1610

NPIC DATA SYSTEM

DATA AND CONTROL SEGMENT

ACQUISITION PHASE

APPENDIX B1
STATEMENT OF WORK*

| Proposal in Response to RFP 82-B-015 | STAT |
|---|------|
| | STAT |
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* Includes Subcontractor SOWs

24 February 1982

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NPIC DATA SYSTEM DATA AND CONTROL SEGMENT ACQUISITION PHASE

APPENDIX B1
STATEMENT OF WORK*

| Proposal in Response to RFP 82-B-015 | STAT |
|--|--|
| 24 February 1982 | |
| This data, furnished in connection with Request for Proposal 82-B-015 as amended, closed outside the Government and shall not be duplicated, used, or disclosed in white the proposal. If a contract is awarded to this offer in connection with the submission of this data, the Government shall have the rights, or disclose the data to the extent provided in the contract. This restriction do Government's right to use information contained in the data if it is obtained from without restriction. | ole or in part for ror as a result of tht to duplicate, the not limit the |
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Appendix B1

D/C SEGMENT STATEMENTS OF WORK

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|----|-----------------|--------------|------|
| 2. | 5.0.W. for the | subcontract. | STAT |
| 3. | S.O.W. for the | subcontract. | STAT |
| 4. | S.O.W. for the | subcontract. | STAT |

The Contract S.O.W. was prepared in accordance with the Government Work Breakdown Structure (GWBS) as shown in Section 3.3 of the RFP and the Contract Deliverables Requirements List (CDRL) as shown in Section 3.4 of the RFP. The S.O.W. specifically references the GWBS and explicitly allocates the preparation of the CDRL items to specific S.O.W. tasks. The Contract S.O.W. defines the program structure in sufficient scope and depth to meet the requirements stated in Section 3.2 (Applicable Documents) of the RFP in accordance with the milestones stated in those documents.

Also included in this volume are an updated Contract Work Breakdown Structure and an updated CDRL.

Approved For Release 2007/09/06: CIA-RDP84T00037R000500040001-2

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DATA AND CONTROL (D/C)
SEGMENT ACQUISITION PHASE
STATEMENT OF WORK

24 FEBRUARY 1982

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Section 1

INTRODUCTION

1.1 OBJECTIVE

The objective of the NPIC Development Program's Data and Control (D/C) Segment is on schedule and within cost procurement of a replacement system for the existing NPIC Data System.

1.2 SCOPE

This Statement of Work (SOW) is for the analysis, design, development, testing, integration, transition, and maintenance of the D/C Segment portion of the NPIC Development Program. This SOW is prepared in accordance with the Government Work Breakdown Structure (GWBS) and the Contract Data Requirements List (CDRL). The SOW references specifically the GWBS and allocates specifically the preparation of CDRL items to specific SOW tasks.

1.3 BACKGROUND

The NDP Program Implementation Directive (PID) (S7001) shall serve as specific definition of the development process within the NPIC Development Program Office (NDPO) to which the SOW is responsive, including general scope of development documentation.

Key milestones are:

| 1. | Interprogram Demonstration | April 1984 |
|-----|---|-----------------|
| 2. | Interface Changes | May 1984 |
| 3. | Basic Operational Capability (BOC) Transition | October 1984 |
| 4. | Initial Operational Capability (IOC) | July 1985 |
| 5. | Full Operational Capability (FOC) | July 1987 (TBR) |
| B00 | | |

BOC is defined to be the conclusion of the FY84 upgrade. IOC is defined to be that capability which will meet the FY85 requirements. FOC is defined to be that capability which will meet the FY87 requirements.

1.4 GOVERNMENT D/C SEGMENT MANAGEMENT

Government responsibility for the development and integration of the D/C Segment rests with the Associate Director of NPIC. The Contracting Officer's Technical Representative is the D/C Segment Manager.

The operation and maintenance of the operational capability delivered by the D/C Segment shall be the responsibility of the NPIC operational components.

The System Integration (SI) Contractor will assist the NDPO in monitoring and evaluating contractor progress and results and shall be responsible for integrating the D/C Segment into the NDP System. The SI will not have the right of technical direction, nor will they have access to contractor cost and accounting data. The SI will participate in technical inter-changes and will assist the NDPO in monitoring contractor tests and will therefore require access to all technical information made available to the government.

1.5 CONTRACT WORK BREAKDOWN STRUCTURE (CWBS)

The CWBS is attached to this SOW as Annex A.

1.6 CONTRACT DATA REQUIREMENTS LIST (CDRL)

The updated CDRL is attached to this SOW as Annex B.

Section 2

APPLICABLE DOCUMENT

| Document No. | Identification | Date Current |
|--------------|--|--------------|
| | NDP Master Schedule | 19 Oct 81 |
| | NDPO Security Guide | 1 Apr 81 |
| S7001 | NPIC Program Implementation Directive (Draft) | 30 Mar 81 |
| UNC-133-81 | Data Requirements Description Forms Appendix 10.1, S7001 | 12 Oct 81 |
| S7002 | Systems Operations Concept | 1 Oct 81 |
| S7400 | Data and Control (D/C) Segment Preliminary Specification | 22 Dec 81 |
| ICD IF70304 | Preliminary C/I To D/C ICD | 20 Nov 81 |
| ICD IF70405 | Preliminary D/C To E/R ICD | 20 Nov 81 |
| ICD IF70204 | Preliminary D/C To C/S ICD | 20 Nov 81 |

Section 3

SUPPLIES/SERVICES

The Contractor shall furnish the necessary personnel, materials, equipment, and services required to accomplish the development of the D/C Segment in accordance with the requirements of this SOW. The Supplies/Services to be provided shall be as follows:

| ITEM NO. | SUPPLIES/SERVICES | REFERENCE |
|----------|--|------------------------------|
| 0001 | Project Management | As specified in Section 4.1 |
| 0002 | System Engineering | As specified in Section 4.2 |
| 0003 | Software Development - BOC | As specified in Section 4.3 |
| 0004 | Software Development - IOC | As specified in Section 4.4 |
| 0005 | Software Development - FOC | As specified in Section 4.5 |
| 0006 | Hardware Development - BOC | As specified in Section 4.6 |
| 0007 | Hardware Development - IOC | As specified in Section 4.7 |
| 0008 | Hardware Development - FOC | As specified in Section 4.8 |
| 0009 | Automated Data Processing Equipment (ADPE) (Hardware and Software) | As specified in Section 4.9 |
| 0010 | Test and Verification - BOC | As specified in Section 4.10 |
| 0011 | Test and Verification - IOC | As specified in Section 4.11 |
| 0012 | Test and Verification - FOC | As specified in Section 4.12 |

| ITEM NO. | SUPPLIES/SERVICES | REFERENCE |
|----------|--|------------------------------|
| 0013 | Installation, Checkout and Test - BOC | As specified in Section 4.13 |
| 0014 | Installation, Checkout and Test - IOC | As specified in Section 4.14 |
| 0015 | Installation, Checkout and Test - FOC | As specified in Section 4.15 |
| 0016 | Development and Test Facility | As specified in Section 4.16 |
| 0017 | Training | As specified in Section 4.17 |
| 0018 | Operations and Maintenance | As specified in Section 4.18 |

Section 4

DESCRIPTION OF ITEMS

This section describes the items specified in Section 3 of this SOW. The GWBS numbers follow each task title. Deliverable data which will be generated during compliance with the SOW are identified by Contract Data Requirements List (CDRL) reference number as contained in the Government's RFP 82-B-015 dated January 4, 1982.

4.1 PROJECT MANAGEMENT (GWBS 4.1)

4.1.1 Project Management (GWBS 4.1.1)

The Contractor shall provide the project organization and management to satisfy the requirements of this SOW. The management function shall include project planning, project staffing, interface with NDPO, personnel and property management. A Contract Work Breakdown Structure (CWBS), CDRL No. 101, shall be prepared by the Contractor.

A Financial Plan, CDRL No. 102, shall be prepared by the Contractor to depict the negotiated contract and subsequent negotiated changes thereto. When and if a major revision of the Plan is required, the Contractor shall revise the Plan and the new Plan shall be approved by the Government.

A Master Schedule, CDRL No. 103, shall be prepared and updated as required by the Contractor.

The Contractor shall prepare a SOW Update, CDRL No. 107.

4.1.2 Project Control (GWBS 4.1.2)

The Contractor shall provide a project control function to monitor, control and report project cost and schedule status.

A mechanism shall be provided for early detection and resolution of cost, schedule or technical problems. The contractor shall provide status data to the NDPO schedule system. Action item status shall be provided to the NDP action item system.

The Contractor shall prepare Monthly Financial Reports, CDRL No. 109. The Contractor shall also prepare Milestone Updates, CDRL No. 110, Milestone Reports, CDRL No. 111, and Quarterly Progress and Status Reports, CDRL No. 113.

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4.1.3 Quality Assurance (GWBS 4.1.3)

The Contractor shall provide a D/C Segment Quality Assurance Plan, CDRL No. 108, and shall implement the Quality Assurance Plan for the contractor line items of Section 3 of this Statement of Work. The Contractor shall ensure subcontractor quality assurance. The Contractor shall provide Quality Assurance Audit reports, CDRL No. 149.

4.1.4 Configuration Management (GWBS 4.1.4)

The Contractor shall provide configuration management of hardware, software, procedures and documentation in accordance with NDPO and Contractor configuration management plans. The Contractor shall prepare and maintain the D/C Segment Configuration Management Plan, CDRL No. 106, and related CM procedures. The Contractor shall administer the Contractor Configuration Control Board. The Contractor shall prepare Engineering Change Proposals, Requests for Change, and other CM related documents. The Contractor shall provide master product and document control. The Contractor shall prepare the Software Version Description Document, CDRL No. 152.

4.1.5 Security (GWBS 4.1.5)

The Contractor shall prepare the project Security Plan and Security Procedures, CDRL No. 105. The Contractor shall implement the security procedures on the D/C Segment project.

4.1.6 Status Reviews (GWBS 4.1.6)

The Contractor shall provide monthly status reviews, CDRL No. 112. The monthly status reviews shall address cost and status, progress, plans and other issues as necessary. Each third review shall include an in-depth financial review. The Contractor shall provide an Action Item List, CDRL No. 114, after each review.

4.1.7 Subcontractor Management (GWBS 4.1.7)

The Contractor shall provide management and control of subcontractors. The Contractor shall provide sponsor visibility into subcontractor status and progress.

4.1.8 Document Publication and Control (GWBS 4.1.8)

The Contractor shall provide publication and maintenance of D/C Segment project documentation developed by the Contractor in accordance with the Contract Data Requirements List (CDRL) Annex A herein. The Contractor shall provide the Accession List, CDRL No. 156.

4.2 SYSTEM ENGINEERING (GWBS 4.2)

4.2.1 System Engineering Management (GWBS 4.2.1)

The Contractor shall provide technical management of the project and shall provide and enforce Software-Operations-Hardware Interface Standards, CDRL No. 118. The Contractor shall prepare the Segment Development Plan, CDRL No. 104, which shall address system engineering, software development and hardware development.

4,2.2 Analysis (GWBS 4.2.2)

The Contractor shall perform the following tasks:

- a. Provide requirements analysis and traceability
- b. Prepare the Requirements Traceability and Verification Matrix, CDRL No. 119.
- c. Provide performance analysis
- d. Provide RMA analysis
- e. Prepare the Segment Design Analysis Report, CDRL No. 122.
- f. Accomplish trade studies
- g. Provide engineering specialties as required
- h. Provide support to intersegment interface definition and requirements determination
- i. Prepare engineering Technical Notes, CDRL No. 120
- j. Perform Technical Performance Measurements, CDRL No. 155.

4.2.3 Operations Engineering and Development (GWBS 4.2.3)

The Contractor shall develop Segment Operations Concepts, CDRL No. 116, procedures and specifications. The Contractor shall provide the Segment Operations Specification, CDRL No. 133. The Contractor shall develop User Manuals, CDRL No. 135, and Segment/System Operators Manuals, CDRL No. 136. The Contractor shall conduct productivity enhancement studies and incorporate concepts and design. The Contractor shall prepare an Operations and Maintenance Plan, CDRL No. 123, and a Maintenance and Logistics Plan, CDRL No. 124.

4.2.4 Design (GWBS 4.2.4)

The Contractor shall provide requirements allocation and shall prepare the Segment Design Specification, CDRL No. 117. The Contractor shall provide the Data Base Specification, CDRL No. 125. The Contractor shall develop the following Interface Specifications:

- a. Operations/Software Interface Specification, CDRL No. 126
- b. Operations/Hardware Interface Specification, CDRL No. 127
- c. Hardware/Software Interface Specification, CDRL No. 128
- d. Software/Software Interface Specification, CDRL No. 129

4.2.5 Transition and Integration Planning and Support (GWBS 4.2.5)

The Contractor shall develop the Segment Transition and Integration Plan, CDRL No. 115.

4.2.6 Test Support (GWBS 4.2.6)

The Contractor shall prepare the Segment Verification Plan, CDRL No. 121, and the Segment Test Plan, CDRL No. 130. The Contractor shall support preparation of Government test plans and procedures and shall support the execution and evaluation of tests.

4.2.7 Configuration Management Support (GWS 4.2.7)

The Contractor shall evaluate proposed changes and shall provide change request impact analysis. The Contractor shall provide interface control.

4.2.8 Technical Reviews (GWBS 4.2.8)

The Contractor shall provide segment technical reviews (SDR, PDR, CDR) and shall provide an Action Item List, CDRL No. 114, after each review and shall provide action item follow-up.

4.3 SOFTWARE DEVELOPMENT - BOC (GWBS 4.3)

4.3.1 Software Development Management-BOC (GWBS 4.3.1)

The Contractor shall manage all software development activities. The Contractor shall provide the Segment Programming Practices, Standards and Conventions, CDRL No. 132, and shall enforce program design, coding and test practices, standards, and conventions. The Contractor shall provide the software development inputs to the Segment Development Plan, CDRL No. 104.

4.3.2 Computer Program Configuration Items-BOC (GWBS 4.3.2)

The Contractor shall design, develop, test and document the Computer Program Configuration Items identified in the Segment Design Specification. At least one CPCI must be identified to contain exclusively that software which will support the Integrated Work Station.

4.3.2.1 CPCI Preliminary Design-BOC (GWBS 4.3.2.1)

The Contractor shall accomplish preliminary CPCI design and shall prepare Part I Specifications, CDRL No. 141, and Preliminary Design Part II Specifications, CDRL No. 142, for each CPCI. The Contractor shall prepare the Data Dictionary, CDRL No. 145. The Contractor shall conduct internal design reviews.

4.3.2.2 CPCI Critical Design-BOC (GWBS 4.3.2.2)

The Contractor shall accomplish detailed CPCI design and shall prepare "build to" detailed Part II Specifications, CDRL No. 142, and shall conduct internal design reviews.

4.3.2.3 CPCI Development-BOC (GWBS 4.3.2.3)

The Contractor shall code and unit test and shall prepare "as built" detailed Part II Specifications, CDRL No. 142.

4.3.2.4 CPCI Test-BOC (GWBS 4.3.2.4)

The Contractor shall conduct qualification tests at the CPC and CPCI levels from Contractor developed software test procedures. The Contractor shall prepare CPCI test reports.

4.3.2.5 CPCI Documentation-BOC (GWBS 4.3.2.5)

The Contractor shall prepare CPCI inputs to User Manuals, CDRL No. 135, Operator Manuals, CDRL No. 136, the Data Base Administration Manual, CDRL No. 137, and Training Manuals, CDRL No. 146. The Contractor shall prepare Programmers' Manuals, CDRL No. 138. The Contractor shall provide CPCI Listings (as built), CDRL No. 150. The Contractor shall provide Data Base Packages, CDRL No. 151.

4.4 SOFTWARE DEVELOPMENT - IOC (GWBS 4.4)

The Contractor shall develop software for IOC and shall perform software development tasks as defined in Section 4.3 of this SOW. In IOC, the software development tasks are:

- 4.4.1 Software Development Management-IOC (GWBS 4.4.1)
- 4.4.2 CPCIs-IOC (GWBS 4.4.2)
- 4.4.2.1 CPCI Preliminary Design-IOC (GWBS 4.4.2.1)
- 4.4.2.2 CPCI Critical Design-IOC (GWBS 4.4.2.2)
- 4.4.2.3 CPCI Development-IOC (GWBS 4.4.2.3)
- 4.4.2.4 CPCI Test-IOC (GWBS 4.4.2.4)
- 4.4.2.5 CPCI Documentation-IOC (GWBS 4.4.2.5)
- 4.5 SOFTWARE DEVELOPMENT-FOC (GWBS 4.5)

The Contractor shall develop software for FOC and shall perform software development tasks as defined in Section 4.3 of this SOW. For FOC, the software development tasks are:

4.5.1 Software Development Management-FOC (GWBS 4.5.1)

- 4.5.2 CPCIs-FOC (GWBS 4.5.2)
- 4.5.2.1 CPCI Preliminary Design-FOC (GWBS 4.5.2.1)
- 4.5.2.2 CPCI Critical Design-FOC (GWBS 4.5.2.2)
- 4.5.2.3 CPCI Development-FOC (GWBS 4.5.2.3)
- 4.5.2.4 CPCI Test-FOC (GWBS 4.5.2.4)
- 4.5.2.5 CPCI Documentation-FOC (GWBS 4.5.2.5)
- 4.6 HARDWARE DEVELOPMENT-BOC (GWBS 4.6)
- 4.6.1 Hardware Development Management-BOC (GWBS 4.6.1)

The Contractor shall manage all hardware development and shall set and maintain hardware design, fabrication, and test practices, standards, inputs to the Segment Development Plan, CDRL No. 104.

4.6.2 Configuration Items (CI)-BOC (GWBS 4.6.2)

The Contractor shall design, develop, test and document the Configuration Items identified in the Segment Design Specification. At least one CI must be the Integrated Work Station. Commercial user terminals procured and subsequently modified shall be considered a unique CI with all modifications to that terminal reflected within this CI element.

4.6.2.1 CI Preliminary Design-BOC (GWBS 4.6.2.1)

The Contractor shall accomplish preliminary configuration item design and prepare a CI Specification, CDRL No. 143, and a Preliminary Component Specification, CDRL No 144. The Contractor shall conduct internal design reviews and accomplish preliminary design of commercial product modifications.

4.6.2.2 CI Critical Design-BOC (GWBS 4.6.2.2)

The Contractor shall accomplish detailed design of configuration items and prepare "build to" Component Specifications, CDRL No. 144. The Contractor shall conduct internal design reviews and shall accomplish critical design of commercial product modifications.

4.6.2.3 CI Development-BOC (GWBS 4.6.2.3)

The Contractor shall accomplish fabrication of all manufactured hardware and modification of commercial products. The Contractor shall prepare "as built" Component Specifications, CDRL No. 144.

4.6.2.4 CI Test-BOC (GWBS 4.6.2.4)

The Contractor shall prepare hardware test procedures and test all hardware at component and CI levels prior to integration.

4.6.2.5 CI Documentation-BOC (GWBS 4.6.2.5)

The Contractor shall prepare Equipment Operation and Maintenance Manuals, CDRL No. 148. The Contractor shall prepare CI inputs to Segment/Syste Operations Manuals, CDRL No. 136, and User Manuals, CDRL No. 135, and prepare CI inputs to Training Manuals, CDRL No. 146.

4.7 HARDWARE DEVELOPMENT-IOC (GWBS 4.7)

The Contractor shall develop hardware for IOC and shall perform hardware development tasks as defined in Section 4.6 of this SOW. For IOC, the hardware development tasks are:

- 4.7.1 Hardware Development Management-IOC (GWBS 4.7.1)
- 4.7.2 CIs-IOC (GWBS 4.7.2)
- 4.7.2.1 CI Preliminary Design-IOC (GWBS 4.7.2.1)
- 4.7.2.2 CI Critical Design-IOC (GWBS 4.7.2.2)

- 4.7.2.3 CI Development IOC (GWBS 4.7.2.3)
- 4.7.2.4 CI Test-IOC (GWBS 4.7.2.4)
- 4.7.2.5 CI Documentation-IOC (GWBS 4.7.2.5)
- 4.8 HARDWARE DEVELOPMENT-FOC (GWBS 4.8)

The Contractor shall develop hardware for FOC and shall perform hardware development tasks as defined in Section 4.6 of this SOW. For FOC, the hardware development tasks are:

- 4.8.1 Hardware Development Management-FOC (GWBS 4.8.1)
- 4.8.2 CIs-FOC (GWBS 4.8.2)
- 4.8.2.1 CI Preliminary Design-FOC (GWBS 4.8.2.1)
- 4.8.2.2 CI Critical Design-FOC (GWBS 4.8.2.2)
- 4.8.2.3 CI Development-FOC (GWBS 4.8.2.3)
- 4.8.2.4 CI Test-FOC (GWBS 4.8.2.4)
- 4.8.2.5 CI Documentation-FOC (GWBS 4.8.2.5)
- 4.9 AUTOMATED DATA PROCESSING EQUIPMENT (ADPE) (HARDWARE AND SOFTWARE) (GWBS 4.9)
- 4.9.1 Procurement (GWBS 4.9.1)

The Contractor shall prepare acquisition specifications for commercially available ADPE and shall procure ADPE including all commercial user terminals.

4.9.2 ADPE Test (GWBS 4.9.2)

The Contractor shall accomplish acceptance testing of ADPE.

4.9.3 Government Furnished Equipment (GFE) (GWBS 4.9.3)

The Contractor shall receive, modify if required (except terminals), install and checkout GFE. The Contractor shall accomplish unit testing of GFE and prepare a GFE test report, CDRL No. 154. The Contractor shall provide GFE maintenance.

4.10 TEST AND VERIFICATION-BOC (GWBS 4.10)

4.10.1 Test Management-BOC (GWBS 4.10.1)

The Contractor shall provide management of segment test activities. The Contractor shall prepare Test Plans, CDRL No. 131, as required by the Segment Test Plan, CDRL No. 130. The Contractor shall prepare test procedures as required. The Contractor shall prepare a test plan for GFE equipment, CDRL No. 131.

4.10.2 Test Support-BOC (GWBS 4.10.2)

The Contractor shall provide the necessary software, hardware and data to support integrated testing.

4.10.3 Integration Test-BOC (GWBS 4.10.3)

The Contractor shall accomplish inter-CPCI and inter-CI testing. The Contractor shall accomplish integrated CPIC/CI testing and shall provide Integration Test Reports, CDRL No. 154.

4.10.4 Factory Pre-ship Test-BOC (GWBS 4.10.4)

The Contractor shall perform formal pre-ship test and shall provide a Pre-ship Test Report, CDRL No. 154.

4.11 TEST AND VERIFICATION-IOC (GWBS 4.11)

The Contractor shall conduct test and verification for IOC and shall perform test and verification tasks as defined in Section 4.10 of this SOW.

4-10

For IOC, the test and verification tasks are:

- 4.11.1 Test Management IOC (GWBS 4.11.1)
- 4.11.2 Test Support IOC (GWBS 4.11.2)
- 4.11.3 Integration Test IOC (GWBS 4.11.3)
- 4.11.4 Factory Pre-Ship Test IOC (GWBS 4.11.4)
- 4.12 TEST AND VERIFICATION FOC (GWBS 4.12)

The Contractor shall conduct test and verification for FOC and shall perform test and verification tasks as defined in Section 4.10 of this SOW. For FOC, the test and verification tasks are:

- 4.12.1 Test Management FOC (GWBS 4.12.1)
- 4.12.2 Test Support FOC (GWBS 4.12.2)
- 4.12.3 Integration Test FOC (GWBS 4.12.3)
- 4.12.4 Factory Pre-ship Test FOC (GWBS 4.12.4)
- 4.13 INSTALLATION, CHECKOUT AND TEST BOC (GWBS 4.13)
- 4.13.1 Installation, Checkout and Test Management BOC (GWBS 4.13.1)

The Contractor shall provide management of installation and check-out activities.

4.13.2 Facility Planning - BOC (GWBS 4.13.2)

The Contractor shall provide facility planning and Facility Interface Drawings (IDRs), CDRL No. 139.

4.13.3 Installation and Checkout - BOC (GWBS 4.13.3)

The Contractor shall prepare a Shipping Plan, CDRL No. 147, and the D/C Segment Installation Plan, CDRL No. 134. The Contractor shall provide for shipment, installation, and checkout of all segment items. The Contractor shall accomplish segment integration and transition to operational status.

4.13.4 Site Segment Test - BOC (GWBS 4.13.4)

The Contractor shall perform a formal Site Segment Test and shall provide the Site Segment Test Report, CDRL No. 154.

4.13.5 Site Inter-Segment Demonstrations - BOC (GWBS 4.13.5)

The Contractor shall contribute to the system test plan to be prepared by the System Integrator (SI). The Contractor shall participate in on-site system testing. The Contractor shall prepare inputs for the system test report to be prepared by the SI. The System Test/Demo Inputs are CDRL No. 153.

4.13.6 Inter-Program Demonstrations - BOC (GWBS 4.13.6)

The Contractor shall provide input to the inter-program demonstration to be prepared by the SI. The Contractor shall support program demonstrations. The Contractor shall provide inputs to the demonstration test report to be prepared by the SI. The Demonstration and report inputs are CDRL No. 153.

4.14 INSTALLATION, CHECKOUT AND TEST - IOC (GWBS 4.14)

The Contractor shall conduct installation, checkout and test for IOC and shall perform installation, checkout and test tasks as defined in Section 4.13 of this SOW. For IOC, the installation, checkout and test tasks are:

- 4.14.1 Installation, Checkout and Test Management IOC (GWBS 4.14.1)
- 4.14.2 Facility Planning IOC (GWBS 4.14.2)
- 4.14.3 Installation and Checkout IOC (GWBS 4.14.3)

- 4.14.4 Site Segment Test IOC (GWBS 4.14.4)
- 4.14.5 Site Inter-Segment Demonstrations IOC (GWBS 4.14.5)
- 4.14.6 Inter-Program Demonstrations IOC (GWBS 4.14.6)
- 4.15 INSTALLATION, CHECKOUT AND TEST FOC (GWBS 4.15)

The Contractor shall conduct installation, checkout and test for FOC and shall perform installation, checkout and test tasks as defined in Section 4.13 of this SOW. For FOC, the installation, checkout and test tasks are:

- 4.15.1 Installation, Checkout and Test Management FOC (GWBS 4.15.1)
- 4.15.2 Facility Planning FOC (GWBS 4.15.2)
- 4.15.3 Installation and Checkout FOC (GWBS 4.15.3)
- 4.15.4 Site Segment Test FOC (GWBS 4.15.4)
- 4.15.5 Site Inter-Segment Demonstration FOC (GWBS 4.15.5)
- 4.15.6 Inter-Program Demonstrations -FOC (GWBS 4.15.6)
- 4.16 DEVELOPMENT AND TEST FACILITY (GWBS 4.16)
- 4.16.1 Management (GWBS 4.16.1)

The Contractor shall provide management, planning and control of facilities required for analysis, human engineering, development, test and integration of all Segment software and hardware.

4.16.2 Services (GWBS 4.16.2)

The Contractor shall provide the necessary services, including software tools and library support test tools, for the development and test facility.

4.16.3 Equipment (GWBS 4.16.3)

The Contractor shall procure ADPE capable of supporting the development and test facility.

4.16.4 Operations and Maintenance (GWBS 4.16.4)

The Contractor shall operate and maintain the development and test facility.

4.16.5 Subcontractor Development and Test Facilities (GWBS 4.16.5)

The Contractor shall provide management, necessary services, equipment and operations and maintenance for Subcontractor Development and Test Facilities that may be authorized by the Contractor.

4.17 TRAINING (GWBS 4.17)

4.17.1 Training Management (GWBS 4.17.1)

The Contractor shall manage all training activities and shall provide a Segment Training Plan, CDRL No. 140.

