICATION SECURITY SYSTEM DESCRIPTION

1 IDENTIFICATION NUMBER

DI-MCCR-80340

3 DESCRIPTION/PURPOSE

3.1 The communication security (COMSEC) system description provides a description of a COMSEC system. It will describe in detail the COMSEC system's key management features.

3.1 The principle use of this description is to provide the Government Office of Key Management input for system certification.

4 APPROVAL DATE
(YYMMDD)

870415

5 OFFICE OF PRIMARY RESPONSIBILITY (OPRI)

G/S4

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 is applicable to the development and acquisition of a COMSEC system.

7.3 The requirements contained herein are applicable to all COMSEC system development, modification, and acquisition contracts.

8. APPROVAL LIMITATION

9a. APPLICABLE FORMS

9b. AMSC NUMBER

G4096

PREPARATION INSTRUCTIONS

10.1 General. This COMSEC system description documents in detail the COMSEC system's design to show that its design meets the Government Office of Key Management's key architecture guidelines.

10.2 Content requirements. The COMSEC system description shall contain the following information:

10.2.1 Introductory information. States the purpose of this COMSEC system.

10.2.1.1 Communications architecture. Defines the communications requirements (voice, data, net size, net merging, etc.) for this COMSEC system.

10.2.1.2 Keying scheme. Defines the keying scheme (source, method of distribution, distribution medium, storage requirements, etc.) for this COMSEC system.

10.2.2 Net structure. Defines and graphically displays the net structure for this system, to include graphic displays of the net control stations, crypto net control stations, net controllers, etc.

10.2.3 Access control. Defines how, when, and where access control will be enforced to validate the need and authority to request, generate, handle, distribute store, and/or use cryptographic key within this COMSEC system.

(Continued on Page 2)

DISTRIBUTION STATEMENT

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

Block 10, Preparation Instructions (Continued)

10.2.4 Accounting. Defines how, when, and where accounting data will be collected, maintained, updated, transferred, and used to document cryptographic key generation, distribution, storage, use, and destruction within this COMSEC system. Differentiation must be described between automatic versus human action accounting initiated features.

10.2.5 Distribution. Defines how, when, and where cryptographic key will be distributed and translated to or within this COMSEC system.

10.2.5.1 Vulnerability. Defines how the contractor's distribution scheme will reduce the vulnerability to cryptographic key used within this COMSEC system.

10.2.5.2 Integrity. Defines how the distribution method(s) will assure the integrity of cryptographic key during the distribution process.

10.2.5.3 Identification. Defines how this COMSEC system will identify cryptographic key during its distribution.

10.2.6 Generation. Defines the key generation process by which cryptographic key is produced and specifies the algorithm(s), equipment, and/or system(s) they will support.

10.2.7 Recovery. Defines the recovery process by which secure communications can be restored after loss or compromise of cryptographic key. Differentiation must be described between automatic electrical distribution versus physical distribution recovery methods.

10.2.8 Request. Defines how the user will order cryptographic key for use within this system.

10.2.9 Storage. Defines how, when, and where the user will store cryptographic key within this COMSEC system.

10.2.9.1 Integrity. Defines how this/these storage method(s) will assure integrity of cryptographic key during storage.

10.2.9.2 Identification. Defines how this COMSEC system will identify cryptographic key during its storage.

10.2.9.3 Capacity. Defines this COMSEC system's capacity for cryptographic key storage.

10.2.10. Usage. Defines the use/function of each cryptographic key used within this COMSEC system (key encryption key, traffic encryption key, key production key, TRANSEC key, etc.).

