

SCOPE OF WORK
M1A2, M1A2 SEP, AND WOLVERINE
TRAINING DEVICES SOFTWARE CONVERSION

C.100 GENERAL

C.100.1 The contractor, as an independent contractor, and not as an agent of the Government, for the period set forth in this contract, shall furnish the supplies and services necessary: to support the development and evaluation of the modified M1A2 and M1A2 SEP Tank Soldier-Machine Interface (SMI) Software for use in the M1A2 and M1A2 SEP Tank Gunnery and Tactical Trainers; Part Task Trainers and Maintenance Trainers. The contractor shall provide updates to M1A2, M1A2 SEP, and Wolverine software solutions previously developed and qualified during proof of concept phase, as described by the Government.

C.100.2 The contractor shall provide the SMI process in support of other Ground Combat and Support Systems (GCSS) as required.

C.101 MANAGEMENT AND ADMINISTRATION

C.101.1 The contractor shall manage and control resources to ensure timely performance in the most economical and beneficial manner to the Government.

C.101.2 Contract Administration Data and Work Directives shall be prepared by the contractor and shall clearly and simply define the work to be accomplished.

C.101.3 The contractor will perform all administrative support to the Abrams Program Manager or the Wolverine Product Manager for selected Government briefings and presentations.

C.101.4 A Contracting Officer's Technical Representative (COTR) shall be appointed to monitor this contract.

C.102 PERFORMANCE TASKS

C.102.1 The contractor shall provide necessary interface and liaison effort as required by the Government to perform the tasks described in each Work Directive.

C.102.2 The contractor shall make maximum use of the system architecture, interfaces, and development processes previously defined and developed during the proof of concept phase.

C.102.3 Upon receipt of tank/Wolverine software (SEP, M1A2, and Wolverine Foreign and Domestic) from the government, the contractor shall port, augment, compile and package that portion of the tank software necessary to reflect the soldier-machine interface (SMI) of the applicable version of tank/Wolverine software. The contractor will validate the correctness of the converted software by using approved test procedures. The contractor shall update and maintain the Interface Control Document(s) (ICD), Software Design Documents, and the Process Description Documents.

Attachment 001

C.102.4 As directed by the Government, the contractor will develop and implement a mini-host software package capable of providing automated validation of the converted software, and be used in a demonstration environment.

C.103 SYSTEM ARCHITECTURE

C.103.1 The system architecture developed and validated during the proof of concept phase will continue to be utilized to support a software library solution and a black box solution using the M1A2, M1A2 SEP, or Wolverine tank software for the SMI portion of the tank training devices. The black box solution will involve the use of a stand-alone computing system running the SMI software.

This computing system will be networked with the host computing system over an intra-simulator network. The software library solution will be a subset of the black box solution and will be designed for ease of integration into standard UNIX, LINUX, or another commercially available operating system environment with Government approval. Information exchange between the SMI Software and the host computing system will be per a well defined ICD. The SMI Software will interface to the simulator/trainer SMI displays through the x-window protocol or another Government approved protocol.

C.104 SMI TO HOST INTERFACES

C.104.1 The System architecture will support three levels of software interfaces that enable the SMI software and the host computing system to exchange information.

C.104.1.1 Direct Functional Interface - This interface will provide a library of functions that will be directly callable by the software and the host computing system for exchange of SMI software information. This interface will support communication between the SMI software and the host computing system when they are co-resident on the same processor.

C.104.1.2 Black Box Network Interface - This interface will provide a packet oriented interface that accepts and transmits data packet relevant to the SMI software over an intra-simulator network. This interface requires the SMI software and host computing system to prepare and transmit data packets. The interface will support communication between the SMI software and the host computing system when the black box approach is used.

C.104.1.3 Remote functional Interface- This interface will provide a library of functions for incorporation into the host computing system that will prepare and transmit data packets to the black box network interface. This interface will support communication between the SMI software and the host computing system when they run on separate processors. This interface is specific to the host computing system and may require modification for each training device.

C.104.2 The Government may also request that similar work effort be completed on the following components:

- a. Radio Interface Unit (RIU)
- b. Position Navigation (POS/NAV)
- c. M1A2 and M1A2 SEP Display Diagnostics Software
- d. Wolverine system software and training devices

C.105 GOVERNMENT FURNISHED EQUIPMENT

C.105.1 The Government will provide an electronic copy of the latest version of fielded M1A2, M1A2 SEP, and Wolverine Tank Software documentation required to complete the contract.