4.17.2 User Training (GWBS 4.17.2)

The Contractor shall prepare user training materials, CDRL No. 146. The Contractor shall accept inputs from other segments and shall integrate these inputs into user training materials. Inputs from other segments shall be provided to the Contractor as Government Furnished Information (GFI) at a mutually agreed date. The Contractor shall train a mutually agreed number of government instructors.

4.17.3 Operator Training (GWBS 4.17.3)

The Contractor shall prepare and deliver operator training materials, CDRL No. 146. The Contractor shall train a mutually agreed number of government instructors.

4.17.4 Maintenance Training (GWBS 4.17.4)

The Contractor shall prepare and deliver maintenance training materials, CDRL No. 146. The Contractor shall provide segment maintenance training for a mutually agreed number of government instructors.

- 4.18 OPERATIONS AND MAINTENANCE (O&M) (GWBS 4.18)
- 4.18.1 0&M Management (GWBS 4.18.1)

The Contractor shall provide O&M management.

4.18.2 Spares (GWBS 4.18.2)

The Contractor shall provide sparing of segment equipment and expendables. Spares shall be provided under a supplemental agreement.

4.18.3 Software Maintenance (GWBS 4.18.3)

The Contractor shall provide software problem resolution support and shall provide segment software maintenance. The Contractor shall update software documentation when required by software maintenance.

4.18.4 Hardware Maintenance (GWBS 4.18.4)

The Contractor shall provide hardware problem resolution support and shall provide segment hardware maintenance. The Contractor shall update hardware documentation when required by hardware maintenance.

4.18.5 Configuration Control (GWBS 4.18.5)

The Contractor shall support configuration control for operational software/hardware. The configuration control support shall be a mutually agreed level of effort.

4.18.6 Administrative Support (GWBS 4.18.6)

The Contractor shall provide administrative support and document control for contractor operations and maintenance tasks.

4.18.7 Travel and Living (GWBS 4.18.7)

The Contractor shall provide travel and living arrangements and expenses, as required, for O&M personnel.

Section 5

PRESERVATION, PACKAGING, PACKING, AND MARKING

5.1 DATA ITEMS

The Contractor shall deliver all unclassified data items packaged in a protective container in accordance with best commercial practice. The data items shall be wrapped in a protective wrapper within the container, and this wrapper shall be marked with the following information:

- Document Title;
- b. CDRL Identification;
- c. Contract Number;
- d. Contractor Identification

The CDRL identification shall be the CDRL number followed by a -1 to indicate BOC applicability, -2 for IOC, and -3 for FOC.

Classified data shall be packaged in a protective container in accordance with best commercial practice meeting NPIC security requirements for classified shipment. Data identification, as specified above, shall be shown on inner wrappers within the container.

5.2 HARDWARE

Delivered hardware, including the return of any GFE furnished by the Government, shall be packaged in a thermal-sealed plastic bag for moisture protection, and packed in heavy cardboard or wood containers in accordance with best commercial practice such that operational performance shall not be degraded, and mechanical damage shall not be incurred, as a result of transportation and handling required for delivery from point of manufacture or last installation to the NPIC destination, including truck shipment and lift truck operations. Heavy cardboard or wood containers shall be determined based upon size and weight of the hardware to be packed. The sealed plastic bag shall bear the following information applied by pressure-sensitive label:

- a. Hardware name;
- b. Hardware part number and manufacturer;

5-1

- c. Contract Line Item Identification;
- d. Contract Number; and
- e. Contractor Identification.

5.3 SOFTWARE

Magnetic tapes shall be packaged in protective tape cans, sealed and marked with the following information:

- a. Tape Identification;
- b. Capability Phase (BOC, IOC, FOC);
- c. Contract Line Item Identification;
- d. Contract Number; and
- e. Contractor Identification.

Security classification shall also be shown, if the tape contents are classified.

The tape cans shall be packed in an outer container for shipment, meeting best commercial practice, and with internal wrappers in accordance with NPIC security requirements for classified shipment. Documentation associated with the magnetic tapes, other than CDRL items, shall be packaged and packed in the same outer container and must be identified on internal protective wrappers as specified above for the tapes. In addition, the identification of the documentation must be shown. If classified, the internal wrappers for the documentation must satisfy NPIC security requirements.

5.4 IDENTIFICATION AND MARKING OF SHIPMENTS

No stenciling shall be applied to the shipping containers except for the following:

- a. Weight, dimensions, and cubic content of container; and
- b. Caution markings for handling purposes, such as "DELICATE INSTRUMENT", "THIS SIDE UF", "FRAGILE", etc.

The consignee address shall be marked on a shipping tag or label that shall be securely fixed to the container by use of waterproof adhesive or stapled to the container. Such markings shall be protected by a coat of transparent water-repellant material. The contract and CLIN numbers, and the name of the consignor, must be shown.

The exterior of each container within a shipment shall bear a number relative to the total number of containers in the shipment, e.g. PKG 1 OF 5. This numbering shall not be stenciled on the container, but shall be applied by tag or label as described for the consignee address.

Where an equipment item is shipped in two or more pieces, each container shall be marked with the set or assembly number, the number of the container relative to the number of containers comprising the complete set or assembly, and a brief title description of the set or assembly component contained therein. This marking shall be applied by tag or label as previously described.

A packing list, referencing the container numbers and contents, must accompany each shipment. All shipments must be F.O.B. Destination.

5.5 PROTECTED SHIPMENTS

Any shipment containing Government-classified material shall be made only in accordance with instructions furnished the Contractor by the Contracting Officer upon notification that the material is ready for shipment. The Contractor shall identify the following information for the Contracting Officer:

- Date material is required at destination;
- b. The destination; and
- c. The approximate size, weight, and number of cartons.

Section 6

PERIOD OF PERFORMANCE AND DELIVERIES

6.1 PERIOD OF PERFORMANCE

The period of performance of the Statement of Work begins on the effective date of the Government Contract and continues until 15 July 1988.

6.2 DELIVERIES

The Contractor shall deliver to, or complete for, the Government the supplies and services listed below in accordance with the criteria set forth in Sections 3, 4, and 5 herein and in accordance with the following schedule:

| Item No. | Description | Reference Section | Date |
|----------|--|----------------------|-------------------|
| 0001 | Project Management | 4.1 | As required |
| 0002 | System Engineering | 4.2 | As required |
| 0003 | Software Development - BOC | 4.3 | 15 October 1984 |
| | CPCIs as identified in the Segment Design Specification | | |
| 0004 | Software Development - IOC | 4.4 | 15 July 1985 |
| | CPCIs as identified in the Segment Design Specification | | |
| 0005 | Software Development - FOC | 4.5 | 15 September 1985 |
| | CPCIs as identified in the Segment Design Specification | | |
| 0006 | Hardware Development - BOC | 4.6 | 15 October 1984 |
| | CIs as identified in the Segment Design Specification | | |

| Item No. | Description | Reference Section | <u>Date</u> |
|----------|---|----------------------|--|
| 0007 | Hardware Development - IOC | 4.7 | 15 July 1985 |
| | CIs as identified in the Segment Design Specification | | |
| 8000 | Hardware Development - FOC | 4.8 | 15 September 1985 |
| | CIs as identified in the Segment Design Specification | | |
| 0009 | Automated Data Processing Equipment | 4.9 | 15 July 1985 |
| | Hardware and Software as identified in the Contractor prepared acquisition specifications | | |
| 0010 | Test and Verification - BOC | 4.10 | 1 January 1984 |
| 0011 | Test and Verification - IOC | 4.11 | 1 March 1985 |
| 0012 | Test and Verification - FOC | 4.12 | 1 March 1985 |
| 0013 | Installation, Checkout and Test - BOC | 4.13 | 15 October 1984 |
| 0014 | Installation, Checkout and Test - IOC | 4.14 | 15 July 1985 |
| 0015 | Installation, Checkout and Test - FOC | 4.15 | 15 July 1987 |
| 0016 | Development and Test Facility | 4.16 | 1 March 1985 |
| 0017 | Training | 4.17 | |
| | a. BOC b. IOC c. FOC | | 15 October 1984 15 July 1985 15 September 1985 |

| Item No. | Description | Reference Section | Date |
|----------|----------------------------|----------------------|---|
| 0018 . | Operations and Maintenace | 4.18 | |
| | a. BOC b. IOC c. FOC | | 15 July 1985 30 September 1986 15 July 1988 |

Section 7

INSPECTION AND ACCEPTNACE

7.1 POINT OF INSPECTION AND ACCEPTANCE

Hardware and software furnished under this Statement of Work shall be inspected and accepted at the NPIC site. This acceptance will be conditioned by the successful completion of tests specified in Section 7 herein, and successful integration of the hardware and software into the NPIC system.

Data furnished under this Statement of Work shall be inspected and accepted at the NPIC Development Program Office (NDPO). All data shall be considered accepted thirty calendar days after receipt by the NDPO unless specifically accepted and rejected within that time. Data rejected shall be resubmitted by the Contractor.

7.2 DESTINATION

The hardware, software, and data to be furnished under this Statement of Work shall be delivered to the following locations unless otherwise specified by the NDPO at the time of delivery:

HDW/SFW: (Site and address to be specified separately)

Data: (NDPO address to be specified separately)

7.3 ACCEPTANCE CRITERIA

7.3.1 Hardware/Software Acceptance

Acceptance of the hardware and software developed for the D/C Segment shall be on an incremental basis, using test and verification starting with qualification tests and ending with inter-program demonstrations. Test and verification provides for:

Actual test

Demonstration

Inspection

Analysis

throughout the acceptance process, at the following levels:

Intra-Segment

Computer Program Component (CPC)

Computer Program Configuration Item (CPCI)

Inter-CPCI

Configuration Item (CI)

Inter-CPCI/CI

Inter-Segment

Inter-System

Test and verification is a formal process, based upon the Segment Verification Plan, and uses test plans, procedures, and reports to plan and document the process. The NDPO shall approve all test plans and review all test procedures to assure that the acceptance process is complete. The acceptance process is diagrammed in Figure 7-1 herein. Sections 4.10 through 4.15 herein provide task descriptions for these activities.

CPCI acceptance occurs when Formal Qualification Tests (FQTs) have been satisfactorily completed. CI acceptance occurs when Hardware/ Software Subsystem integration and test has been satisfactorily completed. Factory acceptance occurs when the factory preship test is completed and a configuration audit has been accomplished. The hardware and software is then shipped to the NPIC site.

Site preliminary acceptance occurs upon successful completion of the D/C Segment test, following installation and checkout of the hardware/software at the NPIC site. Final site acceptance occurs upon satisfactory completion of all inter-program demonstrations. Final site acceptance for each capability (EOC, IOC, FOC) shall be documented by a Government Certificate of Completion.

7.3.1.1 Preliminary Qualification Test (PQT)

PQT is an incremental process which provides visibility and control of computer program development during the time period between Critical Design Review (CDR) and Formal Qualification Test (FQT). A PQT shall be conducted on all Computer Program Components (CPCs). It shall verify that the CPCs fulfill the requirements of the Part I development specifications.

7.3.1.2 Formal Qualification Test (FQT)

FQT is a complete and comprehensive test of each individual Computer Program Configuration Item (CPCI) in a continuous test period subsequent to completing computer program test and evaluation. FQT shall verify that the CPCIs fulfill the requirements of the Part I development specifications. Each function/task of the CPCIs, including inter-CPCI control and data flow, data base operation, and human operator interfaces shall be verified/tested regardless of prior PQT testing. All functions which are unable to be verified in the FQT shall be deferred and verified in the higher levels of test.

7.3.1.3 Hardware Qualification Test/Unit Test

Hardware qualification test shall be performed on the first IWS of each configuration, and periodically during IWS production. Unit tests applied to subsequent IWS units shall be a subset of the qualification tests. These tests verify hardware performance as required by the component specification.

7.3.1.4 Hardware/Software Subsystem Integration and Test

Hardware/software subsystem test are formal tests executed with qualified hardware and qualified software to verify all functions, including human operator functions, as specified in the segment design specification. Inter-CPCI functions which could not be verified in lower level tests shall be verified here. A subset of hardware/software subsystem test concern the IWS and its system and application software. These shall be integrated and tested prior to being included in the overall hardware/software subsystem tests.

7.3.1.5 Factory Pre-Ship Test

This test shall be an overall test of the D/C Segment, performed with a representative number of IWS units for proper segment performance, to verify that the requirements of the Segment Design Specification have been satisifed prior to shipment by the Contractor to the NPIC site.

7.3.1.6 Site Installation and Checkout

The Contractor shall install the segment hardware and software, and verify that installation has been satisfactory, physical interfaces with the site are proper, and that no shipping damage has occured.

7.3.1.7 D/C Segment Test

This test shall verify the performance of the D/C Segment at the NPIC site after installation and checkout has been accomplished, and before inter-segment/system tests. The D/C Segment Test establishes preliminary segment acceptance.

7.3.1.8 Inter-Segment/System Test

These tests, conducted by the SI Contractor for the Government, will verify the functional and performance capabilities of the integrated D/C Segment in the operational location. The D/C Segment Contractor will participate in these tests, and provide inputs to the test plans and procedures.

7.3.1.9 Inter-Program Demonstrations

These demonstrations, conducted by the SI Contractor and/or the Government, will show that the integrated D/C Segment, with the other segments, is ready to support Government use and its operations. The D/C Segment Contractor will participate in these demonstrations, and provide inputs to the demonstration plans and procedures. Successful completion of the Government demonstrations for the D/C Segment establishes final segment acceptance.

7.3.2 Data Acceptance

Data shall be accepted by the NDPO after it has been inspected and found to be technically accurate and complete in accordance with the contract data requirements list, CDRL, and meeting best commercial practice in preparation and reproduction.

| 7.3.3 Commercial Equipment Acceptance | STAT |
|--|------|
| commercial equipment, including system software, shall be | STAT |
| considered accepted by the Government after installation and checkout has been accomplished, and the standard thirty day test has been successfully completed. | STAT |

Section 8

GOVERNMENT FURNISHED ITEMS

The Government will furnish the equipment, information, services and facilities specified herein for use by the Contractor in the performance of this SOW.

8.1 GOVERNMENT FURNISHED EQUIPMENT (GFE)

Univac CSP, Two Delta Data Multiterms and One Remote Job Printer

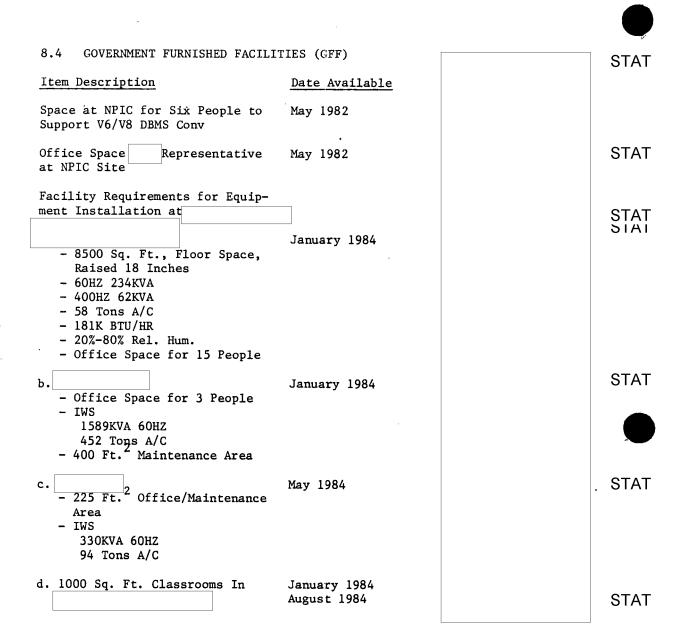
| Item Description | Date Available | Location |
|--|----------------|-----------------------|
| Univac 1100/81 Development Configuration-Associated Peri- pheral-Including CSP (Detailed Equipment List in Volume IV-Cost Proposal) | November 1982 | Contractor's Facility |
| Five DD5600 Terminals and Two Multiterms | November 1982 | Contractor's Facility |
| Prototype Comm Network Hardware Including Associated Support Equipment & Software. Equipment to Include: (AR) LAN Cable (2) FEP Interface for 1100/84 (2) FEP Interface BIU's for 3705/3081 (2) IWS Interface BIU's (2) DD5600 Interface/Multi- term BIU (1) Remote Job Printer Interface BIU | January 1983 | Contractor's Facility |
| Production Comm Network Hardware & Associated Support Equipment/Software/Documentation to Include LAN Cable and Sufficient BIU's to Support Four 3705's with Five 56Kbps Ports, Six IWS's, One | August 1983 | Contractor's Facility |

8.2 GOVERNMENT FURNISHED INFORMATION (GFI)

| Item Description | Date Available | Location |
|--|---|---|
| Complete List of Software/Support Tools Currently Being Used at NPIC | November 1982 | Contractor's Facility |
| Univac System Software | November 1982 | Contractor's Facility |
| Baseline NPIC-System Source/ Code/Object Code | November 1982 | Contractor's Facility |
| Current NPIC Data Base (DB) | May 1982 | Contractor's Facility |
| User/Programmer/Maintenance Manuals for Existing System (Hardware/Operating System/Tools/ Other Software) | May 1982 | Contractor's Facility |
| Results of Xerox T&I Analysis & Evaluations | May 1982 | Contractor's Facility |
| Part I Specs and Program Listings (XOJ, XTS, XMC, XCN, XSS, GDH) | May 1982 | Contractor's Facility |
| Part II Specs and Program Listings (XOJ, XTS, XMC, XCN, XSS, XMN, TEARS) | May 1982 | Contractor's Facility |
| NPIC Segment Updated Interface Specifications | May 1982 | Contractor's Facility |
| Scenarios for - C/I Segment - E/R Segment - External Users | January 1983 | Contractor's Facility |
| User Training Inputs - Reference Son Preliminary Update - BOC Final - BOC Update - IOC/FOC Final - IOC/FOC | OW 4.17.2 September 1982 January 1983 January 1984 January 1985 February 1985 | Contractor's Facility Contractor's Facility Contractor's Facility Contractor's Facility Contractor's Facility |
| Operations Training Inputs - Reference Preliminary Update - BOC Final - BOC Update - IOC/FOC Final - IOC/FOC | ence SOW 4.17.3 September 1982 January 1983 January 1984 January 1985 February 1985 | Contractor's Facility Contractor's Facility Contractor's Facility Contractor's Facility Contractor's Facility |

8.3 GOVERNMENT FURNISHED SERVICES (GFS)

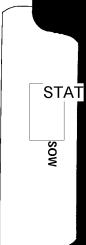
| Item Description | Date Available | Location |
|---|----------------|-----------------------|
| Univac and C/S Vendor Services to Support Develop & Integration | January 1983 | Contractor's Facility |
| Vendor Services for Other Integration/Test/& Equipment Maintenance Activity e.g.: C/I Segment Equipment D/C Segment Equipment | March 1984 | Contractor's Facility |
| NPIC/CSD Services for Consulta- tion Relative to Existing System Operation | May 1982 | Site |
| NPIC System Performance Data_ | May 1982 | |
| Access to NPIC Personnel for Data Base DMS 1100 V6/V8 Conversion | May 1982 | Site |
| Support of CSD Univac Personnel for Software Conversion | May 1982 | Site |
| Access to Xerox T&I Activity - Joint Activity Related to Image Analyst Activity Definition & Human Factors Related Studies for Work Station Design (Experiments & Data Collection Would Be Performed By Xerox Based on D/C Segment & IWS Requirements) | | Site |
| Access to Customer SI and Other Segment Contractors | May 1982 | Site |
| Operations Support for BOC, IOC and FOC | April 1985 | Site |
| IWS H/W Maintenance Support for BOC, IOC and FOC | April 1985 | Site |
| S/W Maintenance Support for BOC, IOC and FOC | July 1985 | Site |



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8.5 DELIVERY CRITERIA

Delivery of GFE, GFI and GFS will be made to the Contractor in a manner determined by the Government Contracting Officer.



| OCUMENT TITLE | DOCUMENT NO | 7935493 Revision | A SIAI |
|------------------------|--------------------|------------------|--------|
| NPIC STATEMENT OF WORK | DOCUMENT DATE | January 27, 1982 | |
| ORSUBCONTRACT | ORIGINATING GROUP | Department MA-1 | STA |
| | CONTENT APPROVED E | ву | STAT |
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| PREPARED BY: | • | | |
| FREFARED 61: | | | STAT |
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| | CONTRACT NUMBER | | STAT |
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Approved For Release 2007/09/06: CIA-RDP84T00037R000500040001-2

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| D | ocu | MENT RECORD | DOCUMENT 79354 | |
|-----------------------|-------------|---|-------------------------|---------|
| Paragraph | Level | Description of Change | | Date |
| | | Release | · | 1/11/82 |
| 2.3 4.1.1 4.1.2 | A A A | Added Documents 7935657 and 7 Added PCMP requirement. Deleted NPIC Development Plan. | | 1/27/82 |
| 4.1.2.1 | A A | Added designation SDRL Item A201 Deleted Designation SDRL Item A10 deleted Monthly Reviews and SDRL requirement. | 9 in a. and | |
| 4.1.3 | A | Added "and at the NPIC site". | | |
| 4.1.4 4.2 | A A | Added SDRL Al52 requirement. Deleted words "System Engineering substituted "He shall". | will" and | |
| 4.2.1 | A | Deleted words "develop and enfore "enforce the Buyer's", and delete requirement for SDRL A118. | | |
| 4.2.2 | A | Deleted items a., b., and f., rel c., d., and e. and changed wordin to"Provide analysis to assure per his CPCI's". | g on new a. | |
| 4.2.3 | A | Deleted SDRL A206 requirement, an SDRL A135 and SDRL A136 requireme | | |
| 4.2.4 | A | Deleted item c. Added requiremen documents 7935657 and 7935658. | ts of IBM | |
| 4.2.6 | A | Deleted items a., b., and c. | | |
| 4.2.8 | A | Revised wording of first paragrap NDPO in item e. | | , |
| 4.3.1 | A | Added "The Buyer reserves the rig deleted the SDRL A104 requirement "Software Development Plan, SDRL to "Project Master Control Plan ("SDP" to "plan". | . Changed Item A204" | |
| 4.3.2 | A | Changed CPDP to "D/C Segment Deve Plan". | lopment | 1.e |
| 4.3.2.4 | A | Deleted items a. and e. and relab | eled items | |
| 4.3.2.5 | А | b., c., and d. Deleted SDRL A203 requirement and A138 requirement. Revised 2nd par deleted third paragraph. Deleted | agraph, and | |
| 4.3.2.6 | A | requirement. Changed "Government acceptance of ment" to "FQT has been completed" | | |
| 4.10 | A | Changed "Software Development Lak "Development and Test Facility". | oratory" to | |
| 4.10.1 | A | Deleted words "and for any equipment of the furnished". | ment which | |

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| | OCL | JMENT RECORD | DOCUMENT N 793549 | · |
|-----------|-------|---|----------------------|---------|
| Paragraph | Level | Description of Change | | Date |
| 4.10.1 | A | Deleted third paragraph and added | SDRL A210 | 1/27/82 |
| 4.10.2 | A | requirement. Added words "Testing shall contin FQT for each CPCI has". De | | |
| 4.10.3 | A | paragraph. Added GFE integration, and defini Deleted 2nd paragraph. | tion of GFE. | |
| 4.11 | A | Changed "Software Development Lab "Development and Test Facility". | oratory" to | |
| 4.12 | A | Changed "Software Development Lab "Development and Test Facility". | oratory" to | |
| 4.13 | A | Added words "plan and" in first s the words "The Buyer will provide of the". | | |
| 4.13.1 | A | Added SDRL A210 requirement, dele and relabeled items b., c., and d | | |
| 4.13.3 | A | Added shipment planning requireme words "The Buyer will provide ins of the computer systems". | nt and the | |
| 4.13.5 | A | Added identification "SDRL Item A items a. and c. | 153" to | |
| 4.13.6 | A | Added identification "SDRL Item A items a. and c., and changed item "Provide input to" to "Contribute | a. words | |
| 4/16/2 | A | Changed "Software Development Lab "Development and Test Facility". | | |
| 4.17 | A | Added "Maintenance training will and "Instructors and training mat the IWS software and". | | |
| 4.18.3 | A | Deleted words "at the NPIC site" words "following completion of FQ tests". | | |
| 7.1.1 | A | Changed "Software Development Lab "Development and Test Facility". | oratory" to | |
| 7.1.2 | A | Changed "Software Development Fac "Development and Test Facility" a Customer" to "NPIC". | nd words | |
| 7.3.3.3 | A | Added words "original" to both pa | | |
| 8. | A | Changed "Software Development Lab "Development and Test Facility". | oratory" to | |
| APP A | A | Deleted SDRL's AlO4, Al18, Al19, A205, and A206. Added SDRL's Al26 Al28, Al29, and Al53. Changed SD title to "Project Master Control frequency to "Weekly". | , A127, RL A204 | |

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| | OCL | JMENT | RECORD | | MENT NUMBER |
|-----------|-------|------------|---|----------------|-------------|
| Paragraph | Level | | Description of Chang | je | Date |
| APP B | A | and 904, a | -73, deleted descri and changed 902 tit ntrol Plan (PMCP)". | le to *Project | 1/27/82 |
| | | | | | |

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Section 1

INTRODUCTION

| This Statement of Work (SOW) defines the efforts to be performed by | |
|---|-------|
| | STAT |
| hereinafter referred to as the Subcontractor, | STAT |
| for the development and delivery of NPIC software, and for verification | |
| and test, installation, training, operations and maintenance, and data | |
| activities. The prime contractor for the NPIC Data and Control Segment | |
| is the | STAT |
| hereinafter referred to as the Buyer. The abbreviation | STATE |
| shall be understood to refer to the Subcontractor, and the abbreviation | |
| shall be understood to refer to the Buyer. | STAT |

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Section 2

APPLICABLE DOCUMENTS

The following documents of the exact issue shown form a part of this Statement of Work whether or not referenced herein. In the event of conflict between documents referenced, and the detailed requirements of subsequent sections herein, the detailed requirements shall supercede the general requirements of the referenced documents. Conflicts or questions regarding the referenced documents shall be resolved by the Buyer's Subcontract Administrator.

The term "Buyer" shall be substituted for "Government" (or Agency thereof), and the term "Subcontract Administrator" shall be substituted from "Contracting Officer", as applicable in the referenced documents.