10.2.10.1 Integrity. Defines how this COMSEC system will assure the integrity of cryptographic key during its use.

10.2.10.2 Identification. Defines how this COMSEC system will identify cryptographic key during its use.

DATA ITEM DESCRIPTION		Form Approved OMB NO. 0704-0188	
Public reporting burden for collection of this information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Washington Headquarters Services, Directorate of Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.			
1. TITLE SYSTEM/SUBSYSTEM DESIGN DESCRIPTION (SSDD)		2. IDENTIFICATION NUMBER DI-IPSC-81432	
3. DESCRIPTION/PURPOSE			
<p>3.1 The System/Subsystem Design Description (SSDD) describes the system- or subsystem-wide design and the architectural design of a system or subsystem. The SSDD may be supplemented by Interface Design Descriptions (IDDs) (DI-IPSC-81436) and Database Design Descriptions (DBDDs) (DI-IPSC-81437) as described in Block 7 below.</p> <p>3.2 The SSDD, with its associated IDD's and DBDD's, is used as the basis for further system development. Throughout this DID, the term "system" may be interpreted to mean "subsystem" as applicable. The resulting document should be titled System Design Description or Subsystem Design Description (SSDD).</p>			
4. APPROVAL DATE (YYMMDD) 941205	5. OFFICE OF PRIMARY RESPONSIBILITY EC	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
7. APPLICATION/INTERRELATIONSHIP			
<p>7.1 This Data Item Description (DID) contains the format and content preparation instructions for the data product generated by specific and discrete task requirements as delineated in the contract.</p> <p>7.2 This DID is used when the developer is tasked define and record the design of a system or subsystem.</p> <p>7.3 Design pertaining to interfaces may be presented in the SSDD or in IDD's. Design pertaining to databases may be presented in the SSDD or in DBDD's.</p> <p>7.4 The Contract Data Requirements List (CDRL) (DD 1423) should specify whether deliverable data are to be delivered on paper or electronic media; are to be in a given electronic form (such as ASCII, CALS, or compatible with a specified word processor or other support software); may be delivered in developer format rather than in the format specified herein; and may reside in a computer-aided software engineering (CASE) or other automated tool rather than in the form of a traditional document.</p> <p>7.5 This DID supersedes DI-CMAN-80534 and DI-MCCR-80302.</p>			
8. APPROVAL LIMITATION Limited Approval from 12/5/94 through 12/5/96	9a. APPLICABLE FORMS	9b. AMSC NUMBER N7075	
10. PREPARATION INSTRUCTIONS			
<p>10.1 <u>General instructions.</u></p> <p>a. <u>Automated techniques.</u> Use of automated techniques is encouraged. The term "document" in this DID means a collection of data regardless of its medium.</p> <p>b. <u>Alternate presentation styles.</u> Diagrams, tables, matrices, and other presentation styles are acceptable substitutes for text when data required by this DID can be made more readable using these styles.</p> <p style="text-align: right;">(Continued on Page 2)</p>			
11. DISTRIBUTION STATEMENT			
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.			

System/Subsystem Design Description (SSDD)
DI-IPSC-81432

10. PREPARATION INSTRUCTIONS -- 10.1 General Instructions (continued)

- c. Title page or identifier. The document shall include a title page containing, as applicable: document number; volume number; version/revision indicator; security markings or other restrictions on the handling of the document; date; document title; name, abbreviation, and any other identifier for the system, subsystem, or item to which the document applies; contract number; CDRL item number; organization for which the document has been prepared; name and address of the preparing organization; and distribution statement. For data in a database or other alternative form, this information shall be included on external and internal labels or by equivalent identification methods.
- d. Table of contents. The document shall contain a table of contents providing the number, title, and page number of each titled paragraph, figure, table, and appendix. For data in a database or other alternative form, this information shall consist of an internal or external table of contents containing pointers to, or instructions for accessing, each paragraph, figure, table, and appendix or their equivalents.
- e. Page numbering/labeling. Each page shall contain a unique page number and display the document number, including version, volume, and date, as applicable. For data in a database or other alternative form, files, screens, or other entities shall be assigned names or numbers in such a way that desired data can be indexed and accessed.
- f. Response to tailoring instructions. If a paragraph is tailored out of this DID, the resulting document shall contain the corresponding paragraph number and title, followed by "This paragraph has been tailored out." For data in a database or other alternative form, this representation need occur only in the table of contents or equivalent.
- g. Multiple paragraphs and subparagraphs. Any section, paragraph, or subparagraph in this DID may be written as multiple paragraphs or subparagraphs to enhance readability.
- h. Standard data descriptions. If a data description required by this DID has been published in a standard data element dictionary specified in the contract, reference to an entry in that dictionary is preferred over including the description itself.
- i. Substitution of existing documents. Commercial or other existing documents may be substituted for all or part of the document if they contain the required data.