C.105.2 The Government will provide the contractor access to an M1A2, M1A2 SEP, and Wolverine Tank for the purpose of augmenting the available documentation.

C.106 DELIVERABLES

C.106.1 The reports to be delivered to the Government in agreed to media format are:

- a. Updates to the ICD, process description, source and executable code and software documentation.
- b. Mini-host software source code.
- c. Test Reports.
- d. Cost and Performance reports for the total contract effort described by individual Work Directives in accordance with Data Item Description DI-FNCL-80912 and Contract Data Requirements List DD Form 1423.
- e. Integrated Product Team (IPT) minutes, monthly reports, milestone schedules, or any other reports required or described by individual Work Directives.

C.107 TRAVEL

C.107.1 The contractor shall be required to travel to various locations for reviews as directed by the Government. Contractor will travel in accordance with the Joint Travel Regulation (JTR).

**U.S. ARMY TANK AUTOMOTIVE AND ARMAMENTS COMMAND
WORK DIRECTIVE**

CONTRACTOR: Oasis Advanced Engineering, Inc.

WORK DIRECTIVE NO.

CONTRACT NO.: DAAE20-03

DELIVERY ORDER:

Sheet 1 of 2

CONTRACT REFERENCE: Abrams Common Software Library

Date: 21 Feb 03

PROGRAM/VEHICLE: Abrams Tank System

SUBJECT: Abrams Common Software Library (ACSL) for M1A2, M1A2 SEP and Wolverine

0.0 OBJECTIVE

Convert M1A2, M1A2 SEP, and Wolverine vehicle software into vehicle specific Abrams Common Software Libraries (ACSL) for use in applicable vehicle training devices.

1.0 REQUIREMENTS

- A. **BASELINE VEHICLE CONFIGURATION** – The contractor shall use the latest fielded versions of the vehicle software for work performed under this work directive.
- B. **SYSTEM ARCHITECTURE** – The contractor shall continue to convert the vehicle software into the existing ACSL architectures.
- C. **STANDARDS** – The contractor shall use the Ada programming language for modifications made to the ACSLs, unless directed otherwise by the government. The contractor shall have the option to use Ada, C, and C++ programming languages for non-ACSL software in accordance with the contractor’s internal software programming standards

2.0 TASKS

- A. Provide program management to ensure that the development and delivery of the ACSL releases and documentation are accomplished on schedule.
- B. Conduct monthly teleconference program status reviews and submit monthly Cost and Performance Reports in contractor format.
- C. Analyze the latest version of the vehicle specific software releases with their associated documentation and define the modifications that are required to convert the releases into vehicle specific ACSL releases.
- D. Implement the required ACSL changes, based on the analysis conducted and as directed by the government.
- E. Maintain the vehicle specific ACSL Software Design Documents, Interface Control Documents, and Application Programmer Interface Documents.
- F. Develop engineering documentation per contractor software engineering standards and as requested by the government.
- G. Update tools and test suites required to conduct contractor testing and to support government acceptance test of the ACSL releases.
- H. Conduct engineering, Quality Assurance, and government verification and acceptance tests.
- I. Deliver formal and engineering ACSL releases to training device prime contractors as directed by the government.

Approved by the Contracting Officer’s Technical Representative: Anamica R. Bhandari _____ Date: _____

Approval: Contracting Officer: _____ Date: _____

Acknowledgement: Contractor’s Representative: _____ Date: _____

attachment 002

U.S. ARMY TANK AUTMOTIVE AND ARMAMENTS COMMAND
WORK DIRECTIVE

CONTRACTOR:
Oasis Advanced Engineering, Inc.

WORK DIRECTIVE No.:

Sheet 2 of 2

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- J. Provide technical assistance to the training device contractors on an as-required basis, including phone consultation and responses to written questions relating to ACSLs. Technical support regarding non-ACSL training device issues may be provided at the direction of the government.

3.0 GOVERNMENT-FURNISHED EQUIPMENT/ITEMS (GFE/I)

- A. As available, the government will provide vehicle source code and documentation for use in the development and enhancements of the vehicle specific ACSLs.
- B. As required by the contractor, the government will provide access to vehicles to allow the contractor to verify vehicle software performance.
- C. If required, technical support shall be available from the prime vehicle contractors to answer questions about the vehicle software releases. The government will make arrangements for this technical support. Cost for the technical support will be paid for by the government and is not included in the cost of this work directive.