2.1 NPIC DOCUMENTS

| • | |
|-----------|----|
| Document | |
| Document | |
| 37 1 / | |
| Number/Da | te |
| number/Da | Ŀе |

ID

19 October 1981

NDP Master Schedule

1 April 1981

NDPO Security Guide

S7001A

NPIC Program Implementation Directive

30 March 1981

(Draft)

UNC-133-81

Data Requirements Description Forms

12 October 1981

Appendix 10.1, S7001

S7000A

NPIC System Specification

1 April 1981

S7002

1 October 1981

Systems Operations Concept

S7400A

24 December 1984

Data and Control (D/C) Segment Preliminary

Specification

8 April 1981

D/C Segment Minimum Modifications for FY-1984

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2.3 DOCUMENTS

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7935496 (TBS) NPIC WBS Structure

7935497

NPIC Quality Assurance Plan

(TBS)

7935498 (TBS) NPIC D/C Segment Configuration Management Plan

7935499

NPIC D/C Segment Security Plan

(TBS)

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7935655
(TBS)

D/C Segment Development Plan (SDP)

7935656
(TBS)

NPIC Programming Practices Standards and Conventions (PPS&C)

7935657
(TBS)

Requirements for the BTTDEV CPCI

7935658
(TBS)

D/C Segment Design Specification

2.4 OTHER DOCUMENTS

February 1981

Federal Information Processing Standards Publications (FIPSPUBS) (NBS Publications List 58)

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Section 3

SUPPLIES/SERVICES

The Subcontractor shall furnish the necessary personnel and services required to design, code, debug, and test NPIC Computer Program Configuration other support effort at the facility or at an operational site, in accordance with this Statement of Work. The specific supplies/services to be

| Item No. | Supplies/Services | Reference |
|----------|--|---|
| 1 | Project Management | Para. 4.1 |
| 2 | System Engineering | Para. 4.2 |
| 3 | Software Development | |
| | a. BTTDEV CPCI for BOC b. BMANIP CPCI for BOC c. BTTDEV CPCP for IOC d. BMANIP CPCI for IOC e. BTTDEV CPCI for FOC | Para. 4.3 Para. 4.3 Para. 4.4 Para. 4.4 Para. 4.5 |
| 4 | Test and Verification | |
| | a. BOC b. IOC c. FOC | Para. 4.10 Para. 4.11 Para. 4.12 |
| 5 | Installation, Checkout and Test | |
| | a. BOC b. IOC c. FOC | Para. 4.13 Para. 4.14 Para. 4.15 |
| 6 | UNIVAC System Support | Para. 4.16 |
| 7 | Training | |
| | a. BOC b. IOC c. FOC | Para. 4.17 Para. 4.17 Para. 4.17 |
| 8 | Software Maintenance Support | Para. 4.18 |

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Section 4

DESCRIPTION OF ITEMS

This section contains the description and requirements for the contract line items specified in Section 3 herein. The Subcontractor shall manage and perform any and all activities necessary to prepare, design, procure, fabricate, code, assemble, debug, test, integrate, support, and deliver the specified contract line items.

4.1 PROJECT MANAGEMENT

The Subcontractor shall perform the tasks required by this Statement of Work on the Buyer's premises at Many exceptions STAT must be specifically approved by the Buyer in writing.

4.1.1 Project Management

The Subcontractor shall provide a project organization and the necessary management to satisfy the requirements of this Statement of Work. The management function shall include project planning, project staffing, personnel and property management, and the interface between the Subcontractor and the Buyer, in addition to the normal management activities required to assure satisfactory performance of all tasks on schedule within budget constraints to required levels of quality.

A Financial Plan, SDRL Item AlO2, shall be prepared by the Subcontractor to depict the negotiated subcontract and subsequent negotiated changes thereto. It shall be revised and/or updated whenever appropriate to reflect current planning.

A Master Schedule, CDRL Item 103, will be prepared and maintained by the Buyer for the prime contract. The Subcontractor shall make monthly inputs (SDRL Item AlO3) to this master schedule to reflect current status and planning.

The Subcontractor shall provide weekly inputs to the Buyer's Project Master Control Plan (PMCP) as SDRL Item A204.

4.1.2 Project Control

The Subcontractor shall provide a project control function which furnishes financial management, schedule management, data management, status monitoring and reporting, and resolution of cost, schedule, and technical problems.

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The Subcontractor shall provide a mechanism for early detection and resolution of cost, schedule, and/or technical problems, and for coordination of this resolution with the Buyer.

The Subcontractor's activities must be planned under this Statement of Work to support the following key segment milestones:

| a. | Interprogram Demo | April 1984 |
|----|----------------------------|-----------------|
| Ъ. | Interface Changes | May 1984 |
| c. | BOC Operational Transition | October 1984 |
| d. | IOC Operational Transition | July 1985 (TBR) |
| e. | FOC Operational Transition | July 1987 (TBR) |

4.1.2.1 Financial Management

The Subcontractor shall perform financial management activities sufficient to assure control of all expenditure and commitments, and to provide accurate cost control to the sixth level of the WBS and accurate cost reporting to the fourth level of the WBS to satisfy the requirements of Data Requirements Description (DRD) 805 of Appendix B herein. The financial management function shall prepare and submit a monthly financial report, SDRL Item Al09, which provides a schedule report, a cost/schedule status report, a staffing report, a subcontract funds status report, and a narrative report. Financial management shall be based upon a Work Breakdown Structure (WBS) prepared by the Buyer,

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The Buyer reserves the option to impose weekly (or biweekly if accounting structure will not permit weekly) financial reporting upon the Subcontractor if significant deviations in costs are projected and/or experienced at the second level WBSID (SDRL Item A201).

The Subcontractor shall perform travel, other than local travel, in the metropolitan Washington, D.C., area, when directed by the Buyer, or only after approval by the Buyer in advance of the travel when requested by the Subcontractor. Buyer's direction or approval shall be in writing, and state the purpose and duration of the travel, and the specific individuals authorized for the travel. Travel undertaken without this direction or advance approval shall be considered as a non-allowable cost to the subcontract.

The Subcontractor shall incur other direct cost (ODC) only after approval by the Buyer. ODC refers to elements of cost other than labor, burden, purchases and subcontracts, and travel. Buyer's approval shall be in writing, stating the purpose and the estimated monetary value of the ODC. ODC incurred without Buyer's prior approval shall be considered as a non-allowable cost to the subcontract.

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4.1.2.2 Schedule Management

The Subcontractor shall use a schedule control and monitoring system that is capable of:

- a. Providing schedule status for monthly and quarterly reports;
- Reflecting time durations of all major tasks such as planning, designing, implementing, testing, and preparing documentation;
- c. Reflecting the planned start and completion dates for all major activities and events;
- d. Reflecting slack where applicable, and reflecting workaround schedules when delays have occurred;
- Reflecting the impact of early starts and of slippages on future milestones, and of conflicts which may be created in the utilization of common test facilities and equipment;
- f. Providing a narrative report addressing all problem areas in the schedule;
- g. Maintaining the contractual schedule plan for easy comparison to current status:
- Reflecting the latest allowable dates for major events and activities; and
- Identifying schedule progress to the approved WBS for the subcontract.

The Subcontractor is encouraged to utilize his existing in-house techniques to the maximum extent possible to satisfy these schedule management requirements.

The schedule management function shall assist in the preparation of the Monthly Financial Report, SDRL Item A109, and of the Quarterly Progress and Status Report, SDRL Item A113. It shall prepare and submit Milestone Updates, SDRL Item A110, and Milestone Reports, SDRL Item A111, and any status data required for input to the NDPO schedule system, SDRL Item A202.

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Status Monitoring and Reporting

The Subcontractor shall establish a status monitoring and reporting system which shall:

- Assist in the preparation of the Monthly Financial Reports;
- Prepare Quarterly Progress and Status Reports, SDRL Item A113; ъ.
- Prepare status presentations (including action item status) for weekly reviews.

4.1.3 Quality Assurance

The Subcontractor shall be responsible for the quality of his contract line items, and shall perform quality assurance for his contract line items of Section 3 herein in accordance with the Buyer's Software Quality Assurance Plan, Document 7935497. Quality assurance for work performed on the Buyer's premises and at the NPIC site shall be provided by the Buyer, but quality performance remains the responsibility of the Subcontractor.



4.1.4 Configuration Management

The Subcontractor shall provide configuration management of hardware, software, firmware, procedures, plans, specifications, and other documents in accordance with the Buyer's Configuration Management Plan, Document STAT 7935498, and associated procedures. He shall participate in the Buyer's Change Control Board, and he shall provide necessary product and document control.

The Subcontractor shall provide inputs to the software Version Description Documents (SDRL Item A152) for each of his CPCIs.

4.1.5 Security

The Subcontractor shall conform to the Buyer's Security Plan, Document 7935499, and associated procedures. He shall prepare a separate Security Plan, SDRL Item A105, for any of his activities which are not conducted on Buyer's premises. Security procedures to implement his plan must be approved by the Buyer.

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4.1.6 Status Reviews/Technical Interface Meetings

The Subcontractor shall participate in Monthly Status Reviews conducted by the Buyer for the NPIC customer. These reviews are expected to be one day in duration, and will discuss cost and status, progress, problems, plans, and other issues as necessary. Each third review will include an in-depth financial review. The Subcontractor will be assigned agenda items to prepare for these reviews, and action items for followup and resolution as a result of these reviews. He shall submit a review data package, SDRL Item A207, for each review.

The Subcontractor shall also participate in Weekly Status/Technical Interface Meetings with the Buyer. Review data packages are not required as a SDRL Item, but appropriate handouts for the status and subjects under discussion should be available at the meetings.

4.1.7 (Reserved)

4.1.8 Document Publication and Control

The Subcontractor shall perform document publication and control activities sufficient to assure timely and accurate submission of data to the Buyer in accordance with the Subcontract Data Requirements List (SDRL), Appendix A herein. All documentation for delivery to the NPIC customer will be published and distributed by the Buyer, including classified document control, except as noted in paragraph 4.17 herein. All documents shall be prepared according to Buyer-specified format and style, or to a format and style mutually agreed by the Buyer and the Subcontractor if none are specified.

The subcontractor shall prepare a Data Accession List, SDRL Item Al56, and submit with monthly updates to the Buyer on a monthly basis.

4.2 SYSTEM ENGINEERING

The Subcontractor shall develop two software CPCI's as follows:

BTTDEV Development/Test and Training Support BMANIP Data Manipulation

He shall develop the Part I specifications, and provide support to Software Development for the Part II specifications.

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4.2.1 System Engineering Management

The Subcontractor shall provide technical management of all of his activities as part of his System Engineering management. He shall enforce the Buyer's hardware/software/operations interface standards for his CPCI's. He shall provide inputs to the Segment Development Plan, SDRL Item AlO4. The System Engineering process will continue through BOC, and be repeated as necessary for IOC and FOC.

4.2.2 Analysis

The Subcontractor shall perform the following tasks:

- a. Provide analysis to assure performance for his CPCI's;
- Provide inputs to the Segment Design Analysis Report, SDRL Item Al22; and
- c. Accomplish trade studies for his CPCI's.

4.2.3 Operations Engineering and Development

The Subcontractor shall develop the Segment Operations Concept,
SDRL Item All6, and the Segment Operations Specification, SDRL Item Al33.
The SOC shall be based upon the preliminary document submitted with the NPIC Proposal.

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The Subcontractor shall prepare inputs for the O&M Plan, SDRL Item A123, and the Maintenance & Logistics Plan, SDRL Item A124 for his CPCIs. The Buyer will coordinate inputs from all subcontractors and will publish one overall document for each item.

The Subcontractor shall prepare the User Manuals (SDRL Item A135) and the Operators Manuals (SDRL Item A136).

4.2.4 Design

The Subcontractor shall participate in each of the following documents for his CPCIs, by supplying inputs to the Buyer:

- Segment Design Specification, SDRL Item All7;
- b. Data Base Specification, SDRL Item A125; and
- Interface Specifications, SDRL Items Al26, Al27, Al28 and Al29.

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The Subcontractor shall participate in requirements allocation studies with the Buyer, and shall prepare a CPCI Part I specification, SDRL Item A141, for each of his CPCI's to satisfy the requirements of IBM Document 7935658. These specifications will contain the information specified in NPIC Document S7001. The BTTDEV Part I specification shall satisfy the requirements of Document 7935657. The format of the specification will be provided by the Buyer to assure uniformity of preparation by the subcontractors. The Subcontractor will prepare his Part I specifications using the SCRIPT facility of the Software Development Laboratory on the Buyer's premises. He must present and defend his design at the PDR review, and provide suitable update to the Part I specifications after this review.

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4.2.5 Transition and Integration Planning and Support

The Subcontractor shall prepare and submit the Segment Transition and Integration Plan, SDRL Item All5. He shall perform facility planning, installation, and checkout for all CPCI's, and shall support the transition of the new capability into the operational environment.

4.2.6 Test Support

The System Engineering function shall support the execution and evaluation of all software test performed by the Subcontractor.

4.2.7 CM Support

The System Engineering function of the Subcontractor's organization shall provide support to the Configuration Management function by:

- Evaluating proposed changes;
- b. Providing change request impact analysis; and
- c. Providing interface control.

4.2.8 Technical Reviews

The Subcontractor shall support all technical reviews imposed upon him by the Buyer (i.e. PDR, CDR, SDR, etc.) for his CPCI's and for his independent test activity. He shall provide a Review Data Package (SDRL Item A207) for each review, and shall provide followup on all action items assigned to him as a result of their reviews.

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Technical reviews will be required for each capability - i.e. a CDR will be held for BOC, for IOC, and for FOC capability.

Technical reviews will consist of:

- Segment Design Review (SDR);
- b. Preliminary Design Review (PDR);
- c. Critical Design Review (CDR);
- d. Segment Readiness Reviews; and
- e. Other reviews which may be defined by the NPIC Development Program Office (NDPO).

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4.3 SOFTWARE DEVELOPMENT - BOC

4.3.1 Software Development Management

The Subcontractor shall provide software management for all of his software development activities to produce the deliverable products required for the contract line items of Section 3 herein. He shall enforce program design, coding, and test practices, standards and conventions, documentation, and configuration control for the NDC D/C software products in accordance with NPIC Document S7001, and with the Buyer's D/C Segment Development Plan (SDP), Document 7935655, and NPIC Programming Practices Standards and Conventions (PPS&C), Document 7935656. The Buyer reserves the right to attend and participate in all design reviews and code inspections conducted by the Subcontractor.

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The Subcontractor shall accomplish reporting of software development status via the Project Master Control Plan (PMCP). He shall assume that non-redundant errors found during design inspection, code inspection, unit test, and software integration and test must be separately maintained in the plan by CPC. Errors are defined to be defects which require source changes for correction.

4.3.2 Computer Program Configuration Items (CPCI)

The Subcontractor shall provide the following CPCI's for the BOC capability:

BTTDEV Development/Test and Training Support BMANIP Data Manipulation

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These CPCI's shall be based upon the CPCI Part I specifications prepared by the Subcontractors System Engineering function, and shall be developed in conformance to the D/C Segment Development Plan, Document 7935655.

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4.3.2.1 Preliminary Design

The Subcontractor shall:

- a. Participate in requirements analysis and allocation;
- b. Support the System Engineering activity in the development of a CPCI Part I specification for each CPCI;
- c. Prepare a preliminary CPCI Part II specification for each CPCI, SDRL Item A142;
- d. Conduct internal design reviews for each CPCI; and
- e. Present his preliminary CPCI designs at the PDR design review.

All software modules which exist in Univac code shall be identified in the preliminary CPCI II specifications; furthermore, candidate modules for conversion without functional modification shall also be identified.

4.3.2.2 Critical Design

The Subcontractor shall prepare the build-to CPCI Part II specifications for each CPCI after Buyer approval of the preliminary specifications. He shall conduct internal design reviews during this development process, and present his build-to design at the CDR review.

4.3.2.3 Development

The Subcontractor shall code and debug his software for each CPCI after Buyer approval of the build-to CPCI Part II specifications. He shall then prepare as-built CPCI Part II specifications for each CPCI.

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4.3.2.4 Test

The Subcontractor shall:

- Unit test his software at the module level;
- Integrate modules and test to the CPC level in preparation for PQT; and
- c. Support Test and Verification involving his software.

The Buyer and the Government reserve the right to witness all tests.

4.3.2.5 Documentation

Concurrent with preparation of the build-to and as-built CPCI Part II specifications, the Subcontractor shall prepare preliminary and final Programmers Manuals (SDRL Item Al38) for each CPCI.

The Subcontractor shall also prepare inputs to the User Manuals, SDRL Item Al35, the Operator Manuals, SDRL Item Al36, and to any training manuals which may be required.

The Subcontractor shall supply as-built CPCI listings (SDRL Item A150) when segment acceptance occurs for the BOC capability.

4.3.2.6 Problem Evaluation and Correction

The Subcontractor shall provide software support for Problem Evaluation and Correction (PEAC). PEAC will be required for each CPCI following the Preliminary Qualification Test (PQT) of the first Computer Program Component (CPC) until FQT has been completed.

4.4 SOFTWARE DEVELOPMENT - IOC

The Subcontractor shall repeat the software development process as described in paragraph 4.3 to update his CPCI's and associated documentation to provide for the IOC capability, and he shall deliver upgraded software and data items for each CPCI.

- 4.4.1 Software Development Management
- 4.4.2 Computer Program Configuration Items (CPCI)

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- 4.4.2.1 Preliminary Design
- 4.4.2.2 Critical Design
- 4.4.2.3 Development
- 4.4.2.4 Test
- 4.4.2.5 Documentation
- 4.4.2.6 Problem Evaluation and Correction (PEAC)

4.5 SOFTWARE DEVELOPMENT - FOC

The Subcontractor shall repeat the software development process as described in paragraph 4.3 to update his BTTDEV CPCI and associated documentation from the IOC capability to the FOC capability, and he shall deliver upgraded software and data items for the CPCI for the FOC capability.

- 4.5.1 Software Development Management
- 4.5.2 Computer Program Configuration Items (CPCI)
- 4.5.2.1 Preliminary Design
- 4.5.2.2 Critical Design
- 4.5.2.3 Development
- 4.5.2.4 Test

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- 4.5.2.5 Documentation
- 4.5.2.6 Problem Evaluation and Correction (PEAC)
- 4.6 (RESERVED)
- 4.7 (RESERVED)
- 4.8 (RESERVED)
- 4.9 (RESERVED)
- 4.10 TEST AND VERIFICATION BOC

The Subcontractor shall perform test and verification on all segment software and hardware developed and supplied for the BOC capability in the Development and Test Facility at

The Buyer and the Government reserve the right to witness all tests.

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4.10.1 Test Management

The Subcontractor shall provide management to his personnel for segment test and verification of software and hardware developed for the D/C Segment. He shall provide an interface to the Buyer for management, coordination, and planning. He shall participate in the Buyer's Change Control Board during the BOC period, and shall provide CCB Assessments (SDRL Item A211) for all changes considered which affect the D/C Segment hardware and software.

The Subcontractor shall provide management for test activities and shall prepare test plans (SDRL Item Al31) as required by the Segment Test Plan, and test procedures (SDRL A208) for the hardware and software to be tested. He shall provide test methodology at the PDR and CDR segment reviews, and provide a review data package (SDRL Item A207).

The Subcontractor shall prepare Program Trouble Reports (PTR), SDRL Item A210, for all problems found during his testing activities.

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4.10.2 CPCI/CI Test

The Subcontractor shall conduct the software PQT on each CPC, and the software FQT on each CPCI. Testing shall continue until FQT for each CPCI has been satisfactory passed and completed. He shall provide test reports (SDRL Item Al54, for each PQT and FQT performed.

The Subcontractor shall perform a hardware/software qualification test on the IWS hardware and integrated software as received from the Buyer. He shall prepare a test report (SDRL Item A154) for each test performed.

4.10.3 Integration Test

The Subcontractor shall perform inter-CPCI testing, integrated CPCI/CI testing and GFE integration. GFE will include the UNIVAC system, the Local Area Network (LAN), and Delta Data terminal equipment. He shall prepare a test report (SDRL Item Al54) for each test performed.

4.10.4 Factory Pre-Ship Test

The Subcontractor shall perform formal pre-ship test on the segment hardware and software before shipment to the NPIC site, and he shall provide a pre-ship test report, SDRL Item Al54.

4.11 TEST AND VERIFICATION - IOC

The Subcontractor shall perform test and verification on all software and hardware developed and supplied for the IOC capability in the Development and Test Facility at He shall repeat the STAT test process described in paragraph 4.10 for this IOC hardware and software.

- 4.11.1 Test Management
- 4.11.2 CPCI/CI Test
- 4.11.3 Integration Test
- 4.11.4 Factory Pre-Ship Test

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4.12 TEST AND VERIFICATION - FOC

The Subcontractor shall perform test and verification on all software and hardware developed and supplied for the FOC capability in the Development and Test Facility at He shall repeat the test process described in paragraph 4.10 for the FOC hardware and software.

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- 4.12.1 Test Management
- 4.12.2 CPCI/CI Test
- 4.12.3 Integration Test
- 4.12.4 Factory Pre-Ship Test
- 4.13 INSTALLATION, CHECKOUT, AND TEST BOC

The Subcontractor shall plan and perform site installation, checkout, and test for all D/C Segment hardware and software at the NPIC site. The Buyer will provide installation of the computer systems and the Integrated Work Stations (IWS). The Buyer and the Government reserve the right to witness all tests.

4.13.1 Installation, Checkout, and Test Management

The Subcontractor shall provide management to his personnel for site installation, checkout, and test of D/C Segment hardware and software, and for support of System Integrator Contractor tests. He shall provide interfaces to the Buyer and to the SI Contractor for management, coordination, and planning. He shall participate in the Buyer's Change Control Board (CCB) and in the SI Contractor's CCB for the BOC period, and he shall submit to the Buyer CCB Assessments (SDRL Item A211) for all changes considered which affect the D/C Segment hardware and software.

The Subcontractor shall provide management for test activities, and shall prepare any test plans (SDRL Item A131) and test procedures (SDRL Item A208) which may be required for the site tests. He shall prepare Program Trouble Reports (PTR), SDRL Item A210, for all problems found during site tests and demonstrations.

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The Subcontractor shall:

- a. Coordinate on-site system generation with the Buyer and with the SI Contractor and other contractors as appropriate;
- Provide on-site library support; and
- c. Record all on-site computer utilization and computer problems, and submit to the Buyer Computer Utilization/Problem Reports (CU/PR) (SDRL Item A209) at the completion of each scheduled test period.

4.13.2 Facility Planning

The Subcontractor shall perform facility planning, and shall prepare and submit to the Buyer Facility Interface Requirements (IDRs), (SDRL Item Al39).

4.13.3 Installation and Checkout

The Subcontractor shall provide for shipment, planning, installation, and checkout of all D/C Segment items from the Buyer's premises at to the NPIC site, utilizing the assistance of the Buyer's shipping and receiving department. He shall accomplish segment integration and transition to operational status. The Buyer will provide installation of the computer systems and the Integrated Work Stations (IWS).

The Subcontractor shall prepare and submit the following documentation to the Buyer:

- a. Segment Shipping Plan, SDRL Item A147; and
- b. Segment Installation Plan, SDRL Item A134.

4.13.4 Site Segment Test

The Subcontractor shall perform formal Site Segment Test, and shall prepare and submit a Site Segment Test Report (SDRL Item A154) to the Buyer.

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4.13.5 Site Inter-Segment Demos

The Subcontractor shall support the site tests conducted by the SI Contractor, and shall:

- Contribute to the system test plan to be prepared by the SI Contractor (SDRL Item A153);
- b. Participate in on-site system testing; and
- c. Prepare inputs for the system test reports to be prepared by the SI Contractor (SDRL Item A153).

Data to be provided to the SI Contractor shall be provided via the Buyer.

4.13.6 Inter-Program Demos

The Subcontractor shall support site demonstrations conducted by the SI Contractor, and shall:

- Contribute to the inter-program demonstration plan to be prepared by the SI Contractor (SDRL Item A153);
- b. Participate in program demos; and
- c. Provide inputs to the demo test reports to be prepared by the SI Contractor (SDRL Item A153).

Data to be provided to the SI Contractor shall be provided via the Buyer.

4.14 INSTALLATION, CHECKOUT AND TEST - IOC

The Subcontractor shall perform installation, checkout, and test for all D/C Segment hardware and software at the NPIC Site for the IOC capability. He shall repeat the test process described in paragraph 4.13 for this capability.

- 4.14.1 Installation, Checkout and Test Management
- 4.14.2 Facility Planning

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- 4.14.3 Installation and Checkout
- 4.14.4 Site Segment Test
- 4.14.5 Site Inter-Segment Demos
- 4.14.6 Inter-Program Demos
- 4.15 INSTALLATION, CHECKOUT AND TEST FOC

The Subcontractor shall perform installation, checkout, and test for all D/C Segment hardware and software at the NPIC site for the FOC capability. He shall repeat the test process described in paragraph 4.13 for this FOC capability.

- 4.15.1 Installation, Checkout and Test Management
- 4.15.2 Facility Planning
- 4.15.3 Installation and Checkout
- 4.15.4 Site Segment Test
- 4.15.5 Site Inter-Segment Demos
- 4.15.6 Inter-Program Demos
- 4.16 DEVELOPMENT AND TEST FACILITY
- 4.16.1 (Reserved)

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4.16.2 Services

The Subcontractor shall provide qualified system programming support for the UNIVAC system installed in the Development and Test Facility at

The Subcontractor shall be responsible for installation of the system software, and assurance of the on-going integrity of the system control, software development, and software test software.

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4.17 TRAINING

The Subcontractor shall provide necessary training for User Training, Operator Training, and Maintenance Training. Maintenance training will include software and hardware maintenance. Instructors and training materials for the IWS software and hardware will be provided by the Buyer. The Subcontractor shall prepare and publish all training materials and manuals, after drafts have been approved by the Buyer.

4.17.1 Training Management

The Subcontractor shall provide a training management organization which shall manage all training activities and provide an interface to the Buyer for overall management, planning, and coordination. He shall prepare a Segment Training Plan, SDRL Item Al40, and he shall present his training concepts and implementation plans at the PDR and CDR reviews for each capability - BOC, IOC, and FOC. For each review, he must submit a review data package, SDRL Item A207.

4.17.2 User Training

The Subcontractor shall provide user training for each capability. He shall prepare and publish user training materials (SDRL Item A146) for the D/C Segment which do not already exist or which will not be prepared by co-subcontractors. He shall accept inputs from the other segments, and integrate these inputs into his user training materials.

Training classes shall include system users and Government instructors.

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4.17.3 Operator Training

The Subcontractor shall provide operator training for each capability. He shall prepare and publish operator training materials (SDRL Item A146) for the D/C Segment which do not clearly exist. He shall accept inputs from the other segments, and integrate these inputs into his operator training materials.

Training classes shall include segment operators, system operators, and management personnel.

4.17.4 Maintenance Training

The Subcontractor shall provide maintenance training to all D/C Segment maintenance personnel. He shall prepare and publish maintenance training materials (SDRL Item Al46) required for this training which do not already exist.

4.18 OPERATIONS AND MAINTENANCE

- 4.18.1 (Reserved)
- 4.18.2 (Reserved)

4.18.3 Software Maintenance

Software maintenance support, PEAC, and documentation update shall be provided by the Subcontractor as required following completion of FQT software tests.

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Section 5

PRESERVATION, PACKAGING, PACKING, AND MARKING

5.1 UNCLASSIFIED DOCUMENTS

The Subcontractor shall deliver all unclassified documents directly to the Buyer on the $\hfill\Box$ packaged in $\hfill\Box$ a protective wrapper which contain the following information:

- a. Document Title
- b. SDRL Identification
- c. Subcontract Number
- d. Subcontractor Identification

The SDRL identification shall be formed as follows:

AXXX-Y

where the letter A designates the specific subcontractor, XXX designates the SDRL item number, and Y designates the capability (BOC = 1, IOC = 2, and FOC = 3).

5.2 CLASSIFIED DOCUMENTS

Classified documents shall be delivered by the Subcontractor packaged in conformance to security regulations for the NPIC Program, and marked with the following information:

- a. Document Title
- b. SDRL Identification
- c. Subcontract Number
- d. Subcontractor Identification
- e. Classified Document Control Number

The security classification shall not be marked on any outer package wrappings.

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5.3 MAGNETIC TAPES

Magnetic tapes should be packaged in protective tape cans, sealed and marked with the following information:

- a. Tape Identification
- b. Capability Phase (BOC, IOC, or FOC)
- c. Subcontract Number
- d. Subcontractor Identification
- e. Classified Control Number, if applicable.

This information shall also be marked on the tape reel, together with the security classification of the tape contents.

5.4 MIXED CONTENTS

When a delivery consists of unclassified documents, classified documents, and/or magnetic tapes in any combination, the Subcontractor shall package the total delivery in one outer package conforming to security regulation, and marked with the appropriate information as specified in paragraphs 5.1, 5.2, and/or 5.3 herein.

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Section 6

PERIOD OF PERFORMANCE AND DELIVERIES

6.1 PERIOD OF PERFORMANCE

The period of performance of this Statement of Work begins on the effective date of the Purchase Order, and continues until September 30 STAT 1987.