10.2 Content requirements. Content requirements begin on the following page. The numbers shown designate the paragraph numbers to be used in the document. Each such number is understood to have the prefix "10.2" within this DID. For example, the paragraph numbered 1.1 is understood to be paragraph 10.2.1.1 within this DID.

System/Subsystem Design Description (SSDD)
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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

1. Scope. This section shall be divided into the following paragraphs.

1.1 Identification. This paragraph shall contain a full identification of the system to which this document applies, including, as applicable, identification number(s), title(s), abbreviation(s), version number(s), and release number(s).

1.2 System overview. This paragraph shall briefly state the purpose of the system to which this document applies. It shall describe the general nature of the system; summarize the history of system development, operation, and maintenance; identify the project sponsor, acquirer, user, developer, and support agencies; identify current and planned operating sites; and list other relevant documents.

1.3 Document overview. This paragraph shall summarize the purpose and contents of this document and shall describe any security or privacy considerations associated with its use.

2. Referenced documents. This section shall list the number, title, revision, and date of all documents referenced in this document. This section shall also identify the source for all documents not available through normal Government stocking activities.

3. System-wide design decisions. This section shall be divided into paragraphs as needed to present system-wide design decisions, that is, decisions about the system's behavioral design (how it will behave, from a user's point of view, in meeting its requirements, ignoring internal implementation) and other decisions affecting the selection and design of system components. If all such decisions are explicit in the requirements or are deferred to the design of the system components, this section shall so state. Design decisions that respond to requirements designated critical, such as those for safety, security, or privacy, shall be placed in separate subparagraphs. If a design decision depends upon system states or modes, this dependency shall be indicated. Design conventions needed to understand the design shall be presented or referenced. Examples of system-wide design decisions are the following:

- a. Design decisions regarding inputs the system will accept and outputs it will produce, including interfaces with other systems, configuration items, and users (4.3.x of this DID identifies topics to be considered in this description). If part or all of this information is given in Interface Design Descriptions (IDDs), they may be referenced.
- b. Design decisions on system behavior in response to each input or condition, including actions the system will perform, response times and other performance characteristics, description of physical systems modeled, selected equations/algorithms/rules, and handling of unallowed inputs or conditions.
- c. Design decisions on how system databases/data files will appear to the user (4.3.x of this DID identifies topics to be considered in this description). If part or all of this information is given in Database Design Descriptions (DBDDs), they may be referenced.
- d. Selected approach to meeting safety, security, and privacy requirements.

System/Subsystem Design Description (SSDD)
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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

- e. Design and construction choices for hardware or hardware-software systems, such as physical size, color, shape, weight, materials, and markings.
- f. Other system-wide design decisions made in response to requirements, such as selected approach to providing required flexibility, availability, and maintainability.

4. System architectural design. This section shall be divided into the following paragraphs to describe the system architectural design. If part or all of the design depends upon system states or modes, this dependency shall be indicated. If design information falls into more than one paragraph, it may be presented once and referenced from the other paragraphs. Design conventions needed to understand the design shall be presented or referenced.

Note: For brevity, this section is written in terms of organizing a system directly into Hardware Configuration Items (HWCIs), Computer Software Configuration Items (CSCIs), and manual operations, but should be interpreted to cover organizing a system into subsystems, organizing a subsystem into HWCIs, CSCIs, and manual operations, or other variations as appropriate.

4.1 System components. This paragraph shall:

- a. Identify the components of the system (HWCIs, CSCIs, and manual operations). Each component shall be assigned a project-unique identifier. Note: a database may be treated as a CSCI or as part of a CSCI.
- b. Show the static (such as "consists of") relationship(s) of the components. Multiple relationships may be presented, depending on the selected design methodology.
- c. State the purpose of each component and identify the system requirements and system-wide design decisions allocated to it. (Alternatively, the allocation of requirements may be provided in 5.a.)
- d. Identify each component's development status/type, if known (such as new development, existing component to be reused as is, existing design to be reused as is, existing design or component to be reengineered, component to be developed for reuse, component planned for Build N, etc.) For existing design or components, the description shall provide identifying information, such as name, version, documentation references, location, etc.
- e. For each computer system or other aggregate of computer hardware resources identified for use in the system, describe its computer hardware resources (such as processors, memory, input/output devices, auxiliary storage, and communications/network equipment). Each description shall, as applicable, identify the configuration items that will use the resource, describe the allocation of resource utilization to each CSCI that will use the resource (for example, 20% of the resource's capacity allocated to CSCI 1, 30% to CSCI 2), describe the conditions under which utilization will be measured, and describe the characteristics of the resource:

