

DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0188

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 (0704-0188), Washington, DC 20503.

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------|----------------------|
| 1. TITLE | | 2. IDENTIFICATION NUMBER | |
| Master Integrated Program Schedule (MIPS) | | DI-MISC-81183 | |
| 3. DESCRIPTION/PURPOSE | | | |
| <p>The Master Integrated Program Schedule is an integrated schedule development by a logical networking of program activity detail. The Project Work Breakdown Structure is the foundation of the Program Schedule and provides a hierarchy for schedule traceability and summarization. Program Milestones are included in the Program Schedule to monitor events in the program which define progress and final completion. (cont'd Page 2)</p> | | | |
| 4. APPROVAL DATE (YYMMDD) | 5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) | 6a. DTIC APPLICABLE | 6b. GIDEP APPLICABLE |
| 910415 | F/AFSC-ASD/ACCM | | |
| 7. APPLICATION/INTERRELATIONSHIP | | | |
| <p>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 requirements as delineated in the contract.</p> <p>7.2 This DID may be applied during the demonstration/validation, full-scale development (FSD), and production phases.</p> <p>7.3 The DID shall be computer based media or manually generated as specified on the DD form 1423.</p> | | | |
| 8. APPROVAL LIMITATION | | 9a. APPLICABLE FORMS | 9b. AMSC NUMBER |
| | | | F6103 |
| 10. PREPARATION INSTRUCTIONS | | | |
| <p>10.1 <u>Format.</u> This precedence diagram shall be in the contractor's format in the form of a network, milestone, and gantt chart.</p> <p>10.2 <u>Content.</u> The Master Integrated Program Schedule shall contain an integrated network based schedule developed from the Project Work Breakdown Structure to include program milestones and definitions, logical network based schedules, summary, intermediate, and detailed schedules, and periodic analysis of progress to date. The schedule shall be vertically and horizontally traceable. Descriptions of the key elements are as follows:</p> <p>10.2.1 <u>Program milestones and definitions.</u> Key programmatic events defined by the contracting agency or weapon system contractor which define progress and completion in each work breakdown structure element along with the Definition for successful completion of the milestone.</p> <p>10.2.2 <u>Summary master schedules.</u> A graphical display of top level program activities and key milestones which depict major work activities in an integrated fashion at the summary level of the WBS, e.g. level 1-3 of the WBS.</p> | | | |
| 11. DISTRIBUTION STATEMENT | | | |
| "DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited." | | | |

3. Description/Purpose (Continued)

3.1 This information will be used to verify attainability of program objectives, evaluate the progress of the government/contractor team toward meeting the program objectives, and to integrate program schedule among all related components.

Block 10. Preparation Instructions (Continued)

10.2.3 Intermediate schedules. A graphical display of top level program activities and key milestones which depict major work activities in a major work breakdown structure element, e.g. level 3-5 of the WBS.

10.2.4 Detailed schedules. A graphical display of detailed activities and milestones which depict work activities in a particular work breakdown structure element, e.g. level 4-8 of the WBS.

10.2.5 Periodic analysis. A brief summary which identifies progress to date, variances to the planned schedule, causes for the variance, potential impacts and recommended corrective action to avoid schedule delays. For each program milestone planned, forecasted and actual completion dates shall be reported. The analysis shall also identify potential problems and a continuing assessment of the network critical path.

10.2.6 Integrated program network. Logical diagram of all activities in the program. The key elements of the integrated network to be constructed in the diagram are as follows:

a. Event - A specific definable accomplishment in the program/project network, recognizable at a particular point in time. Events are numbered and are contained within an activity box.

b. Activity - a time consuming element, e.g. work in progress between interdependent events, represented by an activity box. The left side represents the beginning of the activity, and the right side is the completion of the activity.

c. Duration - average length of time needed to accomplish an event/activity.

d. Constraint - A line that defines how two activities or events are logically linked. It can take up to four (4) forms:

1. FS (finish to start) - An activity must finish before another can start.

2. SS (start to start) - An activity depends on the start of another activity.

3. FF (finish to finish) - One activity cannot finish until another activity is finished.

Block 10. Preparation Instructions (Continued)

4. SF (start to finish) - An activity cannot finish until another activity starts.
- e. Slack or Float - Extra time available on an activity before it will impact an activity on the critical path.
- f. Critical Path - A sequence of activities in the network that has the longest total duration through the program/project. Activities along the critical path have zero or negative slack/float. It should be easily distinguished on the report formats, e.g. a thick line or in red ink. This should be calculated by computer-based software.
- g. Target Start (TS) - Data input operator defined date of when an activity should start. This is an operator defined date rather than a computer calculated date.
- h. Target Complete (TC) - Data input operator defined date of when an activity should finish. This is an operator defined date rather than a computer calculated date.
- i. Actual Start (AS) - Operator defined actual start date of an activity.
- j. Actual Finish (AF) - Operator defined actual finish date of an activity.
- k. Early Start (ES) - The earliest start date an activity can begin the precedence relationships. Computer calculated date.
- l. Early Finish (EF) - The earliest finish date an activity can end. Computer calculated date.
- m. Late Start (LS) - The latest start date an activity can start without delaying the program/project target completion date. Computer calculated date.
- n. Late Finish (LF) - The latest finish date an activity can have without affecting the program/project target completion date. Computer calculated date.
- o. Percent Complete (PC) - Actual progress of an activity from its start to its finish.

10.3 Master Integrated Program Schedule. It shall display all of the proposed program/project activities, events, and milestones from contract award to the completion of the contract.

10.4 Descriptive titles. Activities, events, and milestones shall be labeled with a brief descriptive title, numbered or coded and contain time constraints (e.g. duration, TS, ES, EF, LS, LF, etc..). Standard abbreviations may be used to conserve space. Descriptive titles used on activities, events, and milestones shall be identical on all program/project schedules. A legend shall be provided to aid in ease of reading the schedules.

Block 10. Preparation Instructions (Continued)

10.5 Schedule risk. The schedule shall include a description of the approach that will be taken to limit the schedule risks identified as a result of the contractor's risk assessment. Risk shall be defined considering impact on cost and technical performance and assessing the probability of schedule change.

| CONTRACTOR DATA REQUIREMENT LIST (1 Data Item) | | | | | | Form Approved OMB No. 0704-0188 | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------|------------------------------------------------|------------------------------------------------------|-----------------------------------|------------------------------------|-----------|---------|--|-----|-------|
| 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 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. | | B. EXHIBIT A | | C. CATEGORY: TDP _____ TM _____ OTHER <u>MISC</u> | | | | | | | |
| D. SYSTEM/ITEM NPOESS CONCEPT VAL | | | E. CONTRACT/PR NO. | | F. CONTRACTOR TO BE DETERMINED | | | | | | |
| 1. DATA ITEM NO. A002 | 2. TITLE OF DATA ITEM DATA ACCESSION LIST | | | | 3. SUBTITLE | | | | | | |
| 4. AUTHORITY (Data Acquisition Document No.) DI-A-3027A/T | | | 5. CONTRACT REFERENCE | | | 6. REQUIRING OFFICE ADA | | | | | |
| 7. DD 250 REQ LT | 9. DIST STATEMENT REQUIRED F | 10. FREQUENCY BI-MO | | 12. DATE OF FIRST SUBMISSION BLK 16 | | 14. DISTRIBUTION | | | | | |
| 8. APP CODE | | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION BLK 16 | | a. ADDRESSEE | | b. COPIES | | | | |
| 16. REMARKS 4 (cont) Para 10.1, change last sentence to read "Request for internal data shall be by PCO letter." Para 10.2, Delete second sentence and add, "documents shall be by functional area (i.e., Logistics, Quality Assurance, etc.) in alphabetical order. "Contractor format is acceptable." Para 10.2.1a, after "RR" include "GPLR = Government Purpose License Rights." 9 (cont) The distribution statement only applies to the data that is ordered from the Data Accession/Internal Data list, and not to the Data Accession/Internal Data list. 12 (cont) Initial submittal shall be 30 CD prior to SRR. 13 (cont) Bi-annually on the 10th day of the month. Note: This data item is also applicable to SMC FAR 5352.235-9000, enabling clause for General Systems Engineering and Integration (GSE&I) and SMC FAR 5352.235-9001, Enabling Clause for Technical Review. Note: Data Accession List shall include subcontractor's listings. *Distribution shall be one file transferred via the NPOESS Electronic Bulletin Board (EBB). Letter of transmittal (LT) to NPOESS (DMO) on each submittal. | | | | | NPOESS (DMO) | | Draft | Final | | Reg | Repro |
| | | | | | 1 | 0 | | | | | |
| 15. TOTAL -----> | | | | | | 000 | 001 | 000 | | | |
| G. PREPARED BY | | | H. DATE | | I. APPROVED BY | | | J. DATE | | | |

| |
|---------------------------|
| 17. PRICE GROUP |
| 18. ESTIMATED TOTAL PRICE |

| DATA ITEM DESCRIPTION | 2. IDENTIFICATION NO(S). | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| | AGENCY | NUMBER |
| TITLE Data Accession List/Internal Data | DoD | DI-A-3027A |
| 3. DESCRIPTION/PURPOSE 3.1 The purpose of the data item description is to provide an accession list which is an index of data that may be available for request. It is a medium for identifying contractor internal data which have been generated by the contractor in compliance with the work effort described in the Statement of Work. | 4. APPROVAL DATE 15 January 1985 | |
| | 5. OFFICE OF PRIMARY RESPONSIBILITY F/AFSC-SD | |
| | 6. DDC REQUIRED | |
| | 8. APPROVAL LIMITATION | |
| 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 on advance development and prototype validation contracts to facilitate identification of R&D technical information that is not determinable at the outset of a contract. 7.3 This data item is not a substitute for standard data requirements that are contractually applied. 7.4 This DID supersedes DI-A-3027. | 9. REFERENCES (Mandatory as cited in block 10) | |
| | MCSSL NUMBER(S) AMSC F3429 | |
| | 10. PREPARATION INSTRUCTIONS 10.1 <u>Contract</u> . The data item is generated by the contract which contains a specific and discrete work task to develop this data product requirement. The contract task also cites this data item number. 10.2 <u>Format and Content</u> . The Data Accession List shall specify internally generated data and computer software used by the contractor to develop, test and manage the program. The format and content of these data shall be as prepared by the contractor to document compliance with the Statement of Work task requirements. 10.2.1 <u>General</u> . The list shall include the identification number, title which shall describe content and in-house release date. a. It shall identify the Government Rights to the data using the following codes: "UR" = Unlimited Rights "LR" = Limited Rights "RR" = Restricted Rights (Computer Software only) | |

CONTRACTOR DATA REQUIREMENT LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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 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. | | B. EXHIBIT A | | C. CATEGORY: TDP _____ TM _____ OTHER <u>MISC</u> | | | |
| D. SYSTEM/ITEM NPOESS CONCEPT VAL | | E. CONTRACT/PR NO. | | F. CONTRACTOR TO BE DETERMINED | | | |
| 1. DATA ITEM NO. A003 | 2. TITLE OF DATA ITEM TECHNICAL REPORT - STUDY/SERVICES | | | 3. SUBTITLE (DATA PACKAGE - SRR, SFR & PDR) | | | |
| 4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508/T | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE ADA | | | |
| 7. DD 250 REQ LT | 9. DIST STATEMENT REQUIRED F | 10. FREQUENCY BLK16 | 12. DATE OF FIRST SUBMISSION BLK 16 | 14. DISTRIBUTION | | | |
| 8. APP CODE BLK 16 | | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION BLK 16 | a. ADDRESSEE | b. COPIES | | |
| 16. REMARKS 4 (cont) Contractor Format acceptable. Para 10.2 (a) Replace "Report" with "Document" and "and reporting period" with "originator and document security classification." Specifically for Data Packages include: Para 10.2 (c)(2) Replace "results obtained from the analytic effort" with "content for each included section." Para 10.2(c)(3) Replace "their condensed technical substantiations' with "recommendations with summary descriptions of included data supporting them." Para 10.2 (d) Change to read "Section II - Main body - Include the following: SRR: (a) SRR Presentation Material: Presentation material and any related supporting documentation. (b) System Definition Documentation: Documentation including, but not limited to the following: (1) NPOESS mission and requirements analysis (2) NPOESS requirements allocation document (3) Preliminary functional level design SFR: (a) SFR Presentation Material: Presentation material and any related supporting documentation. (b) System Definition Documentation: | | | | | | | |
| | | | | | | | |
| | | | | 15. TOTAL -----> | 000 | 001 | 000 |
| G. PREPARED BY | | H. DATE | | I. APPROVED BY | | J. DATE | |

| |
|---------------------------|
| 17. PRICE GROUP |
| 18. ESTIMATED TOTAL PRICE |

CONTRACTOR DATA REQUIREMENT LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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 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. | B. EXHIBIT A | C. CATEGORY: TDP _____ TM _____ OTHER <u>MISC</u> |
|---------------------------|-----------------|------------------------------------------------------|

| | | |
|--------------------------------------|--------------------|-----------------------------------|
| D. SYSTEM/ITEM NPOESS CONCEPT VAL | E. CONTRACT/PR NO. | F. CONTRACTOR TO BE DETERMINED |
|--------------------------------------|--------------------|-----------------------------------|

| | | |
|--------------------------|------------------------------------------------------------|------------------------------------------------|
| 1. DATA ITEM NO. A003 | 2. TITLE OF DATA ITEM TECHNICAL REPORT - STUDY/SERVICES | 3. SUBTITLE (DATA PACKAGE - SRR, SFR & PDR) |
|--------------------------|------------------------------------------------------------|------------------------------------------------|

| | | |
|-----------------------------------------------------------------|-----------------------|---------------------|
| 4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508/T | 5. CONTRACT REFERENCE | 6. REQUIRING OFFICE |
|-----------------------------------------------------------------|-----------------------|---------------------|

| | | | | | | |
|---------------|---------------------------------|-----------------------------------|------------------------------|------------------|-----------|-----------------------|
| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED F | 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 Reg Repro |

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 16. REMARKS *Distribution shall be one file transferred via the NPOESS Electronic Bulletin Board (EBB). Letter of transmittal (LT) to NPOESS (DMO) on each submittal. | 15. TOTAL -----> 000 001 000 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|

| | | | |
|----------------|---------|----------------|---------|
| G. PREPARED BY | H. DATE | I. APPROVED BY | J. DATE |
|----------------|---------|----------------|---------|

| |
|---------------------------|
| 17. PRICE GROUP |
| 18. ESTIMATED TOTAL PRICE |

| DATA ITEM DESCRIPTION | | | Form Approved OMB No. 0704-0188 | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------|------------------------------------|--|
| 2. TITLE Technical Report - Study/Services | | 1. IDENTIFICATION NUMBER DI-MISC-80508 | | |
| 3. DESCRIPTION/PURPOSE 3.1 A technical report provides fully documented results of studies or analyses performed. | | | | |
| 4. APPROVAL DATE (YYMMDD) 880115 | 5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) G/T2137 | 6a. DTIC APPLICABLE X | 6b. GIDEP APPLICABLE | |
| 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 as delineated in the contract. 7.2 This DID supersedes DI-A-5029. 7.3 Defense Technical Information Center (DTIC), Cameron Station, Alexandria, VA 22314. | | | | |
| 8. APPROVAL LIMITATION | | 9a. APPLICABLE FORMS | 9b. AMSC NUMBER G4291 | |
| 10. PREPARATION INSTRUCTIONS 10.1 <u>Format.</u> (a) The report and all attachments shall be typewritten, or otherwise clearly lettered, and shall be duplicated using non-fading ink. (b) Text shall be prepared on standard letter size paper (8 1/2" X 11"). (c) When attachments are included, they shall be fully identified, referenced in the text, and folded to conform to the size paper used in the report. (d) Security classification and distribution markings shall conform to the requirements of the contract, purchase description and security requirements checklist, as applicable. 10.2 <u>Content.</u> (a) Title Page - Identifies the report by providing contract number, project name or purchase description title, task number, and reporting period. <p style="text-align: right;">(continued on page 2)</p> | | | | |
| 11. DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited. | | | | |

Block 10. Preparation Instructions (Continued)

(b) Table of Contents

(c) Section I - Includes the following:

(1) Introduction

(2) Summary - A brief statement of results obtained from the analytic effort.

(3) Conclusions and their condensed technical substantiations.

(d) Section II - A complete and detailed description of the analytic results which led to the conclusions stated in Section I above.

CONTRACTOR DATA REQUIREMENT LIST

(1 Data Item)

Form Approved

OMB No. 0704-0188

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 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. | B. EXHIBIT A | C. CATEGORY: TDP _____ TM _____ OTHER _____ MISC _____ |
|---------------------------|-----------------|-----------------------------------------------------------|

| | | |
|--------------------------------------|--------------------|-----------------------------------|
| D. SYSTEM/ITEM NPOESS CONCEPT VAL | E. CONTRACT/PR NO. | F. CONTRACTOR TO BE DETERMINED |
|--------------------------------------|--------------------|-----------------------------------|

| | | |
|--------------------------|--------------------------------------------------|-------------|
| 1. DATA ITEM NO. A004 | 2. TITLE OF DATA ITEM INTEGRATED SUPPORT PLAN | 3. SUBTITLE |
|--------------------------|--------------------------------------------------|-------------|

| | | |
|-----------------------------------------------------------------|-----------------------|----------------------------|
| 4. AUTHORITY (Data Acquisition Document No.) DI-ILSS-81032/T | 5. CONTRACT REFERENCE | 6. REQUIRING OFFICE CIL |
|-----------------------------------------------------------------|-----------------------|----------------------------|

| | | | | | | |
|---------------------|------------------------------------|------------------------------------------------|----------------------------------------|------------------|-------|-------|
| 7. DD 250 REQ LT | 9. DIST STATEMENT REQUIRED F | 10. FREQUENCY ASREQ | 12. DATE OF FIRST SUBMISSION BLK 16 | 14. DISTRIBUTION | | |
| 6. APP CODE | 11. AS OF DATE AS REQ | 13. DATE OF SUBSEQUENT SUBMISSION BLK 16 | a. ADDRESSEE | b. COPIES | | |
| | | | | Draft | Final | |
| | | | | | Reg | Repro |

| | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----|-----|-----|
| 16. REMARKS | 15. TOTAL -----> | 001 | 001 | 000 |
| 4 (cont) Para 10.5.16: Delete "and MIL-HDBK-248." | | | | |
| Para 10.6.7: Change to read: Contractor logistics efforts toward development of an effective supportability data base (Logistics Support Analysis) will be used as a foundation for the delivery of logistics products tracked by the technical IPT. | | | | |
| Para 10.7.1: Delete "Navy" | | | | |
| Para 10.7.1.1: Delete "The Navy skill and." | | | | |
| Para 10.15.1: Delete "This shall include the relationship of MIL-STD-480B...of engineering changes". | | | | |
| Para 10.15.2.1.1: Delete | | | | |
| Para 10.15.2.3: Delete "Detailed guidance is provided by MIL-STD-1521" | | | | |
| Para 10.16: Delete | | | | |
| Para 10.17: Delete | | | | |
| 12 (cont) A draft of the plan shall be submitted 30 CD prior to the System Requirements Review and the System Functional Review. | | | | |
| 13 (cont) A final version shall be submitted 30 CD after the SFR. | | | | |
| *Distribution shall be one file transferred via the NPOESS Electronic Bulletin Board (EBB). | | | | |
| Letter of transmittal (LT) to NPOESS (DMO) on each submittal. | | | | |

| | | | |
|----------------|---------|----------------|---------|
| G. PREPARED BY | H. DATE | I. APPROVED BY | J. DATE |
|----------------|---------|----------------|---------|

| |
|---------------------------|
| 17. PRICE GROUP |
| 18. ESTIMATED TOTAL PRICE |

| DATA ITEM DESCRIPTION | | Form Approved OMB No. 0704-0188 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------|----------------------|
| 2. TITLE Integrated Support Plan (ISP) | | 1. IDENTIFICATION NUMBER DI-ILSS-81032 | |
| 3. DESCRIPTION/PURPOSE 3.1 The ISP provides overall management and execution direction for the contractor's Integrated Logistic Support (ILS) Program. 3.2 Its purpose is to document the organization, function, responsibility, and approach, including related schedules and actions, for meeting ILS program requirements. | | | |
| 4. APPROVAL DATE (YYMMDD) 900926 | 5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) N/Air-411 | 6a. DTIC APPLICABLE | 6b. GIDEP APPLICABLE |
| 7. APPLICATION/INTERRELATIONSHIP 7.1 This data item description (DID) contains format and content preparation instructions for the data product generated by the specific and discreet task requirement as defined in the contract. 7.2 This DID applies to End Item hardware contracts that contain an Integrated Logistic Support Statement of Work. | | | |
| 8. APPROVAL LIMITATION | 9a. APPLICABLE FORMS | 9b. AMSC NUMBER N4990 | |
| 10. PREPARATION INSTRUCTIONS 10.1 <u>Reference documents.</u> The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments, notices, and revisions, shall be as specified in the contract. 10.2 <u>Format.</u> The Integrated Support Plan (ISP) shall be in digital data format if required by contract to conform with initiatives and objectives of the Computer-aided Acquisition and Logistic Support (CALS) program or printed on 8 1/2" x 11" paper and shall be suitable for reproduction and photocopy equipment. 10.3 <u>General.</u> All sections of the ISP, except for classified data, shall be included as one composite plan under one cover. Classified data shall be separate and shall specify the appropriate section of the basic ISP. The ISP shall be in looseleaf form with each of the logistic support element areas sectionalized and identified by subject matter. 10.4 <u>Introduction.</u> The introduction shall briefly specify the purpose and intended use of the ISP as the primary plan and guide for management of the ILS program. It shall specify the contractor's organizations responsible for executing ILS program requirements and the individuals and internal organizations that will be the focal points for fulfilling the requirements of each major ILS function. In addition, it shall include the following information: 10.4.1 A brief general description of the system or equipment being procured. | | | |
| 11. DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited. | | | |

Block 10, Preparation Instructions (Continued)

10.4.2 The arrangement and brief description of each major functional system and subsystem including maintainability, design features, reliability design requirements, and the proposed system maintenance plan in support of the established system maintenance concept.

10.4.3 A statement of the impact that the operational requirement, plan for use, and system maintenance concept have on the ILS program design and development effort.

10.4.4 Identification of significant ILS planning data based on procurement status at the time the plan is prepared, planned procurement for the immediate future, and the type of funding for items for test and quantity procurement. Planning data shall include three categories:

10.4.4.1 Firm planning data provided by the government.

10.4.4.2 Planning data developed by the contractor based on his system engineering analysis, including the assumptions and rationale involved in their establishment.

10.4.4.3 Voids in planning data that must be satisfied in order to plan, develop, and procure timely logistic support.

10.4.5 Any additional or peculiar information vital to the development of support requirements.

10.5 Management. The management section of the ISP shall include the following:

10.5.1 A statement of the contractor's logistic management objectives and policies related to the attainment of initial support and concurrent support thereafter.

10.5.2 A description of government and contractor organizational structures that are responsible for satisfying ILS program requirements, including a responsibility matrix that specifies names, relative position, functions, and responsibilities. Also include the plan for coordinating program element efforts within each of the two organizations and between similar groups or functional areas of the two organizations.

10.5.3 A schedule of ILS Management Team meetings and membership.

Block 10, Preparation Instructions (Continued)

10.5.4 A master milestone schedule that identifies all ILS program milestones and interrelates the primary milestones of each of the ILS elements with each other and with the site/unit activation schedule. The milestone schedule shall indicate the required delivery date of each deliverable and all individual events of each ILS element. Significant end item development and evaluation milestones shall be indicated on the master schedule, including prototype test completions; first prototype delivery; Development Test-II (DT-II); flight test; Technical Evaluation (TECHEVAL); Operational Evaluation (OPEVAL); Approval for Limited Production/Approval for Full Production (ALP/AFP); and production deliveries. Milestones and events shall be planned to meet TECHEVAL/OPEVAL, site activation and deployment schedules, Initial Operational Capability (IOC), Material Support Date (MSD), and Navy Support Date (NSD). All milestones for deliverables and all logistic elements, and principal government and contractor milestones and events for each program element shall be included, and traceable to the master Critical Path Method (CPM) network milestones.

10.5.5 Identification and schedule of funding requirements and spending status to meet ILS program milestones.

10.5.6 Identification and definition of the contractor interface with and support by government furnished equipment (GFE) suppliers, including GFE suppliers of equipment and installations for which independent ILS programs are established.

10.5.7 A description of internal contractor requirements for integrating the efforts of the responsible contractor organizational elements in such areas as design and quality engineering, materials, reliability and maintainability, human engineering, standardization, technical data and manuals, support equipment, repair parts, facilities, technical services, transportation and handling, and personnel and training into a single management effort that will minimize multiple design reviews and ensure that the ILS program is a timely and effective effort within the overall End Item systems engineering and production program.

10.5.8 A description of procedures for monitoring and controlling the orderly and systematic development and execution of the ILS program, including identification of necessary corrective actions, action communications, and follow-up procedures.

Block 10, Preparation Instructions (Continued)

10.5.9 A description of contractor requirements for subcontractor and vendor participation in the ILS program.

10.5.10 A description of the combined government and contractor plan for the implementation and use of ILS program progress and status reporting.

10.5.11 A description of contractor methods and processes for generation, collection, and timely use of experience data collected throughout project development and production.

10.5.12 A description of overall contractor requirements for review and assessment of proposed engineering changes as they will affect the logistic support program to ensure effective logistic support for approved engineering changes, including required changes or modifications to the overall logistic support program.

10.5.13 A description of contractor processes for revising and updating the ISP as End Item development progresses, including arrangement for timely distribution of changes to the ISP.

10.5.14 A description of the processes to be employed by the contractor to provide for effective execution and control of tradeoffs between design actions and logistic support aspects of proposed designs, and between responsible functional elements of his organization.

10.5.15 Description of how the ILS program will accommodate logistic technical information developed in a form for delivery and use that is compatible with the initiatives and objectives of the Department of Defense (DOD) CALS program. This includes use of CALS to deliver data to be used in the ILSP.

10.5.16 Description of method for providing recommendations to the government for streamlining and tailoring the ILS program. Detailed guidance is provided by DODDIR 5000.43 and MIL-HDBK-248.

10.5.17 Consideration of end item warranties in all ILS element planning and scheduling.

10.6 Logistic Support Analysis (LSA). The LSA section shall specify the approach and plan for the execution, review and approval of the LSA and its principal outputs. It shall address the visibility of key events, their relation with other elements and actions of the ILS program, and the schedule for their

Block 10, Preparation Instructions (Continued)

accomplishment. The LSA section of the ISP shall address the following:

10.6.1 A plan to organize, direct, and control the LSA program for end item GFE, Support Equipment, training equipment and trainers. The plan shall include a LSA candidate list.

10.6.2 Interface requirements between contractor design and logistic engineering groups, subcontractors, vendors and GFE manufacturers.

10.6.3 Provisions for providing supportability related inputs into the design process and tracking results.

10.6.4 Data base management and configuration control of LSA documentation.

10.6.5 Periodic reporting of LSA status and problem definition.

10.6.6 Method of Data exchange and using LSA feedback loops for correcting deficiencies noted during End Item and SE testing and operation.

10.6.7 Conduct of LSA Program and Data Record Reviews and Logistics Support Analysis Record (LSAR) updates. Detailed guidance is provided by MIL-STD-1388-1A and MIL-STD-1388-2A.

10.6.8 Identification of program constraints.

10.6.9 Providing an overview of the LSA by Life Cycle Phase.

10.6.10 Plan for use of data from related programs such as reliability, maintainability, human engineering, safety and testability as inputs to the LSA process.

10.6.11 A detailed milestone chart identifying program events as they relate to the LSA process.

10.7 Manpower, Personnel Training, and Training Support. The manpower, training, and training equipment/trainers section shall specify the approach and plan for conforming to the requirements for manpower, training, and training equipment/trainers. It shall address the visibility of key events, their relation with other elements and actions of the ILS program, and the schedule for their accomplishment. This section of the ISP shall address the

Block 10, Preparation Instructions (Continued)

following for both the end article and related technical training equipment:

10.7.1 A Navy Training Plan (NTP) summary containing Manpower and Training requirements which includes:

10.7.1.1 A description of the process utilizing LSA and HARDMAN or equivalent data to develop quantitative and qualitative operator and maintenance personnel requirements. The human factors effort shall be included specifying how operator and maintenance tasks will be related to the Navy skill and skill level identification system. The method of development of task time shall be specified.

10.7.1.2 A description of the processes for identifying and developing necessary training. The scope of the proposed training program and efforts to assist in the development of an in-house capability for the end item.

10.7.2 A description of the methods for identifying and determining requirements for maintenance and operator training equipment to meet newly defined personnel training requirements.

10.7.3 A flow chart tailored to the specific program, depicting government-contractor interrelationships for accomplishment of this element of the support program addressing key elements of information for government-contractor review, approval, and use.

10.7.4 A detailed milestone chart identifying manpower, training, and training equipment/trainers program events as they relate to site/unit activation schedules and their relationship with the LSA process.

10.8 Technical Data. The technical data section shall specify the approach and plan for the development, production and delivery of technical data. It shall address the visibility of key events, their relation with other elements and actions of the ILS program and the schedule for their accomplishment. The technical data section of the ISP shall address the following:

10.8.1 Interface requirements between contractor, subcontractor, vendors and GFE manufacturers.

10.8.2 Technical manual(s) development process coverage and content.

Block 10, Preparation Instructions (Continued)

10.8.3 Validation/verification of technical manual(s).

10.8.4 A detailed milestone chart identifying Technical Data program events, their relationships with the LSA process and specific events that affect the site/unit activation schedule.

10.9 Support Equipment (SE). The SE section shall specify the approach and plan for meeting SE requirements. For repairable SE item(s) requiring extensive and complex support, the contractor shall recommend development of an ISP and a Phased Support Plan (PSP). It shall address the visibility of key events, their relation with other elements and actions of the ILS program, and the schedule for their accomplishment. The SE section of the ISP shall address the following:

10.9.1 The approach and general plan for meeting support requirements as they relate to the identification, development, production, and delivery of items of SE, along with End Item testability analysis and implementation, and SE-related supportability analysis that lead to SE recommendations.

10.9.2 Requirements for using LSA and the resulting maintenance plans in the identification and development of SE requirements for support of the end item at all maintenance levels. The requirements for applying LSA to the development of complex items of SE shall be addressed.

10.9.3 LSA identification of functional areas requiring SE developmental actions.

10.9.4 The schedule for submittal, review, and government confirmation and approval of Support Equipment Recommendation Data (SERD) to ensure the availability of SE end items to meet all site/unit activation schedules.

10.9.5 The schedule for the timely development and delivery of support requirements for SE items. This includes spares and repair parts provisioning, technical data and training requirements.

10.9.6 The plan for ensuring maximum use of service inventory SE instead of development of new SE items.

10.9.7 A flow chart tailored to the specific program, that depicts government-contractor interrelationships for accomplishment of the SE program.

Block 10, Preparation Instructions (Continued)

10.9.8 A detailed milestone chart identifying SE program events, their relationships with the LSA process, and specific events that affect the site/unit activation schedule.

10.9.9 An identification of key events and the methods for ensuring that these events are met.

10.9.10 A SE data flow diagram showing key elements of information for government-contractor review, approval, and use.

10.10 Supply Support. The supply support section shall specify the processes and plan for meeting spare and repair parts requirements. It shall address the visibility of key events, their relation with other elements and actions of the ILS program, and the schedule for their accomplishment. The supply support section of the ISP shall address the following:

10.10.1 The plan for spares and repair parts support for contract end items, SE and Trainers. This shall include the plan for initial support provisioning and shall specifically address early provisioning procedures and arrangements, if applicable, the application of phased provisioning procedures, and replenishment parts breakout procurement.

10.10.2 Requirements for use of the LSA process and the resulting maintenance plan in the development and determination of spares and repair parts requirements.