6.2 DELIVERIES

The Subcontractor shall deliver to, or complete for, the Buyer the supplies and services listed below in accordance with the criteria set forth in Sections 3, 4, and 5 herein, and in accordance with the following schedule:

| Item No. | Description | Reference | <u>Date</u> |
|----------|---|---|--|
| 1 | Project Management | Para. 4.1 | AR |
| 2 | System Engineering | Para. 4.2 | AR |
| 3 | Software Development | • | |
| 4 | a. BTTDEV CPCI for BOC b. BMANIP CPCI for BOC c. BTTDEV CPCI for IOC d. BMANIP CPCI for IOC e. BTTDEV CPCI for FOC Test and Verification | Para. 4.3 Para. 4.3 Para. 4.4 Para. 4.4 Para. 4.5 | Sep 1983 Sep 1983 Mar 1984 Jun 1984 Sep 1985 |
| 5 | a. BOCb. IOCc. FOCInstallation, Checkout and Test | Para. 4.10 Para. 4.11 Para. 4.12 | Dec 1983 Feb 1985 Jun 1986 |
| | a. BOC b. IOC c. FOC | Para. 4.13 Para. 4.14 Para. 4.15 | Feb 1984 May 1985 Jul 1986 |

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| Item No. | Description | Reference | Date |
|----------|----------------------------|--|----------------------------------|
| 6 | UNIVAC System Support | Para. 4.16 | AR |
| 7 | Training | | |
| | a. BOC b. IOC c. FOC | Para. 4.17 Para. 4.17 Para. 4.17 | May 1984 Oct 1985 Sep 1986 |
| 8 | Software Maintenance | Para. 4.18 | AR |

Where specific dates for an item or service cannot be identified, the abbreviation AR is used to indicate "As Required". Examples: Project Management, System Engineering.

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| | | Section 7 | | | |
| | INSPECT | CION AND ACCEPTANCE | | | |
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| 7.3 | ACCEPTAN | NCE CRITERIA | | , * · · | |
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best commercial practice in appearance.

100-series data will be accepted after it has been approved by the

Customer, providing that it meets data requirements in content, and

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7.3.3.2 200-Series Data

200-series data will be accepted after it has been reviewed by found technically complete and accurate, and meets best commercial practice in appearance. This acceptance will normally occur within 30 calendar days of submission.

7.3.3.3 Requirements

All original data shall normally be delivered in the form of a reproducible master of high quality suitable for photographic reproduction without touchup. Black lettering and drawing on 8 1/2" x 11" high quality white bond paper is required. Drawings larger than this size shall be reduced to this size providing that no clarity of detail of readibility is lost.

Original data in the form of computer printouts must be delivered on white paper from one copy printouts, with alpha/numerical impressions sharp and clear in high black contrast to the paper.

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Section 8

BUYER-FURNISHED FACILITIES AND SUPPORT

| The Buyer will provide the following facilities and items of support to the Subcontractor on the to the performance of the tasks required under this Statement of Work: | STAT |
|---|------|
| Development and Test Facility, containing necessary computer systems and other equipment for the development and test of NPIC software; | |
| Office facilities equivalent to those utilized by the Buyer's personnel at the same professional level, including desks, chairs, file cabinets, etc.; | |
| c. Telephone service; | |
| d. Typing and other administrative support, including document reproduction service, equivalent to that utilized by the Buyer's NPIC Program Office; and | |
| e. Stationery and office supplies equivalent to those available to the Buyer's NPIC Program Office. | |
| These facilities and items of support will be available for the period of performance of this Statement of Work. | |
| The Buyer and the Subcontractor shall agree at the time of subcontractor negotiations upon the number and professional level of personnel to be resident on the premises. | |

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Appendix A

SUBCONTRACT DATA REQUIREMENTS LIST

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The following is a list of all subcontract data deliverable with delivery schedule and format references. The associated DRDs are shown in Appendix B herein.

Data items should normally be submitted as a reproducible master and six copies. Publication and approval will be accomplished by the Buyer. Copies of computer printouts may be reduced. All data items require Buyer's approval upon submission by the Subcontractor. If disapproved, the data item will be returned to the Subcontractor for correction and resubmission.

The reproducible master shall be of high quality suitable for photographic reproduction without touchup. Black lettering and line drawings on 8 1/2" x 11" high quality white bond paper is required. Drawings larger than this size shall be reduced to this size, providing that no clarity of detail or readibility is lost. Separate, individual drawings shall be prepared if drawing reduction cannot be accomplished.

Data in the form of computer printouts must be delivered on white paper from one copy impressions, with all printing sharp and clear in high black contract to the white paper. The original printout, as specified, shall serve as a reproducible master.

| SDRL Item | Data Requirement | Date Required | -DRI |
|-----------|---|---|------|
| A102 | Financial Plan | To Be Specified | 800 |
| A103 | Inputs to Master Schedule | As Required | 801 |
| A105 | Security Plan | To Be Specified | 802 |
| A109 | Monthly Financial Report | 10 Days After End IBM Accounting Month | 805 |
| A110 | Milestone Updates | Every Six Months | 806 |
| A111 | Milestone Report | Weekly | 807 |
| A113 | Quarterly Progress and Status Report | 10 Days After End IBM Accounting Quarter | 809 |
| A115 | Segment Transition and Integration Plan | PDR-60 Days (PRELIM) CDR-60 Days (Update) H/W DLVY-120 Days (Final) | 726 |
| A116 | Segment Operations Concept | PDR-45 Days | 700 |
| . A117 | Segment Design Specification | PDR-60 Days | 706 |

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| SDRL Item | Data Requirement | Date Required | -DRD |
|-----------|--|--|------|
| A120 | Engineering Tech Notes | As Required | 811 |
| A121 | Segment Verification Plan | PDR-60 Days | 734 |
| A122 | Segment Design Analysis Report | PDR-60 Days (Update) CDR-60 Days (Final) | 812 |
| A123 | O&M Plan | PDR-60 Days (PRELIM) CDR-60 Days (Final) | 813 |
| A124 | Maintenance & Logistics Plan | To Be Specified | 722 |
| A125 | Data Base Specification | PDR-60 Days (PRELIM) CDR-60 Days (Final) | 710 |
| A126 | Operations/Software Inter- face Specification | PDR-60 Days (PRELIM) CDR-60 Days (Final) | 712 |
| A127 | Operations/Hardware Interface Specification | PDR-60 Days (PRELIM) CDR-60 Days (Final) | 713 |
| A128 | Hardware/Software Interface Specification | PDR-60 Days (PRELIM) CDR-60 Days (Final) | 714 |
| A129 | Software/Software Interface Specification | PDR-60 Days (PRELIM) CDR-60 Days (Final) | 715 |
| A130 | Segment Test Plan | PDR-60 Days (PRELIM) CDR-60 Days (Final) | 718 |
| A131 | Test Plans | PDR+30 Days (PRELIM) CDR-60 Days (Final) | 814 |
| A133 | Segment Operation Specification | PDR-60 Days | 711 |
| A134 | Segment Installation Plan | PDR-60 Days (PRELIM) CDR-60 Days (Update) Ship-90 Days (Final) | 815 |
| A135 | User Manuals (SOT = Start of Training) | PDR-60 Days (PRELIM) CDR-60 Days (Update) SOT-30 Days (Final) | 816 |

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| SDRL Ite | em Data <u>Requirement</u> | Date Required | -DRD |
|----------|---|--|------|
| A136 | Operators Manuals (SOT = Start of Training) | PDR-60 Days (PRELIM) CDR-60 Days (Update) SOT-30 Days (Final) | 817 |
| A138 | Programmers Manual (SA = Segment Acceptance) | CDR-60 Days (PRELIM) SA-30 Days (Final) | 819 |
| Á139 | Facility IDRS (SOT = Start of Segment Test) | PDR-60 Days (Preliminary Version A) CDR-60 Days (Update Versions A-E) SOT-30 Days (Final Versions A-E) | 742 |
| A140 | Training Plan | PDR+30 Days (PRELIM) CDR-60 Days (Final) | 724 |
| A141 | CPCI Part I Specification | PDR-60 Days | 709 |
| A142 | CPCI Part II Specification | PDR-60 Days (PRELIM) CDR-60 Days (Build-to) FQT+45 Days (As-built) | 719 |
| A145 | Data Dictionary | PDR-30 Days (PRELIM) CDR-60 Days (Build-to) FQT+45 Days (As-built) | 822 |
| A146 | Training Materials (SOT = Start of Training) | CDR-30 Days (PRELIM) SOT-90 Days (Final) | 823 |
| A147 | Shipping Plan | SHIP-90 Days | 824 |
| A150 | CPCI Listings (As-built) | Segment Acceptance+30 Days | 730 |
| A152 | Software Version Description Document | SHIP+15 Days | 732 |
| A153 | System Test/Demo Inputs | Test-210 Days (Inputs) Test+10 Days (Reports) | 826 |
| A154 | Segment Test Reports | Test+10 Days | 733 |
| A156 | Accession List | Updated Monthly with A109 | 828 |
| A201 | Weekly Financial Report | Weekly | 900 |

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| SDRL Item | Data Requirement | Date Required . | -DRD |
|-----------|---|--------------------------------------|------|
| A202 | Status Data for NDPO Schedule System | Updated Monthly | 901 |
| A204 | Project Master Control Plan | Weekly | 902 |
| A207 | Review Data Package | Review-30 Days | 905 |
| A208 | Test Procedures | Test-45 Days | 721 |
| A209 | Computer Utilization/Problem Report (CU/PR) | End of Each Scheduled Test Period | 906 |
| A210 | Program Trouble Reports (PTR) | When Trouble Found | 907 |
| A211 | CCB Assessment | When Requested | 908 |

When SDRL items are submitted to the Buyer, they shall be identified as to capability for which they are submitted by a suffix to the item number as follows:

- -1 BOC Capability
- -2 IOC Capability
- -3 FOC Capability

APPENDIX B

Data Requirement Description

(DRD)

Note: The DRDs are not included with this proposal to NPIC because the DRDs are duplicates of those in the RFP.

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| - 31A | 7935494 Revision | DOCUMENT NO | NT TITLE | DOCUME | |
|----------|------------------|-------------------|------------------|---------|--|
| <u> </u> | January 27, 1982 | DOCUMENT DATE | TATEMENT OF WORK | NPIC S' | |
| STA | | ORIGINATING GROUP | SUBCONTRACT | FOR | |
| STA | | | PREPARED BY: | | |
| STA | | | | | |
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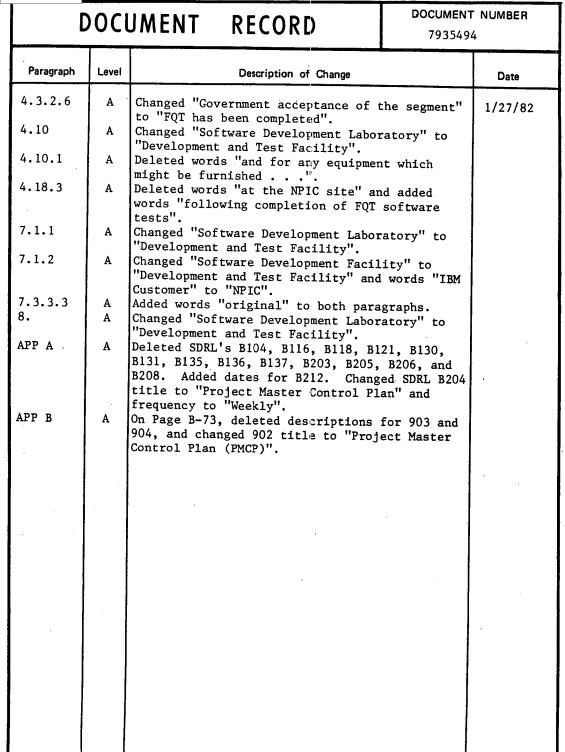
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STAT Statement of Work Page 1 DOCUMENT NUMBER DOCUMENT RECORD 7935494 Date Description of Change Paragraph Level 1/11/82 Release 1/27/82 Document 7935658. 2.3 Added **STAT** A Added PMCP requirement. 4.1.1 Α Deleted NPIC Development Plan. 4.1.2 A Added designation SDRL Item B201 to 2nd Para. 4.1.2.1 A Deleted Designation SDRL Item B109 in a. and 4.1.2.3 A deleted Monthly Reviews and SDRL B207 requirement. Added "and at the NPIC site". 4.1.3 Α Added SDRL B152 requirement. 4.1.4 Deleted works "System Engineering will" and 4.2 A substituted "He shall". Deleted words "develop and enfore" and added 4.2.1 "enforce the Buyer's", and deleted input requirement for SDRL B118. Deleted items a., b., and f., relabeled items 4.2.2 Α c., d., and e. and changed wording on new a. to "Provide analysis to assure performance for his CPCI's". Added paragraph 4.2.2.1 title. 4.2.2.2 Renumbered paragraph 4.2.9 and moved to paragraph 4.2.2. Renumbered paragraph 4.2.10, moved it to 4.2.2.3 paragraph 4.2.2.3, and clarified the SDRL B119 requirement. 4.2.3 Deleted the first paragraph and the SDRL B116 and SDRL B133 requirements. Deleted the second paragraph and the SDRL B206 requirement. STAT 4.2.4 Deleted item c. Added requirements of Document 7935658. 4.2.6 Deleted items a., b., and c. 4.2.8 Revised wording of first paragraph. Defined NDPO in item e. 4.3.1 Added "The Buyer reserves the right . . ." and deleted the SDRL B104 requirement. Changed "Software Development Plan, SDRL Item B204" to "Project Master Control Plan (PMCP)" and "SDP" to "plan". Changed CPDP to "D/C Segment Development Plan". 4.3.2 Deleted items a. and e. and relabeled items b., 4.3.2.4 c., and d. 4.3.2.5 Deleted SDRL B203 requirement and added SDRL B138 requirement. Revised 2nd paragraph, and deleted third paragraph. Deleted SDRL A137 and SDRL B152 requirements.

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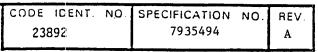
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Section 1

INTRODUCTION

| This Statement of Work (SOW) defines the efforts to be perfo | ormed by |
|---|-----------------|
| hereinafter referred to as the Sub | contractor STAT |
| for the development and delivery of NPIC software, supporting ver | cification |
| and test, systems engineering tasks and data activities. The pri | |
| contractor for the NPIC Data and Control Acquisition Phase is the | : Federal |
| Systems Division of the | herein- STAT |
| after referred to as the Buyer. The abbreviation shall be un | nderstood STAT |
| to refer to the Subcontractor and the abbreviation shall be u | inderstood STAT |
| to refer to the Buyer. | |

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Section 2

APPLICABLE DOCUMENTS

The following documents of the exact issue shown form a part of this SOW generally and to the extent specified herein. In the event of conflict between documents referenced in this section and detailed requirements of subsequent sections said detailed requires shall supersede the general requirements of the referenced document. Conflicts or questions for the referenced documents shall be resolved by the Subcontract Administrator of the Buyer.

The term "Buyer" shall be substituted for "Government" (or agency thereof) and the term "Subcontract Administrator" shall be substituted for "contracting Officer", as applicable.

2.1 NPIC DOCUMENTS

| Document Number/Date | Document Title |
|---|---|
| S70001A 30 March 1981 UNC-133-81 12 October 1981 | NPIC Development Program Implementation Directive and Appendix 10.1 |
| S7000A 1 April 1981 | NPIC System Specification |
| S7400A 24 December 1981 | Data and Control Segment (D/C) Specification |
| 8 April 1981 | D/C Segment Minimum Modification for FY-1984 |
| 19 October 1981 | NDP Master Schedule |
| 1 April 1981 | NDPO Security Guide |
| S7002 1 October 1981 | Systems Operations Concept |
| IF70204 20 November 1981 | C/S to D/C ICD |

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IF70304

C/I to D/C ICD

20 November 1981

IF70405

D/C to E/R ICD

20 November 1981

2.2 MILITARY SPECIFICATION AND STANDARDS

MIL-STD-1472B

Human Engineering Design Criteria for Military

31 December 1974

Systems

MIL-S-52779A

Software Quality Assurance Requirements

1 August 1979

MIL-STD-490 18 May 1972 Specification Practices

MIL-STD-483 21 March 1979

Configuration Management Practices for Systems,

Equipment, Munitions, and Computer Programs

MIL-Q-9858A

16 December 1963

Quality Program Requirements

2.3 DOCUMENTS

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7935496 (TBS)

NPIC WBS Structure

7935497

NPIC Quality Assurance Plan

(TBS)

NPIC D/C Segment Configuration Management Plan

7935498 (TBS)

7935499

NPIC D/C Segment Security Plan

(TBS)

7935655 (TBS) D/C Segment Development Plan (SDP)

7935656

NPIC Programming Practices Standards and Conventions

(TBS) (PPS&C)

7935658

D/C Segment Design Specification

(TBS)

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2.4 OTHER DOCUMENTS

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Federal Information Processing Standards Publications (FIPSPUBS) (NBS Publications List 58)

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Section 3

SUPPLIES/SERVICES

The Subcontractor shall furnish the necessary personnel, materials, equipment and services required to design and develop a portion of the NPIC software in accordance with the requirements of this SOW. The supplies/services to be provided shall be as follows:

| Item No. | Supplies/Services | Reference |
|--------------|---|---|
| 1 | Project Management | Para. 4.1 |
| 2 | System Engineering | Para. 4.2 |
| 3 | Software Development | |
| | →a. BEPPRE CPCI for BOC →b. BEPPRE CPCI for IOC c. BEPPRE CPCI for FOC | Para. 4.3 Para. 4.4 Para. 4.5 |
| 4 | Operations & Maintenance | Para. 4.18 |
| Option Items | | |
| 5 | System Engineering | Para. 4.2 |
| 6 | Software Development | |
| | a. BEPPRE CPCI for BOC b. BUSERS CPCI for BOC c. BEPPRE CPCI for IOC d. BUSERS CPCI for IOC e. BEPPRE CPCI for FOC f. BUSERS CPCI for FOC | Para. 4.3 Para. 4.4 Para. 4.4 Para. 4.5 Para. 4.5 |
| | | |

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Section 4

DESCRIPTION OF ITEMS

This section contains the description and requirements for the contract line items specified in Section 3 herein. The Subcontractor shall manage and perform any and all activities necessary to prepare, design, procure, fabricate, code, assemble, debug, test, integrate, support, and deliver the specified contract line items.

4.1 PROJECT MANAGEMENT

The Subcontractor shall perform the tasks required by this Statement of Work on the Buyer's premises at Gaithersburg, Maryland. Any exceptions must be specifically approved by the Buyer in writing.

4.1.1 Project Management

The Subcontractor shall provide a project organization and the necessary management to satisfy the requirements of this Statement of Work. The management function shall include project planning, project staffing, personnel and property management, and the interface between the Subcontractor and the Buyer, in addition to the normal management activities required to assure satisfactory performance of all tasks on schedule within budget constraints to required levels of quality.

A Financial Plan, SDRL Item Bl02, shall be prepared by the Subcontractor to depict the negotiated subcontract and subsequent negotiated changes thereto. It shall be revised and/or updated whenever appropriate to reflect current planning.

A Master Schedule, CDRL Item 103, will be prepared and maintained by the Buyer for the prime contract. The Subcontractor shall make monthly inputs (SDRL Item B103) to this master schedule to reflect current status and planning.

The Subcontractor shall provide weekly inputs to the Buyer's Project Master Control Plan (PMCP) as SDRL Item B204.

4.1.2 Project Control

The Subcontractor shall provide a project control function which furnishes financial management, schedule management, data management, status monitoring and reporting, and resolution of cost, schedule, and technical problems.

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The Subcontractor shall provide a mechanism for early detection and resolution of cost, schedule, and/or technical problems, and for coordination of this resolution with the Buyer.

The Subcontractor's activities must be planned under this Statement of Work to support the following key segment milestones:

| a. | Interprogram Demo | April 1984 | | | |
|----|----------------------------|-----------------|--|--|--|
| ъ. | Interface Changes | May 1984 | | | |
| c. | BOC Operational Transition | October 1984 | | | |
| d. | IOC Operational Transition | July 1985 (TBR) | | | |
| e. | FOC Operational Transition | July 1987 (TBR) | | | |

4.1.2.1 Financial Management

The Subcontractor shall perform financial management activities sufficient to assure control of all expenditure and commitments, and to provide accurate cost control to the sixth level of the WBS and accurate cost reporting to the fourth level of the WBS to satisfy the requirements of Data Requirements Description (DRD) 805 of Appendix B herein. The financial management function shall prepare and submit a monthly financial report, SDRL Item B109, which provides a schedule report, a cost/schedule status report, a staffing report, a subcontract funds status report, and a narrative report. Financial management shall be based upon a Work Breakdown Structure (WBS) prepared by the Buyer, Document 7935496.

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The Buyer reserves the option to impose weekly (or biweekly if accounting structure will not permit weekly) financial reporting upon the Subcontractor if significant deviations in costs are projected and/or experienced at the second level WBSID (SDRL Item B201).

The Subcontractor shall perform travel, other than local travel, in the metropolitan Washington, D.C., area, when directed by the Buyer, or only after approval by the Buyer in advance of the travel when requested by the Subcontractor. Buyer's direction or approval shall be in writing, and state the purpose and duration of the travel, and the specific individuals authorized for the travel. Travel undertaken without this direction or advance approval shall be considered as a non-allowable cost to the subcontract.

The Subcontractor shall incur other direct cost (ODC) only after approval by the Buyer. ODC refers to elements of cost other than labor, burden, purchases and subcontracts, and travel. Buyer's approval shall be in writing, stating the purpose and the estimated monetary value of the ODC. ODC incurred without Buyer's prior approval shall be considered as a non-allowable cost to the subcontract.

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4.1.2.2 Schedule Management

The Subcontractor shall use a schedule control and monitoring system that is capable of:

- a. Providing schedule status for monthly and quarterly reports;
- b. Reflecting time durations of all major tasks such as planning, designing, implementing, testing, and preparing documentation;
- c. Reflecting the planned start and completion dates for all major activities and events;
- d. Reflecting slack where applicable, and reflecting workaround schedules when delays have occurred;
- e. Reflecting the impact of early starts and of slippages on future milestones, and of conflicts which may be created in the utilization of common test facilities and equipment;
- f. Providing a narrative report addressing all problem areas in the schedule;
- g. Maintaining the contractual schedule plan for easy comparison to current status;
- h. Reflecting the latest allowable dates for major events and activities; and
- Identifying schedule progress to the approved WBS for the subcontract.

The Subcontractor is encouraged to utilize his existing in-house techniques to the maximum extent possible to satisfy these schedule management requirements.

The schedule management function shall assist in the preparation of the Monthly Financial Report, SDRL Item B109, and of the Quarterly Progress and Status Report, SDRL Item B113. It shall prepare and submit Milestone Updates, SDRL Item B110, and Milestone Reports, SDRL Item B111, and any status data required for input to the NDPO schedule system, SDRL Item B202.

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4.1.2.3 Status Monitoring and Reporting

The Subcontractor shall establish a status monitoring and reporting system which shall:

- a. Assist in the preparation of the Monthly Financial Reports;
- b. Prepare Quarterly Progress and Status Reports, SDRL Item B113; and
- c. Prepare status presentations (including action item status) for weekly reviews.

4.1.3 Quality Assurance

The Subcontractor shall be responsible for the quality of his contract line items, and shall perform quality assurance for the line items of Section 3 herein in accordance with the Buyer's Software Quality Assurance Plan, Document 7935497. Quality assurance for work performed on the Buyer's premises and at the NPIC site shall be provided by the Buyer, but quality performance remains the responsibility of the Subcontractor.



4.1.4 Configuration Management

The Subcontractor shall provide configuration management of hardware, software, firmware, procedures, plans, specifications, and other documents in accordance with the Buyer's Configuration Management Plan, Document 7935498, and associated procedures. He shall participate in the Buyer's Change Control Board, and he shall provide necessary product and document control.

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The Subcontractor shall provide inputs to the software Version Description Documents (SDRL Item B152) for each of his CPCIs.

4.1.5 Security

The Subcontractor shall conform to the Buyer's Security Plan, Document 7935499, and associated procedures. He shall prepare a separate Security Plan, SDRL Item B105, for any of his activities which are not conducted on Buyer's premises. Security procedures to implement his plan must be approved by the Buyer.

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4.1.6 Status Reviews/Technical Interface Meetings

The Subcontractor shall participate in Monthly Status Reviews conducted by the Buyer for the NPIC customer. These reviews are expected to be one day in duration, and will discuss cost and status, progress, problems, plans, and other issues as necessary. Each third review will include an in-depth financial review. The Subcontractor will be assigned agenda items to prepare for these reviews, and action items for followup and resolution as a result of these reviews. He shall submit a review data package, SDRL Item B207, for each review.

The Subcontractor shall also participate in Weekly Status/Technical Interface Meetings with the Buyer. Review data packages are not required as a SDRL Item, but appropriate handouts for the status and subjects under discussion should be available at the meetings.

4.1.7 (Reserved)

4.1.8 Document Publication and Control

The Subcontractor shall perform document publication and control activities sufficient to assure timely and accurate submission of data to the Buyer in accordance with the Subcontract Data Requirements List (SDRL), Appendix A herein. All documentation for delivery to the NPIC customer will be published and distributed by the Buyer, including classified document control. All documents shall be prepared according to Buyer-specified format and style, or to a format and style mutually agreed by the Buyer and the Subcontractor if none are specified.

The subcontractor shall prepare a Data Accession List, SDRL Item B156, and submit with monthly updates to the Buyer on a monthly basis.

4.2 SYSTEM ENGINEERING

The Subcontractor shall develop software CPCI's as follows:

- a. BEPPRE Pre-Exploitation
- b. a. above plus BUSERS Users Support (option)

He shall develop the Part I specifications, and provide support to Software Development for the Part II specifications.

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4.2.1 System Engineering Management

The Subcontractor shall provide technical management of all of his activities as part of his System Engineering management. He shall enforce the Buyer's hardware/software/operations interface standards for his CPCI's, and input these standards to the Buyer (SDRL Item B118). He shall provide inputs to the Segment Development Plan, SDRL Item B104. The System Engineering process will continue through BOC, and be repeated as necessary for IOC and FOC.

4.2.2 Analysis

4.2.2.1 Analysis for Subcontractor CPCI's

The Subcontractor shall perform the following tasks for his CPCI's:

- a. Provide analysis to assure performance for his CPCI's;
- . b. Provide inputs to the Segment Design Analysis Report, SDRL Item B122; and
 - Accomplish trade studies for his CPCI's.

4.2.2.2 Design Validation

The Subcontractor will validate the performance of the D/C Segment by developing a system simulation model which will be capable of assessing the performance of hardware and software components under expected peak load conditions as defined by:

- a. D/C Segment Specification (S7400A);
- b. Segment Design Specification; and
- c. All interface specifications to the D/C Segment (IF70304, IF70405, IF70204).

All performance assumptions will be clearly documented and verified with Systems Engineering. The Subcontractor will perform trade studies to determine sensitivity of performance to design and load parameter values. The modeling and trade studies will treat memory allocation and priority scheduling.

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The Subcontractor will validate data base performance by detailed modeling and simulation. This modeling will include variations in DASD configurations, allocation of files to specific physical devices, and contention for specific channels and devices. The Subcontractor will also validate communications performance as it relates to the D/C Segment. This modeling will include contention, data rates, and total communication workload. Interface queuing will be treated. The results of segment validation modeling and simulation will be used to verify specific segment requirements and the correspondence. The result of this task will be documented in the Design Validation Report, SDRL Item B212.

In support of this task, the Subcontractor will develop simulation tools, as required, to support the detail modeling and simulation task described above. Software developed for simulation will be documented. The anticipated simulation tools will include a segment performance model and a segment operations model.