System/Subsystem Design Description (SSDD)
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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

- 1) Descriptions of computer processors shall include, as applicable, manufacturer name and model number, processor speed/capacity, identification of instruction set architecture, applicable compiler(s), word size (number of bits in each computer word), character set standard (such as ASCII, EBCDIC), and interrupt capabilities.
 - 2) Descriptions of memory shall include, as applicable, manufacturer name and model number and memory size, type, speed, and configuration (such as 256K cache memory, 16MB RAM (4MB x 4)).
 - 3) Descriptions of input/output devices shall include, as applicable, manufacturer name and model number, type of device, and device speed/capacity.
 - 4) Descriptions of auxiliary storage shall include, as applicable, manufacturer name and model number, type of storage, amount of installed storage, and storage speed.
 - 5) Descriptions of communications/network equipment, such as modems, network interface cards, hubs, gateways, cabling, high speed data lines, or aggregates of these or other components, shall include, as applicable, manufacturer name and model number, data transfer rates/capacities, network topologies, transmission techniques, and protocols used.
 - 6) Each description shall also include, as applicable, growth capabilities, diagnostic capabilities, and any additional hardware capabilities relevant to the description.
- f. Present a specification tree for the system, that is, a diagram that identifies and shows the relationships among the planned specifications for the system components.

4.2 Concept of execution. This paragraph shall describe the concept of execution among the system components. It shall include diagrams and descriptions showing the dynamic relationship of the components, that is, how they will interact during system operation, including, as applicable, flow of execution control, data flow, dynamically controlled sequencing, state transition diagrams, timing diagrams, priorities among components, handling of interrupts, timing/sequencing relationships, exception handling, concurrent execution, dynamic allocation/deallocation, dynamic creation/deletion of objects, processes, tasks, and other aspects of dynamic behavior.

4.3 Interface design. This paragraph shall be divided into the following subparagraphs to describe the interface characteristics of the system components. It shall include both interfaces among the components and their interfaces with external entities such as other systems, configuration items, and users. Note: There is no requirement for these interfaces to be completely designed at this level; this paragraph is provided to allow the recording of interface design decisions made as part of system architectural design. If part or all of this information is contained in Interface Design Descriptions (IDDs) or elsewhere, these sources may be referenced.

System/Subsystem Design Description (SSDD)
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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

4.3.1 Interface identification and diagrams. This paragraph shall state the project-unique identifier assigned to each interface and shall identify the interfacing entities (systems, configuration items, users, etc.) by name, number, version, and documentation references, as applicable. The identification shall state which entities have fixed interface characteristics (and therefore impose interface requirements on interfacing entities) and which are being developed or modified (thus having interface requirements imposed on them). One or more interface diagrams shall be provided, as appropriate, to depict the interfaces.

4.3.x (Project-unique identifier of interface). This paragraph (beginning with 4.3.2) shall identify an interface by project-unique identifier, shall briefly identify the interfacing entities, and shall be divided into subparagraphs as needed to describe the interface characteristics of one or both of the interfacing entities. If a given interfacing entity is not covered by this SSDD (for example, an external system) but its interface characteristics need to be mentioned to describe interfacing entities that are, these characteristics shall be stated as assumptions or as "When [the entity not covered] does this, [the entity that is covered] will" This paragraph may reference other documents (such as data dictionaries, standards for protocols, and standards for user interfaces) in place of stating the information here. The design description shall include the following, as applicable, presented in any order suited to the information to be provided, and shall note any differences in these characteristics from the point of view of the interfacing entities (such as different expectations about the size, frequency, or other characteristics of data elements):