4.0 DELIVERABLES

- A. Monthly Cost and Performance reports in contractor format
- B. ACSL releases on CDROM, as directed by the government
- C. ACSL source code, as directed by the government
- D. ACSL tools and test suites, as directed by the government
- E. IPT meeting minutes, Milestone Schedules and any other documents as directed by the government. Documents shall be submitted in contractor format.

5.0 SCHEDULE

The period of performance for this level-of-effort (LOE) work directive is twelve (12) months.

6.0 BASE HOURS

Engineering hours	6,700
Program Management hours	300
Total per year	7,000

7.0 BASE TRAVEL & MATERIAL

Estimated travel cost is: \$ 2,000

Estimated material cost is: \$ 0,000

DATA ITEM DESCRIPTION		Form Approved OMB 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. ANSC 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 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 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 (YYMMDD) 951120	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) N/PMS400G35	6a. DTIC APPLICABLE	6b. GIDEP 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.

Attachment 004

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	
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 (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 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.

Software Requirements Specification (SRS)
DI-IPSC-81433

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.

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 (IRSs) 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

Software Requirements Specification (SRS)
DI-IPSC-81433

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)

Software Requirements Specification (SRS)
DI-IPSC-81433

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).

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.).

DATA ITEM DESCRIPTION			<i>Form Approved</i> OMB NO.0704-0188	
<small>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.</small>				
1. TITLE			2. IDENTIFICATION NUMBER	
SOFTWARE TEST REPORT (STR)			DI-IPSC-81440	
3. DESCRIPTION/PURPOSE				
<p>3.1 The Software Test Report (STR) is a record of the qualification testing performed on a Computer Software Configuration Item (CSCI), a software system or subsystem, or other software-related item.</p> <p>3.2 The STR enables the acquirer to assess the testing and its results.</p>				
4. APPROVAL DATE <small>(YYMMDD)</small> 941205		5. OFFICE OF PRIMARY RESPONSIBILITY EC		6a. DTIC 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 to analyze and record the results of CSCI qualification testing, system qualification testing of a software system, or other testing identified in the contract.</p> <p>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.</p> <p>7.4 This DID supersedes DI-MCCR-80017A, DI-IPSC-80698, and DI-MCCR-80311.</p>				
8. APPROVAL LIMITATION Limited Approval from 12/5/94 through 12/5/96			9a. APPLICABLE FORMS	
			9b. AMSC NUMBER N7083	
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.				

Attachment 006

Software Test Report (STR)
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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.

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

3. Overview of test results. This section shall be divided into the following paragraphs to provide an overview of test results.

3.1 Overall assessment of the software tested. This paragraph shall:

- a. Provide an overall assessment of the software as demonstrated by the test results in this report
- b. Identify any remaining deficiencies, limitations, or constraints that were detected by the testing performed. Problem/change reports may be used to provide deficiency information.
- c. For each remaining deficiency, limitation, or constraint, describe:
 - 1) Its impact on software and system performance, including identification of requirements not met
 - 2) The impact on software and system design to correct it
 - 3) A recommended solution/approach for correcting it

3.2 Impact of test environment. This paragraph shall provide an assessment of the manner in which the test environment may be different from the operational environment and the effect of this difference on the test results.

3.3 Recommended improvements. This paragraph shall provide any recommended improvements in the design, operation, or testing of the software tested. A discussion of each recommendation and its impact on the software may be provided. If no recommended improvements are provided, this paragraph shall state "None."

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

4. Detailed test results. This section shall be divided into the following paragraphs to describe the detailed results for each test. Note: The word "test" means a related collection of test cases.

4.x (Project-unique identifier of a test). This paragraph shall identify a test by project-unique identifier and shall be divided into the following subparagraphs to describe the test results.

4.x.1 Summary of test results. This paragraph shall summarize the results of the test. The summary shall include, possibly in a table, the completion status of each test case associated with the test (for example, "all results as expected," "problems encountered," "deviations required"). When the completion status is not "as expected," this paragraph shall reference the following paragraphs for details.

4.x.2 Problems encountered. This paragraph shall be divided into subparagraphs that identify each test case in which one or more problems occurred.