4.2.2.3 Requirements Traceability

The Subcontractor will trace requirements from their source and the D/C specification and ICDs to the paragraph references in the following documents:

- a. Segment Design Specification;
- b. CPCI Part I Specifications;
- c. Software/Software Interface Specifications;
- d. Segment Operations/Hardware Specification;
- e. Operation/Software Interface Specification; and
- f. Hardware/Software Interface Specification.

The Subcontractor shall prepare and submit the Requirements Traceability Matrix, SDRL Item B119, to the Buyer.

4.2.3 Operations Engineering and Development

The Subcontractor shall prepare inputs for the O&M Plan, SDRL Item B123, and the Maintenance & Logistics Plan, SDRL Item B124. The Buyer will coordinate inputs from all subcontractors and will publish one overall document for each item.



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4.2.4 Design

The Subcontractor shall participate in each of the following documents for his CPCI's by supplying inputs to the Buyer:

- Segment Design Specification, SDRL Item B117;
- b. Data Base Specification, SDRL Item B125; and
- c. Interface Specifications, SDRL Items B126, B127, B128 and B129.

The Subcontractor shall participate in requirements allocation studies with the Buyer, and shall prepare a CPCI Part I specification, SDRL Item B141, for each of his CPCI's. These specifications will contain the information specified in NPIC document S7001, and shall satisfy the requirements of pocument 7935658. The format of the specification will be provided by the Buyer to assure uniformity of preparation by the subcontractors. The Subcontractor will prepare his Part I specifications using the SCRIPT facility of the Software Development Laboratory on the Buyer's premises. He must present and defend his design at the PDR review, and provide suitable update to the Part I specifications after this review.

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4.2.5 (Reserved)

4.2.6 Test Support

The System Engineering function shall support the execution and evaluation of all software test performed by the Subcontractor.

4.2.7 CM Support

The System Engineering function of the Subcontractor's organization shall provide support to the Configuration Management function by:

- a. Evaluating proposed changes;
- b. Providing change request impact analysis; and
- c. Providing interface control.

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4.2.8 Technical Reviews

The Subcontractor shall support all technical reviews imposed upon him by the Buyer (i.e. PDR, CDR, SDR, etc.) for his CPCI's. He shall provide a Review Data Package (SDRL Item B207) for each review, and shall provide followup on all action items assigned to him as a result of these reviews.

Technical reviews will be required for each capability - i.e. a CDR will be held for BOC, for IOC, and for FOC capability.

Technical reviews will consist of:

- Segment Design Review (SDR);
- b. Preliminary Design Review (PDR);
- c. Critical Design Review (CDR);
- d. Segment Readiness Reviews; and
- e. Other reviews which may be defined by the Customer's STAT NPIC Development Program Office (NDPO).

4.3 SOFTWARE DEVELOPMENT - BOC

4.3.1 Software Development Management

The Subcontractor shall provide software management for all of his software development activities to produce the deliverable products required for the contract line items of Section 3 herein. He shall enforce program design, coding, and test practices, standards and conventions, documentation, and configuration control for the NDC D/C software products in accordance with NPIC Document S7001, and with the Buyer's D/C Segment Development Plan (SDP), Document 7935655, and STAT NPIC Programming Practices Standards and Conventions (PPS&C), Document 7935656. The Buyer reserves the right to attend and participate in all design reviews and code inspections conducted by the Subcontractor.

The Subcontractor shall accomplish reporting of software development status via the Project Master Control Plan (PMCP). He shall assume that non-redundant errors found during design inspection, code inspection, unit test, and software integration and test must be separately maintained in the plan by CPC. Errors are defined to be defects which require source changes for correction.

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4.3.2 Computer Program Configuration Items (CPCI)

The Subcontractor shall provide the following CPCI's for the BOC capability:

- a. BEPPRE Pre-Exploitation
- a. above plus BUSERS User Support (option)

These CPCI's shall be based upon the CPCI Part I specifications prepared by the Subcontractors System Engineering function, and shall be developed in conformance to the D/C Segment Development Plan, Document 7935655.

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4.3.2.1 Preliminary Design

The Subcontractor shall:

- Participate in requirements analysis and allocation;
- b. Support the System Engineering activity in the development of a CPCI Part I specification for each CPCI;
- c. Prepare a preliminary CPCI Part II specification for each CPCI, SDRL Item B142;
- d. Conduct internal design reviews for each CPCI; and
- e. Present his preliminary CPCI designs at the PDR design review.

All software modules which exist in Univac code shall be identified in the preliminary CPCI II specifications; furthermore, candidate modules for conversion without functional modification shall also be identified.

4.3.2.2 Critical Design

The Subcontractor shall prepare the build-to CPCI Part II specifications for each CPCI after Buyer approval of the preliminary specifications. He shall conduct internal design reviews during this development process, and present his build-to design at the CDR review.

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4.3.2.3 Development

The Subcontractor shall code and debug his software for each CPCI after Buyer approval of the build-to CPCI Part II specifications. He shall then prepare as-built CPCI Part II specifications for each CPCI.

4.3.2.4 Test

The Subcontractor shall:

- a. Unit test his software at the module level;
- b. Integrate modules and test to the CPC level in preparation for PQT; and
- c. Support Test and Verification involving his software.

The Buyer and the Government reserve the right to witness all tests.

4.3.2.5 Documentation

Concurrent with preparation of the build-to and as-built CPCI Part II specifications, the Subcontractor shall prepare preliminary and final Programmers Manuals (SDRL Item B138) for each CPCI. Software inputs to any training manuals which will be required shall also be prepared.

The Subcontractor shall supply as-built CPCI listings (SDRL Item B150) when segment acceptance occurs for the BOC capability.

4.3.2.6 Problem Evaluation and Correction

The Subcontractor shall provide software support for Problem Evaluation and Correction (PEAC). PEAC will be required for each CPCI following the Preliminary Qualification Test (PQT) of the first Computer Program Component (CPC) until FQT has been completed.

4.4 SOFTWARE DEVELOPMENT - IOC

The Subcontractor shall repeat the software development process as described in paragraph 4.3 to update his CPCI's and associated documentation to provide for the IOC capability, and he shall deliver upgraded software and data items for each CPCI.

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- 4.4.1 Software Development Management
- 4.4.2 Computer Program Configuration Items (CPCI)
- 4.4.2.1 Preliminary Design
- 4.4.2.2 Critical Design
- 4.4.2.3 Development
- 4.4.2.4 Test
- 4.4.2.5 Documentation
- 4.4.2.6 Problem Evaluation and Correction (PEAC)
- 4.5 (RESERVED)
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- 4.10 (RESERVED)
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- 4.13 (RESERVED)
- 4.14 (RESERVED)
- 4.15 (RESERVED)
- 4.16 (RESERVED)
- 4.17 (RESERVED)
- 4.18 OPERATIONS AND MAINTENANCE
- 4.18.1 (Reserved)
- 4.18.2 (Reserved)
- 4.18.3 Software Maintenance

Software maintenance support, PEAC, and documentation update shall be provided by the Subcontractor as required following completion of the FOT software tests on his CPCI's.

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Section 5

PRESERVATION, PACKAGING, PACKING, AND MARKING

5.1 UNCLASSIFIED DOCUMENTS

The Subcontractor shall deliver all unclassified documents directly to the Buyer on the premises at packaged in packaged in a protective wrapper which contain the following information:

- a. Document Title
- b. SDRL Identification
- c. Subcontract Number
- d. Subcontractor Identification

The SDRL identification shall be formed as follows:

AXXX-Y

where the letter A designates the specific subcontractor, XXX designates the SDRL item number, and Y designates the capability (BOC = 1, IOC = 2, and FOC = 3).

5.2 CLASSIFIED DOCUMENTS

Classified documents shall be delivered by the Subcontractor packaged in conformance to security regulations for the NPIC Program, and marked with the following information:

- a. Document Title
- b. SDRL Identification
- c. Subcontract Number
- d. Subcontractor Identification
- e. Classified Document Control Number

The security classification shall not be marked on any outer package wrappings.

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5.3 MAGNETIC TAPES

Magnetic tapes should be packaged in protective tape cans, sealed and marked with the following information:

- a. Tape Identification
- b. Capability Phase (BOC, IOC, or FOC)
- c. Subcontract Number
- d. Subcontractor Identification
- e. Classified Control Number, if applicable.

This information shall also be marked on the tape reel, together with the security classification of the tape contents.

5.4 MIXED CONTENTS

When a delivery consists of unclassified documents, classified documents, and/or magnetic tapes in any combination, the Subcontractor shall package the total delivery in one outer package conforming to security regulation, and marked with the appropriate information as specified in paragraphs 5.1, 5.2, and/or 5.3 herein.

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Section 6

PERIOD OF PERFORMANCE AND DELIVERIES

6.1 PERIOD OF PERFORMANCE

The period of performance of this Statement of Work, including the options, shall begin on the date of issue of this subcontract and continue until 30 September 1986.

6.2 DELIVERABLES

The Subcontractor shall deliver to, or complete for the benefit of, the Buyer, the supplies and services listed below in accordance with Sections 3, 4, and 5 herein to the following schedule:

| Item No. | Description | Reference | <u>Date</u> |
|--------------|---|--|--|
| 1 | Project Management | Para. 4.1 | AR |
| 2 | System Engineering | Para. 4.2 | AR |
| 3 | Software Development | | |
| | a. BEPPRE CPCI for BOC b. BEPPRE CPCI for IOC | Para. 4.3 Para. 4.4 | Aug 1983 Mar 1984 |
| 4 | Operations and Maintenance | Para. 4.18 | AR |
| Option Items | | • . | |
| 5 | System Engineering | Para. 4.2 | |
| 6 | Software Development | | |
| | a. BEPPRE CPCI for BOC b. BUSERS CPCI for BOC c. BEPPRE CPCI for IOC d. BUSERS CPCI for IOC | Para. 4.3 Para. 4.3 Para. 4.4 Para. 4.4 | Aug 1983 Sep 1983 Mar 1984 Sep 1984 |

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A written delivery notification must accompany the delivery of all data. The marking information specified in paragraphs 5.1 and 5.2 herein must be stated in the notification.

7.3.3.1 100-Series Data

100-series data will be accepted after it has been approved by the Customer, providing that it meets data requirements in content, and best commercial practice in appearance.

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7.3.3.2 200-Series Data

200-series data will be accepted after it has been reviewed by STAT found technically complete and accurate, and meets best commercial practice in appearance. This acceptance will normally occur within 30 calendar days of submission.

7.3.3.3 Requirements

All original data shall normally be delivered in the form of a reproducible master of high quality suitable for photographic reproduction without touchup. Black lettering and drawing on 8 1/2" x 11" high quality white bond paper is required. Drawings larger than this size shall be reduced to this size providing that no clarity of detail of readibility is lost.

Original data in the form of computer printouts must be delivered on white paper from one copy printouts, with alpha/numerical impressions sharp and clear in high black contrast to the paper.

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Section 8

BUYER-FURNISHED FACILITIES AND SUPPORT

| to the Su | Buyer will provide the following facilities and items of support abcontractor on the formance of the tasks required under this Statement of Work: | STAT |
|---------------|---|--------------|
| a. | Development and Test Facility, containing necessary computer systems and other equipment for the development and test of NPIC software; | · |
| b. | Office facilities equivalent to those utilized by the Buyer's personnel at the same professional level, including desks, chairs, file cabinets, etc.; | |
| c. | Telephone service; | |
| , . d. | Typing and other administrative support, including document reproduction service, equivalent to that utilized by the Buyer's NPIC Program Office; and | |
| e. | Stationery and office supplies equivalent to those available to the Buyer's NPIC Program Office. | |
| | cilities and items of support will be available for the period rmance of this Statement of Work. | |
| negotiat: | Buyer and the Subcontractor shall agree at the time of subcontractions upon the number and professional level of personnel to ent on the premises. | STAT STAT |

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APPENDIX A

SUBCONTRACTOR DATA REQUIREMENTS LIST

(SDRL)

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The following is a list of all subcontract data deliverable with delivery schedule and format references. The associated DRDs are shown in Appendix B herein.

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Data items should normally be submitted as a reproducible master and six copies. Publication and approval will be accomplished by the Buyer. Copies of computer printouts may be reduced. All data items require Buyer's approval upon submission by the Subcontractor. If disapproved, the data item will be returned to the Subcontractor for correction and resubmission.

The reproducible master shall be of high quality suitable for photographic reproduction without touchup. Black lettering and line drawings on 8 1/2" x 11" high quality white bond paper is required. Drawings larger than this size shall be reduced to this size, providing that no clarity of detail or readibility is lost. Separate, individual drawings shall be prepared if drawing reduction cannot be accomplished.

Data in the form of computer printouts must be delivered on white paper from one copy impressions, with all printing sharp and clear in high black contract to the white paper. The original printout, as specified, shall serve as a reproducible master.

| No. | Data Requirement | Date Required | DRD | |
|------|---|---|-----|------|
| B102 | Financial Plan | To be specified | 800 | |
| B103 | Master Schedule | As required | 801 | |
| B105 | Security Plan | To be specified | 802 | 8-1 |
| В109 | Monthly Financial Report | 10 days after end of accounting month | 805 | STAT |
| B110 | Milestone Updates | Every 6 months | 806 | |
| B111 | Milestone Report | Weekly | 807 | |
| B112 | Monthly Status Review | Monthly | 808 | |
| B113 | Quarterly Progress and Status Report | 10 days after end of accounting quarter | 809 | STAT |
| B117 | Segment Design Specification | PDR - 45 days (Final) | 706 | |
| B119 | Requirements Traceability & Verif. Matrix | PDR - 45 days (Update) CDR - 45 days (Final) | 717 | |

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| No. | Data Requirement | Date Required | DRD |
|------|--|--|-----|
| B120 | Engineering Tech Notes | As required | 811 |
| B122 | Segment Design Analysis Report | PDR - 45 days (Update) CDR - 45 days (Final) | 812 |
| B123 | O&M Plan | PDR - 45 days (Preliminary) CDR - 45 days (Final) | 813 |
| B124 | Maintenance and Logistics Plan (TBR) | TBR | 722 |
| B125 | Data Base Specification | PDR - 45 days (Preliminary) CDR - 45 days (Final) | 710 |
| B126 | Operations/Software Interface Specification | PDR-45 Days (Preliminary) CDR-45 Days (Final) | 712 |
| B127 | Operations/Hardware Interface Specification | PDR-45 Days Preliminary CDR-45 Days (Final) | 713 |
| B128 | Hardware/Software Interface Specification | PDR-45 Days Preliminary CDR-45 Days (Final) | 714 |
| B129 | Software/Software Interface Specification | PDR-45 Days Preliminary CDR-45 Days (Final) | 715 |
| В138 | Programmers Manual | CDR - 45 days (Preliminary) Segment Acceptance (Final) | 819 |
| B141 | CPCI Part I Specifications | PDR - 45 days | 709 |
| B142 | CPCI Part II Spcifications | PDR - 45 days (Preliminary) CDR - 45 days (Build to) Segment Acceptance (As built) | 719 |
| B145 | Data Dictionary | PDR - 45 days (Preliminary) CDR - 45 days (Build-to) Segment Acceptance (As built) | 822 |
| В150 | CPCI Listings (As built) | Segment Acceptance + 45 days | 730 |
| B152 | Software Version Description Document | Ship+15 Days | 732 |
| B154 | Segment Test Reports | Test + 10 days | 733 |

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| No. | Data Requirement | Date Required | DRD |
|------|---|--|-----|
| B156 | Accession List | Updated Monthly | 828 |
| B201 | Weekly Financial Report | Weekly | 900 |
| B202 | Status Data for NDPO Schedule System | Updated Monthly | 901 |
| B204 | Project Master Control Plan (PMCP) | Weekly | 902 |
| B207 | Review Data Package | Review-30 Days | 905 |
| B212 | Design Validation Report | PDR - 45 Days CDR - 45 Days (Final) | TBS |

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APPENDIX B

Data Requirement Description (DRD)

Note: The DRDs are not included with this proposal to NPIC because the DRDs are duplicates of those in the RFP.

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| NPIC STATEMENT OF WORK | DOCUMENT DATE January 11, 1982 | |
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PART NO. 7935495

FOR

SYSTEMS DEVELOPMENT CORP

UNDER CONTRACT

FOR THE NPIC PROGRAM

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Section 1

INTRODUCTION

This Statement of Work (SOW) defines the efforts to be performed by hereinafter STAT referred to as the Subcontractor, for the development of certain application software and, as an option hereunder, certain hardware and supporting software.

The optional hardware is referred to as the Workstation with supporting system software. The option if exercised shall include the software as set forth above.

Therefore, pricing and contractual considerations should include as one item the application software and as a second item the aforementioned application software, plus the optional hardware and its supporting system software combined into one item.

The prime contractor for the NPIC program is the hereinafter referred STAT to as Buyer.

...

The major sections of the software are:

- a. Work Station Applications Software
- b. Work Station System Software (option)

The major components of the optional hardware are:

- c. Work Station Basic Configuration (A)
- d. Work Station Expanded Configuration (B)
- e. Work Station Image Configuration (C)

All references to $\ensuremath{\mathrm{D/C}}$ Segment hardware are for the Work Stations only.

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Section 2

APPLICABLE DOCUMENTS

The following documents of the exact issue shown form a part of this SOW generally and to the extent specified herein. In the event of conflict between documents referenced in this section and detailed requirements of subsequent sections said detailed requires shall supersede the general requirements of the referenced document. Conflicts or questions concerning the referenced documents shall be resolved by the Subcontract Administrator of the Buyer.

The term "Buyer" shall be substituted for "Government" (or agency thereof) and the term "Subcontract Administrator" shall be substituted for "Contracting Officer", as applicable.

2.1 GOVERNMENT DOCUMENTS

·Specifications

| · · | |
|--|---|
| MIL-Q-9858A 16 Dec 1963 | Quality Program Requirements |
| MIL-P-15024D | Plates, Tags and Bands For Identification of Equipment |
| MIL-S-52779A | Software Quality Assurance Program Requirements |
| Standards | |
| MIL-STD-130 | Identification For Shipment |
| MIL-STD-470 21 May 1966 | Maintainability Program Requirements For Systems and Equipment |
| DOD-STD-480A 12 Apr 1978 | Configuration Control - Engineering Changes, Deviations and Waivers |
| DOD-STD-481A Oct 1972 | Configuration Control - Engineering Changes, 18 Deviations and Waivers |
| MIL-STD-454F 15 March 1978 Notice 1 1 Sept 1978 | Standard Electrical Requirements for Electronic Equipment |

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| Standards | |
|--|--|
| MIL-STD-1472B 31 Dec 1979 Notice 1 10 May 1976 Notice 2 10 May 1978 | Human Engineering Design Criteria for Military Systems, Equipment anf Facilities |
| MIL-STD-882A 28 June 1977 | System Softy Program Requirements |
| MIL-STD-482A 1 Apr 1974 | Configuration Status Accounting Data Elements and Related Features |
| MIL-STD-483 31 Dec 1970 | Configuration Management Practices for Systems, Equipment Munitions, and Computer Programs. (Including applicable notices) |
| MIL-STD-490 30 Oct 1968 Notice 1 1 Feb 1969 | Specification Practices |
| MIL-STD-785A 3 March 1969 | Reliability Program For Systems and Equipment, Development and Production |
| MIL-STD-965 15 April 1977 Notice 1 22 Dec 1978 | Parts Control Program |
| MIL-STD-1285 | Marking of Electrical and Electronic Parts |
| DOD-STD-100C 22 Dec 1978 | Engineering Drawing Practices |
| DOD-STD-480A 12 Apr 1978 Notice 1 29 Dec 1978 | Configuration Control, Engineering Changes, Deviations and Waivers |
| DOD-STD-1000B 28 Oct 1977 Amendment 1 30 Nov 1978 | Drawings, Engineering and Associated Lists |

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Standards

MIL-STD-1521A 6 Jan 1976 Notice 1 29 Sep 1978 Technical Reviews and Audits for Systems,

Equipment, and Computer Programs

MIL-STD-461B 1 April 1980 Electromagnetic Emission and Susceptability Requirements for the Control of Electromagnetic

Interferance

MIL-HDBK-232 14 Nov 1972 Military Standardization Handbook RED/BLACK

Engineering Installations

NACSIMV5100A 1 July 1981 Compromising Enervating Laboratory Test

Requirements

MIL-STD-471A 8 Dec 1978 Maintainability Verification/Demonstration/

Evaluation

MIL-HDBK-472 24 May 1966 Maintainability Prediction

MIL-STD-1388-1 Notice 3 21 Feb 1979 Military Standard, Logistics Support Analysis

2.2 NPIC DOCUMENTS

.16 Mar 1981

NPIC Operations Concept for Fiscal Year 1985-1990

S7001A 30 Mar 1981 UNC-133-81 12 Oct 1981 NPIC Development Program Implementation Directive

and Appendix 10.1

S7000A 1 Apr 1981 NPIC System Specification

S7400A

Data and Control Segment (D/C) Specification

24 Dec 1981

D/C Segment Minimum Modifications for FY-1984

8 Apr 1981

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IF7020'

C/S to D/C ICD

IF70304

C/I to D/C ICD

IF70405

D/C to E/R ICD

2.3 IBM DOCUMENTS

GIP-001J 18 Oct 1979 Workmanship Requirements

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Operating

29-12A, 31-04, 31-11, 31-20 (Included as

Procedures

NPIC WBS Structure

Appendix C)

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NPIC Quality Assurance Plan

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NPIC D/C Segment Configuration Management Plan

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NPIC D/C Segment Security Plan

7935655

D/C Segment Development Plan (SDP)

7935656

NPIC Programming Practices Standards and

Conventions (PPS&C)

2.4 CONTRACT PREPARED DOCUMENTS

IWS

Specifications (Subcontractor Prepared, buyer

approved)

TBD

Work Station Application Software

TBD

Work Station Systems Software

TBD

Work Station Hardware

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Section 3

SUPPLIES AND SERVICES

The Subcontractor shall furnish the necessary personnel, facilities, materials, equipment and services required to design, code, test, integrate, and support the application software. In addition, and in the event that the Buyer exercises the option by Purchase order amendment, the Subcontractor shall furnish the necessary personnel, facilities, materials, equipment and services required to design, fabricate, integrate, support and test the Workstation hardware and systems software to support said hardware.

Any hardware or software required to support the integration, field installation and operation shall be included under the applicable line item. The supplies and services to be provided shall be as follows:

| ITEM NO. | SUPPLIES AND SERVICES | REF/QTY |
|--------------|---------------------------------------|------------|
| 1 | Project Management | Para. 4.1 |
| 2 | Systems Engineering | Para. 4.2 |
| 3 | Software Development | Para. 4.3 |
| 4 | Test and Verification | Para. 4.4 |
| 5 | Software Support | Para. 4.5 |
| 6 | Data | Para. 4.6 |
| 7 | Integrated Logistics Support | Para. 4.7 |
| OPTION ITEMS | | |
| 8 | Hardware Development | Para. 4.8 |
| 9 | Work Station Qualification Testing | Para. 4.9 |
| 10 | Work Station Production | Para. 4.10 |
| 11 | Training | Para. 4.11 |

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OPTION_ITEMS

| 12 | Reser | rved | | |
|------|-------|---------|---------------|---|
| 13 | Work | Station | Configuration | |
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| 47 | Work | Station | Configuration | |
| 48 | Work | Station | Configuration | |
| 49 | Work | Station | Configuration | • |
| 50 | Work | Station | Configuration | |
| 51 | Work | Station | Configuration | |
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| 54 . | | | Configuration | |
| | Work | Station | Configuration | • |
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| 57 | Work | Station | Configuration | • |
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| OPTION | ITEMS | | | | |
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| | 58 | Work | Station | Configuration | |
| | 59 | | | Configuration | - |
| | 60 | | | Configuration | • |
| | 61 | | | Configuration | |
| | 62 | | | Configuration | |
| | 63 | | | Configuration | • |
| | 64 | | | Configuration | |
| | 65 | | | Configuration | |
| | 66 | | | Configuration | |
| | 67 | | | Configuration | • |
| | 68 | Work | Station | Configuration | • |
| | 69 | | | Configuration | • |
| | 70 | | | Configuration | |
| | 71 | Work | Station | Configuration | • |
| | 72 | | | Configuration | • |
| | 73 | | | Configuration | • |
| | 74 | | | Configuration | • |
| | 75 | Work | Station | Configuration | • |
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| | 80 | | | Configuration | • |
| | 81 | | | Configuration | • |
| | 82 | | | Configuration | |
| | 83 | Work | Station | Configuration | • |
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| | 85 | | | Configuration | |
| | 86 | Work | Station | Configuration | • |
| | 87 | | | Configuration | |
| | 88 | Work | Station | Configuration | • |
| | 89 | Work | Station | Configuration | |
| | 90 | Work | Station | Configuration | |
| | 91 | Work | Station | Configuration | • |
| | 92 | Work | Station | Configuration | • |
| | 93 | Work | Station | Configuration | • |
| | 94 | Work | Station | Configuration | |
| | 95 | Work | Station | Configuration | • |
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| | 98 | Work | Station | Configuration | • |
| | 99 | Work | Station | Configuration | • |
| | 100 | | | Configuration | • |
| | 101 | | | Configuration | • |
| | 102 | Work | Station | Configuration | • |

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| OPTION | ITEMS | | | | |
|--------|----------|------|---------|--------------------------------|---|
| 10 | 03 | Work | Station | Configuration | |
| | 04 | | | Configuration | • |
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| 14 | | MOLK | Station | Configuration | • |
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| OPTION ITEMS | | | | |
|--------------|------|---------|-----------------------|-----|
| 149 | Work | Station | Configuration | |
| 150 | | | Configuration | |
| 151 | | | Configuration | |
| 152 | | | Configuration | |
| 153 | | | Configuration | • |
| 154 | | | Configuration | • |
| 155 | | | Configuration | • |
| 156 | | | Configuration | |
| 157 | | | Configuration | • |
| 158 | | | Configuration | • |
| 159 | | | Configuration | |
| 160 | | | Configuration | • |
| 161 | | | Configuration | • |
| 162 | | | Configuration | • |
| 163 | | | Configuration | • |
| 164 | | | Configuration | |
| 165 | | | Configuration | |
| 166 | | | Configuration | |
| 167 | | | Configuration | |
| 168 | | | Configuration | • |
| 169 | Work | Station | Configuration | |
| 170 | Work | Station | Configuration | |
| 171 | | | Configuration | |
| 172 | Work | Station | Configuration | |
| 173 | Work | Station | Configuration | • |
| 174 | Work | Station | Configuration | • |
| 175 | Work | Station | Configuration | • |
| 176 | Work | Station | Configuration | • |
| 177 | Work | Station | Configuration | • |
| 178 | Work | Station | Configuration | • |
| 179 | Work | Station | Configuration | • |
| 180 | | | ${\tt Configuration}$ | • . |
| 181 | Work | Station | ${\tt Configuration}$ | • |
| 182 | Work | Station | Configuration | • |
| 183 | Work | Station | Configuration | • |
| 184 | | | Configuration | • |
| 185 | | | Configuration | • |
| 186 | | | Configuration | • |
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| 191 | | | Configuration | • |
| 192 | | | Configuration | • |
| 193 | | | Configuration | • |
| 194 | Work | Station | Configuration | • |