- a. Priority assigned to the interface by the interfacing entity(ies)
- b. Type of interface (such as real-time data transfer, storage-and-retrieval of data, etc.) to be implemented
- c. Characteristics of individual data elements that the interfacing entity(ies) will provide, store, send, access, receive, etc., such as:
 - 1) Names/identifiers
 - a) Project-unique identifier
 - b) Non-technical (natural-language) name
 - c) DoD standard data element name
 - d) Technical name (e.g., variable or field name in code or database)
 - e) Abbreviation or synonymous names
 - 2) Data type (alphanumeric, integer, etc.)
 - 3) Size and format (such as length and punctuation of a character string)
 - 4) Units of measurement (such as meters, dollars, nanoseconds)
 - 5) Range or enumeration of possible values (such as 0-99)
 - 6) Accuracy (how correct) and precision (number of significant digits)
 - 7) Priority, timing, frequency, volume, sequencing, and other constraints, such as whether the data element may be updated and whether business rules apply
 - 8) Security and privacy constraints
 - 9) Sources (setting/sending entities) and recipients (using/receiving entities)

System/Subsystem Design Description (SSDD)
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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

- d. Characteristics of data element assemblies (records, messages, files, arrays, displays, reports, etc.) that the interfacing entity(ies) will provide, store, send, access, receive, etc., such as:
 - 1) Names/identifiers
 - a) Project-unique identifier to be used for traceability
 - b) Non-technical (natural language) name
 - c) Technical name (e.g., record or data structure name in code or database)
 - d) Abbreviations or synonymous names
 - 2) Data elements in the assembly and their structure (number, order, grouping)
 - 3) Medium (such as disk) and structure of data elements/assemblies on the medium
 - 4) Visual and auditory characteristics of displays and other outputs (such as colors, layouts, fonts, icons and other display elements, beeps, lights)
 - 5) Relationships among assemblies, such as sorting/access characteristics
 - 6) Priority, timing, frequency, volume, sequencing, and other constraints, such as whether the assembly may be updated and whether business rules apply
 - 7) Security and privacy constraints
 - 8) Sources (setting/sending entities) and recipients (using/receiving entities)
- e. Characteristics of communication methods that the interfacing entity(ies) will use for the interface, such as:
 - 1) Project-unique identifier(s)
 - 2) Communication links/bands/frequencies/media and their characteristics
 - 3) Message formatting
 - 4) Flow control (such as sequence numbering and buffer allocation)
 - 5) Data transfer rate, whether periodic/aperiodic, and interval between transfers
 - 6) Routing, addressing, and naming conventions
 - 7) Transmission services, including priority and grade
 - 8) Safety/security/privacy considerations, such as encryption, user authentication, compartmentalization, and auditing
- f. Characteristics of protocols that the interfacing entity(ies) will use for the interface, such as:
 - 1) Project-unique identifier(s)
 - 2) Priority/layer of the protocol
 - 3) Packeting, including fragmentation and reassembly, routing, and addressing
 - 4) Legality checks, error control, and recovery procedures
 - 5) Synchronization, including connection establishment, maintenance, termination
 - 6) Status, identification, and any other reporting features
- g. Other characteristics, such as physical compatibility of the interfacing entity(ies) (dimensions, tolerances, loads, voltages, plug compatibility, etc.)

System/Subsystem Design Description (SSDD)
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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

5. Requirements traceability. This paragraph shall contain:

- a. Traceability from each system component identified in this SSDD to the system requirements allocated to it. (Alternatively, this traceability may be provided in 4.1.)
- b. Traceability from each system requirement to the system components to which it is allocated.

6. Notes. This section shall contain any general information that aids in understanding this document (e.g., background information, glossary, rationale). This section shall contain an alphabetical listing of all acronyms, abbreviations, and their meanings as used in this document and a list of any terms and definitions needed to understand this document.

A. Appendixes. Appendixes may be used to provide information published separately for convenience in document maintenance (e.g., charts, classified data). As applicable, each appendix shall be referenced in the main body of the document where the data would normally have been provided. Appendixes may be bound as separate documents for ease in handling. Appendixes shall be lettered alphabetically (A, B, etc.).