4.x.2.y (Project-unique identifier of a test case). This paragraph shall identify by project-unique identifier a test case in which one or more problems occurred, and shall provide:

- a. A brief description of the problem(s) that occurred
- b. Identification of the test procedure step(s) in which they occurred
- c. Reference(s) to the associated problem/change report(s) and backup data, as applicable
- d. The number of times the procedure or step was repeated in attempting to correct the problem(s) and the outcome of each attempt
- e. Back-up points or test steps where tests were resumed for retesting

4.x.3 Deviations from test cases/procedures. This paragraph shall be divided into subparagraphs that identify each test case in which deviations from test case/test procedures occurred.

4.x.3.y (Project-unique identifier of a test case). This paragraph shall identify by project-unique identifier a test case in which one or more deviations occurred, and shall provide:

- a. A description of the deviation(s) (for example, test case run in which the deviation occurred and nature of the deviation, such as substitution of required equipment, procedural steps not followed, schedule deviations). (Red-lined test procedures may be used to show the deviations)
- b. The rationale for the deviation(s)
- c. An assessment of the deviations' impact on the validity of the test case

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

5. Test log. This section shall present, possibly in a figure or appendix, a chronological record of the test events covered by this report. This test log shall include:

- a. The date(s), time(s), and location(s) of the tests performed
- b. The hardware and software configurations used for each test including, as applicable, part/model/serial number, manufacturer, revision level, and calibration date of all hardware, and version number and name for the software components used
- c. The date and time of each test-related activity, the identity of the individual(s) who performed the activity, and the identities of witnesses, as applicable

6. 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.).

CONTRACT DATA REQUIREMENTS LIST

Form Approved
OMB No. 0704-0188

The 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 the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government issuing Contracting Officer for the

A. CONTRACT LINE ITEM NO. 0001		B. EXHIBIT		C. CATEGORY: TDP _____ TM _____ OTHER _____			
D. SYSTEM/ITEM Abrams Common Software Library			E. CONTRACT/PR NO.		F. CONTRACTOR Oasis Advanced Eng., Inc. (OYFC2)		
1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM Software Requirements Specification (SRS)			3. SUBTITLE ICD Updates, Process Description, Source, Executable and Mini-Host Codes			17. PRICE GROUP
4. AUTHORITY (Data Acquisition Document No.) DI-IPSC-81433		5. CONTRACT REFERENCE C.106.1a. & C106.1b.		6. REQUIREMENT OFFICE SFAB-GCS-AB-SI			
7. DD 299 REQ LT	8. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION		14. DISTRIBUTION		
9. APP CODE	11. AS OF DATE "15"	13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE		b. COPIES	
16. REMARKS a. Electronic Submission to bhandaa@tacom.army.mil b. Exclude Abrams tank code requirements from SRS. SRS is to be in contractor format and shall only include data from DI-IPCS-81433 sections 3.18 and 4.				SFAB-GCS-AB-S	Draft	Final	Repro
					Reg	Repro	1
				15. TOTAL	1		
17. PRICE GROUP	18. ESTIMATED TOTAL PRICE	17. PRICE GROUP	18. ESTIMATED TOTAL PRICE	17. PRICE GROUP	18. ESTIMATED TOTAL PRICE	17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
A002	Software Test Report			Common Software Tools and Test Suites			
DI-IPSC-81440		C.106.1c.		SFAB-GCS-AB-SI			
LT	ASREQ			SFAB-GCS-AB-S			
"15"			Draft	Final	Repro	1	
a. Electronic Submission to bhandaa@tacom.army.mil b. Test results are in contractor format and shall include data from DI-IPCS-81440 section 4.							1
A003	Performance and Cost Report						
DI-FNCL-80912		C.106.1d.		SFAB-GCS-AB-SI			
LT	Monthly			SFAB-GCS-AB-S			
"15"			Draft	Final	Repro	1	
Electronic Submission to bhandaa@tacom.army.mil							1
A004	Report, Record of Meeting/Minutes						
DI-ADMN-81505		C.106.1e.		SFAB-GCS-AB-SI			
LT	ASREQ			SFAB-GCS-AB-S			
"15"			Draft	Final	Repro	1	
Electronic Submission to bhandaa@tacom.army.mil							1
Denise Drylie		2 Apr 03		//s// Anamica R. Bhandari		4 Apr 03	

Exhibit A