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| OPTION ITEMS | • | |
|--------------|----------------------------|---|
| 195 | Work Station Configuration | |
| 196 | Work Station Configuration | • |
| 197 | Work Station Configuration | • |
| 198 | Work Station Configuration | • |
| 199 | Work Station Configuration | • |
| 200 | Work Station Configuration | • |
| 201 | Work Station Configuration | • |
| 202 | Work Station Configuration | • |
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| 231 | Work Station Configuration | • |
| 232 | Work Station Configuration | • |
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| 235 | Work Station Configuration | • |
| 236 | Work Station Configuration | |
| 237 | Work Station Configuration | • |
| 238 | Work Station Configuration | • |
| 239 | Work Station Configuration | |
| 240 | Work Station Configuration | • |
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| OPTION ITEMS | | | | |
|--------------|------|---------|---------------|---|
| 241 | Work | Station | Configuration | |
| 242 | | | Configuration | • |
| 243 | | | Configuration | • |
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| 246 | | | Configuration | |
| 247 | | | Configuration | |
| 248 | | | Configuration | |
| 249 | | | Configuration | |
| 250 | | | Configuration | |
| 251 | | | Configuration | |
| 252 | | | Configuration | |
| 253 | | | Configuration | |
| 254 | | | Configuration | |
| 255 | | | Configuration | |
| 256 | | | Configuration | |
| 257 | Work | Station | Configuration | |
| 258 | | | Configuration | |
| 259 | | | Configuration | • |
| 260 | Work | Station | Configuration | |
| 261 | Work | Station | Configurațion | |
| 262 | Work | Station | Configuration | |
| 263 | Work | Station | Configuration | • |
| 264 | Work | Station | Configuration | • |
| 265 | Work | Station | Configuration | • |
| 266 | | | Configuration | • |
| 267 | | | Configuration | |
| 268 | Work | Station | Configuration | • |
| 269 | Work | Station | Configuration | • |
| 270 | | | Configuration | • |
| 271 | | | Configuration | • |
| 272 | | | Configuration | • |
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| 281 | | | Configuration | • |
| 282 | | | Configuration | • |
| 283 | | | Configuration | • |
| 284 | | | Configuration | • |
| 285 | | | Configuration | • |
| 286 | work | Station | Configuration | • |

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|--------------|------|---------|---------------|---|
| 287 | Work | Station | Configuration | |
| 288 | | | Configuration | • |
| 289 | | | Configuration | • |
| 290 | | | Configuration | |
| 291 | | | Configuration | • |
| 292 | | | Configuration | |
| 293 | | | Configuration | |
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| 304 | | | Configuration | • |
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| 306 | • | | Configuration | |
| 307 | | | Configuration | |
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| 310 | | | Configuration | • |
| 311 | Work | Station | Configuration | • |
| 312 | Work | Station | Configuration | |
| 313 | Work | Station | Configuration | • |
| 314 | Work | Station | Configuration | • |
| 315 | Work | Station | Configuration | • |
| 316 | Work | Station | Configuration | • |
| 317 | Work | Station | Configuration | • |
| 318 | Work | Station | Configuration | • |
| 319 | | | Configuration | • |
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| 321 | | | Configuration | • |
| 322 | Work | Station | Configuration | • |
| 323 | Work | Station | Configuration | • |
| 324 | | | Configuration | • |
| 325 | | | Configuration | • |
| 326 | Work | Station | Configuration | • |
| 327 | | | Configuration | • |
| 328 | | | Configuration | • |
| 329 | | | Configuration | • |
| 330 | | | Configuration | • |
| 331 | | | Configuration | • |
| 332 | Work | Station | Configuration | • |
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| OPTION ITEMS | | |
|------------------|---|-----|
| 333 | Work Station Configuration | |
| 334 | Work Station Configuration | |
| 335 | Work Station Configuration | |
| 336 | Work Station Configuration | |
| 337 | Work Station Configuration | • |
| 338 | Work Station Configuration | • |
| 339 | Work Station Configuration | • |
| 340 | Work Station Configuration | • |
| 341 | Work Station Configuration | • |
| 342 | Work Station Configuration | • |
| 343 | Work Station Configuration | • |
| 344 | Work Station Configuration | |
| 345 | Work Station Configuration | • |
| 346 | Work Station Configuration | • |
| 347 | Work Station Configuration | • |
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| 350 | Work Station Configuration | |
| 351 | Work Station Configuration | • |
| 352 | Work Station Configuration | • . |
| 353 | Work Station Configuration | • |
| 354 | Work Station Configuration | • |
| 355 | Work Station Configuration | • |
| [*] 356 | Work Station Configuration | • |
| 357 | Work Station Configuration | • |
| 358 | Work Station Configuration | • |
| 359 | Work Station Configuration | • |
| 360 | Work Station Configuration | • |
| 361 | Work Station Configuration | • |
| 362 | Work Station Configuration | • |
| 363 | Work Station Configuration | • |
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| 365 | Work Station Configuration | • |
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| 367 | Work Station Configuration | • |
| 368 | Work Station Configuration | • |
| 369 | Work Station Configuration | • |
| 370 | Work Station Configuration Work Station Configuration | • |
| 371 | | • |
| 372 | Work Station Configuration Work Station Configuration | • |
| 373 374 | Work Station Configuration Work Station Configuration | • |
| 374 . 375 | Work Station Configuration | • |
| 375 376 | Work Station Configuration Work Station Configuration | • |
| 377 | Work Station Configuration | • |
| 378 | Work Station Configuration | • |
| 370 | MOLK PLACTOR COULTERITACION | • |

Statement of Work

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|--------------|------|---------|---------------|---|
| OPTION ITEMS | | | | |
| 379 | Work | Station | Configuration | |
| 380 | | | Configuration | |
| 381 | | | Configuration | |
| 382 | | | Configuration | |
| 383 | | | Configuration | |
| 384 | | | Configuration | |
| 385 | | | Configuration | |
| 386 | | | Configuration | |
| 387 | | | Configuration | |
| 388 | | | Configuration | |
| 389 | | | Configuration | |
| 390 | | | Configuration | |
| 391 | | | Configuration | |
| 392 | | | Configuration | |
| 393 | | | Configuration | |
| 394 | | | Configuration | • |
| 395 | | | Configuration | |
| 396 | | | Configuration | • |
| 397 | | | Configuration | |
| 398 | | | Configuration | |
| 399 | | | Configuration | |
| 400 | | | Configuration | |
| 401 | | | Configuration | |
| 402 | | | Configuration | |
| 403 | | | Configuration | • |
| 404 | | | Configuration | |
| 405 | | | Configuration | |
| 406 | | | Configuration | |
| 407 | | | Configuration | |
| 408 | | | Configuration | |
| 409 | | | Configuration | |
| 410 | Work | Station | Configuration | |
| 411 | Work | Station | Configuration | |
| 412 | Work | Station | Configuration | • |
| 413 | | | Configuration | • |
| 414 | Work | Station | Configuration | |
| 415 | Work | Station | Configuration | |
| 416 | | | Configuration | • |
| 417 | Work | Station | Configuration | • |
| 418 | Work | Station | Configuration | • |
| 419 | | | Configuration | • |
| 420 | | | Configuration | • |
| 421 | | | Configuration | • |
| 422 | | | Configuration | • |
| 423 | | | Configuration | • |
| 424 | Work | Station | Configuration | • |

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Statement of Work

| 23892 7935495 A | CODE | IDENT. | NO. | SPECIFICATION | NO. | REV. |
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| 425 | Work Station Configuration | |
|------------|----------------------------|--|
| 426 | Work Station Configuration | |
| 427 | Work Station Configuration | |
| 428 | Work Station Configuration | |
| 429 | Work Station Configuration | |
| 430 | Work Station Configuration | |
| 431 | Work Station Configuration | |
| 432 | Work Station Configuration | |
| 433 | Work Station Configuration | |
| 434 | Work Station Configuration | |
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| 448 | Work Station Configuration | |
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| 450 | Work Station Configuration | |
| 451 | Work Station Configuration | |
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| 453 | Work Station Configuration | |
| 454 | Work Station Configuration | |
| 455 | Work Station Configuration | |
| 456 456 | Work Station Configuration | |
| 457 | Work Station Configuration | |
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| 458 450 | • | |
| 459 | Work Station Configuration | |
| 460 | Work Station Configuration | |
| 461 | Work Station Configuration | |
| 462 | Work Station Configuration | |
| 463 | Work Station Configuration | |
| 464 | Work Station Configuration | |
| 465 | Work Station Configuration | |
| 466 | Work Station Configuration | |
| 467 | Work Station Configuration | |
| 468 | Work Station Configuration | |
| 469 | Work Station Configuration | |

Statement of Work

| CODE | IDENT. | NO. | SPECIFICATION | NO. | REV. |
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| 238 | 392 | | 7935495 | | A |
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| OPTION ITEMS | | |
|--------------|----------------------------|-----|
| 471 | Work Station Configuration | _ |
| 472 | Work Station Configuration | |
| 473 | Work Station Configuration | |
| 474 | Work Station Configuration | |
| 475 | Work Station Configuration | • |
| 476 | Work Station Configuration | • |
| 477 | Work Station Configuration | • |
| 478 | Work Station Configuration | • |
| 479 | Work Station Configuration | • |
| 480 | Work Station Configuration | • |
| 481 | Work Station Configuration | • |
| 482 | Work Station Configuration | • |
| 483 | Work Station Configuration | • |
| 484 | Work Station Configuration | • |
| 485 | Work Station Configuration | • |
| 486 | Work Station Configuration | • |
| 487 | Work Station Configuration | • |
| 488 | Work Station Configuration | • |
| 489 | Work Station Configuration | • • |
| 490 | Work Station Configuration | • |
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| 492 | Work Station Configuration | |
| 493 | Work Station Configuration | |
| 494 | Work Station Configuration | • |
| 495 | Work Station Configuration | |
| 496 | Work Station Configuration | |
| 497 | Work Station Configuration | • |
| 498 | Work Station Configuration | |
| 499 | Work Station Configuration | • |
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| 502 | Work Station Configuration | • |
| 503 | Work Station Configuration | • |
| 504 | Work Station Configuration | • |
| 505 | Work Station Configuration | • |
| 506 . | Work Station Configuration | • |
| 507 | Work Station Configuration | • |
| 508 | Work Station Configuration | • |
| 509 | Work Station Configuration | • |
| 510 | Work Station Configuration | • |
| 511 | Work Station Configuration | • |
| 512 | Work Station Configuration | • |
| 513 | Work Station Configuration | |
| 514 | Work Station Configuration | : • |
| 515 | Work Station Configuration | • |
| 516 | Work Station Configuration | • |
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Statement of Work

| CODE IDENT. NO. | SPECIFICATION NO | . REV. |
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OPTION ITEMS

| 517 | Work | Station | Configuration | |
|-----------------|------|---------|---------------|---|
| 518 | | | Configuration | |
| 519 | | | Configuration | |
| 520 | | | Configuration | |
| 521 | | | Configuration | |
| 522 | | | Configuration | |
| 523 | | | Configuration | |
| 524 | | | Configuration | |
| 525 | | | Configuration | |
| 526 | | | Configuration | |
| 527 | | | Configuration | |
| 528 | | | Configuration | |
| 52 9 | | | Configuration | |
| 530 | | | Configuration | |
| 531 | Work | Station | Configuration | |
| 532 | | | Configuration | |
| 533 | | | Configuration | |
| 534 | Work | Station | Configuration | |
| 535 | | | Configuration | |
| 536 | Work | Station | Configuration | • |
| 537 | | | Configuration | |
| 538 | Work | Station | Configuration | • |
| 539 | Work | Station | Configuration | |
| 540 | Work | Station | Configuration | |
| 541 | Work | Station | Configuration | |
| 542 | Work | Station | Configuration | |
| 543 | Work | Station | Configuration | |
| 544 | | | Configuration | • |
| 545 | Work | Station | Configuration | |
| 546 | Work | Station | Configuration | |
| 547 | Work | Station | Configuration | • |
| 548 | Work | Station | Configuration | |
| 549 | Work | Station | Configuration | • |
| 550 | Work | Station | Configuration | • |
| 551 | Work | Station | Configuration | |
| 552 | Work | Station | Configuration | |
| 553 | | | Configuration | • |
| 554 | | | Configuration | • |
| 555 | | | Configuration | • |
| 556 | | | Configuration | • |
| 557 | | | Configuration | |
| 558 | | | Configuration | • |
| 559 | | | Configuration | • |
| 560 | | | Configuration | • |
| 561 | | | Configuration | • |
| 562 | Work | Station | Configuration | • |
| | | | | |

Statement of Work

CODE IDENT. NO SPECIFICATION NO. REV. 23892 7935495 A

| OPTION ITEMS | • | |
|--------------|--|----|
| 563 | Work Station Configuration | |
| 564 | Work Station Configuration | |
| 565 | Work Station Configuration | |
| 566 | Work Station Configuration | |
| 567 | Work Station Configuration | _ |
| 568 | Work Station Configuration | • |
| 569 | Work Station Configuration | • |
| 570 | Work Station Configuration | • |
| 571 | Work Station Configuration | • |
| 572 | Work Station Configuration | • |
| 573 | Work Station Configuration | • |
| 574 | <u> </u> | • |
| 575 | Work Station Configuration | • |
| 576 | Work Station Configuration | • |
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| 577 | Work Station Configuration | • |
| 578 | Work Station Configuration | • |
| 579 | Work Station Configuration | • |
| 580 | Work Station Configuration | • |
| 581 | Work Station Configuration | • |
| 582 | Work Station Configuration | • |
| 583 | Work Station Configuration | • |
| 584 | Work Station Configuration | ÷ |
| 585 | Work Station Configuration | • |
| 586 | Work Station Configuration | • |
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| 589 | Work Station Configuration | • |
| 590 | Work Station Configuration | |
| 591 | Work Station Configuration | |
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| 593 | Work Station Configuration | |
| 594 | Work Station Configuration | |
| 595 | Work Station Configuration | |
| 596 | Work Station Configuration | |
| 597 | Work Station Configuration | |
| 598 | Work Station Configuration | |
| 599 | Work Station Configuration | |
| 600 | Work Station Configuration | • |
| 601 | Work Station Configuration | • |
| 602 | Work Station Configuration | • |
| 603 | Work Station Configuration | • |
| 604 | Work Station Configuration Work Station Configuration | • |
| 605 | Work Station Configuration Work Station Configuration | • |
| 606 | Work Station Configuration Work Station Configuration | •. |
| 607 | Work Station Configuration Work Station Configuration | • |
| 608 | | • |
| 000 | Work Station Configuration | • |

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Statement of Work

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| OPTION ITEMS | | |
|--------------|----------------------------|---|
| 609 | Work Station Configuration | |
| 610 | Work Station Configuration | |
| 611 | Work Station Configuration | • |
| 612 | Work Station Configuration | • |
| 613 | Work Station Configuration | • |
| 614 | Work Station Configuration | |
| 615 | Work Station Configuration | • |
| 616 | Work Station Configuration | |
| 617 | Work Station Configuration | |
| 618 | Work Station Configuration | |
| 619 | Work Station Configuration | • |
| 620 | Work Station Configuration | • |
| 621 | Work Station Configuration | • |
| 622 | Work Station Configuration | • |
| 623 | Work Station Configuration | • |
| 624 | Work Station Configuration | |
| 625 | Work Station Configuration | • |
| 626 | Work Station Configuration | |
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| 628 | Work Station Configuration | |
| 629 | Work Station Configuration | |
| 630 | Work Station Configuration | |
| 631 | Work Station Configuration | • |
| 632 | Work Station Configuration | |
| 633 | Work Station Configuration | • |
| 634 | Work Station Configuration | • |
| 635 | Work Station Configuration | • |
| 636 | Work Station Configuration | • |
| 637 | Work Station Configuration | • |
| 638 | Work Station Configuration | • |
| 639 | Work Station Configuration | |
| 640 | Work Station Configuration | • |
| 641 | Work Station Configuration | |
| 642 | Work Station Configuration | |
| 643 | Work Station Configuration | |
| 644 | Work Station Configuration | |
| 645 | Work Station Configuration | • |
| 646 | Work Station Configuration | |
| 647 | Work Station Configuration | |
| 648 | Work Station Configuration | • |
| 649 | Work Station Configuration | • |
| 650 | Work Station Configuration | • |
| 651 | Work Station Configuration | • |
| 652 | Work Station Configuration | • |
| 653 | Work Station Configuration | • |
| 654 | Work Station Configuration | • |

Statement of Work

CODE IDENT NO SPECIFICATION NO. REV. 23892 7935495 A

| OPTION ITEMS | | | |
|------------------|---------------|-----------------------------|---|
| 655 | Mark Station | Confirmation | |
| 656 | | Configuration | • |
| 657 | | Configuration | • |
| 658 | | Configuration | • |
| 659 | | Configuration | • |
| 660 | | Configuration | • |
| 661 | | Configuration Configuration | • |
| 662 | | Configuration | • |
| 663 | | Configuration | • |
| 664 | | Configuration | • |
| 665 | | Configuration | • |
| 666 | | Configuration | • |
| 667 | | Configuration | • |
| 668 | | Configuration | • |
| 669 | | Configuration | • |
| 670 | | Configuration | • |
| 671 | | Configuration | • |
| 672 | | Configuration | • |
| 673 | | Configuration | • |
| 674 | | Configuration | |
| 675 | | Configuration | |
| 676 | | Configuration | |
| 677 | | Configuration | • |
| 678 [*] | | Configuration | • |
| 679 | | Configuration | • |
| 680 | Work Station | Configuration | • |
| 681 | Work Station | Configuration | • |
| 682 | Work Station | Configuration | • |
| 683 | Work Station | Configuration | • |
| 684 | | Configuration | • |
| 685 | | Configuration | • |
| 686 | | Configuration | • |
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| 688 | | Configuration | • |
| 689 | | Configuration | • |
| 690 | | Configuration | • |
| 691 | | Configuration | • |
| 692 | | Configuration | • |
| 693 | | Configuration | • |
| 694 | | Configuration | • |
| 695 | | Configuration | • |
| 696 | | Configuration | • |
| 697 | | Configuration | • |
| 698 699 | | Configuration | • |
| 700 | | Configuration Configuration | • |
| 700 | WOLK SCALLOII | COULTEGURACION | • |

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Statement of Work

| CODE IDENT. | 0.0 | SPECIFICATION | NO. | REV. |
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| 23892 | | 7935495 | | A |

OPTION ITEMS

| 701 | 171- | Chardan | Comfidence | |
|------------|------|---------|-----------------------------|-----|
| 701 | | | Configuration | • |
| 702 | | | Configuration | • |
| 703 | | | Configuration | • |
| 704 | | | Configuration | • |
| 705 | | | Configuration | • |
| 706 | | | Configuration | • . |
| 707 | | | Configuration | • |
| 708 | | | Configuration | • |
| 709 | | | Configuration | • |
| 710 | | | Configuration | • |
| 711 | | | Configuration | • |
| 712 | | | Configuration | • |
| 713 | | | Configuration | • |
| 714 | | | Configuration | • |
| 715 | | | Configuration | • |
| 716 | | | Configuration · | • |
| 717 | Work | Station | Configuration | • |
| 718 | Work | Station | Configuration | • |
| 719 | Work | Station | Configuration | |
| 720 | Work | Station | Configuration | |
| 721 | Work | Station | Configuration | |
| 722 | Work | Station | Configuration | • |
| 723 | | | Configuration | |
| 724 | Work | Station | Configuration | |
| 725 | | | Configuration | |
| 726 | | | Configuration | |
| 727 | | | Configuration | |
| 728 | | | Configuration | |
| 729 | | | Configuration | |
| 730 | | | Configuration | |
| 731 | | | Configuration | • |
| 732 | | | Configuration | |
| 733 | | | Configuration | |
| 734 | | | Configuration | • |
| 735 | | | Configuration | • |
| 736 | | | Configuration | • |
| 737 | | | Configuration | • |
| 738 | | | Configuration | • |
| 739 | | | Configuration | • |
| 740 | | | Configuration | • |
| 740 | | | Configuration | • |
| 741 | | | Configuration | • |
| 742 743 | | | Configuration | • |
| 743 744 | | | _ | • |
| 744 745 | | | Configuration Configuration | • |
| 745 746 | | | Configuration | • |
| 740 | WOLK | SCALION | COULTERITACION | • |
| | | | | |

Statement of Work

OPTION ITEMS

785

786 787

788

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792

| CODE | IDENT. | NO. | SPECIFICATION | NO. | REV. |
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747 Work Station Configuration 748 Work Station Configuration 749 Work Station Configuration 750 Work Station Configuration 751 Work Station Configuration 752 Work Station Configuration 753 Work Station Configuration 754 Work Station Configuration 755 Work Station Configuration 756 Work Station Configuration 757 Work Station Configuration 758 Work Station Configuration 759 Work Station Configuration 760 Work Station Configuration 761 Work Station Configuration 762 Work Station Configuration 763 Work Station Configuration 764 Work Station Configuration 765 Work Station Configuration 766 Work Station Configuration 767 Work Station Configuration 768 Work Station Configuration 769 Work Station Configuration 770 Work Station Configuration 771 Work Station Configuration 772 Work Station Configuration 773 Work Station Configuration 774 Work Station Configuration 775 Work Station Configuration Work Station Configuration 776 777 Work Station Configuration 778 Work Station Configuration 779 Work Station Configuration 780 Work Station Configuration 781 Work Station Configuration 782 Work Station Configuration 783 Work Station Configuration 784 Work Station Configuration

Work Station Configuration Work Station Configuration

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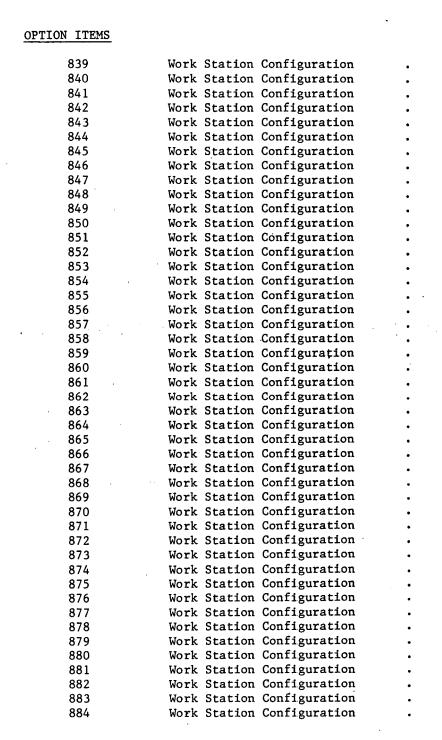
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| 23892 | | 7935495 | | A |

| OPTION | ITEMS |
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| OLITON | |

| 7 | 93 | Work | Station | Configuration | • |
|---|------|------|-----------|---------------|---|
| 7 | 94 | Work | Station | Configuration | • |
| 7 | 95 | Work | Station | Configuration | • |
| 7 | 96 | Work | Station | Configuration | • |
| 7 | 97 | Work | Station | Configuration | • |
| 7 | 98 | Work | Station | Configuration | • |
| 7 | 99 | Work | Station 5 | Configuration | • |
| 8 | . 00 | Work | Station | Configuration | • |
| 8 | 01 | Work | Station | Configuration | |
| 8 | 02 | Work | Station | Configuration | • |
| 8 | 03 | Work | Station | Configuration | • |
| 8 | 04 | Work | Station | Configuration | • |
| 8 | 05 | Work | Station | Configuration | • |
| 8 | 06 | Work | Station | Configuration | • |
| 8 | 807 | Work | Station | Configuration | • |
| 8 | . 80 | | | Configuration | • |
| 8 | 109 | Work | Station | Configuration | • |
| 8 | 10 | Work | Station | Configuration | • |
| 8 | 11. | Work | Station | Configuration | • |
| 8 | 12 | Work | Station | Configuration | • |
| 8 | 13 | Work | Station | Configuration | • |
| 8 | 314 | Work | Station | Configuration | • |
| 8 | 15 | Work | Station | Configuration | • |
| 8 | 316 | Work | Station | Configuration | • |
| 8 | 317 | Work | Station | Configuration | • |
| 8 | 318 | | | Configuration | • |
| 8 | 19 | Work | Station | Configuration | • |
| | 320 | Work | Station | Configuration | • |
| | 321 | | | Configuration | • |
| | 322 | Work | Station | Configuration | • |
| 8 | 123 | | | Configuration | • |
| 8 | 324 | Work | Station | Configuration | |
| 8 | 325 | | | Configuration | • |
| | 326 | | | Configuration | • |
| | 327 | | | Configuration | • |
| | 328 | | | Configuration | • |
| | 329 | | | Configuration | • |
| | 330 | | | Configuration | • |
| | 331 | | | Configuration | • |
| | 332 | | | Configuration | • |
| | 333 | | | Configuration | • |
| | 334 | | | Configuration | • |
| | 335 | | | Configuration | • |
| - | 336 | | | Configuration | • |
| | 337 | | | Configuration | • |
| 8 | 338 | Work | Station | Configuration | • |
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| I | CODE | IDENT. | NO. | SPECIFICATION | NO. | REV. |
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| ı | | | | | | |

OPTION ITEMS

| . , | | | | |
|------|------|---------|----------------|-----|
| 885 | Work | Station | Configuration | |
| 886 | Work | Station | Configuration | |
| 887 | | | Configuration | |
| 888 | | | Configuration | |
| 889 | | | Configuration | |
| 890 | | | Configuration | • . |
| 891 | | | Configuration | |
| 892 | | | Configuration | |
| 893 | | | Configuration | |
| 894 | | | Configuration | |
| 895 | | | Configuration | |
| 896 | Work | Station | Configuration | |
| 897 | | | Configuration | |
| .898 | | | Configuration | • |
| 899 | | | Configuration | |
| 900 | | | Configuration | |
| 901 | | | Configuration | |
| 902 | | | Configuration | |
| 903 | | | Configuration | |
| 904 | Work | Station | Configuration | |
| 905 | | | Configuration | |
| 906 | | | Configuration | |
| 907 | | | Configuration | • |
| 908 | | | Configuration | |
| 909 | | | Configuration | |
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| 911 | | | Configuration | |
| 912 | | | Configuration | |
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| 921 | | | Configuration | |
| 922 | | | Configuration | |
| 923 | | | Configuration | |
| 924 | | | Configuration | |
| 925 | | | Configuration | |
| 926 | Work | Station | Configuration | |
| 927 | | | Configuration | |
| 928 | | | Configuration | |
| 929 | | | Configuration | |
| 930 | | | Configuration | |
| | | | 5 + **- | |

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| CODE | IDENT. | NO. | SPECIFICATION | NO. | REV. |
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| 238 | 392 | | 7935495 | | A |

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|--------------|----------------------------|---|
| OPTION ITEMS | | |
| 0.01 | | |
| 931 | Work Station Configuration | • |
| 932 | Work Station Configuration | • |
| 933 | Work Station Configuration | ۰ |
| 934 | Work Station Configuration | • |
| . 935 | Work Station Configuration | • |
| 936 | Work Station Configuration | • |
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| 973 | Work Station Configuration | |
| 974 | Work Station Configuration | |
| 975 | Work Station Configuration | • |
| 976 | Work Station Configuration | |
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| CODE | IDENT. | NO. | SPECIFICATION | NO. | REV. |
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| 238 | 392 | | 7935495 | | A |

| OPTION ITEMS | | |
|--------------|----------------------------|-----|
| 977 | Work Station Configuration | • . |
| 978 | Work Station Configuration | • |
| 979 | Work Station Configuration | |
| 980 | Work Station Configuration | • |
| 981 | Work Station Configuration | • . |
| 982 | Work Station Configuration | |
| 983 | Work Station Configuration | • |
| 984 | Work Station Configuration | • |
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| 992 | Work Station Configuration | . • |
| 993 | Work Station Configuration | |
| 994 | Work Station Configuration | • |
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| 996 | Work Station Configuration | • |
| 997 | Work Station Configuration | • |
| 998 | Work Station Configuration | • |
| 999 | Work Station Configuration | • |
| 1000 | Work Station Configuration | • . |
| 1001 | Work Station Configuration | • |
| 1002 | Work Station Configuration | •. |
| 1003 | Work Station Configuration | •• |
| 1004 | Work Station Configuration | • |
| 1005 | Work Station Configuration | |
| 1006 | Work Station Configuration | • |
| 1007 | Work Station Configuration | , • |
| 1008 | Work Station Configuration | • |
| 1009 | Work Station Configuration | • |
| 1010 | Work Station Configuration | • |
| 1011 | Work Station Configuration | • |
| 1012 | Work Station Configuration | |

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Section 4

DESCRIPTION OF ITEMS

This section contains the description and requirements for the Subcontract line items set forth in Section 3 herein. The Subcontractor shall manage and perform any and all activities necessary to deliver and support the following Subcontract Line Items:

4.1 PROJECT MANAGEMENT

4.1.1 Project Management

The Subcontractor shall provide a project organization and the necessary management to satisfy the requirements of this Statement of Work. The management function shall include project planning, project staffing, personnel and property management, and the interface between the Subcontractor and the Buyer, in addition to the normal management activities required to assure satisfactory performance of all tasks on schedule, within budget constraints.