DATA ITEM DESCRIPTION		Form Approved OMB NO. 0704-0188	
Public reporting burden for collection of this information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Washington Headquarters Services, Directorate of Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.			
1. TITLE COMPUTER OPERATION MANUAL (COM)		2. IDENTIFICATION NUMBER DI-IPSC-81446	
3. DESCRIPTION/PURPOSE 3.1 The Computer Operation Manual (COM) provides information needed to operate a given computer and its peripheral equipment. This manual focuses on the computer itself, not on particular software that will run on the computer. 3.2 The COM is intended for newly developed computers, special-purpose computers, or other computers for which commercial or other operation manuals are not readily available.			
4. APPROVAL DATE (YYMMDD) 941205	5. OFFICE OF PRIMARY RESPONSIBILITY EC	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 specific and discrete task requirements as delineated in the contract. 7.2 This DID is used when the developer is tasked to identify and record information needed to operate the computer(s) on which software will run. 7.3 The Contract Data Requirements List (CDRL) (DD 1423) should specify whether deliverable data are to be delivered on paper or electronic media; are to be in a given electronic form (such as ASCII, CALS, or compatible with a specified word processor or other support software); may be delivered in developer format rather than in the format specified herein; and may reside in a computer-aided software engineering (CASE) or other automated tool rather than in the form of a traditional document. 7.4 This DID supersedes DI-MCCR-80018A and DI-MCCR-80316.			
8. APPROVAL LIMITATION Limited Approval from 12/5/94 through 12/5/96	9a. APPLICABLE FORMS	9b. AMSC NUMBER N7089	
10. PREPARATION INSTRUCTIONS 10.1 <u>General instructions.</u> a. <u>Automated techniques.</u> Use of automated techniques is encouraged. The term "document" in this DID means a collection of data regardless of its medium. b. <u>Alternate presentation styles.</u> Diagrams, tables, and other presentation styles are acceptable substitutes for text when data required by this DID can be made more readable using these styles. <p style="text-align: right;">(Continued on Page 2)</p>			
11. DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.			

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10. PREPARATION INSTRUCTIONS -- 10.1 General Instructions (continued)

- c. Title page or identifier. The document shall include a title page containing, as applicable: document number; volume number; version/revision indicator; security markings or other restrictions on the handling of the document; date; document title; name, abbreviation, and any other identifier for the system, subsystem, or item to which the document applies; contract number; CDRL item number; organization for which the document has been prepared; name and address of the preparing organization; and distribution statement. For data in a database or other alternative form, this information shall be included on external and internal labels or by equivalent identification methods.
- d. Table of contents and index. The document shall contain a table of contents providing the number, title, and page number of each titled paragraph, figure, table, and appendix, and an index providing an alphabetic listing of key terms and concepts covered in the document and the pages or paragraphs in which the terms or concepts are covered. For data in a database or other alternative form, this information shall consist of an internal or external table of contents containing pointers to, or instructions for accessing, each paragraph, figure, table, and appendix or their equivalents.
- e. Page numbering/labeling. Each page shall contain a unique page number and display the document number, including version, volume, and date, as applicable. For data in a database or other alternative form, files, screens, or other entities shall be assigned names or numbers in such a way that desired data can be indexed and accessed.
- f. Response to tailoring instructions. If a paragraph is tailored out of this DID, the resulting document shall contain the corresponding paragraph number and title, followed by "This paragraph has been tailored out." For data in a database or other alternative form, this representation need occur only in the table of contents or equivalent.
- g. Multiple paragraphs and subparagraphs. Any section, paragraph, or subparagraph in this DID may be written as multiple paragraphs or subparagraphs to enhance readability.
- h. Standard data descriptions. If a data description required by this DID has been published in a standard data element dictionary specified in the contract, reference to an entry in that dictionary is preferred over including the description itself.
- i. Substitution of existing documents. Commercial or other existing documents may be substituted for all or part of the document if they contain the required data.

10.2 Content requirements. Content requirements begin on the following page. The numbers shown designate the paragraph numbers to be used in the document. Each such number is understood to have the prefix "10.2" within this DID. For example, the paragraph numbered 1.1 is understood to be paragraph 10.2.1.1 within this DID.

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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

1. Scope. This section shall be divided into the following paragraphs.

1.1 Identification. This paragraph shall contain the manufacturer's name, model number, and any other identifying information for the computer system to which this COM applies.

1.2 Computer system overview. This paragraph shall briefly state the purpose of the computer system to which this COM applies.

1.3 Document overview. This paragraph shall summarize the purpose and contents of this manual and shall describe any security or privacy considerations associated with its use.