10.10.3 Identification of foreign supplied critical parts.

10.10.4 A flow chart tailored to the specific program, that depicts government-contractor interrelationships for accomplishment of spares and repair parts requirements.

10.10.5 A summary of the Supply Support Management Plan (SSMP) developed by the Program Support Inventory Control Point (PSICP) containing detailed milestone chart identifying spares and repair parts program events, their relationship with the LSA process, and specific program events that affect the site/unit activation schedule.

10.10.6 An identification of key program events and the methods for ensuring that these events are met, including the MSD and NSD.

Block 10, Preparation Instructions (Continued)

10.10.7 A spares and repair parts data flow diagram showing key elements of information for government-contractor review, approval and use. This diagram shall address input relationships to the PSICP Uniform Automatic Data Processing System for Inventory Control Point with particular emphasis upon the Master Data and Weapon System File Segments of the Data System.

10.11 Facilities. The facilities section shall specify the approach and plan for meeting facilities requirements. It shall address the visibility of key events, their relation with other elements and actions of the ILS Program, and the schedule for their accomplishment. The facilities section of the ISP shall address the following:

10.11.1 A summary of the Facilities Requirements Document (FRD) which will identify facility requirements necessary to support system testing, training operation and depot maintenance for all levels of basing complexity and deployment modes.

10.11.2 An identification and brief description of those aspects of the facilities portion of the support program that affect the overall support system development effort.

10.11.3 Definition of the interrelationships between the inputs and outputs of the facilities section of the ISP to the SE and site/unit activation section of the ISP.

10.11.4 Plans for utilization of LSA and the resulting Maintenance Plans in the identification and development of specific facility requirements.

10.11.5 A flow chart tailored to the specific program, that depicts government-contractor interrelationships for accomplishment of facilities requirements.

10.11.6 A detailed milestone chart identifying facilities program events, their relationship with the LSA, and specific events that affect the site/unit activation schedule.

10.11.7 An identification of key events and the methods for ensuring that these events are met.

10.11.8 A facilities data flow diagram showing key elements of information for government-contractor review, approval, and use.

Block 10, Preparation Instructions (Continued)

10.12 Interim Support. The interim support section shall specify the approach and plan for contractor support until government support can be systematically established. It shall address the visibility of key events, their relation with other elements, actions of the ILS program, and the schedule for their accomplishment. The interim support section of the ISP shall summarize the following:

10.12.1 The interim support organizational structure, functions, asset control procedures and responsibilities including interrelationship with subcontractors.

10.12.2 The scope and depth of maintenance (organizational, intermediate and depot levels) and the general plan for its accomplishment. This includes contractor, subcontractor, and vendor actions.

10.12.3 The plan for spares and repair parts support (GFE and CFE) including methods to be employed for their identification, computation, and acquisition.

10.12.4 The plan for support of SE (GFE and CFE).

10.12.5 The plan for training, including necessary equipment and instruction.

10.12.6 The plan for selecting and training Contractor Engineering and Technical Services (CETS) personnel, the method of determining requirements, and utilization of CETS personnel, including proposed site/unit assignments for organizational, intermediate, depot, and test activities.

10.12.7 The plan for providing technically correct and current manuals and publications.

10.12.8 The plan for inventory management and control, including accountability.

10.12.9 The packaging, handling, storage, and transportation plan.

10.12.10 The plan for providing necessary facilities for conducting and managing the interim support program. This includes facilities for material storage, maintenance, and administration.

Block 10, Preparation Instructions (Continued)

10.12.11 The plan for preparation and submission of required reports and data compatible with 3-M Maintenance Data Collection System (MDCS).

10.12.12 The plan for transition to government support, including Interim Supply Support Transition Plan and appropriate dates.

10.12.13 A flow chart tailored to the specific program, depicting government-contractor interrelationships.

10.12.14 A detailed milestone chart identifying interim support program events, including appropriate identification of specific program events that affect the site/unit activation schedule.

10.12.15 Identification of key events and the methods for ensuring that these events are met.

10.12.16 A data flow diagram for this element of the support program showing key elements of information for government-contractor review, approval, and use.

10.13 Supportability Test and Evaluation (T&E). The Supportability T&E section shall address the following:

10.13.1 A test and evaluation strategy to ensure that specified Operational Availability (Ao), supportability factors including aircraft damage repair and supportability-related design requirements are measured, or are measurable.

10.13.2 Potential test program limitations in verifying supportability based on previous experience and the resulting affect on the accuracy of the supportability assessment.

10.13.3 Identification of critical supportability issues for assessment and the rationale used in developing them.

10.13.4 Test and evaluation objectives and criteria, test resources, procedures, and schedules required to assure that critical supportability issues are resolved within acceptable confidence levels.

10.13.5 Detailed plans for measuring supportability factors on the system/equipment in its operational environment and verifying achievement of supportability thresholds. Identification of any special data collection efforts required to include details

Block 10, Preparation Instructions (Continued)

concerning cost, duration, method of data collection, operational units, predicted accuracy, and intended use of the data.

10.13.6 Summarization of the supportability assessment plan which is to become an appendix to the ISP.

10.13.7 Any risks or limitations in the planned tests.

10.14 Packaging, Handling, Storage, and Transportation (PHS&T). The PHS&T section shall specify the approach and plan for meeting PHS&T requirements. It shall address visibility of key events, their relation with other elements and actions of the ILS program, and the schedule for their accomplishment. The PHS&T section of the ISP shall address the following for CFE, GFE, and SE items:

10.14.1 The approach and plan for ensuring that the PHS&T aspects of logistics operations are considered and integrated into engineering design and support subsystem design efforts, including a description of the actions to be taken to provide services, goods, and data required to support the end item.

10.14.2 The plan for using LSA, safety programs, and the human engineering program in the determination and development of requirements for:

10.14.2.1 Protective packaging.

10.14.2.2 Safe, efficient, and damage-free handling.

10.14.2.3 Logistic supply system and operation environmental storage.

10.14.2.4 Safe and damage-free transportation (including reusable containers).

10.14.3 A flow chart tailored to the specific program, that depicts government-contractor interrelationships for meeting the requirements of the PHS&T program.

10.14.4 A material flow diagram tailored to the specific program.

10.14.5 A detailed milestone chart identifying PHS&T program events, their relationship with the LSA process, and any specific events that affect the site/unit activation schedule.

Block 10, Preparation Instructions (Continued)

10.14.6 An identification of key events and the methods for ensuring that these events are met.

10.14.7 A data flow diagram for the PHS&T program, showing key elements of information for government-contractor review, approval, and use.

10.15 Engineering Change Support. The engineering change support section of the ISP shall specify the plan for applying the principles of ILS to support engineering changes. It shall address the visibility of key events, their relationships with other elements and actions of the ILS program, and the plan for providing engineering change related configuration data and information. The engineering change support section of the ISP shall address the following:

10.15.1 The general plan and approach for applying configuration management requirements in determining and developing requirements for the support of engineering changes. This shall include the relationship of MIL-STD-480B data to existing LSA data, the participation of logistic engineering personnel in the design change process, and the process to update and change existing LSA data as a result of engineering changes.

10.15.2 Discussion of how the ILS program relates to and supports the Configuration Management (CM) program being applied to the end article. CM is a discipline that applies technical and administrative direction and surveillance: to identify and document the functional and physical characteristics of Configuration Items (CIs); to audit CIs to verify conformance to specifications, interface control documents, and other contract requirements; to control changes to functional and physical characteristics of CIs; and to record and report information needed to manage CIs effectively, including the status of proposed changes and the implementation status of approved changes. Implementation will be documented in a program managers CM Plan which will be prepared and approved prior to the initial acquisition phase. This plan will be followed by a Contractor's CM Plan which should contain:

10.15.2.1 CM planning which includes:

10.15.2.1.1 Application and tailoring of MIL-STD-1456.

10.15.2.1.2 Each phase of the CI's life cycle.

Block 10, Preparation Instructions (Continued)

- 10.15.2.1.3 CM organization in relation to total program organization.
- 10.15.2.1.4 CM participants, responsibilities and coordination requirements.
- 10.15.2.1.5 CM contract requirements.
- 10.15.2.1.6 Interface agreements.
- 10.15.2.1.7 Authorized exceptions and justification.
- 10.15.2.1.8 Special CM security requirements.
- 10.15.2.2 Configuration identification elements which include the functional baseline, allocated baseline, and product baseline.
- 10.15.2.3 Reviews and audits which include technical reviews, functional configuration audits, and physical configuration audits. Detailed guidance is provided by MIL-STD-1521.
- 10.15.2.4 Configuration control which includes configuration control clauses in the design specification, Class I Engineering Change Proposals (ECPs) for major deviations and waivers, Class II changes for minor deviations and waivers, and requirements for configuration/change control board actions.
- 10.15.2.5 Configuration status accounting which includes the approved configuration identification of CIs, the status of proposed Class I changes, deviations and waivers, the implementation status of approved changes, and the configuration of all units in the operational inventory.
- 10.15.3 A separate section of the configuration management portion of the management section in the ISP shall be provided that addresses logistic support documentation for configuration management. This section shall address procedures and controls for pre-product and post-product baseline configuration management, control, and status accounting of support items including the LSA data base and logistic element documentation for the end item, support equipment, and trainers. The LSA data base shall include analysis data, Maintenance Plan reports, and the LSAR. Logistic element documentation shall include logistic element deliverables such as Component Pilot Rework/Repair (CPR/R) data packages, rework specifications, Master Index of Repairables (MIR), manpower

Block 10, Preparation Instructions (Continued)

planning data, training data and course materials, technical publications, provisioning data, and computer resources support.

10.15.4 A flow chart that depicts government-contractor interrelationships for meeting requirements for engineering change support.

10.15.5 An identification of key events in the engineering change support program and the methods for ensuring that these events are met.

10.15.6 A data flow diagram for engineering change support actions, showing key elements of information for government-contractor review, approval, and use.

10.15.7 Milestone charts that depict engineering change events and their effect on the site/unit activation schedule.

10.16 Depot Level and Intermediate Level Maintenance. The depot rework and intermediate repair section shall specify the approach and plan for meeting depot level rework and intermediate level repair support requirements. The depot rework and intermediate repair section of the ISP shall address the following:

10.16.1 The general approach and plan for meeting program requirements to provide government depot level rework and intermediate level repair in terms of contractor furnished material, data, and services. This shall include the general criteria, conditions, and procedures for planning, selecting, and delivering the above. The plan shall also include:

10.16.1.1 The process for defining bulk, early overhaul, and crash damage material requirements.

10.16.1.2 The interface and use of facilities and site activation data during development of intermediate and depot rework requirements, including SE testing compatibility.

10.16.1.3 The selection criteria for use in developing an analysis rework program candidate list.

10.16.2 Activation and scheduling of the Depot Maintenance Interservice (DMI) process.

Block 10, Preparation Instructions (Continued)

10.16.3 Flow charts for depot rework and intermediate repair, CPR/R and periodic depot level maintenance, tailored to the specific program, that depict government-contractor interrelationships for meeting depot and intermediate rework support requirements.

10.16.4 A detailed milestone chart identifying depot rework and intermediate repair support program events, their relationship with the LSA process and specific events that affect the site/unit activation schedule.

10.16.5 An identification of key events and the methods for ensuring that these events are met.

10.16.6 A data flow diagram for the depot rework and intermediate repair support program, showing key elements of information for government-contractor review, approval, and use.

10.16.7 Method of developing CPR/R packages and generating the planning data necessary to establish an organic capability.

10.16.8 Plans for contractor support of end item and SE pilot rework, depot and intermediate maintenance support transition and supportability assurance.

10.17 Site/Unit Activation. The site/unit activation section of the ISP shall specify major dates for system tests, training, and operations required for site/unit activations that relate to logistic support element program events. It shall address the information relating to support planning actions to be implemented by the government (including Fleet units) and the contractor. The site/unit activation section of the ISP shall include the following:

10.17.1 A master site/unit activation schedule tailored to the specific program, that includes:

10.17.1.1 Title

10.17.1.2 Site/unit location(s)

10.17.1.3 Site/unit dates

10.17.1.3.1 Date activation action must begin

Block 10, Preparation Instructions (Continued)

10.17.1.3.2 Site loading equipment or personnel nondeployable systems or equipment

10.17.1.3.3 Scheduled date for completing activation actions

10.17.1.3.4 Site/unit operational readiness date

10.17.1.4 Site function, e.g., flight test, weapon test, training operations

10.17.1.5 Duration of functional operation

10.17.1.6 Legend--description of all symbols used

10.18 Contractor Data Collection (CDC). The CDC section shall specify the approach, plan and government requirements for meeting data collection and usage requirements. It shall address the visibility of key events, their relationships with other elements and actions of the ILS program, and the schedule for their accomplishment. The CDC section of the ISP shall address the following:

10.18.1 The general plan and procedures for the collection and use of logistic and maintenance related experience data on deliverable hardware which is compatible with Naval Aviation Logistics Data Analysis (NALDA) system, 3M MDCS and LSA process/records. Data shall pertain to design, specification and production acceptance testing.

10.18.2 Flow charts depicting the data collection system to be employed and the organizational elements involved.

10.18.3 The plan for the development, processing, and updating of source data, and the proposed methods for presentation of this data.

10.18.4 A description of the data processing facilities to be used and the plan for data storage, and delivery.

10.18.5 A flow chart tailored to the specific program, that depicts government-contractor interrelationships for accomplishing CDC requirements.

10.18.6 Major data collection events and milestones based on the supportability T&E schedule.

Block 10, Preparation Instructions (Continued)

10.19 Computer Resources Support (CRS) The CRS section shall specify the approach and plan for supporting Mission Critical Computer Resources (MCCR) requirements. It shall address the visibility of key events, their relation with other elements and actions of the ILS program, and the schedule for their accomplishment. When developed for CRS, the Computer Resources Life Cycle Management Plan (CRLCMP) is considered part of the ISP and should be incorporated here by reference. In the CRS section of the ISP, add additional CRS planning material unique to the ILS program that is not covered by the CRLCMP. In the absence of a CRLCMP, the CRS section of the ISP shall address the following:

10.19.1 A Project Management Plan for meeting support requirements as they relate to the identification, development, production, and delivery of CRS.

10.19.2 Requirements for using LSA and the resulting Maintenance Plan in the identification and development of CRS requirements for support of the system or equipment at all maintenance levels. The requirements for applying LSA to the development of CRS items shall be addressed.

10.19.3 The schedule for submittal, review, and government confirmation and approval of CRS requirements to ensure the availability of CRS to meet all site/unit activation schedules.

10.19.4 The schedule and plan for CRS validation and verification.

10.19.5 The schedule for the timely development and delivery of support requirements for CRS. This includes provisioning, technical manuals, training requirements and related SE and its support.

10.19.6 Requirements and procedures for providing GFE and material to the contractor to support his development and testing program, including arrangements for contractor repair and modification of such material.

10.19.7 The plan for ensuring maximum use of service inventory CRS instead of development of new development CRS.

10.19.8 A flow chart tailored to the specific program, that depicts government-contractor interrelationships for accomplishment of the CRS program.

Block 10, Preparation Instructions (Continued)

10.19.9 A detailed milestone chart identifying CRS program events, their relationships with the LSA process, and specific events that affect the site/unit activation schedule.

10.19.10 An identification of key events and the methods for ensuring that these events are met.

10.19.11 A CRS data flow diagram showing key elements of information for government-contractor review, approval, and use.

10.20 Standardization, Interchangeability, and Interoperability (SI&I). The standardization, interchangeability, and interoperability section of the ISP describes the processes and plan for meeting SI&I requirements. It shall address the visibility of key events, their relation with other elements and actions of the ILS program, and the schedule for their accomplishment. The SI&I section of the ISP shall address the following:

10.20.1 The plan for applying SI&I requirements to each contract end item(s). This shall include the plan for initial support and specifically address early SI&I planning, procedures, arrangements, and documentation of deficiencies.

10.20.2 Requirements for use of the LSA and the resulting Maintenance Plan in the development and determination of SI&I requirements.

10.20.3 A flow chart tailored to the specific program, that depicts government-contractor interrelationships for accomplishment of SI&I requirements.

10.20.4 A detailed milestone chart identifying SI&I program events, their relationship with the LSA process, the standardization program and the parts control program, and specific program events that affect the site/unit activation schedule.

10.20.5 An identification of key events and the methods for ensuring that these events are met.

10.20.6 A SI&I data flow diagram showing key elements of information for government-contractor review, approval and use.

10.21 Logistic Life Cycle Cost (LCC). The LCC section shall specify the approach and plan for meeting LCC generation and usage requirements. It shall address the visibility of key events, their

Block 10, Preparation Instructions (Continued)

relations with other elements and actions of the ILS program, and the schedule for their accomplishment. The LCC section of the ISP shall address the following:

10.21.1 The general plan and procedures for the collection and use of logistic and logistic related cost data to meet LCC requirements.

10.21.2 Flow charts depicting the LCC system to be employed and the organizational elements involved.

10.21.3 The plan for the development, processing, and updating of LCC source data, and the proposed methods for presentation of LCC data to the government.

10.21.4 A description of the LCC data processing facilities to be used and the plan for data storage, and delivery.

10.21.5 A flow chart tailored to the specific program, that depicts government-contractor interrelationships for accomplishing LCC requirements.

10.21.6 A description of the relationship of Level of Repair Analysis (LORA) to the overall LCC program.

| DATA ITEM DESCRIPTION | 2. IDENTIFICATION NO(S). | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------|
| | AGENCY | NUMBER |
| 1. TITLE | USAF | DI-A-3020B |
| 3. DESCRIPTION/PURPOSE | 4. APPROVAL DATE | |
| 3.1 A Contract Change Proposal/Task Change Proposal (CCP/TCP) is used to propose, control and approve changes to contractual requirements other than those contained in specifications and/or drawings; e.g., Statement of Work (SOW) tasks, contractually imposed plans, Contract Data Requirements List (CDRL), etc. The CCP/TCP provides sufficient information for decision-making relative to non-ECP changes that would alter, supplement or delete existing contract requirements. | 81 FEB 23 | |
| | 5. OFFICE OF PRIMARY RESPONSIBILITY | |
| | AFSC/SDDS | |
| | 6. DDC REQUIRED | |
| | - | |
| | 8. APPROVAL LIMITATION | |
| | | |
| 7. APPLICATION/INTERRELATIONSHIP | 9. REFERENCES (Mandatory as cited in block 10) | |
| 7.1 Although designed to be used on system or equipment programs, this Data Item Description (DID) can be applied to any procurement that involves "level-of-effort" tasks, studies development or production. | *MIL-STD-483, NOTICE 2 | |
| 7.2 This DID cannot be applied unless procedures for processing are agreed to by both the contractor and the procuring agency. Agreement on the use of CCPs/TCPs should be documented in the Configuration Management Plan. | | |
| 7.3 This DID supersedes DI-A-3020A. | | |
| | MCSL NUMBER(S) | |
| | *AMSC No. F3095 | |
| | OMB EXEMPT | |
| 10. PREPARATION INSTRUCTIONS | | |
| 10.1 The CCP/TCP shall be prepared whenever a non-ECP change is proposed by the contractor. | | |
| 10.2 The CCP/TCP shall contain, as a minimum, the information described below and be prepared on a form similar to Figure 1, provided it contains the same minimum information (MIL-STD-483, paragraphs 3.14 and 5.1.p). | | |
| a. <u>Control Information.</u> Identifies the CCP/TCP number, data prepared and a short descriptive title of proposed change including contract number. | | |
| b. <u>What is Affected.</u> Identifies what contractual documents, DIDs, plans, etc., are affected. | | |
| c. <u>Why Change is Needed.</u> Answers the following questions: (1) How will the change improve contractual requirements? (2) What are the effects of not making a change? | | |
| d. <u>Description of Proposed Change.</u> Provides a detailed description of the proposed change including direct/indirect labor hours, computer usage hours, and if applicable, any special tools or equipment required. | | |
| e. <u>Alternatives to Proposed Change.</u> Identifies alternate ways to accomplish the change and provides reasons for or against each alternative. | | |
| f. <u>Cost Estimate.</u> Presents an estimate of contract cost adjustment required for the proposed change and for each alternative described in "e." | | |
| g. <u>Schedule.</u> Presents a schedule for completing the work, and when applicable, the date(s) for submittal of results. | | |
| h. <u>Urgency Considerations.</u> When applicable, describes any condition(s) bearing on the urgency of obtaining approval for the proposed change. | | |

| | | |
|---------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------|
| CONTRACT CHANGE PROPOSAL/TASK CHANGE PROPOSAL | | Number: |
| | | Date: |
| | | Page of Pages |
| TITLE: | | |
| Item(s) affected (Identify contractual requirement(s) affected): | | |
| NEED (Explain benefit(s) of making the change and impact of not making change): | | |
| DESCRIPTION OF PROPOSED CHANGE (Enter a detailed description of the proposed task, including man-hours and any special equipment required): | | |
| ALTERNATIVES TO PROPOSED CHANGE (Explain reasons for/against each alternative, and its cost): | | |
| COST ESTIMATE (Contract cost adjustment required for the task): | | SCHEDULE (Enter schedule for completing work and, when applicable, data for submittal of results): |
| URGENCY CONSIDERATIONS (When applicable, describe any condition bearing on the urgency of obtaining approval for change) | | |

(NOTE: Any block may be continued on separate sheet(s) as required)

CONTRACTOR DATA REQUIREMENT LIST

(1 Data Item)

Form Approved

OMB No. 0704-0188

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 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. | B. EXHIBIT A | C. CATEGORY: TDP _____ TM _____ OTHER _____ MISC _____ |
|---------------------------|-----------------|-----------------------------------------------------------|

| | | |
|--------------------------------------|--------------------|-----------------------------------|
| D. SYSTEM/ITEM NPOESS CONCEPT VAL | E. CONTRACT/PR NO. | F. CONTRACTOR TO BE DETERMINED |
|--------------------------------------|--------------------|-----------------------------------|

| | | |
|--------------------------|---------------------------------------------------|-------------|
| 1. DATA ITEM NO. A006 | 2. TITLE OF DATA ITEM COST DATA SUMMARY REPORT | 3. SUBTITLE |
|--------------------------|---------------------------------------------------|-------------|

| | | |
|-------------------------------------------------------------|-----------------------|----------------------------|
| 4. AUTHORITY (Data Acquisition Document No.) DI-F-6006/T | 5. CONTRACT REFERENCE | 6. REQUIRING OFFICE ADA |
|-------------------------------------------------------------|-----------------------|----------------------------|

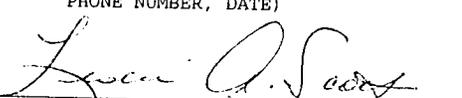
| | | | | | | |
|---------------------|------------------------------------|--------------------------|------------------------------------------------|------------------|-----------|-------|
| 7. DD 250 REQ LT | 9. DIST STATEMENT REQUIRED C | 10. FREQUENCY BLK16 | 12. DATE OF FIRST SUBMISSION BLK 16 | 14. DISTRIBUTION | | |
| 8. APP CODE | | 11. AS OF DATE BLK 16 | 13. DATE OF SUBSEQUENT SUBMISSION BLK 16 | a. ADDRESSEE | b. COPIES | |
| | | | | | Draft | Final |
| | | | | | | Reg |
| | | | | | | Repro |

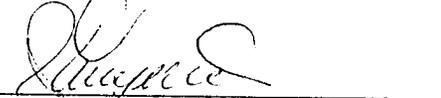
| | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----|-----|---|
| 16. REMARKS 4 (cont) a. Reporting levels shall be in accordance with the Contractor Cost Data Reporting Plan (CCDRP) in Attachment 1. b. Critical/major subcontractor summary level data shall be reported as an attachment. Subcontractor proprietary data may be submitted directly to the Government. 10,11,12,13 (cont) There will be a one time submission that shall coincide with the submission of any proposals for follow-on activity. Otherwise, there will be a one-time submission 60 days after contract completion. 14,15 (cont) Submission will be electronic using the format specified in ANSI ASC X.12 Transaction Data Set 196. *Distribution shall be one file transferred via the NPOESS Electronic Bulletin (EBB) and OSD/PA&E. Letter of transmittal (LT) to NPOESS (DMO) on each submittal. | NPOESS (DMO) | 0 | 1 | 0 |
| | OSD/PA&E | 0 | 1 | 0 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 15. TOTAL -----> | 000 | 002 | 000 | |

| | | | |
|----------------|---------|----------------|---------|
| G. PREPARED BY | H. DATE | I. APPROVED BY | J. DATE |
|----------------|---------|----------------|---------|

| |
|---------------------------|
| 17. PRICE GROUP |
| 18. ESTIMATED TOTAL PRICE |

| | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------|-------------------------------------------------|----------------------|-----------------------------|----------------------|-----------------------------------------------------------------------------------------------|------------|----------------------------------------------------|------------|-------------------------------------------------------|---|----------------|---|------|-----|-----------|-----------|--|
| CONTRACTOR COST DATA REPORTING PLAN | | | 1. PROGRAM NPOESS | | | 2. (X) CAT I () CAT II | | 3. (X) INITIAL SUBMISSION () CHANGE REQUEST | | 4. (X) PROGRAM WBS () CONTRACT WBS | | | | | | | | |
| 5. DATA AS OF 02 OCT 95 | | 6. REVIEW & REFERENCE NO. | | 7. REPORT DATE 02 OCT 95 | | 8. PREPARED BY (Org. Name, Office Symbol, Address) MAJ L. SCOTT, SMC/CIP LAAFB CA 90245 | | | | 9. DATA STORAGE LOCATION SMC/CIP LAAFB CA 90245 | | | | | | | | |
| 10. Line No. | 11. WBS Level | 12. REPORTING ELEMENTS | 13. PROG CODE | 14. Contr-actor | 15. Contract Type | 16. PROGRAM TOTALS | | | | 17. REPORT FREQUENCY | | | | | | | | |
| | | | | | | RDT&E | | PROCUREMENT | | CCDR FORMS | | | | CFSR | CPR | | | |
| | | | | | | UNITS | COST (\$M) | UNITS | COST (\$M) | DD FORM 1921 | | DD FORM 1921-1 | | | | DD 1921-2 | DD 1921-3 | |
| | | | | | | | | | | C | P | C | P | | | | | |
| 1 | 1 | NPOESS | 1.00 | | | 0 | | 0 | | | | | | | | | | |
| 2 | 2 | LAUNCH VEHICLE SEGMENT (Reserved) | 1.01 | | | | | | | | | | | | | | | |
| 3 | 2 | SATELLITE SEGMENT | 1.02 | | | | | | | | | | | | | | | |
| 4 | 3 | SATELLITE INTEGRATION, ASSY, TEST & C/O | 1.02.1 | | | | | | | | | | | | | | | |
| 5 | 3 | SPACECRAFT BUS | 1.02.2 | | | | | | | | | | | | | | | |
| 6 | 4 | SPACECRAFT BUS IAT&C/O | 1.02.2.1 | | | | | | | | | | | | | | | |
| 7 | 4 | STRUCTURES & MECH ASSEMBLIES SUBSYSTEM (SMAS) | 1.02.2.2 | | | | | | | | | | | | | | | |
| 8 | 4 | ATTITUDE DETERMINATION & CNTRL SUBSYSTEM (ADCS) | 1.02.2.3 | | | | | | | | | | | | | | | |
| 9 | 4 | THERMAL CONTROL SUBSYSTEM (TCS) | 1.02.2.4 | | | | | | | | | | | | | | | |
| 10 | 4 | ELECTRICAL POWER SUBSYSTEM (EPS) | 1.02.2.5 | | | | | | | | | | | | | | | |
| 11 | 4 | TELEMETRY AND COMMAND SUBSYSTEM (TACS) | 1.02.2.6 | | | | | | | | | | | | | | | |
| 12 | 4 | COMMAND AND DATA HANDLING SUBSYSTEM (CDHS) | 1.02.2.7 | | | | | | | | | | | | | | | |
| 13 | 5 | CDHS HARDWARE | 1.02.2.7.1 | | | | | | | | | | | | | | | |
| 14 | 5 | CDHS SOFTWARE | 1.02.2.7.2 | | | | | | | | | | | | | | | |
| 15 | 4 | PROPULSION SUBSYSTEM (PS) | 1.02.2.8 | | | | | | | | | | | | | | | |
| 16 | 3 | PAYLOAD I...n | 1.02.3 | | | | | | | | | | | | | | | |
| 17 | 4 | PAYLOAD I...n HARDWARE | 1.02.3.1 | | | | | | | | | | | | | | | |
| 18 | 4 | PAYLOAD I...n SOFTWARE | 1.02.3.2 | | | | | | | | | | | | | | | |
| 19 | 2 | COMMAND, CONTROL & COMM. SEGMENT (C3S) | 1.03 | | | | | | | | | | | | | | | |
| 20 | 3 | C3S INTEGRATION, ASSEMBLY, TEST & C/O | 1.03.1 | | | | | | | | | | | | | | | |
| 21 | 3 | COMMAND & CONTROL | 1.03.2 | | | | | | | | | | | | | | | |
| 22 | 4 | PRIMARY SATELLITE OPS CENTER (SUITLAND) | 1.03.2.1 | | | | | | | | | | | | | | | |
| 23 | 4 | BACKUP SATELLITE OPS CENTER (FALCON) | 1.03.2.2 | | | | | | | | | | | | | | | |
| 24 | 4 | COMMON SOFTWARE | 1.03.2.3 | | | | | | | | | | | | | | | |
| 25 | 4 | TRACKING STATIONS I...n | 1.03.2.4 | | | | | | | | | | | | | | | |
| 26 | 3 | DATA ROUTING & RETRIEVAL (DRR) | 1.03.3 | | | | | | | | | | | | | | | |
| 27 | 3 | FLIGHT VEHICLE SIMULATOR (FVS) | 1.03.4 | | | | | | | | | | | | | | | |
| 28 | 2 | INTERFACE DATA PROCESSOR SEGMENT (IPDS) | 1.04 | | | | | | | | | | | | | | | |
| 29 | 3 | IPDS INTEGRATION, ASSEMBLY, TEST & C/O | 1.04.1 | | | | | | | | | | | | | | | |
| 30 | 3 | ENVIRONMENTAL DATA RECORD ALGORITHMS | 1.04.2 | | | | | | | | | | | | | | | |
| 31 | 3 | CENTRALS | 1.04.3 | | | | | | | | | | | | | | | |
| 32 | 4 | COMMON SOFTWARE | 1.04.3.1 | | | | | | | | | | | | | | | |
| 33 | 4 | NESDIS | 1.04.3.2 | | | | | | | | | | | | | | | |
| 34 | 4 | AFGWC | 1.04.3.3 | | | | | | | | | | | | | | | |
| 35 | 4 | FNMOC | 1.04.3.4 | | | | | | | | | | | | | | | |
| 36 | 4 | AFSFC 50th SUPPORT WING | 1.04.3.5 | | | | | | | | | | | | | | | |
| 37 | 4 | EUMETSAT | 1.04.3.6 | | | | | | | | | | | | | | | |
| 38 | 3 | REGIONAL ELEMENTS | 1.04.4 | | | | | | | | | | | | | | | |