A Financial Plan, SDRL Item Cl02, shall be prepared by the Sub-contractor to depict the negotiated subcontract and subsequent negotiated changes thereto. It shall be revised and/or updated whenever appropriate to reflect current planning.

A Master Schedule, CDRL Item C103, will be prepared and maintained by the Buyer for the prime contract. The Subcontractor shall make monthly inputs (SDRL Item C103) to this master schedule to reflect current status and planning.

4.1.2 Project Control

The Subcontractor shall provide a project control function which furnishes financial management, schedule management, data management, status monitoring and reporting, and resolution of cost, schedule, and technical problems. Weekly inputs to the Buyer's Project Master Control Plan, SDRL Item C204, shall be submitted to the Buyer.

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The Subcontractor's activities must be planned under this Statement of Work to support the following key segment milestones:

| a. | Interprogram Demo | April 1984 |
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| ъ. | Interface Changes | May 1984 |
| c. | BOC Operational Transition | October 1984 |
| d. | IOC Operational Transition | July 1985 (TBR) |
| e. | FOC Operational Transition | July 1987 (TBR) |

4.1.2.1 Financial Management

The Subcontractor shall perform financial management activities sufficient to assure control of all expenditure and commitments, and to provide accurate cost control to the sixth level of the WBS and accurate cost reporting to the fourth level of the WBS to satisfy the requirements of Data Requirements Description (DRD) 805 of Appendix B herein. The financial management function shall prepare and submit a monthly financial report, SDRL Item Cl09, which provides a schedule report, a cost/schedule status report, a staffing report, a subcontract funds status report, and a narrative report. Financial management shall be based upon a Work Breakdown Structure (WBS) prepared by the Buyer, Document 7935496.



The Buyer reserves the option to impose weekly (or biweekly if accounting structure will not permit weekly) financial reporting upon the Subcontractor if significant deviations in costs are projected and/or experienced at the second level WBSID (SDRL C201).

The Subcontractor shall perform travel, other than local travel, in the Metropolitan Washington, D.C., area, when directed by the Buyer, or only after approval by the Buyer in advance of the travel when requested by the Subcontractor. Buyer's direction or approval shall be in writing, and state the purpose and duration of the travel, and the specific individuals authorized for the travel. Travel undertaken without this direction or advance approval shall be considered as a non-allowable cost to the subcontract.

The Subcontractor shall incur other direct cost (ODC) only after approval by the Buyer. ODC refers to elements of cost other than labor, burden, purchases and subcontracts, and travel. Buyer's approval shall be in writing, stating the purpose and the estimated monetary value of the ODC. ODC incurred without Buyer's prior approval shall be considered as a non-allowable cost to the subcontract.

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4.1.2.2 Schedule Management

The Subcontractor shall use a schedule control and monitoring system that is capable of:

- a. Providing schedule status for monthly and quarterly reports;
- Reflecting time durations of all major tasks such as planning, designing, implementing, testing, and preparing documentation;
- c. Reflecting the planned start and completion dates for all major activities and events;
- d. Reflecting slack where applicable, and reflecting workaround schedules when delays have occurred;
- e. Reflecting the impact of early starts and of slippages on future milestones, and of conflicts which may be created in the utilization of common test facilities and equipment;
- f. Providing a narrative report addressing all problem areas in the schedule;
- g. Maintaining the contractual schedule plan for easy comparison to current status;
- h. Reflecting the latest allowable dates for major events and activities; and
- Identifying schedule progress to the approved WBS for the subcontract.

The Subcontractor is encouraged to utilize his existing in-house techniques to the maximum extent possible to satisfy these schedule management requirements.

The schedule management function shall assist in the preparation of the Monthly Financial Report, SDRL Item C109, and of the Quarterly Progress and Status Report, SDRL Item C113. It shall prepare and submit Milestone Updates, SDRL Item C110, and Milestone Reports, SDRL Item C111, and any status data required for input to the NDPO schedule system, SDRL Item C202.

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4.1.2.3 Status Monitoring and Reporting

The Subcontractor shall establish a status monitoring and reporting system which shall:

- a. Assist in the preparation of the Monthly Financial Reports;
- b. Prepare Quarterly Progress and Status Reports, SDRL Item C113; and
- c. Prepare status presentations (including action item status) for the Weekly Status Reviews.

4.1.3 Quality Assurance

The Subcontractor shall perform quality assurance for his contract line items of Section 3 herein in accordance with the Buyer's Software Quality Assurance Plan, Document 7935497. Quality assurance for work performed on the Buyer's premises and at the NPIC site shall be provided by the Buyer.

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4.1.4 Configuration Management

The Subcontractor shall rovide configuration management of the work station, software, firmware, procedures, plans, specifications, and other documents in accordance with the Buyer's Configuration Management Plan,

Document 7935498, and associated procedures. He shall participate in the Buyer's Change Control Board, and he shall provide necessary product and document control.

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The Subcontractor shall provide inputs to the software Version Description Documents (SDRL Item A152) for each of his CPCIs.

The subcontractor shall prepare a Configuration Management Plan SDRL C213 documenting plans and procedures for the management and control of the integrated Work Station and system software option. A Subcontractor Control Board shall be established to work subordinate to the buyer's Configuration Control board.

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4.1.5 Security

The Subcontractor shall conform to the Buyer's Security Plan, Document 7935499, and associated procedures. He shall prepare a separate Security Plan, SDRL Item C105, for any of his activities which are not conducted on Buyer's premises. Security procedures to implement his plan must be approved by the Buyer.

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4.1.6 Status Reviews/Technical Interface Meetings

The Subcontractor shall participate in Monthly Status Reviews conducted by the Buyer for the NPIC customer. These reviews are expected to be one day in duration, and will discuss cost and status, progress, problems, plans, and other issues as necessary. Each third review will include an in-depth financial review. The Subcontractor will be assigned agenda items to prepare for these reviews, and action items for followup and resolution as a result of these reviews. He shall submit a review data package, SDRL Item C207, for each review.

The Subcontractor shall also participate in Weekly Status/Technical Interface Meetings with the Buyer. Review data packages are not required as a SDRL Item, but appropriate handouts for the status and subjects under discussion should be available at the meetings.

4.1.7 (Reserved)

4.1.8 Document Publication and Control

The Subcontractor shall perform document publication and control activities sufficient to assure timely and accurate submission of data to the Buyer in accordance with the Subcontract Data Requirements List (SDRL), Appendix A hereto. All documentation for delivery to the NPIC customer will be published and distributed by the Buyer, including classified document control. All documents shall be prepared according to Buyer-specified format and style, or to a format and style mutually agreed by the Buyer and the Subcontractor if none are specified.

The subcontractor shall prepare a Data Accession List, SDRL Item C156, and submit with monthly updates to the Buyer.

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4.2 SYSTEM ENGINEERING

The Subcontractor shall develop two software CPCI's and a hardware CI as follows:

CPCI:

- Work Station Application Software WAPPLS
- Work Station System Software (option) WSYSTM

CI:

c. Part I Specification for the Work Station

System Engineering will develop the CPCI Part I specifications, and provide support to Software Development for the Part II specifications. In addition, the subcontractor shall complete the Component (Part I) specification for the work stations (SDRL C143).

4.2.1 System Engineering Management

The Subcontractor shall provide technical management of all of his activities as part of his System Engineering management. He shall develop and enforce hardware/software/operations interface standards for his CPCI's, and input these standards to the Buyer (SDRL Item C118). He shall provide inputs to the Segment Development Plan, SDRL Item C104. The System Engineering process will continue through BOC, and be repeated as necessary for IOC and FOC.

4.2.2 Analysis

The Subcontractor shall perform the following tasks for the CPCI and if the hardware option is exercised for the CI:

- a. Provide requirements analysis and traceability for his CPCI's;
- Provide the Requirements Traceability and Verification Matrix, SDRL Item C119;
- Provide performance analysis for his CPCI's;
- d. Provide inputs to the Segment Design Analysis Report, SDRL Item C122;
- Accomplish trade studies for his CPCI's; and
- f. Prepare Engineering Technical Notes, SDRL Item C120, as applicable and required for his CI's (option).

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4.2.3 Operations Engineering and Development

The Subcontractor shall prepare inputs for the O&M Plan, SDRL Item C123, and the Maintenance & Logistics Plan, SDRL Item C124. The Buyer will coordinate inputs from all subcontractors and will publish one overall document for each item.

4.2.4 Design

The Subcontractor shall participate in the preparation of each of the following documents, by supplying inputs to the Buyer:

- Segment Design Specification, SDRL Item C117;
- b. Data Base Specification, SDRL Item C125;
- c. Interface Specifications, SDRL Items C126, C127, C128 and C129.

The Subcontractor shall participate in requirements allocation studies with the Buyer, and shall prepare a CPCI Part I specification, SDRL Item Cl41, for each of his CPCI's. These specifications will contain the information specified in NPIC document \$7001. The format of the specification will be provided by the Buyer to assure uniformity of preparation by the subcontractors. The Subcontractor will prepare the classified portion of his Part I specifications using the SCRIPT facility of the Software Development Laboratory on the Buyer's premises. He must present and defend his design at the PDR review, and provide suitable update to the Part I specifications after this review.

4.2.5 Transition and Integration Planning and Support

The Subcontractor shall provide inputs for the Segment Transition and Integration Plan, SDRL Item Cll5. He shall perform facility planning, installation, and checkout and shall support the transition of the new capability into the operational environment.

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4.2.6 Test Support

The Subcontractor shall prepare inputs to the following documents:

a. Test Plans, SDRL Item C131, and Test Procedures, SDRL Item C208.

The System Engineering function shall support the execution and evaluation of all software test performed by the Subcontractor.

4.2.7 CM Support

The System Engineering function of the Subcontractor's organization shall provide support to the Configuration Management function by:

- a. Evaluating proposed changes;
- b. Providing change request impact analysis;
- c. Providing interface control; and
- d. Providing CM documentation, SDRL C209.

4.2.8 Technical Reviews

The Subcontractor shall support all technical reviews imposed upon him by the Buyer (i.e. PDR, CDR, SRR, etc.) either directly for his CPCI's and independent test activity, or as a member of a designated review team for other software activities. For reviews on his own activities, he shall provide minutes of the review and a listing of the action items assigned (SDRL Item C205), and he shall provide the necessary action item followup activity.

Technical reviews will be required for each capability - i.e. a CDR will be held for BOC, for IOC, and for FOC capability.

Technical reviews will consist of:

- Segment Design Review (SDR);
- b. Preliminary Design Review (PDR);

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- c. Critical Design Review (CDR);
- d. Segment Readiness Reviews; and
- e. Other reviews which may be defined by the NDPO.

Technical reviews will be conducted in accordance with MIL-STD-1521A.

4.3 SOFTWARE DEVELOPMENT - BOC

4.3.1 Software Development Management

The Subcontractor shall provide software management for all of his software development activities to produce the deliverable products required for the contract line items of Section 3 herein. He shall enforce program design, coding, and test practices, standards and conventions, documentation, and configuration control for the NDC D/C software products in accordance with NPIC Document S7001, and with the Buyer's D/C Segment Development Plan (SDP), Document 7935655, and NDS D/C Segment System Programming Practices Standards and Conventions (PPS&C), Document 7935656. The Buyer reserves the right to attend and participate in all design reviews and code inspections conducted by the Subcontractor.

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The Subcontractor shall accomplish reporting of software development status via the Project Master Control Plan. He shall assume that non-redundant errors found during design inspection, code inspection, unit test, and software integration and test must be separately maintained in the Plan by CPC. Errors are defined to be defects which require source changes for correction.

4.3.2 Computer Program Configuration Items (CPCI)

The Subcontractor shall provide the following CPCI's for the BOC capability:

- a. Work Station Application Software WAPPLS
- Work Station System Software (option) WSYSTM

These CPCI's shall be based upon the CPCI Part I specifications prepared by the Subcontractors System Engineering function, and shall be developed in conformance to the DC Segment Development Plan, Document 7STAT.

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4.3.2.1 Preliminary Design

The Subcontractor shall:

- a. Participate in requirements analysis and allocation;
- b. Support the System Engineering activity in the development of a CPCI Part I specification for each CPCI;
- c. Prepare a preliminary CPCI Part II specification for each CPCI, SDRL Item C142;
- d. Prepare a Data Dictionary, SDRL Item C145;
- e. Conduct internal design reviews for each CPCI; and
- f. Present his preliminary CPCI designs at the PDR design review.

4.3.2.2 Critical Design

The Subcontractor shall prepare the build-to CPCI Part II specifications for each CPCI after Buyer approval of the preliminary specifications. He shall conduct internal design reviews during this development process, and present his build-to design at the CDR review.

4.3.2.3 Development

The Subcontractor shall code and debug his software for each CPCI after Buyer approval of the build-to CPCI Part II Specifications. He shall then prepare as-built CPCI Part II Specifications for each CPCI.

4.3.2.4 Test

- Unit test his software at the module level;
- Integrate modules and test to the CPC level in preparation for PQT;

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c. Support Test and Verification involving his software; and The Buyer and the Government reserve the right to witness all tests.

4.3.2.5 Documentation

Concurrent with preparation of the build-to and as-built CPCI Part II specifications, the Subcontractor shall prepare a build-to and an as-built System Operation Manual, SDRL Item C203, for each CPCI.

The Subcontractor shall also prepare out the Programmers Manuals, SDRL Item C138. Software inputs to any training manuals which will be required shall also be prepared for each CPCI.

The Subcontractor shall prepare and supply inputs to the Software Version Description Documents (SDRL Item C152) for each of his CPCI's.

The Subcontractor shall supply as-built CPCI listings (SDRL Item C150) when segment acceptance occurs for the BOC capability.

The Subcontractor shall prepare a Part II Component specification (SDRL C144) for the Work Station if the option is exercised.

4.3.2.6 Problem Evaluation and Correction

The Subcontractor shall provide software support for Problem Evaluation and Correction (PEAC). PEAC will be required for each CPCI following the Preliminary Qualification Test (PQT) of the first Computer Program Component (CPC) until Government acceptance of the segment.

4.3.3 Software Update for IOC

Following Software Development to support BOC additional development effort will be required to upgrade the software for IOC. Sections 4.3.2.1 thru 4.3.2.6 of this work statement apply equally to this activity as well as the BOC activity.

4.4 TEST AND VERIFICATION

The Subcontractor shall prepare a System Test Plan detailing the overall test approach for the Integrated Work Station (IWS). The System Test Plan shall address the levels of test specified herein and shall be submitted for approval in accordance with SDRL No. C130.

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4.4.1 Engineering Test and Evaluation (ET&E)

The Subcontractor shall perform ET&E testing as specified in Buyer Development Plan, No. 7935655, in accordance with subcontractor prepared test procedures. Test data shall be delivered in accordance with SDRL No. C154.

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4.4.2 Hardware Qualification Testing (option)

The Subcontractor shall perform Hardware Qualification testing in plant as specified in Buyer Development Plan, No. 7935655, on the First Article IWS of each configuration in accordance with subcontractor prepared test plans and procedures. The test plans and procedures shall be prepared and submitted for approval in accordance with SDRL No. C131 and C208. Test reports shall be prepared and submitted in accordance with SDRL No. C154. and Government personnel may observe the testing at the Buyer's option. Hardware Qualification tests of each configuration IWS and subsequent articles shall consist of a subset of First Article tests. These tests shall verify proper fabrication and integration with the software of equipments prior to shipment.

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Hardware Qualification Tests will provide verification that the EMC and TEMPEST design criteria has been met.

For tests performed at this level requiring special equipment at the subcontractors' or vendors' facility, for which it would be impractical to perform these tests at Buyer or Government locations, the subcontractor may carry the test data and test results forward toward the satisfaction of requirements of the Hardware/Software Subsystem Test. The test methods employed shall be in accordance with approved test plans.

4.4.3 Computer Program Test and Evaluation (CPT&E)

The Subcontractor shall perform CPT&E as specified in accordance with subcontractor prepared formal test plans and procedures. These procedures and test data shall be delivered in accordance with SDRL Nos. C208 and C154. Buyer and Government personnel may observe at Buyer's option.

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4.4.4 Executive Software Testing (option)

The Subcontractor shall integrate the IWS Terminal System Software, CPCI, WSYSTM, as defined in the System Design Specification (SDS), into the IWS and develop the required interfaces and test the other IWS computer programs in accordance with the applicable subsystem specifications. The functionally tested Terminal System Software CPCI, which shall form a part of the IWS operational computer programs, will be provided by the Subcontractor as specified in Section 4.3 of this SOW. The Buyer or government personnel may witness these tests at Buyer's option.

4.4.5 Preliminary Qualification Tests

The Subcontractor shall conduct Preliminary Qualification Tests (PQTs) on all computer program components (CPCs), and all work stations. The PQT plans and procedures shall be prepared and submitted in accordance with SDRL Nos. Cl30 and C208. Buyer and government personnel may observe testing at Buyer's option. Test reports shall be submitted in accordance with SDRL No. Cl54.

4.4.6 Formal Qualification Tests

The Subcontractor shall conduct Formal Qualification Tests (FQTs) for the remaining IWS CPCIs and Workstations. The FQT plans and procedures prepared by the subcontractor shall verify that all requirements of the System Development Specification are met. Test methods shall be in accordance with the Verification Cross-Reference Matrix of the Development Specification. The FQT plans and procedures shall be prepared and submitted in accordance with SDRL No. C130 and C208. Buyer and government personnel may observe testing at Buyer's option. Test reports shall be submitted in accordance with SDRL No. C154.

4.4.7 Hardware/Software Subsystem Test

The Subcontractor shall support the Hardware/Software Subsystem Test. A Physical Configuration audit will be performed, by the Buyer with the Subcontractor's support and documentation, following this test and full configuration control will be implemented at that time.

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4.4.8 Reliability Demonstration (option)

The Subcontractor shall develop a Reliability Demonstration Plan in accordance with MIL-STD-785A. The Reliability Demonstration Plan (SDRL C151) shall reflect the requirements of the appropriate reliability requirements of the NDS RFP and be submitted to Buyer in accordance with CDRL C151. The accept/reject criteria shall be as established in this plan and is subject to approval of Buyer. The reliability demonstration shall be performed in accordance with the plan. The demonstration shall consist of the collection and analysis of failure data and shall be concurrent with the conduct of other test activities on articles 1, 2, and 3 of each configuration. This test shall be conducted only on the first three articles. A reliability demonstration report shall be delivered to Buyer in accordance with SDRL No. C154.

4.4.9 Maintainability (option)

Provide Maintainability Plan per Section 5.0 of MIL-STD-470 as a portion of SDRL No. Cl24.

Provide Maintainability Predictions on the Preliminary Design per Procedure III of MIL-HDBK-472 at the then defined LRU level 30 days prior to PDR.

Provide Maintainability Predictions on the Final Design per Procedure IIB of MIL-HDBK-472 30 days prior to CDR.

Perform Maintainability Demonstration using MIL-STD-471D method 9 as a quideline. Scenarios should include validation of maintenance manuals, confirmation of tools and test equipment to isolate and repair faults.

4.4.10 IWS Integration Tests (option)

The Subcontractor shall support a level of effort for the Segment PQT, FQT and system tests at the Government sites.

Operations of the IWS during these tests will be performed by an independent test agency. The subcontractor shall provide initial training to the test team, answer onsite questions and provide maintenance support, including spare parts and repair of failed parts.

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4.4.11 Installation, Checkout and Test (Option)

The Subcontractor shall support site installation, checkout, and test for workstation hardware and software at the NPIC site.

4.4.11.1 Installation, Checkout, and Test Management (option)

The Subcontractor shall provide management to his personnel for site installation, checkout, and test of D/C Segment work station hardware and software, and for support of System Integrator Contractor tests. He shall provide interfaces to the Buyer and to the SI Contractor for management, coordination, and planning. He shall participate in the Buyer's Change Control Board (CCB) and in the SI Contractor's CCB as required, and he shall submit to the Buyer CCB Assessments (SDRL Item C211) required for all changes considered which affect the workstation hardware and software.

The Subcontractor shall:

- a. Provide and implement security procedures during system installation on-site;
- b. Record all on-site computer utilization and computer problems, and submit to the Buyer Computer Utilization/Problem Reports (CU/PR) (SDRL Item C209) at the completion of each scheduled test period.

4.5 SOFTWARE SUPPORT

4.5.1 Problem Evaluation and Correction

The Subcontractor shall provide software support for Problem Evaluation and Correction (PEAC). PEAC will be required for each CPCI following the Preliminary Qualification Test (PQT) of the first Computer Program Component (CPC) until the Final Qualification Test (FQT) of the total CPCI for each capability.

4.5.2 PTR Analysis and Closure

The Subcontractor shall respond to Program Trouble Reports (PTR) written against his CPCI's after successful completion of the CPCI until D/C Segment acceptance.

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4.5.3 Software Maintenance

Software maintenance support will be required after D/C Segment acceptance until a specific operational capability has been replaced with an updated operational capability, or until FOC has been achieved, as applicable. This support will be based upon PTR's submitted by the Buyer or System Integration (SI) Contractor.

4.6 DATA

The Subcontractor shall supply data, consisting of specifications, plans, procedures, reports, lists, drawings, descriptions, and data packages as required to satisfy the requirements of subcontract Data Requirements List, Appendix A hereto. The data shall be submitted in two forms, one as an input for combination with Buyer data, and one as a complete, stand-along data package. The SDRL specifies the form and the quantity of copies required. Stand-alone data packages will be prepared in Buyer format and on Buyer forms.

Data, except for drawings or large illustration, shall be submitted on white bond paper, of reproducible quality capable of excellent reproduction. Drawings and large illustrations shall be submitted on apparture cards for permanent file.

As a minimum, the following information must be included on the letter of transmittal:

- Data requirement number
- b. Data requirement title
- c. Enclosure number and data
- d. Purchase Order number.

Appendix B hereto is the Preliminary Data Requirements Document for the Program.

4.7 INTEGRATED LOGISTICS SUPPORT (to be a portion of the hardware option)

Provide Maintenance and Logistics Plan (MLP) per SDRL C124. Preliminary version to be submitted PDR - 60 days. Updates every 60 days or as required. Final is due CDR - 60 days.

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Section 4.5, Management of NPIC Maintenance, should summarize maintenance portion of 0&M Plan SDRL C123. In addition, this section should define the maintenance concept and reference the Logistics Support Analysis (LSA), Repair Level Analysis (RLA), and Spares Optimization and trade studies that formed this concept.

Perform Logistics Support Analysis (LSA) using MIL-STD-1388-1 as a guideline. LSAR Sheets are not required. Provide data required for internal cost trade-offs in contractor format. Data elements are to be defined by contractor.

Perform Level of Repair Analysis - Cost Trade-Off reports will indicate quantitatively the advantages of the recommended maintenance concept. Back-up data will be supplied.

Perform Spares Optimization to define the most cost effective mix of spares at each site and depots. Provide Recommended Spares Lists and Quantitave Analysis Report justifying recommendations.

Provide representation at the D/C Segment Integration Logistics Support Management Team (ILSMT) meetings to present contractor ILS program, accept action items and coordinate inputs to other contractors involved in D/C Sement ILS. This ILSMT representative should be the contractors ILS representative to the contractors CCB and be conversant with all aspects of the contractors ILS program.

Manuals - The plan for satisfying SDRLs C136, C137, C138 and C148 will be contained in Section 4.3 of the MLP (SDRL C124).

OPTION ITEMS

4.8 HARDWARE DEVELOPMENT

The Subcontractor shall upon exercise of the option by Buyer, develop the Work Stations in three configuration described as:

Basic (A) Expanded (B) Image (C)

Development of these units will be in accordance with the schedule, Figure 8-1 and the specifications prepared under line item 2 and Part II specification completed under this line item, as approved by Buyer. These specifications will conform to the requirements of MIL-STD-490.

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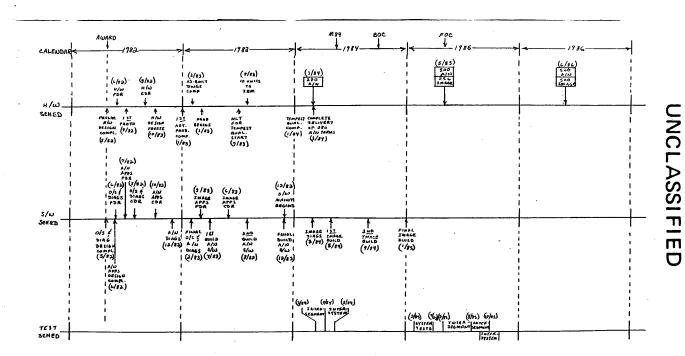


Figure 8-1. Preliminary



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The design will be fully disclosed on engineering drawings, lists and processes, SDRL Item C210, prepared in accordance with level 3 of DOD-D-1000B and with DOD-STD-100C.

Subcontractor shall be prepared to conduct a Preliminary Design Review (PDR) and Critical Design Review (CDR) prior to a commitment to production. These design reviews will be conducted at a mutually acceptable location. At the time of the design reviews copies of the then available drawings will be delivered to Buyer in accordance with SDRL Item C210. Following the CDR the configuration will be established and configuration control in accordance with DOD-STD-480 will be established.

The design of the equipment will include marking of components in accordance with MIL-STD-1285 and of the equipments in accordance with MIL-P-150240.

Fabrication of the units will be under a Quality Control program in accordance with MIL-Q-9858A. Sufficient documentation describing the Subcontractors Quality program will be made available to the Buyer's Quality Control personnel to demonstrate compliance with specification. A Maintainability program will be established in accordance with MIL-STD-470 and the Subcontractor's Maintenance and Logistics Plan (MLP), SDRL item C124, as approved by Buyer. A Reliability program will be established in accordance with MIL-STD-785A and the MLP.

Equipment Operation and Maintenance Manuals (EOM) for each configuration will be provided in accordance with SDRL No. C148. These manuals will be subject to Configuration Control prior to delivery.

4.8.1 Electromagnetic Radiation

The workstation, in any configuration, shall meet the EMC, TEMPEST and grounding requirements of S7012, NPIC Facility Equipment EMC Specification.

IWS configurations common to both NPIC facilities shall be operable at either facility without modification.

The control of electromagnetic emission and susceptability shall be in accordance with the following requirements and shall cover both the environment in which the item operates as well as that which it generates.

4.8.1.1 Electromagnetic Compatibility (EMC)

The IWS design shall be in accordance with MIL-STD-461B Ground Facilities (Class A3) requirements.

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4.8.1.2 TEMPEST

The IWS design shall be in accordance with NACSIM 5100A and installed in accordance with MIL-HDBK-232 and shall cover all the interfacing cabling.

4.9 WORK STATION QUALIFICATION TEST

TBD

4.10 WORK STATION PRODUCTION

Production of the Work Stations, in accordance with Line Items 13 thru 1012, will be delivered to the schedule of Figure 8-1 in Section 4.8 herein. Each unit will receive a minimum of 24 hours of consecutive operation while being cycled with data to simulate operation.