2. Referenced documents. This section shall list the number, title, revision, and date of all documents referenced in this manual. This section shall also identify the source for all documents not available through normal Government stocking activities.

3. Computer system operation. This section shall be divided into the following paragraphs. Safety precautions, marked by WARNING or CAUTION, shall be included where applicable.

3.1 Computer system preparation and shutdown. This paragraph shall be divided into the following subparagraphs.

3.1.1 Power on and off. This paragraph shall contain the procedures necessary to power-on and power-off the computer system.

3.1.2 Initiation. This paragraph shall contain the procedures necessary to initiate operation of the computer system, including, as applicable, equipment setup, pre-operation, bootstrapping, and commands typically used during computer system initiation.

3.1.3 Shutdown. This paragraph shall contain the procedures necessary to terminate computer system operation.

3.2 Operating procedures. This paragraph shall be divided into the following subparagraphs. If more than one mode of operation is available, instructions for each mode shall be provided.

3.2.1 Input and output procedures. This paragraph shall describe the input and output media (e.g., magnetic disk, tape) relevant to the computer system, state the procedures to read and write on these media, briefly describe the operating system control language, and list procedures for interactive messages and replies (e.g., terminals to use, passwords, keys).

3.2.2 Monitoring procedures. This paragraph shall contain the procedures to be followed for monitoring the computer system in operation. It shall describe available indicators, interpretation of those indicators, and routine and special monitoring procedures to be followed.

3.2.3 Off-line procedures. This paragraph shall contain the procedures necessary to operate all relevant off-line equipment of the computer system.

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10. PREPARATION INSTRUCTIONS -- 10.2 Content Requirements (continued)

3.2.4 Other procedures. This paragraph shall contain any additional procedures to be followed by the operator (e.g., computer system alarms, computer system security or privacy considerations, switch over to a redundant computer system, or other measures to ensure continuity of operations in the event of emergencies).

3.3 Problem-handling procedures. This paragraph shall identify problems that may occur in any step of operation described in the preceding paragraphs in Section 3. It shall state the error messages or other indications accompanying those problems and shall describe the automatic and manual procedures to be followed for each occurrence, including, as applicable, evaluation techniques, conditions requiring computer system shutdown, procedures for on-line intervention or abort, steps to be taken to restart computer system operation after an abort or interruption of operation, and procedures for recording information concerning a malfunction.

4. Diagnostic features. This section shall be divided into the following paragraphs to describe diagnostics that may be performed to identify and troubleshoot malfunctions in the computer system.

4.1 Diagnostic features summary. This paragraph shall summarize the diagnostic features of the computer system, including error message syntax and hierarchy for fault isolation. This paragraph shall describe the purpose of each diagnostic feature.

4.2 Diagnostic procedures. This paragraph shall be divided into subparagraphs as needed to describe the diagnostic procedures to be followed for the computer system, including:

- a. Identification of hardware, software, or firmware necessary for executing each procedure
- b. Step-by-step instructions for executing each procedure
- c. Diagnostic messages and the corresponding required action

4.3 Diagnostic tools. This paragraph shall be divided into subparagraphs as needed to describe the diagnostics tools available for the computer system. These tools may be hardware, software, or firmware. This paragraph shall identify each tool by name and number and shall describe the tool and its application.

5. Notes. This section shall contain any general information that aids in understanding this document (e.g., background information, glossary, rationale). This section shall include an alphabetical listing of all acronyms, abbreviations, and their meanings as used in this document and a list of terms and definitions needed to understand this document.

A. Appendixes. Appendixes may be used to provide information published separately for convenience in document maintenance (e.g., charts, classified data). As applicable, each appendix shall be referenced in the main body of the document where the data would normally have been provided. Appendixes may be bound as separate documents for ease in handling. Appendixes shall be lettered alphabetically (A, B, etc.).