18. PREPARED BY (NAME, GRADE, OFFICE SYMBOL, PHONE NUMBER, DATE)

 LESLIE A. SCOTT, MAJ, SMC/CIP
 (310) 336-4588, 10/03/95

19. COMMAND CONCURRENCE

 ANTHONY E. FINEFIELD, GS-14, DAF
 SMC FIELD COMMAND FOCAL POINT
 (310) 363-1073 10/4/95

20. SERVICE FOCAL POINT CONCURRENCE

21. CAIG APPROVAL DATE

| CONTRACTOR COST DATA REPORTING PLAN | | 1. PROGRAM NPOESS | | | 2. (X) CAT I () CAT II | | 3. (X) INITIAL SUBMISSION () CHANGE REQUEST | | 4. (X) PROGRAM WBS () CONTRACT WBS | | | | | | | | |
|-------------------------------------|---------------------|----------------------------------------|---------------------|-----------------------------|-------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------|-------------------------------------------|--------------------------------------------------------|----|-------------------|----|------------|------------|------|-----|
| 5. DATA AS OF 02 OCT 95 | | 6. REVIEW & REFERENCE NO. | | 7. REPORT DATE 02 OCT 95 | | 8. PREPARED BY (Org. Name, Office Symbol, Address) MAJ L. SCOTT, SMC/CIP LAAAFB CA 90245 | | | | 9. DATA STORAGE LOCATION SMC/CIP LAAAFB CA 90245 | | | | | | | |
| 10. Line NO. | 11. WBS Level | 12. REPORTING ELEMENTS | 13. PROG CODE | 14. Contr- actor | 15. Contract Type | 16. PROGRAM TOTALS | | | | 17. REPORT FREQUENCY | | | | | | | |
| | | | | | | RDT&E | | PROCUREMENT | | DD FORM 1921 | | DD FORM 1921-1 | | DD 1921 | DD 1921 | CFSR | CPR |
| | | | | | UNITS | COST (\$M) | UNITS | COST (\$M) | C | P | C | P | -2 | -3 | | | |
| 39 | 4 | COMMON SOFTWARE | 1.04.4.1 | | | | | | | | | | | | | | M |
| 40 | 4 | ELEMENTS I...n | 1.04.4.2 | | | | | | | | | | | | | | M |
| 41 | 2 | SYSTEM ENGINEERING/PROGRAM MANAGEMENT | 1.05 | | | | | | | | CC | | | | | | M |
| 42 | 2 | SYSTEM TEST & EVALUATION | 1.06 | | | | | | | | CC | | | | | | M |
| 43 | 3 | DEVELOPMENTAL TEST & EVALUATION (DT&E) | 1.06.1 | | | | | | | | | | | | | | M |
| 44 | 3 | OPERATIONAL TEST & EVALUATION (OT&E) | 1.06.2 | | | | | | | | | | | | | | M |
| 45 | 3 | MOCKUPS | 1.06.3 | | | | | | | | | | | | | | M |
| 46 | 3 | TEST FACILITES (DEM/VAL) | 1.06.4 | | | | | | | | | | | | | | M |
| 47 | 3 | TEST & EVALUATION SUPPORT | 1.06.5 | | | | | | | | | | | | | | M |
| 48 | 2 | SYSTEM TRAINING | 1.07 | | | | | | | | | | | | | | M |
| 49 | 3 | SPACE SEGMENT TRAINING | 1.07.1 | | | | | | | | CC | | | | | | M |
| 50 | 3 | C3 SEGMENT TRAINING | 1.07.2 | | | | | | | | | | | | | | M |
| 51 | 3 | IPD SEGMENT TRAINING | 1.07.3 | | | | | | | | | | | | | | M |
| 52 | 2 | PECULIAR SUPPORT EQUIPMENT (PSE) | 1.08 | | | | | | | | | | | | | | M |
| 53 | 3 | SPACE SEGMENT PSE | 1.08.1 | | | | | | | | CC | | | | | | M |
| 54 | 3 | C3 SEGMENT PSE | 1.08.2 | | | | | | | | | | | | | | M |
| 55 | 3 | IPD SEGMENT PSE | 1.08.3 | | | | | | | | | | | | | | M |
| 56 | 3 | LAUNCH SUPPORT PSE | 1.08.4 | | | | | | | | | | | | | | M |
| 57 | 2 | COMMON SUPPORT EQUIPMENT (CSE) | 1.09 | | | | | | | | | | | | | | M |
| 58 | 3 | SPACE SEGMENT CSE | 1.09.1 | | | | | | | | CC | | | | | | M |
| 59 | 3 | C3 SEGMENT CSE | 1.09.2 | | | | | | | | | | | | | | M |
| 60 | 3 | IPD SEGMENT CSE | 1.09.3 | | | | | | | | | | | | | | M |
| 61 | 3 | LAUNCH SEGMENT CSE | 1.09.4 | | | | | | | | | | | | | | M |
| 62 | 2 | FLIGHT SUPPORT OPS & SERVICES | 1.10 | | | | | | | | | | | | | | M |
| 63 | 3 | SATELLITE MATE/CHECKOUT/LAUNCH | 1.10.1 | | | | | | | | CC | | | | | | M |
| 64 | 3 | ON-ORBIT SUPPORT | 1.10.2 | | | | | | | | | | | | | | M |
| 65 | 3 | LAUNCH SITE REFURBISHMENT | 1.10.3 | | | | | | | | | | | | | | M |
| 66 | 2 | STORAGE | 1.11 | | | | | | | | | | | | | | M |
| 67 | 2 | INDUSTRIAL FACILITIES (Reserved) | 1.12 | | | | | | | | CC | | | | | | M |
| 68 | 2 | INITIAL SPARES AND REPAIR PARTS | 1.13 | | | | | | | | | | | | | | M |
| 69 | 3 | SPACE SEGMENT | 1.13.1 | | | | | | | | CC | | | | | | M |
| 70 | 3 | C3 SEGMENT | 1.13.2 | | | | | | | | | | | | | | M |
| 71 | 3 | IPD SEGMENT | 1.13.3 | | | | | | | | | | | | | | M |
| 72 | 2 | OPERATIONS & SUPPORT (O&S) | 1.14 | | | | | | | | | | | | | | M |
| 73 | 3 | SPACE SEGMENT | 1.14.1 | | | | | | | | | | | | | | |
| 74 | 3 | C3 SEGMENT | 1.14.2 | | | | | | | | | | | | | | |
| 75 | 4 | COMMAND AND CONTROL SEGMENT (C2S) | 1.14.2.1 | | | | | | | | | | | | | | |
| 76 | 4 | DRR SEGMENT | 1.14.2.2 | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------|------------------------------|----------------------|-----------------------------|-----------|-----------------------------------------------------------------------------------------------|---------------|----------------------------------------------------|------------|-------------------------------------------------------|------------|--------------|---|----------------|---|---------|---------|------|-----|
| CONTRACTOR COST DATA REPORTING PLAN | | | 1. PROGRAM NPOESS | | | 2. (X) CAT I () CAT II | | 3. (X) INITIAL SUBMISSION () CHANGE REQUEST | | 4. (X) PROGRAM WBS () CONTRACT WBS | | | | | | | | | |
| 5. DATA AS OF 02 OCT 95 | | 6. REVIEW & REFERENCE NO. | | 7. REPORT DATE 02 OCT 95 | | 8. PREPARED BY (Org. Name, Office Symbol, Address) MAJ L. SCOTT, SMC/CIP LAAFB CA 90245 | | | | 9. DATA STORAGE LOCATION SMC/CIP LAAFB CA 90245 | | | | | | | | | |
| 10. | 11. | 12. | | | 13. | 14. | 15. | 16. PROGRAM TOTALS | | 17. REPORT FREQUENCY | | | | | | | | | |
| Line NO. | WBS Level | REPORTING ELEMENTS | | | PROG CODE | Contractor | Contract Type | UNITS | COST (\$M) | UNITS | COST (\$M) | DD FORM 1921 | | DD FORM 1921-1 | | DD 1921 | DD 1921 | CFSR | CPR |
| | | | | | | | | | | | | C | P | C | P | -2 | -3 | | |
| 77 | 4 | FVS SEGMENT | | | 1.14.2.3 | | | | | | | | | | | | | | |
| 78 | 3 | IPD SEGMENT | | | 1.14.3 | | | | | | | | | | | | | | |
| 79 | 4 | EDR ALGORITHM MAINTENANCE | | | 1.14.3.1 | | | | | | | | | | | | | | |
| 80 | 4 | CENTRALS MAINTENANCE | | | 1.14.3.2 | | | | | | | | | | | | | | |
| 81 | 4 | REGIONAL ELEMENT MAINTENANCE | | | 1.14.3.3 | | | | | | | | | | | | | | |

| DATA ITEM DESCRIPTION | 2. IDENTIFICATION NO(S). | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| | AGENCY | NUMBER |
| 1. TITLE Cost Data Summary Report (DD Form 1921) | DOD | DI-F-6006 |
| 3. DESCRIPTION/PURPOSE To collect costs for all work breakdown structure (WBS) elements for providing cost backup for funds estimates. The Report is used in preparing estimates in support of the Five Year Defense Program, developing independent government and parametric cost estimates in support of cost and price analyses and contract negotiations, evaluating contractors' proposals and responding to requirements for summary information to higher levels of management. It segregates actual and estimated costs into their recurring and (continued) | 4. APPROVAL DATE 5 November 1973 | |
| | 5. OFFICE OF PRIMARY RESPONSIBILITY OSD (C) | |
| | 6. DDC REQUIRED | |
| | 8. APPROVAL LIMITATION | |
| 7. APPLICATION/INTERRELATIONSHIP a. The Cost Data Summary Report is applicable to major systems contracts for some large advanced development prototype efforts, full-scale development, and production with a total RDT&E estimate of over \$50 million or cumulative production estimate of over \$200 million or as specified in Chapter 1 of the Contractor Cost Data Reporting (CCDR) System. b. This Report is related to the Functional Cost-Hour Report, DID DI-F-6007; the Progress Curve Report, DID DI-F-6008; and the Plant-Wide Data Report, DID DI-F-6009. c. This Report is required at least annually or under special conditions as specified in the contract. | 9. REFERENCES (Mandatory as cited in block 10) OMB 22-R-0322 DODI 7000.11 Contractor Cost Data Reporting (CCDR) System, NAVMAT P 5241, AMCP 715-8, AFLCP/AFSCP 800-15 Military Standard 881 | |
| | MCSL NUMBER(S) AMSL #71556 | |
| 10. PREPARATION INSTRUCTIONS a. The contractor shall prepare deliverable reports in accordance with the instructions contained in Chapter 3 of the Contractor Cost Data Reporting (CCDR) System, NAVMAT P5241, AMCP 715-8, AFLCP/AFSCP 800-15. b. When specified in the contract, the contractor may submit hard copy printouts from his punched cards or magnetic tapes, in lieu of the OMB-approved DD Form 1921. Cost Data Summary Report, provided that the printouts are identical in content and structure with the DD Form 1921 (Chapter 3, Contractor Cost Data Reporting (CCDR) System). | | |

DI-F-6006

Continued

Block 3

non-recurring components. It provides for (1) costs on contracts and (2) estimates for fiscal years and quantities specified by the DOD component. These data may also be used in conjunction with the Cost Performance Report and the Contract Funds Status Report for an overview of contract costs.

☆U.S. GOVERNMENT PRINTING OFFICE: 1973-713-149/2539

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 Contract. This data item is generated by the contract which contains a specific and discrete work task to develop this data product.

10.2 Format. The plan shall be in a format that the contractor devises and conforms to the following:

- a. Identification. 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. Descriptive material. 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. Page size. 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. Table of contents and index. 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. Legibility. 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.

CONTRACTOR DATA REQUIREMENT LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

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 Department of Defence, 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. | B. EXHIBIT A | C. CATEGORY: TDP _____ TM _____ OTHER _____ MISC _____ |
|---------------------------|-----------------|-----------------------------------------------------------|

| | | |
|--------------------------------------|--------------------|-----------------------------------|
| D. SYSTEM/ITEM NPOESS CONCEPT VAL | E. CONTRACT/PR NO. | F. CONTRACTOR TO BE DETERMINED |
|--------------------------------------|--------------------|-----------------------------------|

| | | |
|--------------------------|-------------------------------------------------------------------|-------------|
| 1. DATA ITEM NO. A008 | 2. TITLE OF DATA ITEM CONTRACT WORK BREAKDOWN STRUCTURE (CWBS) | 3. SUBTITLE |
|--------------------------|-------------------------------------------------------------------|-------------|

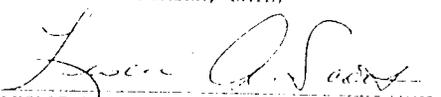
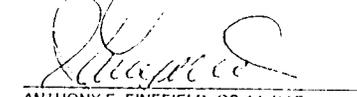
| | | |
|-----------------------------------------------------------------|-----------------------|----------------------------|
| 4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81334/T | 5. CONTRACT REFERENCE | 6. REQUIRING OFFICE ADA |
|-----------------------------------------------------------------|-----------------------|----------------------------|

| | | | | | | | | | |
|---------------------|------------------------------------|-------------------------|--------------------------|----------------------------------------|------------------------------------------------|----------------------------------|-----------|-------|--|
| 7. DD 250 REQ LT | 9. DIST STATEMENT REQUIRED C | 10. FREQUENCY BLK 16 | 11. AS OF DATE BLK 16 | 12. DATE OF FIRST SUBMISSION BLK 16 | 13. DATE OF SUBSEQUENT SUBMISSION BLK 16 | 14. DISTRIBUTION a. ADDRESSEE | b. COPIES | | |
| 8. APP CODE | | | | | | Draft | Final | | |
| | | | | | | | Reg | Repro | |

| | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----|-----|-----|
| 16. REMARKS 4 (cont) The Work Breakdown Structure and Dictionary shall be prepared and submitted for approval, reflecting the WBS outlined in the Contractor Cost Data Reporting Plan (CCDRP) in attachment 1. The initial submission will highlight the contractor's suggested top 10 cost and schedule drivers as required in the Cost Performance Report. 10,11,12,13 (cont) Initial submission shall be 60 calendar days after contract award. Revision pages to the approved CWBS and Dictionary shall be submitted 30 CD following any changes. *Distribution shall be one file transferred via the NPOESS Electronic Bulletin Board (E BB) Letter of transmittal (LT) to NPOESS (DMO) on each submittal. | NPOESS (DMO) | 1 | 0 | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | 15. TOTAL -----> | 000 | 001 | 000 |

| | | | |
|----------------|---------|----------------|---------|
| G. PREPARED BY | H. DATE | I. APPROVED BY | J. DATE |
|----------------|---------|----------------|---------|

| |
|---------------------------|
| 17. PRICE GROUP |
| 18. ESTIMATED TOTAL PRICE |

| | | | | | | | | | | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------|--|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------|-------------------------------------------------------|----------------------|------------------------|--------------|---|---------|---------|------|-----|--|--|
| CONTRACTOR COST DATA REPORTING PLAN | | 1. PROGRAM NPOESS | | | 2. (X) CAT I () CAT II | | 3. (X) INITIAL SUBMISSION () CHARGE REQUEST | | 4. (X) PROGRAM WBS () CONTRACT WBS | | | | | | | | | | |
| 5. DATA AS OF 02 OCT 95 | | 6. REVIEW & REFERENCE NO. | | 7. REPORT DATE 02 OCT 95 | | 8. PREPARED BY (Org. Name, Office Symbol, Address) MAJ L. SCOTT, SMC/CIP LAAFB CA 90245 | | | 9. DATA STORAGE LOCATION SMC/CIP LAAFB CA 90245 | | | | | | | | | | |
| 10. | 11. | 12. | | | 13. | 14. | 15. | 16. PROGRAM TOTALS | | 17. REPORT FREQUENCY | | | | | | | | | |
| Line NO. | NBS Level | REPORTING ELEMENTS | | | PROG CODE | Contractor | Contract Type | RD&E | PROCUREMENT | DD FORM 1921 | | DD FORM 1921 | | DD 1921 | DD 1921 | CFSR | CPR | | |
| | | | | | | | | UNITS | COST (\$M) | UNITS | COST (\$M) | C | P | C | P | 2 | 3 | | |
| 1 | 1 | NPOESS | | | 1.00 | | | | 0 | 0 | | | | | | | | | |
| 2 | 2 | LAUNCH VEHICLE SEGMENT (Reserved) | | | 1.01 | | | | | | | | | | | | | | |
| 3 | 2 | SATELLITE SEGMENT | | | 1.02 | | | | | | | | | | | | | | |
| 4 | 3 | SATELLITE INTEGRATION, ASSY, TEST & C/O | | | 1.02.1 | | | | | | | | | | | | | | |
| 5 | 3 | SPACECRAFT BUS | | | 1.02.2 | | | | | | | | | | | | | | |
| 6 | 4 | SPACECRAFT BUS IAT&C/O | | | 1.02.2.1 | | | | | | | | | | | | | | |
| 7 | 4 | STRUCTURES & MECH ASSEMBLIES SUBSYSTEM (SMAS) | | | 1.02.2.2 | | | | | | | | | | | | | | |
| 8 | 4 | ATTITUDE DETERMINATION & CNTRL SUBSYSTEM (ADCS) | | | 1.02.2.3 | | | | | | | | | | | | | | |
| 9 | 4 | THERMAL CONTROL SUBSYSTEM (TCS) | | | 1.02.2.4 | | | | | | | | | | | | | | |
| 10 | 4 | ELECTRICAL POWER SUBSYSTEM (EPS) | | | 1.02.2.5 | | | | | | | | | | | | | | |
| 11 | 4 | TELEMETRY AND COMMAND SUBSYSTEM (TACS) | | | 1.02.2.6 | | | | | | | | | | | | | | |
| 12 | 4 | COMMAND AND DATA HANDLING SUBSYSTEM (CDHS) | | | 1.02.2.7 | | | | | | | | | | | | | | |
| 13 | 5 | CDHS HARDWARE | | | 1.02.2.7.1 | | | | | | | | | | | | | | |
| 14 | 5 | CDHS SOFTWARE | | | 1.02.2.7.2 | | | | | | | | | | | | | | |
| 15 | 4 | PROPULSION SUBSYSTEM (PS) | | | 1.02.2.7.2 | | | | | | | | | | | | | | |
| 16 | 3 | PAYLOAD I...n | | | 1.02.2.8 | | | | | | | | | | | | | | |
| 17 | 4 | PAYLOAD I...n HARDWARE | | | 1.02.3 | | | | | | | | | | | | | | |
| 18 | 4 | PAYLOAD I...n SOFTWARE | | | 1.02.3.1 | | | | | | | | | | | | | | |
| 19 | 2 | COMMAND, CONTROL & COMM. SEGMENT (C3S) | | | 1.02.3.2 | | | | | | | | | | | | | | |
| 20 | 3 | C3S INTEGRATION, ASSEMBLY, TEST & C/O | | | 1.03 | | | | | | | | | | | | | | |
| 21 | 3 | COMMAND & CONTROL | | | 1.03.1 | | | | | | | | | | | | | | |
| 22 | 4 | PRIMARY SATELLITE OPS CENTER (SUITLAND) | | | 1.03.2 | | | | | | | | | | | | | | |
| 23 | 4 | BACKUP SATELLITE OPS CENTER (FALCON) | | | 1.03.2.1 | | | | | | | | | | | | | | |
| 24 | 4 | COMMON SOFTWARE | | | 1.03.2.2 | | | | | | | | | | | | | | |
| 25 | 4 | TRACKING STATIONS I...n | | | 1.03.2.3 | | | | | | | | | | | | | | |
| 26 | 3 | DATA ROUTING & RETRIEVAL (DRR) | | | 1.03.2.4 | | | | | | | | | | | | | | |
| 27 | 3 | FLIGHT VEHICLE SIMULATOR (FVS) | | | 1.03.3 | | | | | | | | | | | | | | |
| 28 | 2 | INTERFACE DATA PROCESSOR SEGMENT (IPDS) | | | 1.03.4 | | | | | | | | | | | | | | |
| 29 | 3 | IPDS INTEGRATION, ASSEMBLY, TEST & C/O | | | 1.04 | | | | | | | | | | | | | | |
| 30 | 3 | ENVIRONMENTAL DATA RECORD ALGORITHMS | | | 1.04.1 | | | | | | | | | | | | | | |
| 31 | 3 | CENTRALS | | | 1.04.2 | | | | | | | | | | | | | | |
| 32 | 4 | COMMON SOFTWARE | | | 1.04.3 | | | | | | | | | | | | | | |
| 33 | 4 | NESDIS | | | 1.04.3.1 | | | | | | | | | | | | | | |
| 34 | 4 | AFGWC | | | 1.04.3.2 | | | | | | | | | | | | | | |
| 35 | 4 | FMOC | | | 1.04.3.3 | | | | | | | | | | | | | | |
| 36 | 4 | AFSFC 50th SUPPORT WING | | | 1.04.3.4 | | | | | | | | | | | | | | |
| 37 | 4 | EUMETSAT | | | 1.04.3.5 | | | | | | | | | | | | | | |
| 38 | 3 | REGIONAL ELEMENTS | | | 1.04.3.6 | | | | | | | | | | | | | | |
| | | | | | 1.04.4 | | | | | | | | | | | | | | |
| 18. PREPARED BY (NAME, GRADE, OFFICE SYMBOL, PHONE NUMBER, DATE) | | | | | 19. COMMAND CONCURRENCE | | | 20. SERVICE FOCAL POINT CONCURRENCE | | | 21. CATG APPROVAL DATE | | | | | | | | |
|  LESLIE M. SCOTT, MAJ, SMC/CIP (310) 336-4588, 10/03/95 | | | | |  ANTHONY E. FINEFIELD, GS-14, DAF SMC FIELD COMMAND FOCAL POINT (310) 353-1073 10/4/95 | | | | | | | | | | | | | | |

| CONTRACTOR COST DATA REPORTING PLAN | | | 1. PROGRAM | | | | 2. | | | 3. | | | 4. | | | | | | |
|-------------------------------------|-----------|----------------------------------------|------------|----------------|------------|-----------------------------------------------------|-------------------------|------------------|----------------------|----------------------------------------------|--------------|---|-------------------------------------|---|---------|---------|------|-----|---|
| | | | NPOESS | | | | (X) CAT I () CAT II | | | (X) INITIAL SUBMISSION () CHANGE REQUEST | | | (X) PROGRAM WBS () CONTRACT WBS | | | | | | |
| 5. DATA AS OF | | 6. REVIEW & REFERENCE NO. | | 7. REPORT DATE | | 8. PREPARED BY (Orig. Name, Office Symbol, Address) | | | | 9. DATA STORAGE LOCATION | | | | | | | | | |
| 02 OCT 95 | | | | 02 OCT 95 | | MAJ L. SCOTT, SMC/CIP LAAFB CA 90245 | | | | SMC/CIP LAAFB CA 90245 | | | | | | | | | |
| 10. | 11. | 12. | | 13. | 14. | 15. | 16. PROGRAM TOTALS | | 17. REPORT FREQUENCY | | | | | | | | | | |
| Line No. | WBS Level | REPORTING ELEMENTS | | PROG CODE | Contractor | Contract Type | UNITS | RDI&E COST (\$M) | PROCUREMENT UNITS | COST (\$M) | DD FORM 1921 | | CDR FORMS 1921-1 | | DD 1921 | DD 1921 | CFSR | CPR | |
| | | | | | | | | | | | C | P | C | P | 2 | 3 | | | |
| 39 | 4 | COMMON SOFTWARE | | 1.04.4.1 | | | | | | | | | | | | | | | |
| 40 | 4 | ELEMENTS I... | | 1.04.4.2 | | | | | | | | | | | | | | | M |
| 41 | 2 | SYSTEM ENGINEERING/PROGRAM MANAGEMENT | | 1.05 | | | | | | | | | | | | | | | M |
| 42 | 2 | SYSTEM TEST & EVALUATION | | 1.06 | | | | | | | CC | | | | | | | | M |
| 43 | 3 | DEVELOPMENTAL TEST & EVALUATION (DT&E) | | 1.06.1 | | | | | | | CC | | | | | | | | M |
| 44 | 3 | OPERATIONAL TEST & EVALUATION (OT&E) | | 1.06.2 | | | | | | | | | | | | | | | M |
| 45 | 3 | MOCKUPS | | 1.06.3 | | | | | | | | | | | | | | | M |
| 46 | 3 | TEST FACILITIES (DEM/VAL) | | 1.06.4 | | | | | | | | | | | | | | | M |
| 47 | 3 | TEST & EVALUATION SUPPORT | | 1.06.5 | | | | | | | | | | | | | | | M |
| 48 | 2 | SYSTEM TRAINING | | 1.07 | | | | | | | | | | | | | | | M |
| 49 | 3 | SPACE SEGMENT TRAINING | | 1.07.1 | | | | | | | CC | | | | | | | | M |
| 50 | 3 | C3 SEGMENT TRAINING | | 1.07.2 | | | | | | | | | | | | | | | M |
| 51 | 3 | IPD SEGMENT TRAINING | | 1.07.3 | | | | | | | | | | | | | | | M |
| 52 | 2 | PECULIAR SUPPORT EQUIPMENT (PSE) | | 1.08 | | | | | | | | | | | | | | | M |
| 53 | 3 | SPACE SEGMENT PSE | | 1.08.1 | | | | | | | CC | | | | | | | | M |
| 54 | 3 | C3 SEGMENT PSE | | 1.08.2 | | | | | | | | | | | | | | | M |
| 55 | 3 | IPD SEGMENT PSE | | 1.08.3 | | | | | | | | | | | | | | | M |
| 56 | 3 | LAUNCH SUPPORT PSE | | 1.08.4 | | | | | | | | | | | | | | | M |
| 57 | 2 | COMMON SUPPORT EQUIPMENT (CSE) | | 1.09 | | | | | | | | | | | | | | | M |
| 58 | 3 | SPACE SEGMENT CSE | | 1.09.1 | | | | | | | CC | | | | | | | | M |
| 59 | 3 | C3 SEGMENT CSE | | 1.09.2 | | | | | | | | | | | | | | | M |
| 60 | 3 | IPD SEGMENT CSE | | 1.09.3 | | | | | | | | | | | | | | | M |
| 61 | 3 | LAUNCH SEGMENT CSE | | 1.09.4 | | | | | | | | | | | | | | | M |
| 62 | 2 | FLIGHT SUPPORT OPS & SERVICES | | 1.10 | | | | | | | | | | | | | | | M |
| 63 | 3 | SATELLITE MATE/CHECKOUT/LAUNCH | | 1.10.1 | | | | | | | CC | | | | | | | | M |
| 64 | 3 | ON-ORBIT SUPPORT | | 1.10.2 | | | | | | | | | | | | | | | M |
| 65 | 3 | LAUNCH SITE REFURBISHMENT | | 1.10.3 | | | | | | | | | | | | | | | M |
| 66 | 2 | STORAGE | | 1.11 | | | | | | | | | | | | | | | M |
| 67 | 2 | INDUSTRIAL FACILITIES (Reserved) | | 1.12 | | | | | | | CC | | | | | | | | M |
| 68 | 2 | INITIAL SPARES AND REPAIR PARTS | | 1.13 | | | | | | | | | | | | | | | M |
| 69 | 3 | SPACE SEGMENT | | 1.13.1 | | | | | | | CC | | | | | | | | M |
| 70 | 3 | C3 SEGMENT | | 1.13.2 | | | | | | | | | | | | | | | M |
| 71 | 3 | IPD SEGMENT | | 1.13.3 | | | | | | | | | | | | | | | M |
| 72 | 2 | OPERATIONS & SUPPORT (O&S) | | 1.14 | | | | | | | | | | | | | | | M |
| 73 | 3 | SPACE SEGMENT | | 1.14.1 | | | | | | | | | | | | | | | |
| 74 | 3 | C3 SEGMENT | | 1.14.2 | | | | | | | | | | | | | | | |
| 75 | 4 | COMMAND AND CONTROL SEGMENT (C2S) | | 1.14.2.1 | | | | | | | | | | | | | | | |
| 76 | 4 | DRR SEGMENT | | 1.14.2.2 | | | | | | | | | | | | | | | |

| CONTRACTOR COST DATA REPORTING PLAN | | | 1. PROGRAM NPOESS | | | 2. (X) CAT I () CAT II | | 3. (X) INITIAL SUBMISSION () CHANGE REQUEST | | 4. (X) PROGRAM WBS () CONTRACT WBS | | | | | | | |
|-------------------------------------|---------------------|------------------------------|----------------------|-----------------------------|-------------------------|------------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------|------------------------------|-------------------------------------------------------|---|---------------------------------|---|------------|------------|------|-----|
| 5. DATA AS OF 02 OCT 95 | | 6. REVIEW & REFERENCE NO. | | 7. REPORT DATE 02 OCT 95 | | 8. PREPARED BY (Orig. Name, Office Symbol, Address) MAJ L. SCOTT, SMC/CIP LAAFB CA 90245 | | | | 9. DATA STORAGE LOCATION SMC/CIP LAAFB CA 90245 | | | | | | | |
| 10. Line No. | 11. WBS Level | 12. REPORTING ELEMENTS | 13. PROG CODE | 14. Contr- actor | 15. Contract Type | 16. PROGRAM TOTALS | | | | 17. REPORT FREQUENCY | | | | | | | |
| | | | | | | UNITS | RDT&E COST (\$M) | UNITS | PROCUREMENT COST (\$M) | DD FORM 1921 | | CCDR FORMS DD FORM 1921-1 | | DD 1921 | DD 1921 | CFSR | CPR |
| | | | | | | | | | | C | P | C | P | 2 | 3 | | |
| 77 | 4 | FVS SEGMENT | 1.14.2.3 | | | | | | | | | | | | | | |
| 78 | 3 | IPD SEGMENT | 1.14.3 | | | | | | | | | | | | | | |
| 79 | 4 | EDR ALGORITHM MAINTENANCE | 1.14.3.1 | | | | | | | | | | | | | | |
| 80 | 4 | CENTRALS MAINTENANCE | 1.14.3.2 | | | | | | | | | | | | | | |
| 81 | 4 | REGIONAL ELEMENT MAINTENANCE | 1.14.3.3 | | | | | | | | | | | | | | |

DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0188

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 (0704-0188), Washington, DC 20503.

| | |
|---------------------------------------------------|-----------------------------------------------|
| 1. TITLE CONTRACT WORK BREAKDOWN STRUCTURE | 2. IDENTIFICATION NUMBER DI-MGMT-81334 |
|---------------------------------------------------|-----------------------------------------------|

3. DESCRIPTION/PURPOSE

3.1 This documents the Contract Work Breakdown Structure (CWBS) and its extension by the contractor using terminology and definitions, as applicable, in MIL-STD-881. The complete Work Breakdown Structure (WBS) will serve as a basis for program and technical planning, scheduling, cost estimating, resource allocations, performance management, configuration management, and status reporting.

| | | | |
|----------------------------------------|------------------------------------------------------------|---------------------|----------------------|
| 4. APPROVAL DATE (YYMMDD) 930325 | 5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) D/PA&E/RA | 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 WBS to be submitted by the contractor, as required, by the work task described in 5.4.1.1 of MIL-STD-881.

7.2 This DID is applicable to all contracts requiring a WBS.

(Continued on Page 2)

| | | |
|------------------------|----------------------|-----------------------------------|
| 8. APPROVAL LIMITATION | 9a. APPLICABLE FORMS | 9b. AMSC NUMBER AMSC D6915 |
|------------------------|----------------------|-----------------------------------|

10. PREPARATION INSTRUCTIONS

10.1 Reference document. The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments, notices, and revisions, shall be as specified in the contract.

10.2 Specific instructions. The CWBS shall be reflected in a report which consists of two parts. Part I is an index, and Part II is a dictionary.

10.2.1 Part I - Contract Work Breakdown Structure Index. The CWBS shall contain the data elements as shown in the attached Part I sample format.

a. Line number. Enter line number for each CWBS. Line numbers should be sequential starting with 1.

b. CWBS element. Enter the title of the CWBS element (using the specific name or nomenclature, when applicable), intended to reflect the level. Level 1 is the total contract. Levels 2, 3, etc., are successively lower levels of the program.

c. CWBS code. Enter the CWBS code, if applicable.

d. Contract line item(s). Enter the number of the contract line item(s) which is (are) associated with the CWBS element, if applicable. (Continued on Page 2)

11. DISTRIBUTION STATEMENT

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

Block 7, Application Interrelationship (Continued)

7.3 Related DIDs are:

| | |
|--------------------------|------------------------------|
| DI-F-6006 DD Form 1921 | Cost Data Summary Report |
| DI-F-6007 DD Form 1921-1 | Functional Cost-Hour Report |
| DI-F-6008 DD Form 1921-2 | Progress Curve Report |
| DI-F-6000C | Cost Performance Report |
| DI-F-6004B | Contract Funds Status Report |
| DI-F-6010A | Cost/Schedule Status |

7.4 This DID supersedes DI-A-3023, DI-A-1004

Block 10, Preparation Instructions (Continued)

e. Statement of work (SOW) paragraph number(s). Enter the applicable paragraph number(s) from the Statement of Work (SOW), if applicable.

10.2.2 Part II - Contract Work Breakdown Structure Dictionary. The CWBS dictionary shall describe the effort and tasks associated with every CWBS element. The Part II sample attached provides the format for the CWBS dictionary.

a. Level of CWBS. Enter the level of each CWBS.

b. CWBS element. Enter the title of each CWBS element in the same order as given in Part I, Contract Work Breakdown Structure Index.

c. CWBS definition. Enter a complete description of the technical and cost content of each CWBS element. The statement should be as descriptive as possible about the efforts, tasks, tests, components, etc. that shall be included in the CWBS element by the contractor.

| CONTRACT WORK BREAKDOWN STRUCTURE INDEX | | PROGRAM: | | RFP NO.: _____ CONTRACT NO.: _____ | | DATE: | | |
|--------------------------------------------|--------------|----------|---|---------------------------------------|---|--------------|--------------------------|---------------------------------------------------|
| LINE NUMBER | CWBS ELEMENT | | | | | CWBS CODE | CONTRACT LINE ITEM(S) | STATEMENT OF WORK (SOW) PARAGRAPH NUMBER(S) |
| | LEVEL | NAME | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | | | |
| | | | | | | | | |

| CONTRACT WORK BREAKDOWN STRUCTURE DICTIONARY | | PROGRAM: | RFP NO.: _____ CONTRACT NO.: _____ | DATE: |
|-------------------------------------------------|--------------|-----------------|---------------------------------------|-------|
| LEVEL OF CWBS | CWBS ELEMENT | CWBS DEFINITION | | |
| | | | | |

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 SPECIFICATION (SSS)

2. IDENTIFICATION NUMBER

DI-IPSC-81431

3. DESCRIPTION/PURPOSE

3.1 The System/Subsystem Specification (SSS) specifies the requirements for a system or subsystem and the methods to be used to ensure that each requirement has been met. Requirements pertaining to the system or subsystem's external interfaces may be presented in the SSS or in one or more Interface Requirements Specifications (IRs) (DI-IPSC-81434) referenced from the SSS.

3.2 The SSS, possibly supplemented by IRs, is used as the basis for design and qualification testing of a system or subsystem. Throughout this DID, the term "system" may be interpreted to mean "subsystem" as applicable. The resulting document should be titled System Specification or Subsystem Specification (SSS).

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 requirements to be met by a system or subsystem.

7.3 Requirements pertaining to system or subsystem interfaces may be presented in the SSS 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-CMAN-80008A and DI-IPSC-80690.

8. APPROVAL LIMITATION

Limited Approval from 12/5/94 through 12/5/96

9a. APPLICABLE FORMS

9b. AMSC NUMBER

N7074

10. PREPARATION INSTRUCTIONS

10.1 General instructions.

- a. Automated techniques. Use of automated techniques is encouraged. The term "document" in this DID means a collection of data regardless of its medium.
- b. Alternate presentation styles. 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.

(Continued on Page 2)

11. DISTRIBUTION STATEMENT

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

CONTRACTOR DATA REQUIREMENT LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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 Department of Defence, 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. | B. EXHIBIT A | C. CATEGORY: TDP _____ TM _____ OTHER _____ MISC _____ |
|---------------------------|-----------------|-----------------------------------------------------------|

| | | |
|--------------------------------------|-------------------------|-----------------------------------|
| D. SYSTEM/ITEM NPOESS CONCEPT VAL | E. CONTRACT/PR NO. — | F. CONTRACTOR TO BE DETERMINED |
|--------------------------------------|-------------------------|-----------------------------------|

| | | |
|--------------------------|---------------------------------------------------------|-------------|
| 1. DATA ITEM NO. A009 | 2. TITLE OF DATA ITEM SYSTEM/SUBSYSTEM SPECIFICATION | 3. SUBTITLE |
|--------------------------|---------------------------------------------------------|-------------|

| | | |
|-----------------------------------------------------------------|-----------------------|----------------------------|
| 4. AUTHORITY (Data Acquisition Document No.) DI-IPSC-81431/T | 5. CONTRACT REFERENCE | 6. REQUIRING OFFICE ADA |
|-----------------------------------------------------------------|-----------------------|----------------------------|

| | | | | | | |
|---------------------|------------------------------------|------------------------------------------------|----------------------------------------|------------------|-------|-------|
| 7. DD 250 REQ LT | 9. DIST STATEMENT REQUIRED F | 10. FREQUENCY ASREQ | 12. DATE OF FIRST SUBMISSION BLK 16 | 14. DISTRIBUTION | | |
| 6. APP CODE A | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION BLK 16 | a. ADDRESSEE | b. COPIES | | |
| | | | | Draft | Final | |
| | | | | | Reg | Repro |

| | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---|-----|-----|-----|
| <p>16. REMARKS</p> <p>4 (cont) Para 10.2.3.4: Replace the first sentence with "The paragraph shall specify the requirements, if any, imposed on interfaces internal to the system, including both subsystem-to-subsystem interface and interfaces between components within subsystems."</p> <p>Replace the second sentence with "If all internal interfaces are left to the design or to requirement specifications for system components and/or interfaces, this fact shall be so stated."</p> <p>12 (cont) A draft shall be submitted 30 CD prior to the System Requirements Review.</p> <p>13 (cont) The final draft shall be submitted 30 CD prior to the System Functional Review (SFR). SFR Review shall be reflected in an updated draft submitted 14 CD prior to EOC.</p> <p>*Distribution shall be one file transferred via the NPOESS Electronic Bulletin Board (EBB).</p> <p>Letter of transmittal (LT) to NPOESS (DMO) on each submittal.</p> | NPOESS (DMO) | 0 | 1 | 0 | |
| | E | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | 15. TOTAL -----> | | 000 | 001 | 000 |

| | | | |
|----------------|---------|----------------|---------|
| G. PREPARED BY | H. DATE | I. APPROVED BY | J. DATE |
|----------------|---------|----------------|---------|

| |
|---------------------------|
| 17. PRICE GROUP |
| 18. ESTIMATED TOTAL PRICE |

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 SPECIFICATION (SSS) | 2. IDENTIFICATION NUMBER DI-IPSC-81431 |
|----------------------------------------------------------------|---------------------------------------------------------|

3. DESCRIPTION/PURPOSE

3.1 The System/Subsystem Specification (SSS) specifies the requirements for a system or subsystem and the methods to be used to ensure that each requirement has been met. Requirements pertaining to the system or subsystem's external interfaces may be presented in the SSS or in one or more Interface Requirements Specifications (IRs) (DI-IPSC-81434) referenced from the SSS.

3.2 The SSS, possibly supplemented by IRs, is used as the basis for design and qualification testing of a system or subsystem. Throughout this DID, the term "system" may be interpreted to mean "subsystem" as applicable. The resulting document should be titled System Specification or Subsystem Specification (SSS).

| | | | |
|--------------------------------------------|--------------------------------------------------|----------------------------|-----------------------------|
| 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 requirements to be met by a system or subsystem.

7.3 Requirements pertaining to system or subsystem interfaces may be presented in the SSS 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-CMAN-80008A and DI-IPSC-80690.

| | | |
|--------------------------------------------------------------------------------|-----------------------------|---------------------------------|
| 8. APPROVAL LIMITATION Limited Approval from 12/5/94 through 12/5/96 | 9a. APPLICABLE FORMS | 9b. AMSC NUMBER N7074 |
|--------------------------------------------------------------------------------|-----------------------------|---------------------------------|

10. PREPARATION INSTRUCTIONS

10.1 General instructions.

a. Automated techniques. Use of automated techniques is encouraged. The term "document" in this DID means a collection of data regardless of its medium.

b. Alternate presentation styles. 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.

(Continued on Page 2)

11. DISTRIBUTION STATEMENT

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

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.

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 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 system requirements, that is, those characteristics of the system that are conditions for its acceptance. 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, for subsystems, traceability to system 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 system that are conditions for system 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 system 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 system 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 System capability requirements. This paragraph shall be divided into subparagraphs to itemize the requirements associated with each capability of the system. 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 (System capability). This paragraph shall identify a required system 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 system 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 system 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 system must accept and outputs it must produce.

3.3 System external interface requirements. This paragraph shall be divided into subparagraphs to specify the requirements, if any, for the system'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 system. 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 system 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 system 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 system 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 system must assign the interface

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 system 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 system 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)

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

- e. Required characteristics of communication methods that the system 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 system 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 System internal interface requirements. This paragraph shall specify the requirements, if any, imposed on interfaces internal to the system. If all internal interfaces are left to the design or to requirement specifications for system components, 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 System internal data requirements. This paragraph shall specify the requirements, if any, imposed on data internal to the system. Included shall be requirements, if any, on databases and data files to be included in the system. If all decisions about internal data are left to the design or to requirements specifications for system components, 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 that the system is required to provide (such as site-dependent latitude and longitude or site-dependent state tax codes) and operational parameters that the system 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 system requirements, if any, concerned with preventing or minimizing unintended hazards to personnel, property, and the physical environment. Examples include restricting the use of dangerous materials; classifying explosives for purposes of shipping, handling, and storing; abort/escape provisions from enclosures; gas detection and warning devices; grounding of electrical systems; decontamination; and explosion proofing. This paragraph shall include the system requirements, if any, for nuclear components, including, as applicable, requirements for component design, prevention of inadvertent detonation, and compliance with nuclear safety rules.

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

3.9 System environment requirements. This paragraph shall specify the requirements, if any, regarding the environment in which the system must operate. Examples for a software system are the computer hardware and operating system on which the software must run. (Additional requirements concerning computer resources are given in the next paragraph). Examples for a hardware-software system include the environmental conditions that the system must withstand during transportation, storage, and operation, such as conditions in the natural environment (wind, rain, temperature, geographic location), the induced environment (motion, shock, noise, electromagnetic radiation), and environments due to enemy action (explosions, radiation).

3.10 Computer resource requirements. This paragraph shall be divided into the following subparagraphs. Depending upon the nature of the system, the computer resources covered in these subparagraphs may constitute the environment of the system (as for a software system) or components of the system (as for a hardware-software system).

3.10.1 Computer hardware requirements. This paragraph shall specify the requirements, if any, regarding computer hardware that must be used by, or incorporated into, the system. 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 system'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.

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

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 system. 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.

3.10.4 Computer communications requirements. This paragraph shall specify the additional requirements, if any, concerning the computer communications that must be used by, or incorporated into, the system. 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 System quality factors. This paragraph shall specify the requirements, if any, pertaining to system quality factors. Examples include quantitative requirements concerning system functionality (the ability to perform all required functions), reliability (the ability to perform with correct, consistent results -- such as mean time between failure for equipment), maintainability (the ability to be easily serviced, repaired, or corrected), availability (the ability to be accessed and operated when needed), flexibility (the ability to be easily adapted to changing requirements), portability of software (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 construction constraints. This paragraph shall specify the requirements, if any, that constrain the design and construction of the system. For hardware-software systems, this paragraph shall include the physical requirements imposed on the system. These requirements may be specified by reference to appropriate commercial or military standards and specifications. Examples include requirements concerning:

- a. Use of a particular system architecture or requirements on the architecture, such as required subsystems; use of standard, military, or existing components; or use of Government/acquirer-furnished property (equipment, information, or software)
- b. Use of particular design or construction standards; use of particular data standards; use of a particular programming language; workmanship requirements and production techniques
- c. Physical characteristics of the system (such as weight limits, dimensional limits, color, protective coatings); interchangeability of parts; ability to be transported from one location to another; ability to be carried or set up by one, or a given number of, persons
- d. Materials that can and cannot be used; requirements on the handling of toxic materials; limits on the electromagnetic radiation that the system is permitted to generate

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

- e. Use of nameplates, part marking, serial and lot number marking, and other identifying markings
- f. 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 system 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 system. Examples include requirements for the number of work stations to be provided and for built-in help and training features. Also included shall be the human factors engineering requirements, if any, imposed on the system. 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 adjustable-height work stations, color and duration of error messages, physical placement of critical indicators or buttons, and use of auditory signals.

3.14 Training-related requirements. This paragraph shall specify the system requirements, if any, pertaining to training. Examples include training devices and training materials to be included in the system.

3.15 Logistics-related requirements. This paragraph shall specify the system 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 system requirements, if any, not covered in the previous paragraphs. Examples include requirements for system documentation, such as specifications, drawings, technical manuals, test plans and procedures, and installation instruction data, if not covered in other contractual documents.

3.17 Packaging requirements. This section shall specify the requirements, if any, for packaging, labeling, and handling the system and its components for delivery. 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:

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

- a. **Demonstration:** The operation of the system, or a part of the system, that relies on observable functional operation not requiring the use of instrumentation, special test equipment, or subsequent analysis.
- b. **Test:** The operation of the system, or a part of the system, 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, interpolation, or extrapolation of test results.
- d. **Inspection:** The visual examination of system components, documentation, etc.
- e. **Special qualification methods.** Any special qualification methods for the system, such as special tools, techniques, procedures, facilities, acceptance limits, use of standard samples, preproduction or periodic production samples, pilot models, or pilot lots.

5. Requirements traceability. For system-level specifications, this paragraph does not apply. For subsystem-level specifications, this paragraph shall contain:

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

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 two subsystems may result in requirements about how the subsystems 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 requirement that has been allocated to the subsystem covered by this specification to the subsystem requirements that address it. All system requirements allocated to the subsystem shall be accounted for. Those that trace to subsystem requirements contained in IRSs shall reference those IRSs.

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.).

CONTRACTOR DATA REQUIREMENT LIST

(1 Data Item)

Form Approved

OMB No. 0704-0188

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 Department of Defence, 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. | B. EXHIBIT A | C. CATEGORY: TDP _____ TM _____ OTHER <u>MISC</u> |
|---------------------------|-----------------|------------------------------------------------------|

| | | |
|--------------------------------------|--------------------|-----------------------------------|
| D. SYSTEM/ITEM NPOESS CONCEPT VAL | E. CONTRACT/PR NO. | F. CONTRACTOR TO BE DETERMINED |
|--------------------------------------|--------------------|-----------------------------------|

| | | |
|--------------------------|-------------------------------------------------------------------------|-------------|
| 1. DATA ITEM NO. A010 | 2. TITLE OF DATA ITEM SYSTEM/SEGMENT INTERFACE CONTROL SPECIFICATION | 3. SUBTITLE |
|--------------------------|-------------------------------------------------------------------------|-------------|

| | | |
|-----------------------------------------------------------------|-----------------------|----------------------------|
| 4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-81314/T | 5. CONTRACT REFERENCE | 6. REQUIRING OFFICE ADA |
|-----------------------------------------------------------------|-----------------------|----------------------------|

| | | | | | | |
|---------------------|------------------------------------|----------------|----------------------------------------|------------------|-----------|-------|
| 7. DD 250 REQ LT | 9. DIST STATEMENT REQUIRED F | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION BLK 16 | 14. DISTRIBUTION | | |
| 8. APP CODE | | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION | a. ADDRESSEE | b. COPIES | |
| | | | | | Draft | Final |
| | | | | | | Reg |
| | | | | | | Repro |

| | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----|-----|-----|
| 16. REMARKS 4 (cont) Para 10.1, Use DID content as reference. Para 10.3, delete in its entirety and change to read: This specification shall address the following: 1.0 Scope 2.0 Applicable Documents 3.0 Interface Requirements 4.0 Quality Assurance Provisions 5.0 Notes Contractor format is acceptable. 12 (cont) The draft shall be submitted 30 CD prior to the System Functional Review. *Distribution shall be one file transferred via the NPOESS Electronic Bulletin Board (EBB). Letter of transmittal (LT) to NPOESS (DMO) on each submittal. | NPOESS (DMO) | 0 | 1 | 0 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 15. TOTAL -----> | | 000 | 001 | 000 |

| |
|------------------------------|
| 17. PRICE GROUP |
| 18. ESTIMATED TOTAL PRICE |

| | | | |
|----------------|---------|----------------|---------|
| G. PREPARED BY | H. DATE | I. APPROVED BY | J. DATE |
|----------------|---------|----------------|---------|

DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0188

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 (0704-0188), Washington, DC 20503.

| | |
|----------------------------------------------------------------|------------------------------------------------|
| 1. TITLE System/Segment Interface Control Specification | 2. IDENTIFICATION NUMBER DI-CMAN- 81314 |
|----------------------------------------------------------------|------------------------------------------------|

3. DESCRIPTION/PURPOSE
3.1 The interface control specification defines the physical and functional interface, parameter requirements between interconnecting, interacting, or co-functioning systems, system segments, and assemblies. It is used as a top level control document governing the design of the interfacing elements of the system/segment.

| | | | |
|-------------------------------------|---------------------------------------------------|---------------------|----------------------|
| 4. APPROVAL DATE (YYMMDD) 930125 | 5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) G/R7 | 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 systems and equipment development contracts involving hardware-to-hardware and hardware-to-external-factors (facilities, mission elements, etc) interface conditions. For hardware-to-software or software-to-software
(Continued on Page 2)

| | | |
|------------------------|----------------------|--------------------------|
| 8. APPROVAL LIMITATION | 9a. APPLICABLE FORMS | 9b. AMSC NUMBER G6890 |
|------------------------|----------------------|--------------------------|

10. PREPARATION INSTRUCTIONS
10.1 Content
10.1.1 Functional interface parameters. These input/output requirements shall include:
10.1.1.1 Electronic. The elements with related tolerances shall include:
 a. Signal characteristics
 b. Wave forms
 c. Voltage
 d. Frequencies
 e. Shielding requirements
 f. Circuit impedance
 g. Current limits/requirements
10.1.1.2 Electrical. The elements with related tolerances shall include:

(Continued on Page 2)

11. DISTRIBUTION STATEMENT

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

Block 7, Application/Interrelationship (Continued)

cases, DI-MCCR-80303, Software Interface Control Document, DI-MCCR-80027, Interface Requirements Specification, or DI-MCCR-80027, Interface Design Document shall be used.

7.3 When the complete interface requirements shall be reflected on an interface control drawing and installation drawing as described in DOD-STD-100C, use DI-DRPR-81000, Product Drawings and Associated Lists.

7.4 This DID supersedes DI-E-5550.

Block 10, Preparation Instructions (Continued)

- a. Type of power (AC or DC)
- b. Frequency characteristics
- c. Voltage levels
- d. Power ratings (amperes, watts, volt-ampere)
- e. Wave forms
- f. Grounding

10.2.1.3 Hydraulic and pneumatic. The elements with related allowable fluctuations shall include:

- a. Flow rates
- b. Fluid temperatures
- c. Pressure requirements
- d. Power requirements/source

10.2.1.4 Optical/electro-optical requirements.

10.2.1.5 Human factors/engineering.

10.2.2 Physical interface parameters. These shall relate to the physical mating of systems, segments, and assemblies at a common boundary. Applicable interface control drawings (ICD) and installation drawings shall be referenced or reproduced as appropriate. Physical interface parameters elements shall include:

- a. Dimensions and tolerances of mating surface (flanges, boltholes, mounting plates, etc., with applicable sizes, shapes, and spacing)
- b. Weight, balance, and center of gravity
- c. Materials specifications (including dissimilar material requirements)
- d. Cabling requirements (connectors, routing, etc.)
- e. Applied loads
- f. Accessibility (installation and removal clearances)
- g. Sealing requirements, leakage prevention and detection

10.2.3 Environmental and safety parameters. These elements shall include:

- a. Electromagnetic interfaces, compatibility requirements
- b. Vibration envelopes
- c. Shock limits
- d. Acceleration limits
- e. Temperature limits
- f. Noise factors

Block 10, Preparation Instructions (Continued)

- g. Air conditioning requirements
- h. Contamination control
- i. Hazardous materials considerations

10.3 Format. The interface specification shall be prepared on 8 1/2 x 11" paper (metric size A4). It may be prepared as a multi-part, book form document as appropriate to the complexity of the interface(s) to be defined. It shall contain the following (see figure 1 for an outline of the specification structure and paragraphing):

10.3.1 Front cover/title page. The cover and title page shall contain the following:

10.3.1.1 Specification number. The expression "SPECIFICATION NUMBER:" (all capital letters) followed by the assigned specification number shall appear in the upper right corner.

10.3.1.2 Date. The expression "DATE:" (all capital letters) followed by the issue date of the specification (day, month, year) shall appear directly under the specification number in the upper right corner.

10.3.1.3 Title. The title shall be a multi-line entry centered in the middle of the cover or title page as follows:

a. The first two lines shall read (all capital letters):
INTERFACE CONTROL SPECIFICATION

FOR

b. The third and subsequent lines shall include:

- (1) The nomenclature of only the primary system, segment or configuration item (including name and type designation and configuration item number) when more than one interfacing item is involved, or
- (2) The nomenclature of each interfacing system, segment, or configuration item (including name and type designation and configuration item number) where only two items are interfacing.

10.3.1.4 Approval certification. Approval certifications shall be entered on the title page only (not cover sheets) under the title. Provisions for office title, person's name, signature and approval date shall be included as identified by the government.

10.3.2 Section 1.0, Scope. The scope shall include:

10.3.2.1 System/segment interface identification. This section shall briefly describe the overall system, segment, or equipment to be addressed by the interface specification. It shall include a matrix diagram identifying each interfacing item, and show the origin and destination of each interface.

10.3.2.2 Documentation organization. This section shall describe the manner in which the specification is structured, and provides guidance on its use.

Block 10, Preparation Instructions (Continued)

10.3.2.3 Limitations and restrictions. This section shall describe any limitations or restrictions to the use of the specification.

10.3.2.4 Definitions. This section shall specify definitions of major terms and acronyms used in the specification.

10.3.3 Section 2.0, Applicable documents. All documents having a bearing on the system and segment interfaces shall be identified in sub-sections by title, number, and applicable data. This shall include:

- a. Military and Federal specifications, standards, and handbooks.
- b. Interface control documentation. This includes all related or referenced interface control drawings and interface control specifications.
- c. Other documentation. This includes any applicable industry or other documentation.

10.3.4 Section 3.0, Interface requirements. This section provides the detailed description of the interface requirements. Each interface shall be separately covered in its own subsection (see figure 1), and include:

- a. Interface identification and description.
- b. Functional interface specification details by parameter.
- c. Physical interface specification details by parameter.
- d. Environmental parameter details by parameter.

10.3.5 Section 4.0, Quality assurance. This section shall identify and define the inspection and test requirements necessary to verify the designed end product complies with the interface requirements of section 3.0.

10.3.6 Section 5.0, Notes. This section shall include non-binding administrative information such as supersession data or other clarifying information. Each independent subject area shall be in a separate sub-section.

1.0 SCOPE

- 1.1 System/segment interface identification
- 1.2 Document organization
- 1.3 Limitations and restrictions
- 1.4 Definitions

2.0 APPLICABLE DOCUMENTS

- 2.1 Military and Federal specifications, standards, and handbooks
- 2.2 Interface documentation
- 2.3 Other documentation

3.0 INTERFACE REQUIREMENTS

- 3.1 System/segment 1 interface specification
 - 3.1.1 Interface 1
 - 3.1.1.1 Interface identification
 - 3.1.1.2 Interface description
 - 3.1.1.3 Functional interface specification
 - 3.1.1.3.1 Interface parameter 1
 - 3.1.1.3.N Interface parameter N
 - 3.1.1.4 Physical interface specification
 - 3.1.1.4.1 Interface parameter 1
 - 3.1.1.4.N Interface parameter N
 - 3.1.1.5 Environmental interface specification
 - 3.1.1.5.1 Interface parameter 1
 - 3.1.1.5.N Interface parameter N
 - 3.1.2 Interface 2
 - o
 - o
 - o
 - 3.1.M Interface M
 - o
 - o
 - o
- 3.2 System/segment 2 interface specification
 - o
 - o
 - o

4.0 QUALITY ASSURANCE

5.0 NOTES

FIGURE 1. Interface specification organization and structure

CONTRACTOR DATA REQUIREMENT LIST

(1 Data Item)

Form Approved

OMB No. 0704-0188

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 Department of Defence, 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. | B. EXHIBIT A | C. CATEGORY: TDP _____ TM _____ OTHER _____ MISC _____ |
|---------------------------|-----------------|-----------------------------------------------------------|

| | | |
|--------------------------------------|--------------------|-----------------------------------|
| D. SYSTEM/ITEM NPOESS CONCEPT VAL | E. CONTRACT/PR NO. | F. CONTRACTOR TO BE DETERMINED |
|--------------------------------------|--------------------|-----------------------------------|

| | | |
|--------------------------|-----------------------------------------------------------------------|-------------|
| 1. DATA ITEM NO. A011 | 2. TITLE OF DATA ITEM CONFIGURATION ITEM DEVELOPMENT SPECIFICATION | 3. SUBTITLE |
|--------------------------|-----------------------------------------------------------------------|-------------|

| | | |
|-------------------------------------------------------------|-----------------------|----------------------------|
| 4. AUTHORITY (Data Acquisition Document No.) DI-E-3102/T | 5. CONTRACT REFERENCE | 6. REQUIRING OFFICE ADA |
|-------------------------------------------------------------|-----------------------|----------------------------|

| | | | | | | |
|---------------------|------------------------------------|------------------------------------------------|----------------------------------------|------------------|-------|-------|
| 7. DD 250 REQ LT | 9. DIST STATEMENT REQUIRED F | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION BLK 16 | 14. DISTRIBUTION | | |
| 8. APP CODE | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION BLK 16 | a. ADDRESSEE | b. COPIES | | |
| | | | | Draft | Final | |
| | | | | | Reg | Repro |

| | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---|-----|-----|-----|
| 18. REMARKS 4 (cont) Para 7.0: Change to read: "The development specification(s) establishes the performance requirements which the configuration item(s) must satisfy upon completion of the development phase. A development specification is required for each configuration item allocated from the system specification which established the functional baseline or form a higher level configuration item or for a non-system CI." Para 9.0: Delete references listed. Para 10.1: Change to read: "The contractor shall prepare a development specification for each configuration item." Para 10.2: Change to read: "Contractor format is acceptable. Specifications shall contain six numbered sections and appendices as required, titled and numbered as shown below: 1.0 Scope 2.0 Applicable Documents 3.0 System Requirements 4.0 Quality Assurance Provisions 5.0 Preparation for Delivery 6.0 Notes 12,13 (cont) Submit the draft 30 CD prior to the Preliminary Design Review. Any changes as a result of the tailored Preliminary Design Review, shall be reflected in an updated draft submitted 14 CD prior to the EOC. *Distribution shall be one file transferred via the NPOESS Electronic Bulletin Board (EBB). Letter of transmittal (LT) to NPOESS (DMO) on each submittal. | NPOESS (DMO) | 0 | 1 | 0 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | 15. TOTAL -----> | | 000 | 001 | 000 |

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

| | | | |
|----------------|---------|----------------|---------|
| G. PREPARED BY | H. DATE | I. APPROVED BY | J. DATE |
|----------------|---------|----------------|---------|

| DATA ITEM DESCRIPTION | 2. IDENTIFICATION NO(S) | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------|
| | AGENCY | NUMBER |
| 1. TITLE Configuration Item Development Specification | USAF | DI-E-3102A |
| 3. DESCRIPTION/PURPOSE The functional configuration identification and allocated configuration identification documentation (specifications) establish the performance, design, development, and test requirements for all configuration items (CIs) to be developed under the terms of the contract. | 4. APPROVAL DATE 17 April 1972 | |
| | 5. OFFICE OF PRIMARY RESPONSIBILITY AFSC | |
| | 6. DDC REQUIRED | |
| | 8. APPROVAL LIMITATION | |
| 7. APPLICATION/INTERRELATIONSHIP The development specification(s) after acceptance by the procuring activity establishes the performance requirements which the configuration item(s) must satisfy upon completion of the development phase. A development specification is required for each configuration item allocated from the system specification which established the functional baseline or from a higher level configuration item or for a non-system CI. The development specification will normally be prepared as Part I of a two part specification unless otherwise specified in the contract except for facility or ship development specifications (MIL-STD-490, Appendix V). For Computer Program Configuration Items (CPCIs) use DI-E-3119. If other than Form 1a specifications (MIL-STD-490) are required, the specific form from | 9. REFERENCES (Mandatory as cited in block 10) MIL-STD-490 MIL-S-83490 MIL-STD-483 | |
| | MCBL NUMBER(S) | |
| 10. PREPARATION INSTRUCTIONS 1. The contractor shall prepare a development specification for each configuration item in accordance with the requirements of MIL-STD-490, Appendices II, III, IV, and V, as applicable and as stated in the contract or work statement. When other than Form 1a specifications are called out in Block 16 of the Contract Data Requirements List (CDRL), Appendixes of MIL-STD-490 will be used as a guide in the preparation of specifications. The specification cover page shall be in accordance with MIL-STD-483, Figure 1. 2. When the prime item is for training equipment, the prime item development specification instructions in Appendix II, MIL-STD-490 shall be implemented by the following instructions: APPENDIX II 20. TYPE B1, PRIME ITEM DEVELOPMENT SPECIFICATION 20.1 Section 1, "Scope." No change Example: 1. SCOPE 1.1 This section shall also briefly describe the intended use of the trainer by whom and where it is intended to be used; e.g., contractor's plant, ATC Base, etc. | | |

DI-E-3102A (Continued)
Application/Interrelationship (Continued)

MIL-S-83490 will be called out in Block 16 of the CDRL. For prime items that are training equipments, the additional requirements contained below in Block 10, Preparation Instructions, shall be included in the specification.

Preparation Instructions (Continued)

20.2 Section 2, "Applicable Documents." Add "This section shall include a list of documents of operational equipment that will be used to define trainer design/layout. A list of the documents used as source data shall be included, e.g., QQPRI, and Personnel/Equipment Data (PED) which are applicable to paragraphs within the body of this part of the specification."

20.3 Section 3, "Requirements." No change.

20.3.1 Paragraph 3.1, "Item definition." No change.

20.3.1.1 Paragraph 3.1.1, "Item diagrams." No change.

20.3.1.2 Paragraph 3.1.2, "Interface definition." This paragraph shall describe the trainer-facility interface requirements. This is in addition to applicable requirements of paragraph 3.2.2.

20.3.1.3 Paragraph 3.1.3, "Major component list." Add "This paragraph shall list the major items of equipment required to operate with a trainer in an instructional situation by the following categories:

"Contractor-furnished system operational equipment."

"Government-furnished equipment (by expected source)."

20.3.1.4 Paragraph 3.1.4, "Government-furnished property list" No change.

20.3.1.5 Paragraph 3.1.5, "Government loaned property list." No change.

20.3.2 Paragraph 3.2, "Characteristics."

20.3.2.1 Paragraph 3.2.1, "Performance." Add "This paragraph shall include:

"a. A summary of the training tasks to completely qualify Air Force personnel to operate and maintain the system equipment represented by the trainer, including identification and location(s) of operational equipment upon which these tasks will be performed in the operational situation. This summary should reflect both organizational and field levels of operation and maintenance.

"b. A list of the training tasks identified in the preceding paragraph which the trainer will support, accompanied by a statement of the method by which the trainer will support the tasks listed (i.e., method by which malfunction can be inserted into the trainer system to practice isolation of malfunctions and/or emergency operating procedures).

"c. A statement of limitations inherent in the trainer design which may preclude adequate support of the total operations procedures and/or field maintenance procedures (e.g., bench repair of malfunctioned electronic chassis).

"d. Other Trainers - reference to other trainers/training equipment or operational equipment to be used jointly with or to supplement the trainer to cover the training tasks and limitations described in paragraphs 3.1.1.1.a and b, above.

"e. Simultaneous Training - identification of the tasks covered by this trainer requiring simultaneous student participation at different work stations. Training **tasks** numbers from paragraph 3.1.1.1.b, above, should be used.