1. DATA ITEM DESCRIPTION		Form Approved OMB No. 0704-0188	
TITLE TEST PLAN		2. IDENTIFICATION NUMBER DI-NDTI-80566	
3. DESCRIPTION/PURPOSE 3.1 The Test Plan outlines the plans and performance objectives at every level of testing on systems or equipment. It provides the procuring activity with the test concept, objectives and requirements to be satisfied, test methods, elements, responsible activities associated with the testing, measures required, and recording procedures to be used.			
4. APPROVAL DATE (YYMMDD) 880413	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) G/T213	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
7. APPLICATION/INTERRELATIONSHIP 7.1 The Data Item Description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirements as delineated in the contract. 7.2 This DID is applicable to system and equipment tests that include design evaluation tests, engineering tests, preliminary qualification tests, formal qualification tests, human factor tests, operational tests and acceptance tests. (Continued on Page 2)			
8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER 64379	
10. PREPARATION INSTRUCTIONS 10.1 <u>General</u> . The test plan shall document in detail the contractor's plan for conducting tests and analyzing the test results to show how the system, when fielded, will satisfy the requirements of the applicable design specification. 10.2 <u>Format</u> . The plan shall be in the contractor's format. 10.3 <u>Content</u> . 10.3.1 <u>Title page</u> . The title page shall include the following: a. Title of the test to be conducted. b. Identification of system being tested. c. Contractor's name. d. Contract number. e. Security classification. f. Distribution statement. 10.3.2 <u>Introduction</u> . Consists of an overview of the objectives of the test plan, including flow diagrams, milestones, personnel participation, locations, schedules, and security measures to be observed. The plan shall include the following: (Continued on Page 2)			
11. DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.			

Block 7, APPLICATION/INTERRELATIONSHIP (continued)

7.3 This DID supersedes DI-T-5204.

Block 10, PREPARATION INSTRUCTIONS (continued)

10.3.3 Flow Diagrams. The flow diagrams will reflect a functional description of the test program using a block diagram portrayal of the functions that must be met to satisfy the total test program. Functions shall be numbered 1.0, 2.0, 3.0, etc.

10.3.4 Milestones. Identifies the start and expected completion dates of each test to be performed.

10.3.5 Participation. Identifies the government and contractor participation roles and responsibilities.

10.3.6 Location. Identifies the facilities where the testing will be performed.

10.3.7 Schedule. States when testing will be performed, whether testing is on schedule, and if not, what procedures will be taken to meet the schedule.

10.3.8 Security. Identify and state briefly any security measures or guidelines to be observed.

10.3.9 Master test list. Lists all tests to be accomplished in the order they are to be performed. A separate listing for each location shall be provided. Each listing shall include the following:

10.3.9.1 Test description. Name and brief description of test to be performed.

10.3.9.2 Applicable specification(s). The specifications shall be identified as follows:

- a. Title and identification number.
- b. Paragraph number associated with the test.
- c. Title of test.
- d. Functional category of test.

10.3.9.3 Parameters. The number of cycles the test will be performed and selected parameters to be observed.

10.3.9.4 Special tests. Provides a list of special or unusual tests and examinations necessary to verify satisfactory equipment performance to specifications.

Block 10, PREPARATION INSTRUCTIONS (continued)

10.3.9.5 Test classification category. State the functional area of each test performed.

10.3.9.6 Test Objectives. Describes the objective of each test performed, including the criteria, baseline, duration, and number of times each test should be performed.

- a. Success/failure criteria.
- b. Baseline.
- c. Duration.
- d. Quantity of test.

10.3.9.7 Test equipment. List all equipment to be used in the test and identify as follows:

- a. Description.
- b. Nomenclature
- c. Serial number.

10.3.9.8 Support equipment. List all support equipment that will be used to perform the tests and identify as follows:

- a. Description.
- b. Nomenclature
- c. Serial Number.
- d. Calibration constants.
- e. Calibration procedures.
- f. Operating instructions.

10.3.9.9 Special test equipment. List all special test equipment required to be designed or fabricated for use on the program as follows:

- a. Description.
- b. Nomenclature.
- c. Date required.

10.3.9.10 Approach. Describes the steps used to perform each test.

10.3.9.11 Instrumentation. Indicates the type and recording devices that will be used and the number and types of parameters to be recorded.

10.3.9.12 Data reduction and analysis. Describes data to be recorded and the data reduction and analysis techniques that will be used to interpret the data.

10.3.9.13 Government test facilities. Identifies applicable facility and includes a reference to the appropriate facility requirements documents.

10.3.10 Validation procedure. An overview of the procedures that the contractor will use to validate the test results.