"f. Class Size - The maximum number of students that may be efficiently trained simultaneously with this trainer in (1) demonstration with observers and (2) student participation.

"g. Fault Insertion - The types of faults to be inserted, the methods of generating such faults, where they will be inserted in the system, source of information identifying the faults to be inserted, and a description of the provisions in trainer design for including additional faults not identifiable during trainer design.

"h. Special Features - A description of the special features of the trainer which make it more flexible as a training device than the operational hardware which it reflects; i.e., the capability of controlling functions that are automatically sequenced in the operational equipment; simulation of system equipment to provide a capability of continuously operating/recycling in a training situation.

"In addition, a list shall be included of training tasks supported by the trainer which may differ from the operational and maintenance tasks required to support the equivalent system equipment."

20.3.2.2 Paragraph 3.2.2, "Physical Characteristics." No change.

DI-E-3102A (Continued)
Preparation Instructions (Continued)

20.3.2.3 Paragraph 3.2.3, "Reliability." This paragraph shall reflect a requirement for a specified period of continuous operation and use in terms of "turned on" time in hours and number of training cycles. This requirement must be derived jointly (SPO/contractor/ATC/using command) as a function of the scheduled course and class load, in-house maintenance capability of the user, and anticipated useful life of the trainer. This requirement shall be stated as MTBF with reasonable tolerance and at a specified confidence level.

20.3.2.4 Paragraph 3.2.4, "Maintainability." No change.

20.3.2.5 Paragraph 3.2.5, "Environmental conditions." No change.

20.3.2.6 Paragraph 3.2.6, "Transportability." Add "State whether this trainer is to be permanently installed at a specific location, road mobile, railroad mobile, or airmobile."

20.3.3 Paragraph 3.3, "Design and construction." No change.

20.3.3.1 Paragraph 3.3.1, "Materials, processes, and parts." No change.

20.3.3.1.1 Paragraph 3.3.1.1, "Related Functional Simulation." This paragraph shall describe how simulation of operational equipments or functions not physically represented in the trainer will be accomplished. The degree of simulation or visual presentations, control positions, and physical configuration of the operational equipment being reflected in trainer shall be specified.

20.3.3.1.2 Paragraph 3.3.1.2, "Modification." This paragraph shall describe the design features of the trainer which will allow for modification of trainer systems or subsystems to later system model series. Careful consideration shall be given to possible future changes in the operational equipment, and sufficient design flexibility shall be incorporated in the trainer to permit rapid and inexpensive modifications when such changes occur. Possible future attachments to the trainer shall be considered which will increase its training value in terms of an expanded operational mission. When applicable, the design shall provide for rapid and inexpensive connection of the device to related equipment so as to accomplish more advanced training, or to provide integrated crew training as well as individual training.

20.3.3.2 Paragraph 3.3.2, "Electromagnetic radiation." Add "Particular attention shall be accorded the problems which may arise from the use of transmitting frequencies for the training situation different from those used in the operational situation. Additionally, the specific requirements regarding physical location of the trainer on a base shall be stated so as to preclude unnecessary interference with normal communications of the local populace.

DI-E-3102A (Continued)
Preparation Instructions (Continued)

- 20.3.3.3 Paragraph 3.3.3, "Nameplates and product marking." No change.
- 20.3.3.4 Paragraph 3.3.4, "Workmanship." No change.
- 20.3.3.5 Paragraph 3.3.5, "Interchangeability." No change.
- 20.3.3.6 Paragraph 3.3.6, "Safety." No change.
- 20.3.3.7 Paragraph 3.3.7, "Human performance/human engineering."
No change.
- 20.3.4 Paragraph 3.4, "Documentation." No change.
- 20.3.5 Paragraph 3.5, "Logistics."
- 20.3.5.1 Paragraph 3.5.1, "Maintenance." No change.
- 20.3.5.2 Paragraph 3.5.2, "Supply." No change.
- 20.3.5.3 Paragraph 3.5.3, "Facilities and facility equipment."
No change.
- 20.3.6 Paragraph 3.6, "Personnel and training." Not required.
- 20.3.6.1 Paragraph 3.6.1, "personnel." Not required.
- 20.3.6.2 Paragraph 3.6.2, "Training." Not required.
- 20.3.7 Paragraph 3.7, "Major component characteristics." No change.
- 20.3.8 Paragraph 3.8, "Precedence." No change.
- 20.4 Section 4, "Quality Assurance provisions."

a. Add "Reliability testing on system equipment used as training equipment is not normally required. However, an analysis based on existing reliability data for system parts and other components is necessary. This analysis shall be sufficient to substantiate the requirements of paragraph 3.2.2.

- b. No change.
- c. No change.
- d. No change.
- e. No change.

DI-E-3102A (Continued)
Preparation Instructions (Continued)

- 20.4.1 Paragraph 4.1, "General." No change.
- 20.4.1.1 Paragraph 4.1.1, "Responsibility for tests." No change.
- 20.4.1.2 Paragraph 4.1.2, "Special tests and examinations." No change.

20.4.2 Paragraph 4.2, "Quality conformance inspections." Add "An acceptance inspection covering the functional characteristics and suitability shall be outlined defining the tests to be used in determining the adequacy of the trainer to accomplish the general and specific objectives of Section 3. This outline shall be stated in 'requirement for test' language and shall describe the criteria methods, materials, and personnel that will be applied or required in the acceptance inspection. Further, procedural checklists developed for use with the trainer shall be compatible with and representative of the checklist and procedures developed for the system which this trainer represents. The objectives of this acceptance inspection are to determine:

"a. The functional adequacy and performance capability of the equipment in relation to its planned use in the training mission.

"b. Design adequacy in terms of layout, recording devices, tolerances, limits of operation, proficiency measures, and related characteristics.

"c. The adequacy of installation, calibration, and maintenance procedures, including training equipment parts consumption.

"d. The suitability of the equipment as reflected in the responses of representative students, instructors, and operators."

- 20.5 Section, "Preparation for delivery." No change.
- 20.6 Section, "NOTES." No change.
- 20.7 Section 10, "Appendix I." No change.

CONTRACTOR DATA REQUIREMENT LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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 Department of Defence, 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. | B. EXHIBIT A | C. CATEGORY: TDP _____ TM _____ OTHER <u>MISC</u> |
|---------------------------|-----------------|------------------------------------------------------|

| | | |
|--------------------------------------|--------------------|-----------------------------------|
| D. SYSTEM/ITEM NPOESS CONCEPT VAL | E. CONTRACT/PR NO. | F. CONTRACTOR TO BE DETERMINED |
|--------------------------------------|--------------------|-----------------------------------|

| | | |
|--------------------------|-------------------------------------------------------|-------------|
| 1. DATA ITEM NO. A012 | 2. TITLE OF DATA ITEM CONTRACT FUNDS STATUS REPORT | 3. SUBTITLE |
|--------------------------|-------------------------------------------------------|-------------|

| | | |
|----------------------------------------------------------------|-----------------------|----------------------------|
| 4. AUTHORITY (Data Acquisition Document No.) D-HGMT-81468 T | 5. CONTRACT REFERENCE | 6. REQUIRING OFFICE ADA |
|----------------------------------------------------------------|-----------------------|----------------------------|

| | | | | | | |
|----------------------|------------------------------------|------------------------------------------------|----------------------------------------|------------------|-----------|-------|
| 7. DD 230 REQ --- | 8. DIST STATEMENT REQUIRED C | 10. FREQUENCY QRTLY | 12. DATE OF FIRST SUBMISSION BLK 16 | 14. DISTRIBUTION | | |
| 9. IFF CODE | 11. AS OF DATE BLK 16 | 13. DATE OF SUBSEQUENT SUBMISSION BLK 16 | a. ADDRESSEE | | b. COPIES | |
| | | | | | Draft | Final |
| | | | | | Reg | Repro |

| | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---|-----|-----|
| 15. REMARKS 4 (cont) B-10 of DID A reconciliation between the CFSR and CPR shall be submitted as an attachment to the CFSR. 11 (cont) Last day of the contractor's monthly accounting period. 12 (cont) Date of 1st submission shall be no later than 20 calendar days following the close of the first Government fiscal quarter following contract award. 13 (cont) Not later than the 20th calendar day after the end of each Government fiscal quarter. Each submission should... a. Contain a separate page for each appropriation and each fiscal year (FY) of funds obligated on contract, by CLIN. b. Contain a total page for all CLINs, appropriations and FYs. c. CFSR data shall be reconciled to the Government's FY end of 30 September, if the contractor's FY end does not coincide with the Government's. d. Report shall contain forecast by month for the next six months, by quarter for the remaining FY, and by year for the remaining FYs. e. The CFSR shall be submitted electronically, using the ANSI ASC-X.12, Data Set 839. | NPOESS (DMO) | 0 | 1 | 0 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | 15. TOTAL -----> | | 000 | 001 |

| | | | |
|----------------|---------|----------------|---------|
| G. PREPARED BY | H. DATE | I. APPROVED BY | J. DATE |
|----------------|---------|----------------|---------|

17. PRICE GRG

18. ESTIMATED TOTAL PRICE

CONTRACTOR DATA REQUIREMENT LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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 Department of Defence, 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. | B. EXHIBIT A | C. CATEGORY: TDP _____ TM _____ OTHER MISC _____ |
|---------------------------|-----------------|-----------------------------------------------------|

| | | |
|--------------------------------------|--------------------|-----------------------------------|
| D. SYSTEM/ITEM NPOESS CONCEPT VAL | E. CONTRACT/PR NO. | F. CONTRACTOR TO BE DETERMINED |
|--------------------------------------|--------------------|-----------------------------------|

| | | |
|--------------------------|-------------------------------------------------------|-------------|
| 1. DATA ITEM NO. A012 | 2. TITLE OF DATA ITEM CONTRACT FUNDS STATUS REPORT | 3. SUBTITLE |
|--------------------------|-------------------------------------------------------|-------------|

| | | |
|-----------------------------------------------------------------|-----------------------|---------------------|
| 4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81468/T | 5. CONTRACT REFERENCE | 6. REQUIRING OFFICE |
|-----------------------------------------------------------------|-----------------------|---------------------|

| | | | | | | |
|---------------|---------------------------------|----------------|-----------------------------------|------------------|-----------|-------|
| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED C | 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 |
| | | | | | | Reg |
| | | | | | | Repro |

| | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------|-----|-----|-----|--|--|
| 16. REMARKS *Distribution shall be one file transferred via the NPOESS Electronic Bulletin Board (EBB). Letter of transmittal (LT) to NPOESS (DMO) on each submittal. | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | 15. TOTAL -----> | 000 | 001 | 000 | | |

| | | | |
|----------------|---------|----------------|---------|
| G. PREPARED BY | H. DATE | I. APPROVED BY | J. DATE |
|----------------|---------|----------------|---------|

| |
|---------------------------|
| 17. PRICE GROUP |
| 18. ESTIMATED TOTAL PRICE |

DATA ITEM DESCRIPTION

Form Approved
OMB NO. 0704-0188

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 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.

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------|--------------------------|
| 1. TITLE CONTRACT FUNDS STATUS REPORT (CFSR) | | 2. IDENTIFICATION NUMBER DI-MGMT-81468 | |
| 3. DESCRIPTION/PURPOSE 3.1 The Contract Funds Status Report (CFSR), DD Form 1586, Sample Format 1, is designed to supply funding data about defense contracts to Program Managers for: (a) updating and forecasting contract funds requirements, (b) planning and decision making on funding changes to contracts, (c) developing funds requirements and budget estimates in support of approved programs, (d) determining funds in excess of contract needs and available for deobligation, and (e) obtaining rough estimates of termination costs. | | | |
| 4. APPROVAL DATE (YYMMDD) 951019 | 5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) OUSD (A&T) API/PM | 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 requirements as delineated in the contract. 7.2 This DID may be used in conjunction with the Contract Work Breakdown Structure DID, DI-MGMT-81334, the Cost Performance Report DID, DI-MGMT-81466, and the Cost/Schedule Status Report DID, DI-MGMT-81467. 7.3 <u>Contractual Application</u> . The CFSR is applicable to contracts over 6 months in duration. No specific application thresholds are established, but application to contracts of less than \$1,000,000 (constant fiscal year (FY) 1990 dollars) should be evaluated carefully to ensure only the minimum information necessary for effective management control is required. The CFSR will not be applied to firm fixed price contracts (as defined in FAR 16.202) unless unusual circumstances require specific funding visibility. CFSRs may be applied to unpriced portions of firm fixed price contracts that are estimated to be in excess of twenty (20) percent of the initial contract value. Only those parts of the CFSR essential to the management of each acquisition will be required. The DoD Program Manager will determine the need for contract funds information and apply only those portions of the CFSR deemed appropriate. To ensure that only minimum data is required over the life of the contract, provisions should be included in the contract to review reporting requirements at least annually and change them, if necessary, at no charge to the Government. (Continued on page 2) | | | |
| 8. APPROVAL LIMITATION | | 9a. APPLICABLE FORMS DD Form 1586 | 9b. AMSC NUMBER D7122 |
| 10. PREPARATION INSTRUCTIONS 10.1 <u>Format</u> . Contractor formats should be substituted whenever they contain all the required data elements at the specified reporting levels in a form suitable for DCD management. 10.2 <u>Content</u> . The CFSR shall contain the following information: 10.2.1 <u>Item 1 - Contract Number</u> . Enter the assigned contract number and the latest modification number on which contractual agreement has been reached. 10.2.2 <u>Item 2 - Contract Type</u> . Enter the type of contract as identified in FAR Part 16 (e.g., Cost Plus Fixed Fee (CPFF), Fixed Price Incentive (FPI), etc.). 10.2.3 <u>Item 3 - Contract Funding For</u> . Enter the applicable type as follows: Multi-Year Procurement (MYP) Incrementally Funded Contract (INC) Contract for a Single Year (SYC) 10.2.3.1 <u>For FY</u> . For contracts which are financed with funds appropriated in more than one fiscal year, a report is required for each fiscal year's funds where the separate year's funds in the contract are associated with specific quantities of hardware or services to be furnished. The fiscal year(s) being reported will be shown in this block and that year's share of the total target prices (initial and adjusted) will be shown in Items 9 and 10. (Continued on page 3) | | | |
| 11. DISTRIBUTION STATEMENT Distribution Statement A: Approved for public release; distribution is unlimited. | | | |

Block 7, Application/Interrelationship (Continued)

7.3.1 Level of Reporting. If a contract is funded with a single appropriation, a single line entry at the total contract level should be considered for CFSR reporting. Reporting by line item or WBS element will be limited to only those items or elements needed to support funds management requirements. A reduced level of reporting may be implemented on contracts (a) with a dollar value between \$250,000 and \$1,000,000 (constant FY 1990 dollars); (b) that are for time and material; or (c) for which only limited funding requirements information is needed.

7.3.2 Multiple Appropriations. Where two or more appropriation sources are used for funding a single contract, contractors will segregate funds data by appropriation accounting reference. The procuring agency will supply the appropriation numbers applicable to individual line items or WBS elements. If a single line item or WBS element is funded by more than one appropriation, methods for segregating and reporting such information will be negotiated and specified in the contract.

7.3.3 Electronic Data Interchange. Submission of the CFSR by Electronic Data Interchange (EDI) is required by DOD acquisition policy. The American National Standards Institute (ANSI) X12 standard (transaction set 839), or the United Nations Electronic Data Interchange For Commerce, Administration and Transport (EDIFACT) equivalent, will be used for EDI transmission.

7.4 Frequency and Submission. The CFSR will be a contractual requirement as set forth in the Contract Data Requirements List (CDRL) DD Form 1423. Unless otherwise provided in the contract, the CFSR will be prepared as of the end of each calendar quarter or contractor accounting period nearest the end of each quarter. The required number of copies of the CFSR will be forwarded within 25 calendar days after the "as of" date of the report, or as otherwise specified in the contract. In the event of exceptional circumstances which call for increased frequency in reporting, such frequency will not be more often than monthly and will be negotiated and specified in the contract.

7.5 Explanations of Terms.

7.5.1 Open Commitments. For this report, a commitment represents the estimated obligation of the contractor (excluding accrued expenditures) to vendors or subcontractors (based on the assumption that the contract will continue to completion).

7.5.2 Accrued Expenditures. For this report, include recorded or incurred costs as defined within the Allowable Cost, Fee and Payments Clause (FAR 52.216-7) for cost type contracts or the Progress Payments Clause (FAR 52.232-16) for fixed price type contracts, plus the estimated fee or profit earned. Such costs include:

7.5.2.1 Actual payments for services or items purchased directly for the contract.

7.5.2.2 Costs incurred, but not necessarily paid, for storeroom issues, direct labor, direct travel, direct other in-house costs and allocated indirect costs.

7.5.2.3 Progress payments made to subcontractors.

7.5.2.4 Pension costs provided they are paid at least quarterly.

7.5.3 Termination Costs. Although this report is prepared on the basis that the contract will continue to completion, it is necessary to report estimated termination cost by government fiscal year and generally by more frequent intervals on incrementally funded contracts. The frequency will be dependent on the funding need dates (i.e., quarterly) and should be compatible with the

contract funding clauses, Limitation of Funds clause (cost type contracts) or Limitation of Obligation clause (fixed price type contracts). Termination costs include such items as loss of useful life of special tooling, special machinery and equipment; rental cost of unexpired leases; and settlement expenses. The definition of termination costs is included in FAR 31.205-42. In the event the Special Termination Costs clause (DFARS 252.249-7000) is authorized, then costs defined therein will be eliminated from the estimated termination costs.

7.6 The CFSR DID may be "tailored" in Block 16 of CDRL DD Form 1423. Tailoring is defined as deleting requirements from a DID. Requiring more information in the CFSR CDRL DD Form 1423 than specified in this DID is prohibited by DOD regulation. All negotiated reporting provisions will be specified in the contract's CDRL.

7.7 This DID supersedes DI-F-6004B.

Block 10, Preparation Instructions (Continued)

10.2.4 Item 4 - Appropriation. Enter the appropriation name (i.e., Research, Development, Test and Evaluation, Aircraft Procurement, etc.) and DoD Component (i.e., Air Force, Navy, etc.) in this block.

10.2.5 Item 5 - Previous Report Date. Enter the cut-off date of the previous report. (Year, Month, Day)

10.2.6 Item 6 - Current Report Date. Enter the cut-off date applicable to this report. (Year, Month, Day)

10.2.7 Item 7 - Contractor. Enter the name, division (if applicable), and mailing address of the reporting contractor.

10.2.8 Item 8 - Program. Identify the program by name or enter the type, model and series or other military designation of the prime item or items purchased on the contract. If the contract is for services or a level-of-effort (i.e., research, flight test, etc.), the title of the service should be shown.

10.2.9 Item 9 - Initial Contract Price. Enter the dollar amounts for the initial negotiated contract target price (or estimated price for non-incentivized contracts) and contract ceiling price when appropriate. For contracts which are financed with funds appropriated in more than one fiscal year, only the share of the total initial target and ceiling associated with the fiscal year shown in Item 3 will be entered.

10.2.10 Item 10 - Adjusted Contract Price. Enter the dollar amounts for the adjusted contract target price (initial negotiated contract plus supplemental agreements) and adjusted contract ceiling price or estimated ceiling price where appropriate. For contracts which are financed with funds appropriated in more than one fiscal year, only the share of the total adjusted target and ceiling associated with the fiscal year shown in Item 3 will be entered.

10.2.11 Item 11 - Funding Information.

10.2.11.1 Column a. - Line Item/Work Breakdown Structure (WBS) Element. Enter the line item or WBS elements specified for CFSR coverage in the contract.

10.2.11.2 Column b. - Appropriation Identification. Enter the appropriation number supplied by the DoD Component for the contract or, if applicable, each line item or WBS element.

10.2.11.3 Column c. - Funding Authorized To Date. Enter dollar amounts of contract funding authorized under the contract from the beginning of the fiscal year(s) shown in Item 3 through the report date shown in Item 6.

10.2.11.4 Column d. - Accrued Expenditures Plus Open Commitments Total. For contract work authorized, enter the total of (a) the cumulative accrued expenditures incurred through the end of the reporting period, and (b) the open commitments on the "as of" date of the report. Enter the total applicable to funds for the fiscal year(s) covered by this report as shown in Item 3.

10.2.11.4.1 Separation of Open Commitments and Accrued Expenditures. On selected contracts, the separation of open commitments and accrued expenditures by line item or WBS element may be a negotiated requirement in the contract. Utilization of this provision should be held to the minimum essential to support information needs of the procuring agency. In the event this separation of data is not available in the contractor's accounting system or cannot be derived without significant effort, provision should be made to permit use of estimates. The procedures used by the contractor in developing estimates shall be explained in the Remarks section of the report.

10.2.11.4.2 Notice of Termination. When a Notice of Termination has been issued, potential termination liability costs will be entered in this column. They will be identified to the extent possible with the source of liability (prime or subcontract).

10.2.11.5 Column e. - Contract Work Authorized - Definitized. For the fiscal year(s) shown in Item 3, enter the estimated price for the authorized work on which contractual agreement has been reached, including profit/fee, incentive and cost sharing associated with projected over/underruns. Amounts for contract changes will not be included in this item unless they have been priced and incorporated in the contract through a supplemental agreement.

10.2.11.6 Column f. - Contract Work Authorized - Not Definitized. Enter the contractor's estimate of the funds requirements for performing required work (e.g., additional agreements or changes) for which firm contract prices have not yet been agreed to in writing by the parties to the contract. Report values only for items for which written orders have been received. For incentive type contracts, show total cost to the Government (recognizing contractor participation). Enter in the Remarks section a brief but complete explanation of the reason for the change in funds.

10.2.11.7 Column g. - Subtotal. Enter the total estimated price for all work authorized on the contract (Column e. plus Column f.).

10.2.11.8 Column h. - Forecast - Not Yet Authorized. Enter an estimate of funds requirements, including the estimated amount for fee or profit, for changes proposed by the Government or by the contractor, but not yet directed by the contracting officer. In the Remarks section state each change document number and estimated value of each change.

10.2.11.9 Column i. - Forecast - All Other Work. Enter an estimate of funds requirements for additional work anticipated to be performed (not included in a firm proposal) which the contractor, based on his knowledge and experience, expects to submit to the Government within a reasonable period of time.

10.2.11.10 Column j. - Subtotal. Enter an estimate of total requirements for forecast funding (the sum of Column h. plus Column i.). Specific guidelines on what the contractor may include in the funding forecast section may be made a part of the contract.

10.2.11.11 Column k. - Total Requirements. Enter an estimate of total funds requirements for contract work authorized and forecast (the sum of Column g. plus Column j.).

10.2.11.12 Column l. - Funds Carryover. For incrementally funded contracts only, report the amount by which the prior federal fiscal year funding was in excess of the prior year's requirement. If there is no carryover, report zero. Specific instructions for the use of this item may be made a part of the contract.

10.2.11.13 Column m. - Net Funds Required. Enter an estimate of net funds required, subtracting funds carryover in Column l. from total requirements in Column k.

10.2.11.14 Column Totals. Totals should be provided for Columns c. through m. for all line items or WBS elements reported.

10.2.12 Item 12 - Contract Work Authorized (With Fee/Profit) - Actual Or Projected. Data entries will be as follows: In the first column, actuals cumulative to date; in all other columns except the last, projected cumulative amounts from the start of the contract to the end of the period indicated in the column heading; in the last column, the projected cumulative amounts from the start to the end of the contract or fiscal year being reported. When the contractor has developed a range of estimates at completion, the most likely estimate shall be used to develop the projected cumulative data in this item.

10.2.12.1 Column Headings. Columns 2 through 9 will be headed to indicate periods covering the life of the contract or fiscal year being reported and may be headed to show months, quarters, half years and/or fiscal years as prescribed by the procuring agency.

10.2.12.2 Data Composition. Projected data should include all planned obligations, anticipated accruals, anticipated over/under targets (total cost to the Government recognizing contractor participation), G&A, and fee/profit. For award fee contracts, the fee actually awarded will be included in Column 1, Actual to Date. The contractor shall describe in the Remarks section the amount, by period, and rationale for any award fee projections included in Columns 2 through 10.

10.2.12.3 Item 12.a. - Open Commitments. In the first column enter commitments open as of the date of the report. In subsequent columns enter the commitments projected to be open as of the end of each period indicated by the column headings. The amount entered will be the projected cumulative commitments less the planned cumulative expenditures as of the end of time period indicated. At the end of the contract, the amount will be zero.

10.2.12.4 Item 12.b. - Accrued Expenditures. In the first column enter actuals to date. In subsequent columns enter the projected cumulative accrued expenditures as of the end of each period indicated by the column headings.

10.2.12.5 Item 12.c. - Total (12.a. and 12.b.). In the columns provided, enter the total contract work authorized - actuals to date (Column 1) or projected (Columns 2 through 10). This total is the sum of open commitments and accrued expenditures projected through the periods indicated by the column headings. Significant changes in the amount or timephasing of this item shall be explained in the Remarks section.

10.2.13 Item 13 - Forecast Of Billings To The Government. In the first column enter the cumulative amount received from the Government plus any unpaid billings to the Government through the current report date, including amounts applicable to progress or advance payments. In succeeding columns enter the amount expected to be billed to the Government during each period reported (assuming the contract will continue to completion). Amounts will not be cumulative.

10.2.14 Item 14 - Estimated Termination Costs. In the columns provided, enter the estimated costs that would be necessary to liquidate all government

obligations if the contract were to be terminated in that period. These entries are the amounts required in addition to the amounts shown in Item 12. Applicable fee/profit should be included. These entries may consist of 'rough order of magnitude' estimates and will not be construed as providing formal notification having contractual significance. This estimate will be used to assist the Government in budgeting for the potential incurrence of such cost. On contracts with Limitation of Funds/Obligation clauses, where termination costs are included as part of the funding information in Block 11, enter the amounts required for termination reserve on this line.

10.3 Remarks Section.

10.3.1 General. This section shall contain any additional information or remarks which support or explain data submitted in this report. At a minimum, the contractor shall present the following information: (a) explanations of funds changes (refer to paragraphs 10.2.11.6, 10.2.11.8 and 10.3.2); (b) procedures used to develop estimates of open commitments and accrued expenditures (refer to paragraph 10.2.11.4.1); (c) the amount and rationale for any award fee projections included in Item 12 (refer to paragraph 10.2.12.2); (d) explanations of significant changes in the amount or timephasing of actual or projected total contract work authorized (refer to paragraph 10.2.12.5); and (e) any other information deemed significant or noteworthy. The contractor also shall provide a projected contract completion date that supports the funding projections in Item 12.

10.3.2 Changes. The Remarks section shall contain information regarding changes, as indicated below. A change in a line item shall be reported when the dollar amount reported in Item 11, Column k. of this submission differs from that reported in the preceding submission. The movement of dollar amounts from one column to another (Item 11, Columns e. through j.), indicating a change in the firmness of funds requirements, need not be reported in this section. Change reporting shall include the following:

10.3.2.1 The location of the changed entry (page, line, and column);

10.3.2.2 The dollar amount of the change; and

10.3.2.3 A narrative explanation of the cause of each change.

CONTRACT FUNDS STATUS REPORT (Dollars in _____)

Form Approved
OMB No. 0704-0188

| | | | | |
|---------------------------|----------------------------------------------------|--------------------------------|---------------------------------------------------|------------------------------------|
| 1. CONTRACT NUMBER | 3. CONTRACT FUNDING FOR FOR FY _____ | 5. PREVIOUS REPORT DATE | 7. CONTRACTOR (Name, address and zip code) | 9. INITIAL CONTRACT PRICE |
| 2. CONTRACT TYPE | 4. APPROPRIATION | 6. CURRENT REPORT DATE | 8. PROGRAM | 10. ADJUSTED CONTRACT PRICE |
| | | | | a. TARGET _____ |
| | | | | b. CEILING _____ |
| | | | | a. TARGET _____ |
| | | | | b. CEILING _____ |

| 11. FUNDING INFORMATION | | | | | | | | | | | | |
|-------------------------------------------|--------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------|----------------------------------------|------------------------------------|------------------------------|----------------------------------------|--------------------------------------|----------------------------------------|
| LINE ITEM/WBS ELEMENT <small>a</small> | APPROPRIATION IDENTIFICATION <small>b</small> | FUNDING AUTHORIZED TO DATE <small>c</small> | ACCRUED EXPENDITURES OPEN COMMITMENTS TOTAL <small>d</small> | CONTRACT WORK AUTHORIZED | | | FORECAST | | | TOTAL REQUIREMENTS <small>k</small> | FUNDS CARRY-OVER <small>l</small> | NET FUNDS REQUIRED <small>m</small> |
| | | | | DEFINITIZED <small>e</small> | NOT DEFINITIZED <small>f</small> | SUBTOTAL <small>g</small> | NOT YET AUTHORIZED <small>h</small> | ALL OTHER WORK <small>i</small> | SUBTOTAL <small>j</small> | | | |
| | | | | | | | | | | | | |

| 12. CONTRACT WORK AUTHORIZED (With Fee / Profit) - ACTUAL OR PROJECTED | | | | | | | | | | |
|------------------------------------------------------------------------|----------------|--|--|--|--|--|--|--|--|---------------|
| | ACTUAL TO DATE | | | | | | | | | AT COMPLETION |
| a. OPEN COMMITMENTS | | | | | | | | | | |
| b. ACCRUED EXPENDITURES | | | | | | | | | | |
| c. TOTAL (12a + 12b) | | | | | | | | | | |
| 13. FORECAST OF BILLINGS TO THE GOVERNMENT | | | | | | | | | | |
| 14. ESTIMATED TERMINATION COSTS | | | | | | | | | | |

15. REMARKS

SAMPLE FORM 1 - CONTRACT FUNDS STATUS REPORT

CONTRACTOR DATA REQUIREMENT LIST

(1 Data Item)

Form Approved

OMB No. 0704-0188

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 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. | B. EXHIBIT A | C. CATEGORY: TDP _____ TM _____ OTHER _____ MISC _____ |
|---------------------------|-----------------|-----------------------------------------------------------|

| | | |
|--------------------------------------|--------------------|-----------------------------------|
| D. SYSTEM/ITEM NPOESS CONCEPT VAL | E. CONTRACT/PR NO. | F. CONTRACTOR TO BE DETERMINED |
|--------------------------------------|--------------------|-----------------------------------|

| | | |
|--------------------------|--------------------------------------------------|-------------|
| 1. DATA ITEM NO. A013 | 2. TITLE OF DATA ITEM COST PERFORMANCE REPORT | 3. SUBTITLE |
|--------------------------|--------------------------------------------------|-------------|

| | | |
|-----------------------------------------------------------------|-----------------------|----------------------------|
| 4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81466/T | 5. CONTRACT REFERENCE | 6. REQUIRING OFFICE ADA |
|-----------------------------------------------------------------|-----------------------|----------------------------|

| | | | | |
|---------------------|------------------------------------|------------------------------------------------|----------------------------------------|------------------|
| 7. DD 250 REQ LT | 9. DIST STATEMENT REQUIRED C | 10. FREQUENCY BLK 16 | 12. DATE OF FIRST SUBMISSION BLK 16 | 14. DISTRIBUTION |
| 8. APP CODE | 11. AS OF DATE BLK 16 | 13. DATE OF SUBSEQUENT SUBMISSION BLK 16 | a. ADDRESSEE | |
| | | | b. COPIES | |
| | | | Draft | Final |
| | | | | Reg |
| | | | | Repro |

| | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----|-----|-----|
| 16. REMARKS | 15. TOTAL -----> | 000 | 001 | 000 |
| 4 (cont) Blk 10 of DID: | | | | |
| a. The CPR shall be submitted electronically, using the ANSI ASC X-12 transfer using the 839 data set. | | | | |
| b. Reporting levels and frequency shall be in accordance with the approved Contractor Cost Data Reporting Plan (CCDRP) in Attachment 1. Report direct costs only at the WBS reporting level. Overhead, G&A and COM will be reported as a single-line entry for the total contract. A reconciliation between the CPR and the CFSR shall be submitted quarterly as an attachment to the CFSR. | | | | |
| c. For Format 5, the contractor shall provide the top 10 reporting level cost drivers and the top 10 reporting level schedule drivers (both ranked in descending order of criticality). Each month the cost, schedule and technical status of these drivers will be discussed. This discussion shall include current status, potential impacts to cost or schedule (positive or negative), anticipated problem solution, and the current projected cost at completion for each element. Every six months, the contractor shall submit an updated listing of these critical drivers. The Government reserves the right to modify, increase or decrease both the initial listing as well as the updates. If the contractor uses "critical path" scheduling techniques, then the identification of the ranked critical path by WBS reporting element shall meet the schedule drivers requirement. In addition, the Government reserves the right to request additional information for those reporting level WBS elements (not included in the top 10 list) that have experienced significant shifts in status from previous months. Cumulative variance analysis is not required; only current month variance analysis is required. | | | | |

| |
|---------------------------|
| 17. PRICE GROUP |
| 18. ESTIMATED TOTAL PRICE |

| | | | |
|----------------|---------|----------------|---------|
| G. PREPARED BY | H. DATE | I. APPROVED BY | J. DATE |
|----------------|---------|----------------|---------|

CONTRACTOR DATA REQUIREMENT LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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 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. | B. EXHIBIT | C. CATEGORY: |
| | A | TDP _____ TM _____ OTHER MISC _____ |

| | | |
|--------------------------------------|--------------------|------------------|
| D. SYSTEM/ITEM NPOESS CONCEPT VAL | E. CONTRACT/PR NO. | F. CONTRACTOR |
| | | TO BE DETERMINED |

| | | |
|--------------------------|--------------------------------------------------|-------------|
| 1. DATA ITEM NO. A013 | 2. TITLE OF DATA ITEM COST PERFORMANCE REPORT | 3. SUBTITLE |
|--------------------------|--------------------------------------------------|-------------|

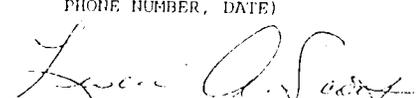
| | | |
|-----------------------------------------------------------------|-----------------------|---------------------|
| 4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81466/T | 5. CONTRACT REFERENCE | 6. REQUIRING OFFICE |
|-----------------------------------------------------------------|-----------------------|---------------------|

| | | | | |
|---------------|----------------------------|----------------|-----------------------------------|------------------|
| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION | 14. DISTRIBUTION |
| 8. APP CODE | C | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION | a. ADDRESSEE |
| | | | | b. COPIES |
| | | | | Draft |
| | | | | Final |
| | | | | Reg |
| | | | | Repro |

| | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------|-----|-----|-----|
| 16. REMARKS | | | | | | | |
| d. Formats 1-4 will be required 5 working days after the close of the monthly accounting period. Variance analysis (Format 5) will be submitted 20 calendar days after the close of the monthly accounting period. | | | | | | | |
| e. Organizational category reporting (if different than the WBS reporting requirements) on Formats 2 & 4 shall be the first level of the contractor's organizational structure. Otherwise, Format 2 may be eliminated. Format 4 shall contain the manpower baseline for the total contract, which shall be updated and submitted whenever the Performance Measurement Baseline (PMB) changes. | | | | | | | |
| f. Formats 3 & 4 shall contain baseline and manpower forecasts by month for the next six months, by quarter for the remaining fiscal year, and by year for the remaining fiscal years. | | | | | | | |
| g. Major subcontractor data shall be current month data incorporated into the contractor's CPR. | | | | | | | |
| 11 (cont) Last day of contractor's monthly accounting period. | | | | | | | |
| 12,13 (cont) | | | | | | | |
| a. Initial draft submission shall be following the second full accounting period after contract award. | | | | | | | |
| b. Subsequent submissions are due 5 working days (Formats 1-4) and 20 calendar days (Format 5) after the close of each monthly accounting period. | | | | | | | |
| *Distribution shall be one file transferred via the NPOESS Electronic Bulletin Board (EBB). | | | | | | | |
| Letter of transmittal (LT) to NPOESS (DMO) on each | | | | | | | |
| | | | | 15. TOTAL -----> | 000 | 001 | 000 |

| |
|---------------------------|
| 17. PRICE GROUP |
| 18. ESTIMATED TOTAL PRICE |

| | | | |
|----------------|---------|----------------|---------|
| G. PREPARED BY | H. DATE | I. APPROVED BY | J. DATE |
|----------------|---------|----------------|---------|

| | | | | | | | | | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------|---|------------------------|---|------|-----|--|--|--|
| CONTRACTOR COST DATA REPORTING PLAN | | | 1. PROGRAM NPOESS | | | 2. (X) CAT I () CAT II | | 3. (X) INITIAL SUBMISSION () CHANGE REQUEST | | 4. (X) PROGRAM WBS () CONTRACT WBS | | | | | | | | |
| 5. DATA AS OF 02 OCT 95 | | 6. REVIEW & REFERENCE NO. | | 7. REPORT DATE 02 OCT 95 | | 8. PREPARED BY (Orig. Name, Office Symbol, Address) MAJ L. SCOTT, SMC/CIP LAANFB CA 90245 | | | 9. DATA STORAGE LOCATION SMC/CIP LAANFB CA 90245 | | | | | | | | | |
| 10. Line No. | 11. WBS Level | 12. REPORTING ELEMENTS | | | 13. PROG CODE | 14. Contr-actor | 15. Contract Type | 16. PROGRAM TOTALS RDI&E COST (\$M) PROCUREMENT COST (\$M) | | 17. REPORT FREQUENCY DD FORM 1921 CDR FORMS 1921-1 DD 1921 DD 1921 | | | | CFSR | CPR | | | |
| | | | | | | | | | | C | P | C | P | 2 | 3 | | | |
| 1 | 1 | NPOESS | | | 1.00 | | | 0 | 0 | | | | | | | | | |
| 2 | 2 | LAUNCH VEHICLE SEGMENT (Reserved) | | | 1.01 | | | | | | | | | | | | | |
| 3 | 2 | SATELLITE SEGMENT | | | 1.02 | | | | | | | | | | | | | |
| 4 | 3 | SATELLITE INTEGRATION, ASSY, TEST & C/O | | | 1.02.1 | | | | | | | | | | | | | |
| 5 | 3 | SPACECRAFT BUS | | | 1.02.2 | | | | | | | | | | | | | |
| 6 | 4 | SPACECRAFT BUS IAT&C/O | | | 1.02.2.1 | | | | | | | | | | | | | |
| 7 | 4 | STRUCTURES & MECH ASSEMBLIES SUBSYSTEM (SMAS) | | | 1.02.2.2 | | | | | | | | | | | | | |
| 8 | 4 | ATTITUDE DETERMINATION & CNTRL SUBSYSTEM (ADCS) | | | 1.02.2.3 | | | | | | | | | | | | | |
| 9 | 4 | THERMAL CONTROL SUBSYSTEM (TCS) | | | 1.02.2.4 | | | | | | | | | | | | | |
| 10 | 4 | ELECTRICAL POWER SUBSYSTEM (EPS) | | | 1.02.2.5 | | | | | | | | | | | | | |
| 11 | 4 | TELEMETRY AND COMMAND SUBSYSTEM (TACS) | | | 1.02.2.6 | | | | | | | | | | | | | |
| 12 | 4 | COMMAND AND DATA HANDLING SUBSYSTEM (CDHS) | | | 1.02.2.7 | | | | | | | | | | | | | |
| 13 | 5 | CDHS HARDWARE | | | 1.02.2.7.1 | | | | | | | | | | | | | |
| 14 | 5 | CDHS SOFTWARE | | | 1.02.2.7.2 | | | | | | | | | | | | | |
| 15 | 4 | PROPULSION SUBSYSTEM (PS) | | | 1.02.2.8 | | | | | | | | | | | | | |
| 16 | 3 | PAYLOAD I... | | | 1.02.3 | | | | | | | | | | | | | |
| 17 | 4 | PAYLOAD I...n HARDWARE | | | 1.02.3.1 | | | | | | | | | | | | | |
| 18 | 4 | PAYLOAD I...n SOFTWARE | | | 1.02.3.2 | | | | | | | | | | | | | |
| 19 | 2 | COMMAND, CONTROL & COMM. SEGMENT (C3S) | | | 1.03 | | | | | | | | | | | | | |
| 20 | 3 | CAS INTEGRATION, ASSEMBLY, TEST & C/O | | | 1.03.1 | | | | | | | | | | | | | |
| 21 | 3 | COMMAND & CONTROL | | | 1.03.2 | | | | | | | | | | | | | |
| 22 | 4 | PRIMARY SATELLITE OPS CENTER (SUITLAND) | | | 1.03.2.1 | | | | | | | | | | | | | |
| 23 | 4 | BACKUP SATELLITE OPS CENTER (FALCON) | | | 1.03.2.2 | | | | | | | | | | | | | |
| 24 | 4 | COMMON SOFTWARE | | | 1.03.2.3 | | | | | | | | | | | | | |
| 25 | 4 | TRACKING STATIONS I... | | | 1.03.2.4 | | | | | | | | | | | | | |
| 26 | 3 | DATA ROUTING & RETRIEVAL (DRR) | | | 1.03.3 | | | | | | | | | | | | | |
| 27 | 3 | FLIGHT VEHICLE SIMULATOR (FVS) | | | 1.03.4 | | | | | | | | | | | | | |
| 28 | 2 | INTERFACE DATA PROCESSOR SEGMENT (IPDS) | | | 1.04 | | | | | | | | | | | | | |
| 29 | 3 | IPDS INTEGRATION, ASSEMBLY, TEST & C/O | | | 1.04.1 | | | | | | | | | | | | | |
| 30 | 3 | ENVIRONMENTAL DATA RECORD ALGORITHMS | | | 1.04.2 | | | | | | | | | | | | | |
| 31 | 3 | CENTRALS | | | 1.04.3 | | | | | | | | | | | | | |
| 32 | 4 | COMMON SOFTWARE | | | 1.04.3.1 | | | | | | | | | | | | | |
| 33 | 4 | NESDIS | | | 1.04.3.2 | | | | | | | | | | | | | |
| 34 | 4 | AFGWC | | | 1.04.3.3 | | | | | | | | | | | | | |
| 35 | 4 | FMOC | | | 1.04.3.4 | | | | | | | | | | | | | |
| 36 | 4 | AFSEC 50th SUPPORT WING | | | 1.04.3.5 | | | | | | | | | | | | | |
| 37 | 4 | EUMETSAT | | | 1.04.3.6 | | | | | | | | | | | | | |
| 38 | 3 | REGIONAL ELEMENTS | | | 1.04.4 | | | | | | | | | | | | | |
| 18. PREPARED BY (NAME, GRADE, OFFICE SYMBOL, PHONE NUMBER, DATE) | | | | 19. COMMAND CONCURRENCE | | | | 20. SERVICE FOCAL POINT CONCURRENCE | | | | 21. CAIG APPROVAL DATE | | | | | | |
|  LESLIE M. SCOTT, MAJ, SMC/CIP (310) 336-4588, 10/03/95 | | | |  ANTHONY E. FINEFIELD, GS-14, DAF SMC FIELD COMMAND FOCAL POINT (310) 363-1073 10/4/95 | | | | | | | | | | | | | | |

| CONTRACTOR COST DATA REPORTING PLAN | | 1. PROGRAM NPOESS | | | 2. (X) CAT 1 () CAT 11 | | 3. (X) INITIAL SUBMISSION () CHANGE REQUEST | | 4. (X) PROGRAM WBS () CONTRACT WBS | | | | | | | |
|-------------------------------------|---------------------|----------------------------------------|---------------------|-----------------------------|-------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------|-------------------------------------------------------|-----------------|---|----------------------|---|------------|------------|------|
| 5. DATA AS OF 02 OCT 95 | | 6. REVIEW & REFERENCE NO. | | 7. REPORT DATE 02 OCT 95 | | 8. PREPARED BY (Org. Name, Office Symbol, Address) MAJ L. SCOTT, SMC/CIP LAAFB CA 90245 | | | 9. DATA STORAGE LOCATION SMC/CIP LAAFB CA 90245 | | | | | | | |
| 10. Line NO. | 11. WBS Level | 12. REPORTING ELEMENTS | 13. PROG CODE | 14. Contr- actor | 15. Contract Type | 16. PROGRAM TOTALS | | 17. REPORT FREQUENCY | | | | | | | | |
| | | | | | | RDT&E | | PROCUREMENT | | DD FORM 1921 | | CCDR FORMS 1921-1 | | DD 1921 | DD 1921 | CFSR |
| | | | | | | COST (\$M) | UNITS | C | P | C | P | 2 | 3 | | | |
| 39 | 4 | COMMON SOFTWARE | 1.04.4.1 | | | | | | | | | | | | | |
| 40 | 4 | ELEMENTS I... | 1.04.4.2 | | | | | | | | | | | | | M |
| 41 | 2 | SYSTEM ENGINEERING/PROGRAM MANAGEMENT | 1.05 | | | | | | | | | | | | | M |
| 42 | 2 | SYSTEM TEST & EVALUATION | 1.06 | | | | | | | CC | | | | | | M |
| 43 | 3 | DEVELOPMENTAL TEST & EVALUATION (DT&E) | 1.06.1 | | | | | | | CC | | | | | | M |
| 44 | 3 | OPERATIONAL TEST & EVALUATION (OT&E) | 1.06.2 | | | | | | | | | | | | | M |
| 45 | 3 | MOCKUPS | 1.06.3 | | | | | | | | | | | | | M |
| 46 | 3 | TEST FACILITIES (DEM/VAL) | 1.06.4 | | | | | | | | | | | | | M |
| 47 | 3 | TEST & EVALUATION SUPPORT | 1.06.5 | | | | | | | | | | | | | M |
| 48 | 2 | SYSTEM TRAINING | 1.07 | | | | | | | CC | | | | | | M |
| 49 | 3 | SPACE SEGMENT TRAINING | 1.07.1 | | | | | | | | | | | | | M |
| 50 | 3 | C3 SEGMENT TRAINING | 1.07.2 | | | | | | | | | | | | | M |
| 51 | 3 | IPD SEGMENT TRAINING | 1.07.3 | | | | | | | | | | | | | M |
| 52 | 2 | PECULIAR SUPPORT EQUIPMENT (PSE) | 1.08 | | | | | | | | | | | | | M |
| 53 | 3 | SPACE SEGMENT PSE | 1.08.1 | | | | | | | CC | | | | | | M |
| 54 | 3 | C3 SEGMENT PSE | 1.08.2 | | | | | | | | | | | | | M |
| 55 | 3 | IPD SEGMENT PSE | 1.08.3 | | | | | | | | | | | | | M |
| 56 | 3 | LAUNCH SUPPORT PSE | 1.08.4 | | | | | | | | | | | | | M |
| 57 | 2 | COMMON SUPPORT EQUIPMENT (CSE) | 1.09 | | | | | | | | | | | | | M |
| 58 | 3 | SPACE SEGMENT CSE | 1.09.1 | | | | | | | CC | | | | | | M |
| 59 | 3 | C3 SEGMENT CSE | 1.09.2 | | | | | | | | | | | | | M |
| 60 | 3 | IPD SEGMENT CSE | 1.09.3 | | | | | | | | | | | | | M |
| 61 | 3 | LAUNCH SEGMENT CSE | 1.09.4 | | | | | | | | | | | | | M |
| 62 | 2 | FLIGHT SUPPORT OPS & SERVICES | 1.10 | | | | | | | | | | | | | M |
| 63 | 3 | SATELLITE MATE/CHECKOUT/LAUNCH | 1.10.1 | | | | | | | CC | | | | | | M |
| 64 | 3 | ON-ORBIT SUPPORT | 1.10.2 | | | | | | | | | | | | | M |
| 65 | 3 | LAUNCH SITE REFURBISHMENT | 1.10.3 | | | | | | | | | | | | | M |
| 66 | 2 | STORAGE | 1.11 | | | | | | | | | | | | | M |
| 67 | 2 | INDUSTRIAL FACILITIES (Reserved) | 1.12 | | | | | | | CC | | | | | | M |
| 68 | 2 | INITIAL SPARES AND REPAIR PARTS | 1.13 | | | | | | | | | | | | | M |
| 69 | 3 | SPACE SEGMENT | 1.13.1 | | | | | | | CC | | | | | | M |
| 70 | 3 | C3 SEGMENT | 1.13.2 | | | | | | | | | | | | | M |
| 71 | 3 | IPD SEGMENT | 1.13.3 | | | | | | | | | | | | | M |
| 72 | 2 | OPERATIONS & SUPPORT (O&S) | 1.14 | | | | | | | | | | | | | M |
| 73 | 3 | SPACE SEGMENT | 1.14.1 | | | | | | | | | | | | | |
| 74 | 3 | C3 SEGMENT | 1.14.2 | | | | | | | | | | | | | |
| 75 | 4 | COMMAND AND CONTROL SEGMENT (C2S) | 1.14.2.1 | | | | | | | | | | | | | |
| 76 | 4 | DRR SEGMENT | 1.14.2.2 | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------|------------------------------|----------------------|-----------------------------|-----------|------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------|---------------------|--|-----------------------------|--|-----------|------------|------|-----|
| CONTRACTOR COST DATA REPORTING PLAN | | | 1. PROGRAM NFOESS | | | 2. <input checked="" type="checkbox"/> CAT I <input type="checkbox"/> CAT II | | 3. <input checked="" type="checkbox"/> INITIAL SUBMISSION <input type="checkbox"/> CHANGE REQUEST | | 4. <input checked="" type="checkbox"/> PROGRAM WBS <input type="checkbox"/> CONTRACT WBS | | | | | | | | |
| 5. DATA AS OF 02 OCT 95 | | 6. REVIEW & REFERENCE NO. | | 7. REPORT DATE 02 OCT 95 | | 8. PREPARED BY (Orig. Name, Office Symbol, Address) MAJ L. SCOTT, SMC/CIP LAAFB CA 90245 | | | | 9. DATA STORAGE LOCATION SMC/CIP LAAFB CA 90245 | | | | | | | | |
| 10. | 11. | 12. | | | 13. | 14. | 15. | 16. PROGRAM TOTALS | | 17. REPORT FREQUENCY | | | | | | | | |
| Line NO. | WBS Level | REPORTING ELEMENTS | | | PROG CODE | Contractor | Contract Type | UNITS | RDI&E COST (\$M) | PROCUREMENT COST (\$M) | DD FORM 1921 C P | | CCDR FORMS 1921 1 C P | | DD 1921 2 | DD 1921 -3 | CFSR | CPR |
| 77 | 4 | FVS SEGMENT | | | 1.14.2.3 | | | | | | | | | | | | | |
| 78 | 3 | IPD SEGMENT | | | 1.14.3 | | | | | | | | | | | | | |
| 79 | 4 | EDR ALGORITHM MAINTENANCE | | | 1.14.3.1 | | | | | | | | | | | | | |
| 80 | 4 | CENTRALS MAINTENANCE | | | 1.14.3.2 | | | | | | | | | | | | | |
| 81 | 4 | REGIONAL ELEMENT MAINTENANCE | | | 1.14.3.3 | | | | | | | | | | | | | |

DATA ITEM DESCRIPTION

Form Approved
OMB NO. 0704-0188

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 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 (07-0188), Washington, DC 20503.

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------|---------------------------------|
| 1. TITLE COST PERFORMANCE REPORT (CPR) | | 2. IDENTIFICATION NUMBER DI-MGMT-81466 | |
| 3. DESCRIPTION/PURPOSE 3.1 This report consists of five formats containing cost and related data for measuring contractors' cost and schedule performance on Department of Defense (DOD) acquisition contracts. Format 1 (Sample Format 1) provides data to measure cost and schedule performance by summary level Work Breakdown Structure (WBS) elements, the hardware, software and services the Government is buying. Format 2 (Sample Format 2) provides the same data by the contractor's organization. Format 3 (Sample Format 3) provides the budget baseline plan against which performance is measured. Format 4 (Sample Format 4) provides staffing forecasts for correlation with the budget plan and cost estimates. Format 5 (Sample Format 5) is a narrative report used to explain significant cost and schedule variances and other identified contract problems and topics. (Continued on page 2) | | | |
| 4. APPROVAL DATE (YYMMDD) 951019 | 5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) OUSD (A&T) API/PM | 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 requirements as delineated in the contract. 7.2 This DID may be used in conjunction with the Contract Funds Status Report DID, DI-MGMT-81468, and the Contract Work Breakdown Structure DID, DI-MGMT-81334. This DID and the Cost/Schedule Status Report DID, DI-MGMT-81467, will not be used on the same contract. 7.3 The CPR will be used to obtain cost and schedule performance information on contracts requiring compliance with the Cost/Schedule Control Systems Criteria (C/SCSC). (Refer to DFARS 252.234-7001.) It may also be used on contracts not requiring C/SCSC compliance ("CPR - No Criteria"), but on which the DOD Component requires more data than is available on a Cost/Schedule Status Report. When compliance with the C/SCSC is contractually required, the CPR data elements shall reflect the output of the contractor's C/SCSC-compliant integrated management system. When compliance with the C/SCSC is not contractually required ("CPR - No Criteria"), the CPR data elements shall be as specified in the (Continued on page 2) | | | |
| 8. APPROVAL LIMITATION | | 9a. APPLICABLE FORMS Refer to page 3. | 9b. AMSC NUMBER D7120 |
| 10. PREPARATION INSTRUCTIONS 10.1 <u>Format</u> . Contractor formats should be substituted whenever they contain all the required data elements at the specified reporting levels in a form suitable for DOD management. 10.2 <u>Content</u> . The Cost Performance Report shall contain the following: 10.2.1 <u>Heading Information - Formats 1 - 5</u> . Preparation instructions for Heading Information (Blocks 1 through 4) apply to Formats 1 through 5. 10.2.1.1 <u>Contractor</u> . Enter in Block 1.a the contractor's name and division, if applicable. Enter in Block 1.b the plant location and mailing address of the reporting contractor. 10.2.1.2 <u>Contract</u> . Enter the contract name in Block 2.a, the contract number in Block 2.b, the contract type in Block 2.c and the contract share ratio, if applicable, in Block 2.d. 10.2.1.3 <u>Program</u> . Enter in Block 3.a the program name, number, acronym and/or type, model, and series, or other designation of the prime item(s) purchased under the contract. Indicate the program phase, RDT&E or Production, in Block 3.b. 10.2.1.4 <u>Report Period</u> . Enter the beginning date in Block 4.a and the ending date in Block 4.b of the period covered by the report. 10.2.1.5 <u>Security Classification</u> . Enter the appropriate security classification at the top and bottom of each page. (Continued on page 3) | | | |
| 11. DISTRIBUTION STATEMENT Distribution Statement A: Approved for public release; distribution is unlimited. | | | |

Block 3, Description/Purpose (Continued)

3.2 CPR data will be used by DOD system managers to: (a) integrate cost and schedule performance data with technical performance measures, (b) identify the magnitude and impact of actual and potential problem areas causing significant cost and schedule variances, and (c) provide valid, timely program status information to higher management.

3.3 The CPR is a management report. It should provide timely, reliable summary-level data with which to assess current and projected contract performance. The CPR's primary value to government program management is its ability to reasonably reflect current contract status. If the CPR contains excessively detailed or outdated information, management's ability to make informed, timely decisions may be impaired. It is important that the CPR be as accurate as possible so it can be used for its intended purpose. It should be used by the DOD Component staff, including Program Managers, engineers, cost estimators and financial management personnel, to confirm, quantify and track known or emerging contract problems and as a basis for communicating with the contractor. The contractor should ensure that CPR data accurately reflect how work is being performed and is consistent with the actual contract status.

Block 7, Application/Interrelationship (Continued)

contractor's summary management procedures or as subsequently negotiated. (Refer to DFARS 252.242-7005.)

7.4 Unless otherwise provided in the contract, the CPR will be required on a monthly basis and submitted to the procuring activity no later than 25 calendar days following the reporting cutoff date. Reports may reflect data either as of the end of the calendar month or as of the contractor's accounting period cutoff date.

7.5 Data reported in the CPR will pertain to all authorized contract work, including both priced and unpriced effort. However, the Government and the contractor may agree to exclude from CPR reporting portions of the contract for which performance reporting is not needed, such as firm fixed price contract line items.

7.6 Certain aspects of the report are subject to negotiation between the Government and the contractor, such as:

7.6.1 The WBS levels to be reported on Format 1. The level of detail to be reported on Format 1 normally will be limited to level three of the Contract WBS or higher, but lower levels may be specified for high-cost or -risk items. The Government and the contractor should periodically review and adjust as necessary WBS reporting levels on Format 1 to ensure they continue to provide appropriate visibility without requiring excessive information. If there is a significant problem at a lower level, detailed reporting for that WBS element may be required until the problem is resolved.

7.6.2 The formats which are specified for regular reporting. The Government and the contractor may agree to exclude certain formats from regular reporting. Any of the five formats may be excluded, but a Format 1 or a Format 2 is required. Formats may be deleted entirely, or they may be submitted on a less frequent basis. If the contractor is organized by product, Format 2 may not be required because it should resemble Format 1. The decision to exclude a format(s) should be based on an assessment of minimum management information needs. The Government should buy only the information it plans to use. (Note: When a Format 1 is not required, the information in Blocks 5 through 7 on Format 1 will still be required. Also, if a formal reprogramming (Over Target Baseline) has been implemented and Format 1 is not required, the information in Columns (12) and (13) of Block 8

on Format 1 and the information in Block 9 on Format 1 will still be required.)

7.6.3 The variance analysis thresholds which, if exceeded, require problem analysis and narrative explanations in Format 5. If the contract does not specify variance analysis thresholds, the contractor will provide appropriate variance analyses (see 10.2.6.3.2.4 below). Variance analysis thresholds should be reviewed periodically and adjusted as necessary to ensure they continue to provide appropriate visibility.

7.6.4 The specific time increments to be used for the baseline and staffing projections required by Formats 3 and 4. If the contract does not specify time increments, the contractor will determine the increments to be used.

7.6.5 The reporting provisions which apply to the Cost of Money line on Formats 1 and 2.

7.6.6 The reporting provisions which apply if compliance with C/SCSC is not contractually required, known as "CPR - No Criteria." Procedures used to develop CPR data will be documented in the contractor's summary management procedures and are subject to negotiations. (Refer to DFARS 252.242-7005.)

7.6.7 Organizational categories for Format 4, if different from Format 2. The Government may request that different organizational categories be used for reporting staffing in Format 4. If so, the Government and the contractor will negotiate the Format 4 categories. The Format 2 categories shall reflect the contractor's internal organization being used to perform the contract at hand.

7.7 In all cases, the CPR CDRL is subject to "tailoring." Tailoring is defined as deleting requirements from this DID. Requiring more information in the CPR CDRL than specified in this DID is prohibited by DOD regulation. All negotiated reporting provisions will be specified in the contract.

7.8 This Data Item Description supersedes DI-F-6000C.

Block 9.a, Applicable Forms (Continued)

9.a.1 DD Forms are available and will be used to submit required formats as follows:

| <u>CPR Format</u> | <u>DD Form Number</u> | <u>Sample Format No.</u> |
|-----------------------------------|-----------------------|--------------------------|
| Work Breakdown Structure | 2734/1 | 1 |
| Organizational Categories | 2734/2 | 2 |
| Baseline | 2734/3 | 3 |
| Staffing | 2734/4 | 4 |
| Explanations and Problem Analyses | 2734/5 | 5 |

9.a.2 Contractor formats should be substituted for CPR formats whenever they contain all the required data elements at the specified reporting levels in a form suitable for DOD management use. The American National Standards Institute (ANSI) X12 standards (transaction sets 839 for cost and 806 for schedule), or the United Nations Electronic Data Interchange for Administration, Commerce and Transport (EDIFACT) equivalent, will be used for Electronic Data Interchange.

Block 10, Preparation Instructions (Continued)

10.2.1.6 Dollars in _____. If reported dollar amounts have been factored down by a thousand, a million or a billion, enter the factor at the bottom of each page.

10.2.2 Format 1 - Work Breakdown Structure.

10.2.2.1 Contract Data.

10.2.2.1.1 Quantity. Enter in Block 5.a the number of prime items to be procured on this contract.

10.2.2.1.2 Negotiated Cost. Enter in Block 5.b the dollar value (excluding fee or profit) on which contractual agreement has been reached as of the cutoff date of the report. For an incentive contract, enter the definitized contract target cost. Amounts for changes will not be included in this item until they have been priced and incorporated in the contract through contract change order or supplemental agreement. For a cost plus fixed fee or award fee contract, enter the estimated cost negotiated. Changes to the estimated cost will consist only of amounts for changes in the contract scope of work, not for cost growth ("overrun") from the original estimated cost.

10.2.2.1.3 Estimated Cost of Authorized, Unpriced Work. Enter in Block 5.c the amount (excluding fee or profit) estimated for that work for which written authorization has been received, but for which definitized contract prices have not been incorporated in the contract through contract change order or supplemental agreement.

10.2.2.1.4 Target Profit/Fee. Enter in Block 5.d the fee or percentage of profit which will apply if the negotiated cost of the contract (see 10.2.2.1.2, above) is met.

10.2.2.1.5 Target Price. Enter in Block 5.e the target price (negotiated contract cost plus profit/fee) applicable to the definitized contract effort.

10.2.2.1.6 Estimated Price. Based on the most likely estimate of cost at completion for all authorized contract work and the appropriate profit/fee, incentive, and cost sharing provisions, enter in Block 5.f the estimated final contract price (total estimated cost to the Government). This number will be based on the most likely management estimate at completion in Block 6.c.1 and normally will change whenever the management estimate or the contract is revised.

10.2.2.1.7 Contract Ceiling. Enter in Block 5.g the contract ceiling price applicable to the definitized effort.

10.2.2.1.8 Estimated Contract Ceiling. Enter in Block 5.h the estimated ceiling price applicable to all authorized contract effort including both definitized and undefinitized effort.

10.2.2.2 Estimated Cost at Completion. These blocks will present the contractor's range of estimated costs at completion. The range of estimates is intended to allow contractor management flexibility to express possible cost outcomes. Contractors are encouraged to provide the most accurate EACs possible through program-level assessments of factors that may affect the cost, schedule or technical outcome of the contract. Where possible, such program-level assessments should include consideration of known or anticipated risk areas, and planned risk reductions or cost containment measures. EACs should be reported without regard to contract ceiling, if applicable. The methods used to develop worst case, best case and most likely management estimates at completion need not be described in the contractor's C/SCSC-compliant management control system description or CPR-No Criteria management procedures.

10.2.2.2.1 Management Estimate at Completion - Best Case. Enter in Block 6.a.1 the contractor's best case estimate at completion. The best case estimate is the one that results in the lowest cost to the Government. This estimate should be based on the outcome of the most favorable set of circumstances. If this estimate is different from the most likely estimate at

completion (Block 6.c.1), the assumptions and conditions underlying this estimate should be explained briefly in Format 5. This estimate is for informational purposes only; it is not an official company estimate. There is no requirement for the contractor to prepare and maintain backup data beyond the explanation provided in Format 5.

10.2.2.2.2 Management Estimate at Completion - Worst Case. Enter in Block 6.b.1 the contractor's worst case estimate at completion. The worst case estimate is the one that results in the highest cost to the Government. This estimate should be based on the outcome of the least favorable set of circumstances. If this estimate is different from the most likely estimate at completion (Block 6.c.1), the assumptions and conditions underlying this estimate should be explained briefly in Format 5. This estimate is for informational purposes only; it is not an official company estimate. There is no requirement for the contractor to prepare and maintain backup data beyond the explanation provided in Format 5.

10.2.2.2.3 Management Estimate at Completion - Most Likely. Enter in Block 6.c.1 the contractor's most likely estimate at completion. This estimate is the contractor's official contract EAC and, as such, takes precedence over the estimates presented in Column (15) of Formats 1 and 2 and Blocks 6.a.1 and 6.b.1. This EAC is the value that the contractor's management believes is the most likely outcome based on a knowledgeable estimate of all authorized work, known risks and probable future conditions. This value need not agree with the total of Column (15) (Block 8.e). However, any difference should be explained in Format 5 in such terms as risk, use of management reserve, or higher management knowledge of current or future contract conditions. This EAC need not agree with EACs contained in the contractor's internal data, but must be reconcilable to them. The most likely EAC also will be reconcilable to the contractor's latest statement of funds required as reported in the Contract Funds Status Report (DI-F-6004), or its equivalent, if this report is a contractual requirement.

10.2.2.2.4 Contract Budget Base. Enter in Block 6.c.2 the total of negotiated cost (Block 5.b) and estimated cost of authorized, unpriced work (5.c).

10.2.2.2.5 Variance. Enter in Block 6.c.3 the Contract Budget Base (Block 6.c.2) minus the most likely estimate at complete (Block 6.c.1). This value will be explained in Format 5 according to applicable contractual requirements.

10.2.2.3 Authorized Contractor Representative. Enter in Block 7.a the name of the authorized person signing the report. Enter that person's title in Block 7.b. The authorized person will sign in Block 7.c. Enter the date signed in Block 7.d.

10.2.2.4 Performance Data.

10.2.2.4.1 Work Breakdown Structure Element. Enter in Column (1) of Block 8.a the noun description of the WBS items for which cost information is being reported. WBS items or levels reported will be those specified in the contract. (See 7.6.1 above.)

10.2.2.4.2 Cost of Money. Enter in Columns (2) through (16) of Block 8.b the Facilities Capital Cost of Money applicable to the contract.

10.2.2.4.3 General and Administrative (G&A). Enter in Columns (2) through (16) of Block 8.c the appropriate G&A costs. If G&A has been included in the total costs reported in Block 8.a above, G&A will be shown as a nonadd entry on this line with an appropriate notation. If a G&A classification is not used, no entry will be made other than an appropriate notation to that effect.

10.2.2.4.4 Undistributed Budget. Enter the amount of budget applicable to contract effort which has not yet been identified to WBS elements at or below the reporting level. For example, contract changes which were authorized late in the reporting period should have received a total budget; however, assignment of work and allocation of budgets to individual WBS elements may not have been accomplished as of the end of the period. Budgets which can be identified to WBS elements at or below the specified reporting level will be included in the total budgets shown for the WBS elements in Block 8.a and will not be shown as undistributed budget. Enter in Column (15) of Block 8.d the estimate at completion for the scope of work represented by the undistributed budget in Column (14) of Block 8.d. Enter in Column (16) of Block 8.d the variance, if any, and fully explain it in Format 5. All undistributed budget will be fully explained in Format 5.

10.2.2.4.4.1 Use of Undistributed Budget. The provisions made in this report for undistributed budget are primarily to accommodate temporary situations where time constraints prevent adequate budget planning or where contract effort can only be defined in very general terms. Undistributed budget should not be used as a substitute for adequate contract planning. Formal budgets should be allocated to contract effort and responsible organizations at the earliest possible time, preferably within the next reporting period.

10.2.2.4.5 Subtotal (Performance Measurement Baseline). Enter the sum of the direct, indirect, Cost of Money, and G&A costs and budgets in Columns (2) through (16) of Block 8.a through e. This subtotal is also referred to as the Performance Measurement Baseline because it represents the allocated budget baseline (less management reserve) against which performance is actually measured.

10.2.2.4.6 Management Reserve. Management reserve is an amount of the overall contract budget withheld for management control purposes rather than for the accomplishment of a specific task or set of tasks. It is not a contingency fund, and may not be eliminated from contract prices by the Government during subsequent negotiations nor used to absorb the cost of contract changes. In Column (14) of Block 8.f enter the total amount of budget identified as management reserve as of the end of the current reporting period. The amounts shown as management reserve in Formats 1, 2 and 3 will agree. Amounts of management reserve applied to WBS elements during the reporting period will be listed in Block 6.b of Format 3 and explained in Format 5.

10.2.2.4.6.1 Negative Management Reserve. Negative entries will not be made in Management Reserve (Column (14) of Block 8.f). There is no such thing as "negative management reserve." If the contract is budgeted in excess of the Contract Budget Base (the negotiated contract cost plus the estimated cost for authorized, unpriced work), the provisions applicable to formal reprogramming and the instructions in paragraphs 10.2.2.5.1, 10.2.2.6.6, 10.2.2.6.7 and 10.2.4.1.7 apply.

10.2.2.4.7 Total. Enter the sum of all direct, indirect, Cost of Money, G&A cost, undistributed budgets and management reserves, if applicable, in Columns (2) through (14) of Block 8.g. The Total lines of Format 1 (Block 8.g) and Format 2 (Block 5.g) will agree. The total of Column (14), Block 8.g, will equal the Total Allocated Budget shown in Block 5.f on Format 3.

10.2.2.5 Reconciliation to Contract Budget Base.

10.2.2.5.1 Formal Reprogramming. In exceptional cases, the procuring agency may authorize the contractor to establish performance measurement budgets that in total exceed the Contract Budget Base. This process is called formal reprogramming. The contractor and the Government will agree on how the results of a formal reprogramming will be reported in the Cost Performance Report before the formal reprogramming is initiated. This agreement and any other pertinent details on the reporting of the formal reprogramming will be

included in Format 5. Blocks 9.a and 9.b provide the contractor the opportunity to reconcile the higher performance measurement budgets, also called an "Over Target Baseline," to the Contract Budget Base. (See 10.2.2.6.6, 10.2.2.6.7, 10.2.4.1.7, and 10.2.6.5 below for more information on reporting Over Target Baselines.)

10.2.2.5.2 Variance Adjustment. In reporting the results of a formal reprogramming (Over Target Baseline) the contractor may 1) apply the additional budget to completed work, thereby eliminating some or all of the existing cost or schedule variances, 2) apply the additional budget to remaining work, 3) apply some of the additional budget to completed work and some to remaining work, or 4) apply some of the additional budget to management reserve. If the contractor uses a portion of the additional budget to eliminate variances applicable to completed work, the total adjustments made to the cost and schedule variances will be shown in Columns (10) and (11) of Block 9.a. The total cost variance adjustment entered in Column (11) of Block 9.a will be the sum of the individual cost variance adjustments shown in Column (12) of Blocks 8.a through g.

10.2.2.5.3 Total Contract Variance. In Columns (10) and (11) of Block 9.b, enter the sum of the cost and schedule variances shown on the Total line (Block 8.g) and on the Variance Adjustment line (Block 9.a). In Column (14) enter the Contract Budget Base from Block 6.c.2. In Column (15) enter the management estimate at completion from Block 6.c.1. In Column (16) of Block 9.b enter the difference between Columns (14) and (15) of Block 9.b.

10.2.2.6 Columns (2) Through (16). When compliance with the C/SCSC is contractually required, the data in Columns (2) through (16) shall reflect the output of the contractor's C/SCSC-compliant integrated management system (refer to DFARS 252.234-7001). When compliance with the C/SCSC is not contractually required ("CPR - No Criteria"), the data in these columns shall be derived using the contractor's summary management procedures (refer to DFARS 252.242-7005).

10.2.2.6.1 Column (2) and Column (7) - Budgeted Cost - Work Scheduled. For the time period indicated, enter the Budgeted Cost for Work Scheduled (BCWS) in these columns.

10.2.2.6.2 Column (3) and Column (8) - Budgeted Cost - Work Performed. For the time period indicated, enter the Budgeted Cost for Work Performed (BCWP) in these columns.

10.2.2.6.3 Column (4) and Column (9) - Actual Cost - Work Performed (ACWP). For the time period indicated, enter the Actual Cost of Work Performed without regard to ceiling. In all cases, costs and budgets will be reported on a comparable basis.

10.2.2.6.4 Column (5) and Column (10) - Variance - Schedule. For the time period indicated, these columns reflect the differences between BCWS and BCWP. For the current period, Column (5) (schedule variance) is derived by subtracting Column (2) (BCWS) from Column (3) (BCWP). For the cumulative to date, Column (10) (schedule variance) is derived by subtracting Column (7) (BCWS) from Column (8) (BCWP). A positive figure indicates a favorable variance. A negative figure (indicated by parentheses) indicates an unfavorable variance. Significant variances as specified in the contract will be fully explained in Format 5. If the contract does not specify variance analysis thresholds, the contractor will provide appropriate variance analyses. (See 10.2.6.3.2.4 below.)

10.2.2.6.5 Column (6) and Column (11) - Variance - Cost. For the time period indicated, these columns reflect the difference between BCWP and ACWP. For the current period, Column (6) (cost variance) is derived by subtracting Column (4) (ACWP) from Column (3) (BCWP). For cumulative to date, Column (11) (cost variance) is derived by subtracting Column (9) (ACWP) from Column (3)

SWP). A positive figure indicates a favorable variance. A negative figure (indicated by parentheses) indicates an unfavorable variance. Significant variances as specified in the contract will be fully explained in Format 5. If the contract does not specify variance analysis thresholds, the contractor will provide appropriate variance analyses. (See 10.2.6.3.2.4 below.)

10.2.2.6.6 Column (12) Reprogramming Adjustments - Cost Variance. Formal reprogramming (Over Target Baseline) results in budget allocations in excess of the Contract Budget Base and, in some instances, adjustments to previously reported variances. If previously reported variances are being adjusted, the adjustment applicable to each reporting line item affected will be entered in Column (12). The total of Column (12) will equal the amount shown on the Variance Adjustment line (Block 9.a) in Column (11).

10.2.2.6.7 Column (13) Reprogramming Adjustments - Budget. Enter the total amounts added to the budget for each reporting line item as the result of formal reprogramming (Over Target Baseline). The amounts shown will consist of the sum of the budgets used to adjust cost variances (Column (12)) plus the additional budget added to the WBS element for remaining work. Enter the amount of budget added to management reserve in the space provided on the management reserve line (Block 8.f). The total of Column (13) will equal the amount the Total Allocated Budget has been budgeted in excess of the Contract Budget Base as shown in Block 5.g of Format 3. An explanation of the reprogramming will be provided in Format 5.

10.2.2.6.7.1 Formal Reprogramming Reporting. Columns (12) and (13) are intended for use only in situations involving formal reprogramming (Over Target Baseline). Internal replanning actions within the Contract Budget Base do not require entries in these columns. Where contractors are submitting CPR data directly from automated systems, the addition of Columns (12) and (13) as shown may not be practical due to computer reprogramming problems or space limitations. In such cases, the information may be provided on a separate sheet and attached as Format 1a to each subsequent report. Contractors will not be required to abandon or modify existing automated reporting systems to include Columns (12) and (13) if significant costs will be associated with such change. Nor will contractors be required to prepare the report manually solely to include this information.

10.2.2.6.7.2. Formal Reprogramming Timeliness. Formal reprogramming (Over Target Baseline) can be a significant undertaking that may require more than a month to implement. To preclude a disruption of management visibility caused by a reporting hiatus, the contractor should implement the formal reprogramming expeditiously. If a reporting hiatus is needed, the contractor and the Government will agree on the date and duration of the hiatus before the formal reprogramming is initiated.

10.2.2.6.8 Column (14) - At Completion - Budgeted. Enter the budgeted cost at completion for the items listed in Column (1). This entry will consist of the sum of the original budgets plus or minus budget changes resulting from contract changes, internal replanning, and application of management reserves. The total (Block 8.g) will equal the Total Allocated Budget shown in Block 5.f on Format 3.

10.2.2.6.9 Column (15) - At Completion - Estimated. Enter the latest revised estimate of cost at completion including estimated overrun/underrun for all authorized work. If the subtotal (Block 8.e) does not agree with the most likely management estimate at completion (Block 6.c.1), the difference will be explained in Format 5. (See 10.2.2.2.3 above.)

10.2.2.6.10 Column (16) - At Completion - Variance. Enter the difference between the Budgeted - At Completion (Column (14)) and the Estimated - At Completion (Column (15)) by subtracting Column (15) from Column (14). A negative figure (indicated by parentheses) reflects an unfavorable variance. Significant variances as specified in the contract will be fully explained in

Format 5. If the contract does not specify variance analysis thresholds, the contractor will provide appropriate variance analyses. (See 10.2.6.3.2.4 below.)

10.2.3 Format 2 - Organizational Categories.

10.2.3.1 Performance Data.

10.2.3.1.1 Column (1) - Organizational Category. In Block 5.a list the organizational categories which reflect the contractor's internal management structure. This format will be used to collect organizational cost information at the total contract level rather than for individual WBS elements. The level of detail to be reported will normally be limited to the organizational level immediately under the operating head of the facility. The contractor shall be given flexibility to report this information according to its own internal management structure. If the contractor is organized by product teams, this format may not be needed because it should resemble Format 1.

10.2.3.1.2 Cost of Money. Enter in Columns (2) through (16) of Block 5.b the Facilities Capital Cost of Money applicable to the contract.

10.2.3.1.3 General and Administrative. Enter in Columns (2) through (16) of Block 5.c the appropriate G&A costs. (See 10.2.2.4.3 above.)

10.2.3.1.4 Undistributed Budget. Enter in Column (14) of Block 5.d the budget applicable to contract effort which cannot be planned in sufficient detail to be assigned to a responsible organizational area at the reporting level. The amount shown on this format may exceed the amount shown as undistributed budget on Format 1 if budget is identified to a task at or below the WBS reporting level but organizational identification has not been made; or may be less than the amount on Format 1 where budgets have been assigned to organizations but not to WBS elements. Enter in Column (15) of Block 5.d the estimate at completion for the scope of work represented by the undistributed budget in Column (14) of Block 5.d. Enter in Column (16) of Block 5.d the variance, if any, and fully explain it in Format 5. (See 10.2.2.4.4 above.)

10.2.3.1.5 Subtotal (Performance Measurement Baseline). Enter the sum of the direct, indirect, Cost of Money, and G&A costs and budgets in Columns (2) through (16) of Block 5.a through e. (See 10.2.2.4.5 above.)

10.2.3.1.6 Management Reserve. In Column (14) of Block 5.f enter the amount of budget identified as management reserve. The Management Reserve entry will agree with the amounts shown in Format 1 and 3. (See 10.2.2.4.6 above.)

10.2.3.1.7 Total. Enter the sum of all direct, indirect, Cost of Money, and G&A costs and budgets, undistributed budgets and management reserves, if applicable, in Columns (2) through (14) of Block 5.g. The totals on this page will equal the Total line on Format 1. The total of Column (14) will equal the Total Allocated Budget shown in Block 5.f on Format 3.

10.2.3.2 Columns (2) Through (16). The instructions applicable to these columns are the same as the instructions for corresponding columns on Format 1. (See 10.2.2.6 and 10.2.2.6.1 through 10.2.2.6.10 above.)

10.2.4 Format 3 - Baseline.

10.2.4.1 Contract Data.

10.2.4.1.1 Original Negotiated Cost. Enter in Block 5.a the dollar value (excluding fee or profit) negotiated in the original contract. For a cost plus fixed fee or award fee contract, enter the estimated cost negotiated. For an incentive contract, enter the definitized contract target cost.

10.2.4.1.2 Negotiated Contract Changes. Enter in Block 5.b the cumulative cost (excluding fee or profit) applicable to definitized contract changes which have occurred since the beginning of the contract.

10.2.4.1.3 Current Negotiated Cost. Enter in Block 5.c the sum of Blocks 5.a and 5.b. The amount shown should equal the current dollar value (excluding fee or profit) on which contractual agreement has been reached and should be the same as the amount in Negotiated Cost (Block 5.b) on Format 1.

10.2.4.1.4 Estimated Cost of Authorized, Unpriced Work. Enter in Block 5.d the estimated cost (excluding fee or profit) for contract changes for which written authorizations have been received, but for which contract prices have not been incorporated in the contract, as shown in Block 5.c of Format 1.

10.2.4.1.5 Contract Budget Base. Enter in Block 5.e the sum of Blocks 5.c and 5.d.

10.2.4.1.6 Total Allocated Budget. Enter in Block 5.f the sum of all budgets allocated to the performance of the contractual effort. The amount shown will include all management reserves and undistributed budgets. This amount will be the same as that shown on the Total line in Column (14) on Format 1 (Block 8.g) and Format 2 (Block 5.g).

10.2.4.1.7 Difference. Enter in Block 5.g the difference between Blocks 5.e and 5.f. In most cases, the amounts shown in Blocks 5.e and 5.f will be identical. If the amount shown in Blocks 5.f exceeds that shown in Block 5.e, it usually is an indication of a formal reprogramming (Over Target Baseline). The difference should be explained in Format 5 at the time the negative value appears and subsequently for any change in the value.

10.2.4.1.8 Contract Start Date. Enter in Block 5.h the date the contractor was authorized to start work on the contract, regardless of the date of contract definitization. (Long lead procurement efforts authorized under prior contracts are not to be considered.)

10.2.4.1.9 Contract Definitization Date. Enter in Block 5.i the date the contract was definitized.

10.2.4.1.10 Planned Completion Date. Enter in Block 5.j the completion date to which the budgets allocated in the Performance Measurement Baseline have been planned. This date should represent the planned completion of all significant effort on the contract. The cost associated with the schedule from which this date is taken is the Total Allocated Budget (Block 5.f of Format 3).

10.2.4.1.10.1 Performance Measurement Schedule Inconsistent With Contractual Schedule. In exceptional cases, the contractor may determine that the existing contract schedule cannot be achieved and no longer represents a reasonable basis for management control. With Government approval, the contractor may rephrase its performance measurement schedule to new dates which exceed the contractual milestones, a condition known as "Over Target Schedule." These new dates are for performance measurement purposes only and do not represent an agreement to modify the contract terms and conditions. The Government and the contractor will agree on the new performance measurement schedule prior to reporting it in the Cost Performance Report. The contractor should provide pertinent information in Format 5 on any schedule milestones that are inconsistent with contractual milestones, beginning the month the schedule is implemented and each month thereafter.

10.2.4.1.10.2 Indicators of a Performance Measurement Schedule Inconsistent With the Contractual Schedule. Formal reprogramming or internal replanning may result in performance measurement milestones that are inconsistent with the contractual milestones (Over Target Schedule). A difference between the planned completion date (Block 5.j) and the contract completion date (Block

5.k) indicates that some or all of the performance measurement milestones are inconsistent with the contractual milestones. However, some performance measurement milestones may be inconsistent with contractual milestones even if these dates are the same.

10.2.4.1.11 Contract Completion Date. Enter in Block 5.k the contract scheduled completion date in accordance with the latest contract modification. The cost associated with the schedule from which this date is taken is the Contract Budget Base (Block 5.e of Format 3).

10.2.4.1.12 Estimated Completion Date. Enter the contractor's latest revised estimated completion date. This date should represent the estimated completion of all significant effort on the contract. The cost associated with the schedule from which this date is taken is the most likely management estimate at completion (Block 6.c.1 of Format 1).

10.2.4.2 Column (1) - Item.

10.2.4.2.1 Performance Measurement Baseline (Beginning of Period). Enter in Block 6.a the time-phased Performance Measurement Baseline (PMB) (including G&A) which existed at the beginning of the current reporting period. Most of the entries on this line are taken directly from the PMB (End of Period) line on the previous report. For example, the number in Column (4) on the PMB (End of Period) line from last month's report becomes the number in Column (3) on the PMB (Beginning of Period) line on this report. The number in Column (5) (end of period) last report becomes Column (4) (beginning of period) on this report, etc. This rule pertains through Column (9) where the time increments change from monthly to some other periods of time. At this point, a portion of Column (10) (end of period) would go into Column (9) (beginning of period) and the remainder of Column (10) (end of period) would go into Column (10) (beginning of period). Columns (11) through (16) simply move directly up to the (beginning of period) line without changing columns.

10.2.4.2.2 Baseline Changes. List by number in Block 6.b, the contract changes and supplemental agreements authorized during the reporting period. All authorized baseline changes should be listed whether priced or unpriced. The amount of management reserve applied during the period should also be listed.

10.2.4.2.3 Performance Measurement Baseline (End of Period). Enter in Block 6.c the time-phased PMB as it exists at the end of the reporting period. The difference between this line and the PMB (Beginning of Period) should represent the effects of the authorized changes and allocations of management reserves made during the period. Significant differences should be explained in Format 5 in terms of reasons for necessary changes to time-phasing due to internal replanning or formal reprogramming, and reasons for the application of management reserve.

10.2.4.2.4 Management Reserve. Enter in Block 7 the total amount of management reserve remaining as of the end of the reporting period. This figure will agree with the amounts shown as management reserve in Formats 1 and 2.

10.2.4.2.5 Total. Enter in Column (16) of Block 8 the sum of Column (16) of Block 6.c (PMB (End of Period)) and Column (16) of Block 7 (Management Reserve). This amount should be the same as that shown on the Total line (Block 8.g) in Column (14) on Format 1.

10.2.4.3 Column (2) - BCWS - Cum To Date. On the PMB (Beginning of Period) line (Block 6.a), enter the cumulative BCWS as of the first day of the reporting period. This should be the same number reported as BCWS - Cum To Date on the Total line (Column (7) of Block 8.g) of Format 1 of the previous CPR. On the PMB (End of Period) line (Block 6.c), enter the cumulative BCWS as of the last day of the reporting period. This should be the same number

reported as BCWS - Cum to Date on the Total line (Column (7) of Block 8.g) of Format 1 for this CPR.

10.2.4.4 Column (3) - BCWS For Report Period. On the PMB (Beginning of Period) line (Block 6.a), enter the BCWS planned for the reporting period. This should be the number in Column (4) on the PMB (End of Period) line (Block 6.c) on the preceding month's report.

10.2.4.5 Columns (4) Through (14). Enter the names of the next six months in the headings of Columns (4) through (9) of Block 6, and the names of the appropriate periods in the headings of Columns (10) through (14). In the PMB (Beginning of Period) line (Block 6.a), enter the BCWS projection reported in the previous CPR as PMB (End of Period) (Block 6.c). In the PMB (End of Period) line (Block 6.c) of this report, enter the projected BCWS (by month for six months and by periodic increments thereafter, or as negotiated with the procuring activity) for the remainder of the contract. The time-phasing of each item listed in Column (1) of Block 6.b need not be shown in Columns (4) through (14).

10.2.4.6 Column (15) - Undistributed Budget. On the PMB (Beginning of Period) line (Block 6.a), enter the number from Column (15) on the PMB (End of Period) line (Block 6.c) from the preceding report. On the PMB (End of Period) line, enter the undistributed budget shown in Column (14) of Block 8.d on Format 1 of this report.

10.2.4.7 Column (16) - Total Budget. On the PMB (Beginning of Period) line (Block 6.a) enter the number from Column (16) on the PMB (End of Period) line (Block 6.c) from the preceding report. In the section where baseline changes that occurred during the period are listed (Column (1) of Block 6.b), enter the amount of each of the changes listed. On the PMB (End of Period) line (Block 6.c), enter the sum of the amounts in the preceding columns on this line. On the Management Reserve line (Block 7), enter the amount of management reserve available at the end of the period. On the Total line (Block 8) enter the sum of the amounts in this column on the PMB (End of Period) line and the Management Reserve line. (This should equal the amount in Block 5.f on this format and also the amount of the Total line in Column (14), Block 8.g, of Format 1.)

10.2.5 Format 4 - Staffing.

10.2.5.1 Performance Data. For those organizational categories shown in Column (1) of Block 5, equivalent months will be indicated for the current reporting period, cumulative through the current period, and forecast to completion. Direct equivalent months will be shown for each organizational category for the contract. An equivalent month is defined as the effort equal to that of one person for one month. Figures should be reported in whole numbers. (Partial months, .5 and above, will be rounded to 1; below .5 to 0.) When the Government and the contractor agree, staffing may be reported in equivalent days or hours.

10.2.5.1.1 Organizational Category. List the organizational categories that reflect the contractor's internal management structure in Block 5. Format 4 categories may differ from those reported in Format 2. If the Government needs different categories in Formats 2 and 4, the Format 4 categories will be addressed during negotiations. (See 7.6.7 above.)

10.2.5.1.2 Total Direct. In Block 6, Columns (2) through (15), enter the sum of all direct equivalent months for the organizational categories shown in Column (1).

10.2.5.2 Column (2) - Actual - Current Period. Enter the actual equivalent months incurred during the current reporting period.

10.2.5.3 Column (3) - Actual End of Current Period (Cum). Enter the actual equivalent months incurred to date (cumulative) as of the end of the report period.

10.2.5.4 Columns (4) Through (14) - Forecast (Non Cumulative). Enter a staffing forecast by month for a six-month period following the current period and by periodic increment thereafter, as negotiated with the procuring activity (see 7.6.4 above). The forecast will be updated at least quarterly unless a major revision to the plan or schedule has taken place, in which case forecasts will be changed for all periods involved in the report submitted at the end of the month in which the change occurred.

10.2.5.5 Column (15) - Forecast at Completion. Enter the estimate of equivalent months necessary for the total contract in Column (15) by organizational category. This estimate should be consistent with the most likely management estimate at completion shown in Block 6.c.1 of Format 1. Any significant change in the total number of equivalent months at completion of the contract (i.e., Column (15) Total) should be explained in Format 5.

10.2.6 Format 5 - Explanations and Problem Analyses.

10.2.6.1 General. Format 5, Analyses and Explanations, is a narrative report prepared to supplement the other CPR formats. Format 5 will normally address 1) contractually required cost, schedule and estimate at completion variance analyses, 2) management reserve changes and usage, 3) undistributed budget contents, 4) differences between the best case, worst case, and most likely management estimate at completion, if any, 5) the difference between the most likely management estimate at completion and the estimate in Block 8.e of Column (15), if any, 6) significant differences between beginning of period PMB timephasing and end of period PMB timephasing in Format 3, 7) performance measurement milestones that are inconsistent with contractual milestones (Over Target Schedule), 8) formal reprogramming (Over Target Baseline) implementation details, and 9) significant staffing estimate changes in Format 4. However, any topic relevant to contract cost, schedule or technical performance can be addressed in this format.

10.2.6.2 Total Contract. Provide a summary analysis, identifying significant problems affecting performance. Indicate corrective actions required, including Government action where applicable. Significant changes since the previous report should be highlighted. Discuss any other issues affecting successful attainment of contract cost, schedule or technical objectives which the contractor deems significant or noteworthy. This section should be brief, normally one page.

10.2.6.3 Cost and Schedule Variances. Explain all variances which exceed specified variance thresholds. Explanations of variances must clearly identify the nature of the problem, significant reasons for cost or schedule variance, effect on the immediate task, impact on the total contract, and the corrective action taken or planned. Explanations of cost variances should identify amounts attributable to rate changes separately from amounts applicable to hours worked; amounts attributable to material price changes separately from amounts applicable to material usage; and amounts attributable to overhead rate changes separately from amounts applicable to overhead base changes or changes in the overhead allocation basis. To reduce the volume of variance analysis, the Government may allow the contractor to refer to a prior CPR's variance analysis explanations if the explanation for the current CPR's variance has not changed significantly.

10.2.6.3.1 Setting Variance Analysis Thresholds. The Government should require the minimum amount of variance analysis in Format 5 which satisfies its management information needs. Excessive variance analysis is burdensome and costly, and detracts from the CPR's usefulness, while too little information is equally undesirable. The contract should include a provision to review cost and schedule variance analysis thresholds periodically,

normally semiannually, to determine if they continue to meet the Government's information needs. If they do not, the thresholds should be changed at no cost to the Government.

10.2.6.3.2 Identifying Significant Variances. There is no prescribed basis for identifying which cost and schedule variances are to be explained in Format 5. The Government may specify any one of several ways to identify such variances, including, but not limited to the following:

10.2.6.3.2.1 Fixed Number of Variances. Specify a number of significant variances. These variances can be either current month, cumulative, or at-completion. Any number of significant variances may be selected, but the Government should be careful to select only the number that it feels are necessary.

10.2.6.3.2.2 Percentage or Dollar Thresholds. Select variances based on percentage or dollar thresholds. Significant schedule variances are identified based on their size or percentage to Budgeted Cost for Work Scheduled, and significant cost variances are identified based on their size or percentage to Budgeted Cost for Work Performed. For example, all current month, cumulative or at-completion variances greater than 10% or \$500K may be selected for analysis. This method usually results in a larger number of variances requiring reporting. Consequently, the thresholds should be reviewed periodically to ensure they continue to provide a reasonable amount of useful information.

10.2.6.3.2.3 Specific Variances. Select variances for analysis only after reviewing Formats 1 or 2. Under this method, the CPR is delivered promptly after the contractor's accounting period ends with all required information in Formats 1 through 5 except variance analyses. Once the Government has reviewed this performance data, it selects specific variances for analysis. This method may be the most efficient in that the Government can pinpoint areas to be analyzed. It is also the most flexible because there may be some months where a review of the performance data yields few or no variance analysis candidates. However, this method should only be used if the Government is certain it has sufficient resources to review the CPR early and select variances each month.

10.2.6.3.2.4 No Variance Analysis Thresholds Specified. If the contract does not specify variance analysis thresholds, the contractor will determine what significant variance explanations are reported. These explanations should focus on 1) areas where the Government should be informed of developing issues or problems, 2) areas of identified program risk or management interest, or 3) areas of significantly unfavorable cost or schedule performance.

10.2.6.4 Other Analyses. In addition to variance explanations, the following analyses are mandatory:

10.2.6.4.1. Management Estimate at Completion. If the best or worst case management estimates at completion differ from the most likely estimate, the contractor must provide a brief explanation of the difference. Also, if the most likely management estimate at completion differs from the total entered in Column 15 of Format 1 or 2, the contractor must explain the difference. The explanations should focus on such areas as differences in underlying assumptions; a knowledgeable, realistic risk assessment; projected use of management reserve; estimate for undistributed budget; and higher management knowledge of current or future contract conditions.

10.2.6.4.2 Undistributed Budget. Identify the effort to which the undistributed budget applies. Also, explain any variance between the undistributed budget and the estimate for undistributed budget in Formats 1 and 2.

10.2.6.4.3 Management Reserve Changes. Identify the sources and uses of management reserve changes during the reporting period. For management reserve uses, identify the WBS and organizational elements to which applied, and the reasons for application.

10.2.6.4.4 Baseline Changes. Explain reasons for significant shifts in time-phasing of the PMB shown on Format 3.

10.2.6.4.5 Staffing Level Changes. Explain significant changes in the total staffing estimate at completion shown on Format 4. Also, explain reasons for significant shifts in time-phasing of planned staffing.

10.2.6.5 Formal Reprogramming (Over Target Baseline). If the difference shown in Block 5.g on Format 3 becomes a negative value or changes in value, provide information on the following:

10.2.6.5.1 Authorization. Procuring activity authorization for the baseline change which resulted in negative value or change.

10.2.6.5.2 Reason. A discussion of the reason(s) for the change.

10.2.6.5.3 CPR Reporting. A discussion of how the change affected CPR reporting (i.e., amount allocated to management reserve, adjustments to cost or schedule variances, etc.).

10.2.6.5.4 Schedule. Indicate whether the contract schedule was retained for performance measurement or was replaced with a schedule that exceeds the contractual schedule (Over Target Schedule).

10.2.6.6 Over Target Schedule. If a performance measurement schedule exceeding the contractual schedule (Over Target Schedule) has been implemented, provide a discussion of the pertinent information, such as authorization, reasons and significant dates.

**COST PERFORMANCE REPORT
FORMAT 1 - WORK BREAKDOWN STRUCTURE**

DOLLARS IN _____

Form Approved
OMB No. 0704-0188

| | | | | | | | |
|-------------------------------------------|--|--------------------|--|-----------------------------------------------------------------------------------------------|--|-------------------------|--|
| 1. CONTRACTOR | | 2. CONTRACT | | 3. PROGRAM | | 4. REPORT PERIOD | |
| a. NAME | | a. NAME | | a. NAME | | a. FROM (YYMMDD) | |
| b. LOCATION (Address and ZIP Code) | | b. NUMBER | | b. PHASE (X one) <input type="checkbox"/> RDT&E <input type="checkbox"/> PRODUCTION | | b. TO (YYMMDD) | |
| | | c. TYPE | | | | d. SHARE RATIO | |

| | | | | | | | |
|-------------------------|---------------------------|----------------------------------------------|------------------------------|------------------------|---------------------------|----------------------------|--------------------------------------|
| 5. CONTRACT DATA | | | | | | | |
| a. QUANTITY | b. NEGOTIATED COST | c. EST. COST AUTHORIZED UNPRICED WORK | d. TARGET PROFIT/ FEE | e. TARGET PRICE | f. ESTIMATED PRICE | g. CONTRACT CEILING | h. ESTIMATED CONTRACT CEILING |

| | | | | | | | |
|----------------------------------------|----------------------------------------------|---------------------------------|---------------------|------------------------------------------------|--|-----------------|--|
| 6. ESTIMATED COST AT COMPLETION | | | | 7. AUTHORIZED CONTRACTOR REPRESENTATIVE | | | |
| | MANAGEMENT ESTIMATE AT COMPLETION (1) | CONTRACT BUDGET BASE (2) | VARIANCE (3) | a. NAME (Last, First, Middle Initial) | | b. TITLE | |
| a. BEST CASE | | | | c. SIGNATURE | | | |
| b. WORST CASE | | | | | | | |
| c. MOST LIKELY | | | | | | | |
| d. DATE SIGNED (YYMMDD) | | | | | | | |

| B. PERFORMANCE DATA | ITEM (1) | CURRENT PERIOD | | | | CUMULATIVE TO DATE | | | | | REPROGRAMMING ADJUSTMENTS | | AT COMPLETION | | | |
|---------------------|---------------------------------------------|--------------------|--------------------|----------------------------|----------|--------------------|--------------------|---------------|----------------------------|----------|---------------------------|--------------------|---------------|---------------|----------------|---------------|
| | | BUDGETED COST | | ACTUAL COST WORK PERFORMED | VARIANCE | | BUDGETED COST | | ACTUAL COST WORK PERFORMED | VARIANCE | | COST VARIANCE (12) | BUDGET (13) | BUDGETED (14) | ESTIMATED (15) | VARIANCE (16) |
| | | WORK SCHEDULED (2) | WORK PERFORMED (3) | SCHEDULE (5) | COST (6) | WORK SCHEDULED (7) | WORK PERFORMED (8) | SCHEDULE (10) | COST (11) | | | | | | | |
| a. | WORK BREAKDOWN STRUCTURE ELEMENT | | | | | | | | | | | | | | | |
| b. | COST OF MONEY | | | | | | | | | | | | | | | |
| c. | GENERAL & ADMINISTRATIVE | | | | | | | | | | | | | | | |
| d. | UNDISTRIBUTED BUDGET | | | | | | | | | | | | | | | |
| e. | SUBTOTAL (Performance Measurement Baseline) | | | | | | | | | | | | | | | |
| f. | MANAGEMENT RESERVE | | | | | | | | | | | | | | | |
| g. | TOTAL | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|--------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 9. RECONCILIATION TO CONTRACT BUDGET BASE | | | | | | | | | | | | | | | |
| a. VARIANCE ADJUSTMENT | | | | | | | | | | | | | | | |
| b. TOTAL CONTRACT VARIANCE | | | | | | | | | | | | | | | |

SAMPLE FORMAT 1 - WORK BREAKDOWN STRUCTURE

**COST PERFORMANCE REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES**

DOLLARS IN _____

Form Approved
OMB No. 0704-0188

| | | | | | | | |
|-------------------------------------------|--|--------------------|--|-----------------------------------------------------------------------------------------------|--|-------------------------|--|
| 1. CONTRACTOR | | 2. CONTRACT | | 3. PROGRAM | | 4. REPORT PERIOD | |
| a. NAME | | a. NAME | | a. NAME | | a. FROM (YYMMDD) | |
| b. LOCATION (Address and ZIP Code) | | b. NUMBER | | b. PHASE (X one) <input type="checkbox"/> RDT&E <input type="checkbox"/> PRODUCTION | | b. TO (YYMMDD) | |
| | | c. TYPE | | | | d. SHARE RATIO | |

| 5. PERFORMANCE DATA | ITEM (1) | CURRENT PERIOD | | | | CUMULATIVE TO DATE | | | | REPROGRAMMING ADJUSTMENTS | | AT COMPLETION | | | | |
|-------------------------------------------------------|-------------|--------------------|--------------------|-------------------------|--------------|--------------------|--------------------|--------------------|-------------------------|---------------------------|-----------|--------------------|-------------|---------------|----------------|---------------|
| | | BUDGETED COST | | ACTUAL | VARIANCE | | BUDGETED COST | | ACTUAL | VARIANCE | | COST VARIANCE (12) | BUDGET (13) | BUDGETED (14) | ESTIMATED (15) | VARIANCE (16) |
| | | WORK SCHEDULED (2) | WORK PERFORMED (3) | COST WORK PERFORMED (4) | SCHEDULE (5) | COST (6) | WORK SCHEDULED (7) | WORK PERFORMED (8) | COST WORK PERFORMED (9) | SCHEDULE (10) | COST (11) | | | | | |
| a. ORGANIZATIONAL CATEGORY | | | | | | | | | | | | | | | | |
| b. COST OF MONEY | | | | | | | | | | | | | | | | |
| c. GENERAL & ADMINISTRATIVE | | | | | | | | | | | | | | | | |
| d. UNDISTRIBUTED BUDGET | | | | | | | | | | | | | | | | |
| e. SUBTOTAL (Performance Measurement Baseline) | | | | | | | | | | | | | | | | |
| f. MANAGEMENT RESERVE | | | | | | | | | | | | | | | | |
| g. TOTAL | | | | | | | | | | | | | | | | |

SAMPLE FORMAT 2. ORGANIZATIONAL CATEGORIES PAGE 17 OF 20

**COST PERFORMANCE REPORT
FORMAT 3 - BASELINE**

DOLLARS IN _____

Form Approved
OMB No. 0704-0188

| | | | | | | | |
|-------------------------------------------|--|--------------------|--|-----------------------------------------------------------------------------------------------|--|-------------------------|--|
| 1. CONTRACTOR | | 2. CONTRACT | | 3. PROGRAM | | 4. REPORT PERIOD | |
| a. NAME | | a. NAME | | a. NAME | | a. FROM (YYMMDD) | |
| b. LOCATION (Address and ZIP Code) | | b. NUMBER | | b. PHASE (X one) <input type="checkbox"/> RDT&E <input type="checkbox"/> PRODUCTION | | b. TO (YYMMDD) | |
| | | c. TYPE | | | | d. SHARE RATIO | |

| | | | | | | |
|------------------------------------|---------------------------------------|---------------------------------------------|------------------------------------------------------|------------------------------------------|----------------------------------|--------------------------------|
| 5. CONTRACT DATA | | | | | | |
| a. ORIGINAL NEGOTIATED COST | b. NEGOTIATED CONTRACT CHANGES | c. CURRENT NEGOTIATED COST (a. + b.) | d. ESTIMATED COST OF AUTHORIZED UNPRICED WORK | e. CONTRACT BUDGET BASE (c. + d.) | f. TOTAL ALLOCATED BUDGET | g. DIFFERENCE (e. - f.) |

| | | | | |
|----------------------------------------|-------------------------------------------------|--------------------------------------------|---------------------------------------------|----------------------------------------------|
| h. CONTRACT START DATE (YYMMDD) | i. CONTRACT DEFINITIZATION DATE (YYMMDD) | j. PLANNED COMPLETION DATE (YYMMDD) | k. CONTRACT COMPLETION DATE (YYMMDD) | l. ESTIMATED COMPLETION DATE (YYMMDD) |
|----------------------------------------|-------------------------------------------------|--------------------------------------------|---------------------------------------------|----------------------------------------------|

| 6. PERFORMANCE DATA | | | | | | | | | | | | | | | |
|------------------------------------------------------------------|--------------------------------|-------------------------------|----------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-------------------------|------|------|------|------|-------------------------------|----------------------|
| ITEM (1) | BCWS CUMULATIVE TO DATE (2) | BCWS FOR REPORT PERIOD (3) | BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative) | | | | | | | | | | | UNDIS-TRIBUTED BUDGET (15) | TOTAL BUDGET (16) |
| | | | SIX MONTH FORECAST | | | | | | ENTER SPECIFIED PERIODS | | | | | | |
| | | | +1 (4) | +2 (5) | +3 (6) | +4 (7) | +5 (8) | +6 (9) | (10) | (11) | (12) | (13) | (14) | | |
| a. PERFORMANCE MEASUREMENT BASELINE (Beginning of Period) | | | | | | | | | | | | | | | |
| b. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD | | | | | | | | | | | | | | | |
| c. PERFORMANCE MEASUREMENT BASELINE (End of Period) | | | | | | | | | | | | | | | |
| 7. MANAGEMENT RESERVE | | | | | | | | | | | | | | | |
| 8. TOTAL | | | | | | | | | | | | | | | |

**COST PERFORMANCE REPORT
FORMAT 4 - STAFFING**

Form Approved
OMB No. 0704 0188

| | | | | | | | |
|-------------------------------------------|--|--------------------|--|-----------------------------------------------------------------------------------------------|--|-------------------------|--|
| 1. CONTRACTOR | | 2. CONTRACT | | 3. PROGRAM | | 4. REPORT PERIOD | |
| a. NAME | | a. NAME | | a. NAME | | a. FROM (YYMMDD) | |
| b. LOCATION (Address and ZIP Code) | | b. NUMBER | | b. PHASE (X one) <input type="checkbox"/> RDT&E <input type="checkbox"/> PRODUCTION | | b. TO (YYMMDD) | |
| | | c. TYPE | | | | | |

5. PERFORMANCE DATA (All figures in whole numbers)

| ORGANIZATIONAL CATEGORY (1) | ACTUAL CURRENT PERIOD (2) | ACTUAL END OF CURRENT PERIOD (Cumulative) (3) | FORECAST (Non-Cumulative) | | | | | | | | | | | AT COMPLETION (18) | | |
|---------------------------------------|----------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|-----|-----|-----|-----|-----|-------------------------|------|------|------|------|------------------------------|--|--|
| | | | SIX MONTH FORECAST BY MONTH (Enter names of months) | | | | | | ENTER SPECIFIED PERIODS | | | | | | | |
| | | | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | | | |
| | | | | | | | | | | | | | | | | |
| 6. TOTAL DIRECT | | | | | | | | | | | | | | | | |

SAMPLE FORMAT 4 STAFFING
 SUBJECT: 14-00000-ETAWAS

CONTRACTOR DATA REQUIREMENT LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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 Department of Defence, 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. | B. EXHIBIT A | C. CATEGORY: TDP _____ TM _____ OTHER <u>MISC</u> |
|---------------------------|-----------------|------------------------------------------------------|

| | | |
|--------------------------------------|--------------------|-----------------------------------|
| D. SYSTEM/ITEM NPOESS CONCEPT VAL | E. CONTRACT/PR NO. | F. CONTRACTOR TO BE DETERMINED |
|--------------------------------------|--------------------|-----------------------------------|

| | | |
|--------------------------|----------------------------------------------------------------------|-------------|
| 1. DATA ITEM NO. A014 | 2. TITLE OF DATA ITEM DESIGN-TO-COST/LIFE CYCLE COST AND VARIANCE | 3. SUBTITLE |
|--------------------------|----------------------------------------------------------------------|-------------|

| |
|-----------------|
| 17. PRICE GROUP |
|-----------------|

| | | |
|-----------------------------------------------------------------|-----------------------|----------------------------|
| 4. AUTHORITY (Data Acquisition Document No.) DI-FNCL-80449/T | 5. CONTRACT REFERENCE | 6. REQUIRING OFFICE ADA |
|-----------------------------------------------------------------|-----------------------|----------------------------|

| |
|---------------------------|
| 18. ESTIMATED TOTAL PRICE |
|---------------------------|

| | | | | | | |
|---------------|---------------------------------|--------------------------|---------------------------------------------|------------------|-----------|-------|
| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED C | 10. FREQUENCY BLK16 | 12. DATE OF FIRST SUBMISSION BLK 16 | 14. DISTRIBUTION | | |
| 8. APP CODE | | 11. AS OF DATE BLK 16 | 13. DATE OF SUBSEQUENT SUBMISSION BLK 16 | a. ADDRESSEE | b. COPIES | |
| | | | | | Draft | Final |
| | | | | | | Reg |
| | | | | | | Repro |

| | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|-----|-----|-----|
| 16. REMARKS 2 (cont) ANALYSIS REPORT 4 (cont) See attachment. 10,11,12,13 (cont) Data will be submitted 60 days prior to contract completion. *Distribution shall be one file transferred via the NPOESS Electronic Bulletin Board (EBB). Letter of transmittal (LT) to NPOESS (DMO) on each submittal. | NPOESS (DMO) | 0 | 1 | 0 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | 15. TOTAL -----> | 000 | 001 | 000 |

| | | | |
|----------------|---------|----------------|---------|
| G. PREPARED BY | H. DATE | I. APPROVED BY | J. DATE |
|----------------|---------|----------------|---------|

DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0188

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------|--------------------------|
| 1. TITLE Design-to-Cost/Life Cycle Cost and Variance Analysis Report | | 2. IDENTIFICATION NUMBER DI-FNCL-80449 | |
| 3. DESCRIPTION/PURPOSE 3.1 Report conveys to the government the contractor Design-to-Cost (DTC)/Life Cycle Cost (LCC) estimates. The data will be used to evaluate and establish design-to-unit production cost and Life Cycle Cost (LCC) goals; measure contractor performance toward meeting established DTC and LCC goals; identify and record DTC/LCC problems; and provide timely, reliable DTC information for use in evaluating proposed design, design-to-cost, and LCC changes. | | | |
| 4. APPROVAL DATE (YYMMDD) 870930 | 5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) F/AD/ACC | 6a. DTIC APPLICABLE | 6b. GIDEP APPLICABLE |
| 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 as delineated in the contract. 7.2 These reports are applicable for use on contracts of any size when the unit production and/or operational support costs are an important criteria in the cost effectiveness of the weapon system. These reports can be required at various levels of detail depending on the potential dollar savings to the Government in relation to the cost of data collection and analysis. <p style="text-align: right;">(Continued on Page 2)</p> | | | |
| 8. APPROVAL LIMITATION | | 9a. APPLICABLE FORMS | 9b. AMSC NUMBER F4225 |
| 10. PREPARATION INSTRUCTIONS 10.1 <u>Reference Documents</u> . The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments, notices, and reissues, shall be as specified in the contract. 10.2 <u>Content</u> . The Design-to-Cost/Life Cycle Cost and Variance Analysis Report shall include the following sections: 10.2.1 <u>Executive Summary</u> . The executive summary shall be limited to one page, briefly describing the program and stating the results and conclusions of the report. 10.2.2 <u>Table of Contents, List of Figures and List of Tables</u> . 10.2.3 <u>Introduction</u> . Brief description of the weapon system in terms of schedule phase, program requirements, etc. 10.2.4 <u>Groundrules and Assumptions</u> . This section shall describe key assumptions made in the costing of the system including quantities, schedule production rates, state of technology, program base year, inflation rates, hardware and software configuration. Also listed shall be: (1) items that are not included in the estimate, such as Government Furnished Equipment (GFE) or other items that make up the weapon system but are not under the contractor's control and (2) General and Administrative (G&A) and fee percentages. <p style="text-align: right;">(Continued on Page 2)</p> | | | |
| 11. DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited. | | | |

7. APPLICATION/INTERRELATIONSHIP (Cont'd)

7.3 This DID supersedes DI-F-30211.

10. PREPARATION INSTRUCTIONS (Cont'd)

10.2.5 Contract Work Breakdown Structure. This section shall list the Contract Work Breakdown Structure (WBS) down to the level as specified in the Statement of Work. If the WBS is not specified, the WBS used shall conform to the guidelines in MIL-STD-881.

10.2.6 Methodology. The methodology section shall include a discussion of the methods used to generate the cost estimate for each WBS element. Learning curve first unit cost, slopes and type of curve (unit or cumulative average) shall be stated along with backup information used to determine these parameters. This section shall make up the bulk of the report containing enough information to substantiate the entire estimate. Included shall be discussions of any analogies, why they are used, and how the actual costs were modified to fit the new components. If manhour buildups are used, discussions shall center on the rationale used for manloading levels.

10.2.7 Results. The results section shall contain the contractor's DTC estimate in base year dollars by the WBS listed in the assumption section. All costs should be fully burdened with overhead, G&A and fee in base year dollars. The costs shall be shown for all phases of the program, i.e., Validation, Full-Scale Engineering Development (FSED), Production, and Operations and Support (O&S) unless otherwise specified. Actual cost shall be used upon phase completion. In addition, a summary level time phased estimate shall be submitted for Research and Development (R&D) and production.

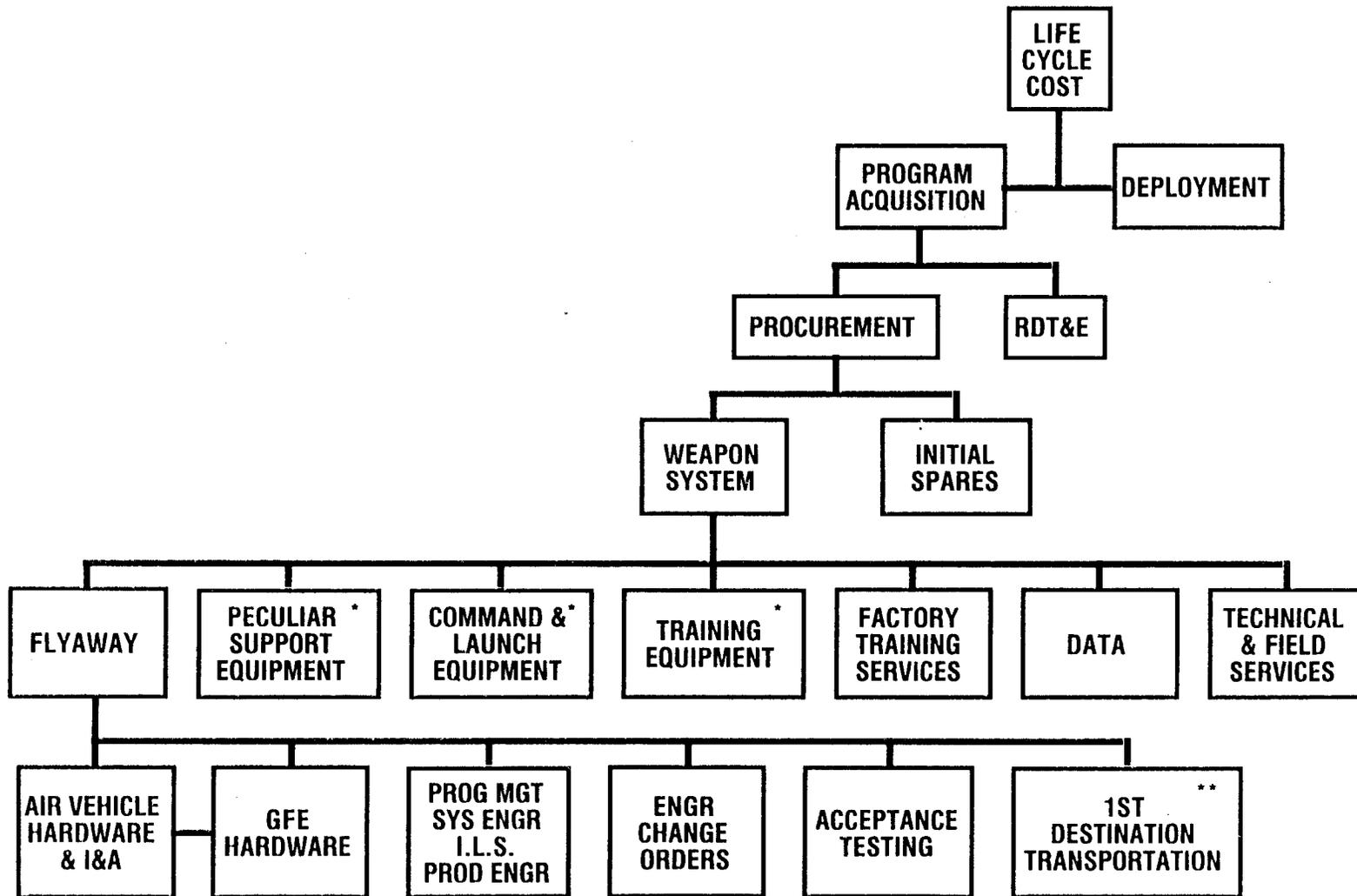
10.2.8 Conclusion. This section shall include cost of alternative designs, trade studies, pending engineering changes, and accuracy or confidence levels of the results section.

10.2.9 Variance. This section shall identify changes from the previous report using the same WBS as the remainder of the report and discussing the reason for each change. Categories of changes include changes in program due to design, updates of estimates, quantity changes, and schedule updates. Identify specifically what changed since the last report and why. An example would be an estimating change in learning curve slope from 90% to 92% based on actual data for the first several lots of this program.

10.3 Breakout of LCC and Variance Report Example. A breakout of LCC is provided in figure 1 and an example of variance report is presented in Figure 2.

10.4 Security Classification. Report is to be unclassified where possible. If classified information must be included, it shall be placed in a separate annex. Exception would be those cases where the report would make no sense if the classified information were removed.

10.5 Format. Reports shall be of reproducible quality on either 8"x10 1/2" or 8 1/2"x11" bond paper. Foldouts shall be kept to a minimum, but are desired for schedule and funding spread diagrams where the larger size is needed for readability.



* INCLUDES DESIGN, TOOLING, TEST EQUIPMENT, HARDWARE FABRICATION, UNIT ACCEPTANCE, AND I&A.

**INCLUDED UNLESS A SEPARATE BUDGET LINE ITEM.

FIGURE 1. LCC BREAKOUT

DESIGN-TO-COST VARIANCE REPORT

| CONTRACT DTC WORK BREAKDOWN STRUCTURE | | | | | | | PROGRAM | CONTRACT NO. | | DTC REPORT AS OF: | DATE PREPARED: | | | | | | | |
|---------------------------------------|--------------------------------|---|---|---|---|---|----------------------------|---------------------------|--------------------------------|------------------------------|-------------------------------|-------------------------------|-------------|-----------------|-----------------|--|--|--|
| WBS CODE | WORK BREAKDOWN STRUCTURE LEVEL | | | | | | ORIGINAL DTC GOAL NOTE (a) | CURRENT DTC GOAL NOTE (b) | PREVIOUS DTC ESTIMATE NOTE (c) | LATEST DTC ESTIMATE NOTE (d) | DTC VARIANCE (c - d) NOTE (e) | DESIGN GOAL VARIANCE NOTE (f) | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | | | | | | WEIGHT | RELIABILITY | MAINTAINABILITY | LIFE CYCLE COST | | | |
| | | | | | | | | | | | | | | | | | | |

- NOTES:**
- (a) ORIGINAL DTC GOAL: BASELINE DESIGN-TO-COST GOAL AT INCEPTION OF FSD CONTRACT
 - (b) CURRENT DTC GOAL: BASELINE DESIGN-TO-COST GOAL UPDATED FOR SUCH THINGS AS ENGINEERING CHANGES, REALLOCATION DUE TO DESIGN, SCHEDULE, ETC.
 - (c) PREVIOUS DTC ESTIMATE: CONTRACTOR'S LAST REPORTED ESTIMATE REFLECTING "THEN" CURRENT DESIGN STUDIES
 - (d) LATEST DTC ESTIMATE: CONTRACTOR'S LATEST DESIGN TO ESTIMATE BASED ON CURRENT DESIGNS, LOGISTICS REQUIREMENTS, SCHEDULE, ETC
 - (e) DTC VARIANCE: COST DIFFERENCE BETWEEN PREVIOUS DTC ESTIMATE (c) AND CONTRACTOR'S LATEST DTC ESTIMATE
 - (f) DESIGN GOAL VARIANCE: INDICATE VARIANCE IN THOSE ELEMENTS AFFECTED BY DESIGN CHANGES FROM PREVIOUSLY REPORTED DESIGN REPORTS HAVING AN EFFECT (+/-) ON WEIGHT, RELIABILITY, MAINTAINABILITY, AND/OR LIFE CYCLE COST

FIGURE 2. Sample Variance Report

CDRL A014

4 (cont)

Preparation Instructions, Part II - Cost Data--this section replaces the Preparation Instructions section of the DID:

1. The Design to Cost/Life Cycle Cost Report shall be a stand-alone document. All pertinent schedules, study results, etc., shall be included as a part of this document. The Life Cycle Cost Estimate (LCCE) shall be clearly documented to allow an independent analyst to assess the reasonableness of the costs presented.
2. Costs shall be based on procurement quantities necessary to meet the operational life of the program, and shall include all future phases of the program--Engineering Manufacturing & Development, Production, and Operations & Support. The costs shall be displayed in both fiscal year dollars and then year dollars, to include overhead, general and administrative expense, and estimated fee or profit as applicable.
3. The estimate shall be organized by WBS element.
4. The LCC shall be presented at the 70th Percentile Confidence level. The cost-risk analysis supporting the development of this 70th percentile level shall utilize valid techniques and acceptable statistical approaches to distribution range development and summarization. This cost-risk analysis will be fully documented, to include narratives explaining all methodologies used to determine risk magnitudes, translations of risk magnitudes into cost impacts and spreadsheets or other electronic formats containing calculations, algorithms, etc. that fully support an understanding of the performance of the cost-risk analyses. This cost-risk analysis shall support and be identifiable to the cost estimates. The cost-risk analysis shall include but is not limited to the following areas of risk: **Design and Engineering, Technology, Cost Estimating, Manufacturing, Schedule, Supportability, Integration and Threat**. Cost risk quantification shall be performed and developed at the system, system segment, subsystem, component and/or estimating level as appropriate. (If the quantification is performed at a level above that of the estimating level, explain the rationale for that selection.) Ranges and distributions due to cost-risk considerations shall be developed at these levels: All areas of risk shall be summarized and combined in a statistically correct manner to provide a summary level distribution for total system life cycle cost from which the 70th percentile cost shall be derived. (See AF Risk Analysis Handbook, Vol. 1: Cost Risk; and Cost-Risk Identification and Management System (CRIMS) manual for acceptable methodologies. Available from SMC/FMC Cost Library @ (310)336-0131.)
5. The LCC Estimate documentation shall be prepared as follows:

- I. Executive Summary (Ten Pages maximum)

1. Total Estimate/Purpose
 - No more than one page that discusses how this estimate was prepared
 - Bottom line total value of the estimate at the 70th percentile confidence level in Then Year dollars.
2. Estimate Summary and Time Phasing
 - Top level estimate summary (i.e., by major segment: launch vehicle, space segment, C3, IDPS, etc) and phase (i.e. EMD, Production, & O&S)
 - Point Estimate (i.e., the sum of initial estimates from cost models/methodologies, prior to any dollars added to them for risk impacts), ranges, and 70th percentile confidence estimate.
 - Phased in Base Year (BY) and Then Year (TY) dollars (use the latest OSD inflation rates and tables).
3. Issues/Content
 - Discuss program and estimate contents at government WBS level or lower levels as deemed appropriate.
 - Program Schedule
 - Major Factors Bearing on Estimate
 - Cost drivers (i.e. high cost elements of estimate, Risk Drivers, etc.)
 - Business base considerations
 - Trade analyses
 - Describe Risk Drivers with respect to (but not limited to) the following uncertainty category risk areas: Design and Engineering, Technology, Manufacturing, Schedule, Cost Estimating, Integration, Supportability, and Threat
 - Key ground rules and assumptions
 - Sensitivities
4. Programmatic Alternatives
 - Solutions to issues addressed in Section 3 above.
 - Sensitivity Analyses/Excursions (e.g., changes in the estimate due to changes in major cost drivers and risk drivers).

II. Detailed Documentation

A. Overview

1. Purpose of Estimate
2. Name and telephone number of point of contact for the Life Cycle Cost Estimate.
3. Description of program
4. Scope of Estimate
5. Major cost factors bearing on the estimate
6. Risk areas assessments: Describe Risk Drivers with respect to (but not limited to) the following uncertainty category risk areas: Design and Engineering, Technology, Manufacturing, Schedule, Cost Estimating, Integration, Supportability, and Threat.
7. Program schedule
8. Ground rules and assumptions: This section shall describe key assumptions made in the costing of the system including quantities, schedule production rates, state of technology, hardware and software configuration. Also listed shall be: (1) items that are not included in the estimate, and (2) General and Administrative (G&A) and fee percentages.
9. The Overview will contain a bottom line total value of the estimate in Then Year dollars and a phased total estimate in Then Year dollars by acquisition phase (i.e. EMD, Production, and O&S)
10. The Overview shall describe the Summary and Detailed WBS section. It will describe how the Summary and Detailed WBS section is organized by life cycle phase. The Overview will continue by describing the detailed spreadsheets in the Summary and Detailed WBS section. The detailed spreadsheets will show estimates down to the lowest level, (no higher than the lowest Government WBS level), and all calculations will be provided on hard copies or in electronic format (MS-Excel 5.0 on 3.5" floppy disks).
 - All spreadsheets will be traceable to the documentation so as to ensure the reviewers ability to replicate the estimates as described.

B. Summary and Detailed WBS Content.

1. The estimate will be performed at the Government WBS level. The content of the estimate shall be consistent with the Government WBS dictionary.
2. Each level shall contain:
 - an acquisition phase identification
 - a phasing approach explanation
 - a phased estimate by year in program Base Year (BY) and Then Year (TY) dollars
 - a phased estimate by year for a To Complete (TC) category in program Base Year (BY) and Then Year (TY) dollars
 - an estimating approach explanation
 - a risk assessment explanation
 - an identification of sources of data
 - all estimates use the latest OSD inflation rate tables
3. Estimating approaches will be presented at all levels. "Roll-up" is acceptable as a description of the methodology if the level was not the level at which the estimate was accomplished. If the estimate was performed below the level of the Government WBS, then the explanation of lowest level of the Government WBS can be a detailed summary explanation of all lower level WBS element estimating methodologies. The detailed WBS documentation content includes the WBS name and number, the acquisition phase, the estimating approach, risk assessment (if done at that level), and source of data.
 - The fiscal years for the beginning of each phase are identified.
 - The lower level WBS element estimates are identified in FY and TY dollars as totals for EMD, Production, and O&S phase categories.

- A detailed basis of estimate is provided for each of the lower level WBS elements and includes the following: logical, sequential development of the estimate, cost quantification of risk, methodology, logic and rationales, and source/use/limitations of data utilized in derivation of the estimates.
 - Calculations/steps are presented and pointers are used to highlight calculations/steps not done at these detail levels (e.g., cost quantification of risk) to identify at what levels they were performed.
 - "Risk assessment performed at lower level" is an acceptable explanation if cost quantification of risk was performed at lower levels of the WBS. However, cost quantification of risk is described in detail at the WBS levels where the risk assessment was performed.
 - The detailed spreadsheets will show estimates down to the lowest level, and all calculations will be provided on hard copies and in electronic format (MS-Excel 5.0, 3.5" floppy disks)
 - The detailed spreadsheets will be traceable to the documentation so as to enable the reviewers to replicate the estimates as described.
4. The lower level WBS element estimating methodologies contain the estimating approaches used, such as analogies, parametrics, factors, allocation schemes, learning curves, first unit cost, slopes and type of curve (unit or cumulative average) cost-risk techniques, etc. Justify the use of all factors, models, tools, formulas, etc. Enable an independent estimator to replicate the estimate as described,
 5. Key cost drivers are summarized at the lowest WBS level.
 6. Global pointers are used to identify where explanations for risk, key drivers, estimating approaches, etc., are described if the explanations are not described at the level currently being discussed.