Acceptance test of each unit will be conducted in accordance with test procedures approved by Buyer. Buyer reserves the right to witness all acceptance tests. At the completion of acceptance testing a Configuration Listing for each unit will be prepared and will contain the Part No., Revision Level and Serial Number of each subassembly in the unit. This data will be maintained by Subcontractor and will be made available to Buyer if requested.

4.11 TRAINING

The Subcontractor shall provide initial training support for User Training, Operator Training, and Maintenance Training. Any training material prepared by subcontractors for his internal use will be delivered to buyer, SDRL No. C146.

4.12 SAFETY

The Subcontractor shall provide a System Safety Program Plan tailored to the requirements of the Program and generated utilizing MIL-STD-882A as a guide.

In the area of personnel safety the Subcontractor shall adhere to the requirements specified in MIL-STD-454F Req. 1. Personnel Safety will not be an item for negotiation.

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All Category I (Catastrophic) or II (Critical) hazards will be eliminated, Category III hazards will be controlled.

Safety engineering principles shall be applied throughout the design, development, test, installation, checkout and operation of all equipment.

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Section 5

PRESERVATION, PACKAGING, PACKING, AND MARKING

5.1 DATA ITEMS

The Contractor shall deliver all unclassified data items packaged in a protective container in accordance with best commercial practice. The data items shall be warpped in a protective wrapper within the container, and this wrapper shall be marked with the following information:

- a. Document Title;
- b. CDRL Identification;
- c. Contract Number; and
- d. Contractor Identification.

The CDRL identification shall be the CDRL number followed by a -1 to indicate BOC applicability, -2 for IOC and -3 for FOC.

Classified data shall be packaged in a protective container in accordance with best commercial practice meeting NPIC security requirements for classified shipment. Data identification, as specified above, shall be shown on inner wrappers within the container.

5.2 HARDWARE

Delivered hardware, including the return of any GFE furnished by the Government, shall be packaged in a thermal-sealed plastic bag for moisture protection and packed in heavy cardboard or wood containers in accordance with best commercial practice such that operational performance shall not be degraded, and mechanical damage shall not be incurred, as a result of transportation and handling required for delivery from point of manufacture or last installation to the NPIC destination, including truck shipment and lift truck operations. Heavy cardboard or wood containers shall be determined based upon size and weight of the hardware to be packed. The sealed plastic bag shall bear the following information applied by pressure-sensitive label:

- a. Hardware name;
- Hardware part number and manufacturer;
- c. Contract Line Item Identification;
- d. Contract Number; and
- e. Contractor Identification.

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5.3 SOFTWARE

Magnetic tapes shall be packaged in protective tape cans, sealed and marked with the following information:

- a. Tape Identification;
- b. Capability Phase (BOC, IOC, FOC);
- Contract Line Item Identification;
- d. Contract Number; and
- e. Contractor Identification.

Security classification shall also be shown, if the tape contents are classified.

The tape cans shall be packed in an outer container for shipment, meeting best commercial practice, and with internal wrappers in accordance with NPIC security requirements for classified shipment. Documentation associated with the magnetic tapes, other than CDRL items, shall be packaged and packed in the same outer container and must be identified on internal protective wrappers as specified above for the tapes. In addition, the identification of the documentation must be shown. If classified, the internal wrappers for the documentation must satisfy NPIC security requirements.

5.4 IDENTIFICATION AND MARKING OF SHIPMENTS

No stenciling shall be applied to the shipping containers except for the following:

- a. Weight, dimensions and cubic content of container; and
- b. Caution markings for handling purposes, such as "DELICATE INSTRUMENT", "THIS SIDE UP", "FRAGILE", etc.

The consignee address shall be marked on a shipping tag or label that shall be securely fixed to the container by use of waterproof adhesive or stapled to the container. Such markings shall be protected by a cost of transparent water-repellant material. The contract and CLIN numbers, and the name of the consignor must be shown.

The exterior of each container within a shipment shall bear a number relative to the total number of containers in the shipment, e.g. PKG 1 of 5. This numbering shall not be stenciled on the container, but shall be applied by tag or label as described for the consignee address.

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Where an equipment item is shipped in two or more pieces, each container shall be marked with the set or assembly number, the number of the container relative to the number of containers comprising the complete set or assembly, and a brief title description of the set or assembly component contained therein. This marking shall be applied by tag or label as previously described.

A packing list, referencing the container numbers and contents, must accompany each shipment. All shipments must be F.O.B. Destination.

5.5 PROTECTED SHIPMENTS

Any shipment containing Government-classified material shall be made only in accordance with instructions furnished the Contractor by the Contracting Officer upon notification that the material is ready for shipment. The Contractor shall identify the following information for the Contracting Officer:

- a. Date material is required at destination;
- b. The destination; and
- c. The approximate size, weight and number of cartons.

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Section 6

PERIOD OF PERFORMANCE AND DELIVERIES

6.1 PERIOD OF PERFORMANCE

The period of performance of this subcontract including the options, shall begin on the date of issue of this subcontract and continue until 30 September 1986.

6.2 DELIVERABLES

The Subcontractor shall deliver to, or complete for the benefit of the Buyer the supplies and services listed below in accordance with Sections 3, 4, and 5 herein to the following schedule:

| ITEM NO. | DESCRIPTION | DATE |
|----------|---------------------------------|-------------------------|
| 1 | Project Management | AR |
| 2 . | Systems Engineering | AR |
| 3 | Software Development | ·) |
| | PDR WSAPPLS WSYSTM IWS | 11-82 11-82 06-82 |
| | CDR WSAPPLS WSYSTM IWS | 09-83 09-83 09-82 |
| 4. | Test and Evaluation | 5 thru 9-84 See SDRL |
| 5 | Software Support | TBD thru TBD |
| . 6 | Data | See SDRL |

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| ITEM NO. | DESCRIPTION | DATE |
|----------|---------------------------------------|------------|
| · 7 | ILS | See SDRL |
| 8 | Hardware Development | Figure 8-1 |
| 9 | Work Station Qualification Testing | TBD |
| 10 | Work Station Production | Figure 8-1 |
| 11 | Training | AR |

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Section 7

| INSPECTION AND ACCEPTANCE | |
|---|-----|
| 7.1 POINT OF INSPECTION AND ACCEPTANCE | |
| 7.1.1 Software | |
| The point of acceptance for all software will be at the Buyer's software facility in | STA |
| 7.1.2 Hardware | |
| The point of inspection and conditional acceptance shall be at the Subcontractor's facility. Final acceptance shall be at Buyer's facility in following completion of integration and system testing or other Washington area location as directed. | STA |
| 7.1.0 | |

The point of acceptance for data items will be at Buyer's facility in

STAT

7.2 ACCEPTANCE CRITERIA

7.2.1 Software

The Subcontractor will prepare the necessary testing documentation in accordance with the criteria set forth in Section 4 of this SOW, for approval by Buyer. This documentation will define the testing and pass/fail criteria for a particular group of software while performing as an integrated portion of the NPIC system. Acceptance will be provided, following successful completion of integrated testing, by a "Certificate of Completion" signed by the Buyer's Subcontract Administrator.

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7.2.2 Hardware

Preliminary testing of the Hardware provided hereunder will be conducted as Subcontractor's facility using test procedures approved 30 days prior to the start of testing by the Buyers Subcontract Admininstrator. These test procedures will clearly state the testing methodology and pass/fail criteria. Following successful completion of testing at the Subcontractor's facility, permission to ship the hardware to Buyer will be obtained from Buyer's Subcontract Administrator.

Final acceptance will follow integrated testing of the hardware at Buyer's facility using test procedures approved by Buyer. Final acceptance will be in the form of a "Certificate of Completion" signed by the Buyer's Subcontract Administrator.

7.2.3 Data

Acceptance or rejection, of data items requiring approval, will be forthcoming within 60 days of receipt of the data item at Buyer's facility. Concurrent with disapproval, the Buyer will state the reasons for disapproval and the required date for resubmission. Data items not requiring approval shall be considered accepted upon receipt of a completed document by the Buyer's Subcontract Adminstrator; however, resubmission may be required for incomplete data items or those containing inaccuracies or errors.

All original data shall normally be delivered in the form of a reproducible master of high quality suitable for photographic reproduction without touchup. Black letering and drawing on 8 1/2" x 11" high quality white bond paper is required. Drawings larger than this size shall be reduced to this size providing that no clarity of detail of readibility is lost.

Original data in the form of computer printouts must be delivered on white paper from one copy printouts, with alpha/numerical impressions sharp and clear in high black contrast to the paper.

| Statement of W | /ork | | | | | | SIA |
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Section 8

| BUYER-FURNISHED FACILITIES AND SUPPORT | |
|--|--------------|
| The Buyer will provide the following facilities and items of support to the Subcontractor on the for the performance of the classified software tasks required under this Statement of Work: | STAT |
| Software Development Laboratory, containing necessary computer systems and other equipment for the development and test of NPIC software; | |
| Office facilities equivalent to those utilized by the Buyer's personnel at the same professional level, including desks, chairs, file cabinets, etc.; | |
| c. Telephone service; | |
| d. Typing and other administrative support, including document reproduction service, equivalent to that utilized by the Buyer's NPIC Program Office; and | |
| e. Stationery and office supplies equivalent to those available to the Buyer's NPIC Program Office. | |
| These facilities and items of support will be available for the period of performance of this Statement of Work. | |
| The Buyer and the Subcontractor shall agree at the time of subcontract negotiations upon the number and professional level of personnel to be resident on the premises. | STAT STAT |

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Section 9

RESIDENT FACILITIES

The Buyer reserves the right, with prior advise to the Subcontractor, to, at any time during the Subcontract, place in residence one or more Buyer personnel for monitoring, evaluation and coordination.

The Subcontractor shall provide normal office services and facilities to Buyer Personnel.

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Appendix A

SUBCONTRACT DATA REQUIREMENTS LIST

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The following is a list of all subcontract data deliverable with delivery schedule and format references. The associated DRDs are shown in Appendix B herein.

Data items should normally be submitted as a camera-ready copy and six copies. Publication and approval will be accomplished by the Buyer. Copies of computer printouts may be reduced.

The camera-ready copy shall be of high quality suitable for photographic reproduction without touchup. Black lettering and line drawings on 8 1/2" x 11" high quality white bond paper is required. Drawings larger than this size shall be reduced to this size, providing that no clarity of detail or readibility is lost. Separate, individual drawings shall be prepared if drawing reduction cannot be accomplished.

Data in the form of computer printouts must be delivered on white paper from one copy impressions, with all printing sharp and clear in high black contract to the white paper. The original printout, as specified, shall serve as a camera-ready master.

| No. | Data Requirement | Date Required | DRD |
|--------|---|--|----------|
| - C102 | Financial Plan | To be specified | 800 |
| C103 | Master Schedule | As required | 801 |
| C104 | Development Plan | To be specified | 708 |
| C105 | Security Plan | To be specified | 802 |
| C109 | Monthly Financial Report | 10 days after end of accounting month | 805STAT |
| C110 | Milestone Updates | Every 6 months | 806 |
| C111 | Milestone Report | Weekly | 807 |
| C112 | Monthly Status Review | Monthly | 808 |
| C113 | Quarterly Progress and Status Report | 10 days after end of accounting quarter | 809 STAT |
| C115 | Segment Transition & Integration Plan | PDR - 60 Days (Preliminary) CDR - 60 Days (Update) H/W Dlvg 120 Days (Final) | 726 |

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| No. | Data Requirement | Date Required | DRD · |
|------|--|--|-------|
| C116 | Segment Operations Concept | PDR - 45 days (Final) | 700 |
| C117 | Segment Design Specification | PDR - 45 days (Final) | 706 |
| C118 | S/W - OPNS - H/W Interface Standards | PDR - 45 days | 707 |
| C119 | Requirements Traceability & Verif. Matrix | PDR - 45 days (Update) CDR - 45 days (Final) | 717 |
| C120 | Engineering Tech Notes | As required | 811 |
| C121 | Segment Verification Plan | PDR - 45 days | 734 |
| C122 | Segment Design Analysis Report | PDR - 45 days (Update) CDR - 45 days (Final) | 812 |
| C123 | O&M Plan | PDR - 45 days (Preliminary) CDR - 45 days (Final) | 813 |
| C124 | Maintenance and Logistics Plan (TBR) | PDR - 60 days | 722 |
| C125 | Data Base Specification | PDR - 45 days (Preliminary) CDR - 45 days (Final) | 710 |
| C126 | Operations/Software Interface Specification | PDR - 60 Days (Preliminary) CDR - 60 Days (Final) | 712 |
| C127 | Operations/Hardware Interface Specification | PDR - 60 Days (Preliminary) CDR - 60 Days (Final) | 713 |
| C128 | Hardware/Software Interface Specification | PDR - 60 Days (Preliminary) CDR - 60 Days (Final) | 714 |
| C129 | Software/Software Interface Specification | PDR - 60 Days (Preliminary) CDR - 60 Days (Final) | 715 |
| C130 | Segment Test Plan | PDR - 45 days (Preliminary) CDR - 45 days (Final) | 718 |
| C131 | Test Plans | PDR + 45 days (Preliminary) CDR - 45 days (Final) | 814 |

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| No. | Data Requirement | Date Required | DRD |
|------|--|--|-------------|
| C136 | Equipment Operations & Maintenance Manual | CDR - 45 days (Preliminary) First Delivery to 45 days (Update) | 727 STAT |
| C137 | Data Base Administrator Manual | PDR - 45 days (Preliminary) CDR - 45 days (Update) Start of Training (Final) | 818 |
| C138 | Programmers Manual | CDR - 45 days (Preliminary) Segment Acceptance (Final) | 819 |
| C141 | CPCI Part I Specifications | PDR - 45 days | 709 |
| C142 | CPCI Part II Spcifications | PDR - 45 days (Preliminary) CDR - 45 days (Build to) Segment Acceptance (As built) | 719 |
| C143 | CI Specification | PDR - 45 days . | 820 - |
| C144 | Component Specification | PDR - 45 days (Preliminary) CDR - 45 days (Build to) | 821 |
| C145 | Data Dictionary | PDR 45 days (Preliminary) CDR 45 days (Buildto) Segment Acceptance (As built) | 822 |
| C146 | Training Requirements | As prepared | |
| C148 | Equipment Operations and Maintenance Manual | Ship (Preliminary) Segment Acceptance + 45 days (Final) | 727 |
| C150 | CPCI Listings (As built) | Segment Acceptance + 45 days | 730 |
| C151 | Reliability Demonstration Plan | Demo - 90 days | |
| C152 | S/W Version Description Document | Ship + 15 days | • |
| C154 | Segment Test Reports | Test + 10 days | 733 |
| C156 | Data Accession List | Updated Monthly | 828 |
| C201 | Weekly Financial Report | Weekly | 900 |
| C202 | Status Data for NDPO Schedule System | Updated Monthly | 901 |
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| No. | Data Requirement | Date Required | DRD |
|------|---|-------------------------|--------|
| C203 | Systems Operations Manual | Same as CPCI II Specs | 720 |
| C204 | Project Master Control Plan | To be specified | 902 |
| C205 | Review Minutes and Action Items | Review + 5 days | 903 |
| C206 | Segment/Systems Operations Manual | To be defined | 904 |
| C207 | Review Data Package | Review-30 Days | 905 |
| C208 | Test Procedures | Test-45 Days | 906 |
| C209 | Computer Utilization/Problem Report (CU/PR) | End of each Test Period | 907 |
| C213 | Configuration Management Plan | 30 DAC | TBS |
| C214 | Configuration Management Data | As Required • | Note 2 |
| C210 | Drawings, Engineering and Associated Lists | PDR and CDR | Note 1 |
| C211 | CCB Assessment | As Required | |
| C212 | Design Validation Report | | TBS |

- (1) In accordance with DOD-STD-1000B, Level 3.
- 2) In accordance with Operating Procedures and MIL-STD-480A.

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APPENDIX B

Data Requirement Description

(DRD)

Note: The DRDs are not included with this proposal to NPIC because the DRDs are duplicates of those in the RFP.

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_ Approved For Release 2007/09/06 : CIA-RDP84T00037R000500040001-2

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Appendix C

OPERATING PROCEDURES

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(NOTE: References to _____ in these procedures applies to the entire Washington Metropolitan Area, including

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| UBJECT: FSD PROCEDURES - NEW/REVISED UMBER TITLE AND COMMENTS REMOVE ADD 9-12A Engineering Documents - Release and See below I thru 8 and Attachment A All dated 3/15/78. his release (see Exceptions) replaces all previous issues of OP 29-12 at all ocations, and obsoletes OP 29-04 by incorporation. KCEPTIONS: Setain pages 9 thru 11 of old OP 29-12 (Section VI, Manufacturing Engineering ocuments) until OP 29-12C is released to replace them. Setain pages 1 thru 4, OP 29-12, Corrigendum (Section VII, Processing Revisions of Component Documents - Class II Changes) until OP 29-12B is released to seplace them. | | | | |
|---|---|--|------------------|----------------------------|
| BJECT: FSD PROCEDURES - NEW/REVISED TITLE AND COMMENTS REMOVE ADD 12A Engineering Documents - Release and Change I thru 8 and Attachment A All dated 3/15/78. See Exceptions) replaces all previous issues of OP 29-12 at all actions, and obsoletes OP 29-04 by incorporation. TEPTIONS: ain pages 9 thru 11 of old OP 29-12 (Section VI, Manufacturing Engineering uments) until OP 29-12C is released to replace them. ain pages 1 thru 4, OP 29-12, Corrigendum (Section VII, Processing Revisions Component Documents - Class II Changes) until OP 29-12B is released to lace them. | | | | |
| 2A Engineering Documents - Release and See below 1 thru 8 and Attachment A All dated 3/15/78. Trelease (see Exceptions) replaces all previous issues of OP 29-12 at all tions, and obsoletes OP 29-04 by incorporation. PTIONS: in pages 9 thru 11 of old OP 29-12 (Section VI, Manufacturing Engineering ments) until OP 29-12C is released to replace them. in pages 1 thru 4, OP 29-12, Corrigendum (Section VII, Processing Revisions omponent Documents - Class II Changes) until OP 29-12B is released to ace them. | MANAGERS | & Selected Off-sit | e Locations | |
| 12A Engineering Documents - Release and See below 1 thru 8 and Attachment A All dated 3/15/78. s release (see Exceptions) replaces all previous issues of OP 29-12 at all actions, and obsoletes OP 29-04 by incorporation. EPTIONS: ain pages 9 thru 11 of old OP 29-12 (Section VI, Manufacturing Engineering uments) until OP 29-12C is released to replace them. ain pages 1 thru 4, OP 29-12, Corrigendum (Section VII, Processing Revisions Component Documents - Class II Changes) until OP 29-12B is released to lace them. | JECT: FSD PROCEE | DURES - NEW/REVISED | | |
| Change Change Attachment A All dated 3/15/78. Is release (see Exceptions) replaces all previous issues of OP 29-12 at all cations, and obsoletes OP 29-04 by incorporation. CEPTIONS: Cain pages 9 thru 11 of old OP 29-12 (Section VI, Manufacturing Engineering numents) until OP 29-12C is released to replace them. Cain pages 1 thru 4, OP 29-12, Corrigendum (Section VII, Processing Revisions Component Documents - Class II Changes) until OP 29-12B is released to place them. | MBER T | TITLE AND COMMENTS | REMOVE | ADD |
| EEPTIONS: cain pages 9 thru 11 of old OP 29-12 (Section VI, Manufacturing Engineering tuments) until OP 29-12C is released to replace them. cain pages 1 thru 4, OP 29-12, Corrigendum (Section VII, Processing Revisions Component Documents - Class II Changes) until OP 29-12B is released to clace them. | | g Documents - Release and | See below | Attachment A. All dated |
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| | tain pages 1 thru (Component Document | 29-12C is released to replace 4. OP 29-12. Corrigendum (Sec | tion VII Proces | sing Portoies |
| eded copies are available from: | tain pages 1 thru (Component Document | 29-12C is released to replace 4. OP 29-12. Corrigendum (Sec | tion VII Proces | sing Portoies |
| ded copies are available from: | tain pages 1 thru of Component Document D | 29-12C is released to replace 4. OP 29-12. Corrigendum (Sec | tion VII Proces | sing Portoies |
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| | OPERA? | TING PROCEDURE | Index: Page: Issued: | 29-12A 1 of 10 |
| Sect | ion: | Engineering/Configuration Management | Issued: | 7/21/80 |
| SUBJ | ECT: | ENGINEERING DOCUMENTS - RELEASE & CHANGE | • | |
| Cont | act: | Engineering/Configuration Management | | |
| | | | | |
| I. | PURPO | JSE - | | |
| | Define authorin the (OPIC | | such tran | sactions |
| | EXCE | PTIONS: | | |
| ٠ | | 1. When it is necessary to deviate, the confice shall issue a supplement to this form of a Program Directive that define used on that program. This Program Directive approved by Configuration Management Operations, and Quality Assurance. | procedures the system | e in the tem to be st |
| | | 2. See OP 29-12B for Component Class II Ch | anges. | |
| | | 3. See OP 29-12C for Manufacturing Engineer and Change. | ering Docu | ments-Release |
| II. | CONT | ENTS | | |
| | Sect | ion III, GENERAL (Requirements) | | |
| | Sect: | ion IV, FORMS (Used in this Procedure) | | • |
| | Sect | ion V, PROCEDURE - ENGINEERING RELEASE | | |
| | Sect | ion VI, PROCEDURE - ENGINEERING CHANGE | | |
| | ATTAC | CHMENT A - DEFINITIONS | | |
| | ATTA | CHMENT B - STOCK DISPOSITION CODES | | |
| III. | GENEI | RAL (Requirements) | | |
| Α. | the a | sified Engineering Documents and Governm appropriate Security Procedures for specific erning originating and handling of classified | requiremen | nts |

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| | | | | • | |
|----|-------------------------|---|--|-------------------------|------------------|
| | | | | | |
| • | OPERAT | ING PROCEDURE | Page: 2 | 0-12A of 10 21/80 | STA |
| В. | and o lists | gineering Notice (EN) release package riginal Engineering Documents (drawing , procedures, specifications, as appli Materials Analysis Reports (CPMARs), w | s, parts list, wir cable, and Compone | e | |
| C. | as ap Engin | gineering Notice (EN) change package i plicable: (i) Part Where-Used List, (eering documents reflecting changes, (ce Only Change transaction), and (iv) | ii) marked copies iii) copy of EN af | of fected | |
| D. | EO fo attac All E | gineering Order (EO) change package is rm and, when needed, includes reproduc hments in order to adequately describe Os shall be incorporated by EN and des dance with the EO Rule. | ible pictorial/tex the changes requi | tual red. | |
| 0 | Engin | eering Order (EO) Rule | | | |
| | : | The maximum quantity of outstanding EO: than - three (3) at Owego, and five (5 previously approved by Configuration M. EO count not to exceed nine (9) when Cowaiver option is exercised. |) at unlanagement. Outsta | ess S nding | ATA |
| | | 1. At Quality Assurance is re of the EO Rule. | esponsible for enf | orcement S | AT8 |
| | | 2. At Configuration Manage enforcement of the EO Rule. | ement is responsib | le for S | STA ⁻ |
| | . ! | EO monitoring is required by all sign-ormanufacturing Documentation (Records). conditions that could force EO incorpormaximum is reached. | The following re | flects | |
| - | | Engineering receives written noting Manufacturing Engineering and Oual | | | |

new update is required due to poor document legibility to avoid increased cost or prevent schedule slippage/impact.

Needed to meet a specific contractual requirement.

EO/EN must indicate the incorporation of EER(s) - When the EO/EN contains data previously generated and incorporated by EER(s), the

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following rules apply.

OPERATING PROCEDURE

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- * a. The EO/EN may cover only the electrical functional changes effected by the EER(s).
- * b. Any additional changes not affecting electrical function may be incorporated concurrently, but the EO/EN must clearly state the difference.
- \star c. The EO/EN should clearly "as accurately as possible" state the S/N(s) of the items that have been or are intended to be incorporated via EER.
- * d. Copies of the EER(s) covered by the EO/EN must be incorporated into the change package.

E. Sheet Numbering:

- Mark sheet number and total number of sheets that make up the EN/EO package. Mark remaining sheets, including all attachments, consecutively with sheet numbers only.
- In a multiple Part No. EN/EO, when the total number of sheets comprising the package exceeds one (including the basic form, EN/EO continuation forms, pictorial-type attachments and textual-type attachments), the originator shall indicate the sheet numbers affected for each part number changed, adjacent to the affected part number in the body of the basic EN/EO form (and in the body of the continuation forms, if necessary).
- F. When a disposition of an EO/EN requires rework of affected parts, and such rework definition is not self evident nor covered by standard procedures, then rework instructions and/or rework drawings are required as part of the package.
- G. Once established by the Program Office, there shall be no deviation to Approval Signature List without Program Office approval.
- H. Unresolved problems during EN approval cycle shall be elevated for management resolution.
- I. Software Configuration/Hardware Configuration Change Board (SCCB/HCCB) is normally chaired by Configuration Management. EN/EOs must have all engineering approvals before submission for board review. Other approval signatures may be obtained at board meetings or by sequential EN/EO Package review and approval by affected functions.



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- J. All releases and changes which affect test equipment, test software, procedure/specification or testability shall be reviewed by the responsible test area prior to approval by the Configuration Control Board.
- K. Specification Change Notices (SCN) are released with an EO. The SCN is an approved specification change at this stage, but the EO serves as a mechanism for entering the SCN to OPIUS as well as informing CCB of its approval and release.
- L. The department responsible for the design and documentation of the part is responsible for initiating an EO that affects the Part/Document.
- M. It is the responsibility of the originator's Manager/Project Manager to verify need prior to authorizing the issue of an EO/EN.
- N. When an EO/EN is requested by an area other than the responsible department, the following information is required from the requester to the responsible department:
 - Document/Part Number affected
 - 2. Latest Engineering Notice (EN) and Outstanding EO numbers applicable to the document/part numbers affected
 - 3. Description of the problem
 - 4. Requester's name, department, and telephone number
- O. When processing an EN/EO, red lead pencils shall be used to mark all required changes on the documents and may be ordered from stationery stores under MRO 782 704076.
- P. A Notice Only EO/EN package will include a copy of the EO/EN affected.
- Q. All product hardware documentation being processed at ______ by EN must be inspected per location General Inspection Procedure 485 (GIP) covering Inspection of Engineering Documents.

IV. FORMS (Used in this Procedure)

952-0023 Engineering Notice 952-0044 Engineeringing Order 952-6003 EN Continuation 952-6010 EO Continuation

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STAT OPERATING PROCEDURE Index: 29-12A Page: 5 of 10 Issued: 7/21/80 PROCEDURE - ENGINEERING RELEASE. Pertains to all new Documentation ٧. processed to Records. A. Originator Prepare an EN in accordance with the instructions on the back of the form. Obtain all required Engineering signatures (including Manager, Project Manager, and Engineering CCB representatives, when applicable). - Forward the EN Package to Component Control for STAT processing and return. . Forward the EN Package to Configuration Management. Component Control -Inspect product hardware documentation in accordance with GIP 485 covering Inspection of Engineering Documents. Return EN Package to originator for further processing. Configuration Management Schedule and chair SCCB/HCCB meetings. Verify that adequate contractual data exists for action being addressed by the EN. Determine the Selected Item Code (as a board decision) on *3. releases occurring after the original Selected Item List (SIL) is established. See Attachment C for definitions. Obtain required Change Board approval signatures on the EN. Sign EN approval and release to Records for further processing. 5. NOTE: Change Board coordinates the resolution of any differences noted during this phase of approval.

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D. Manufacturing Engineering

Review the Package, source code release, resolve any manufacturability problems with Engineering, and sign EN approval.

E. Quality Assurance

Review the Package in accordance with Quality Control Procedures, and sign EN approval.

- F. Product Test
 - 1. Review the EN package in accordance with department Procedure.
 - 2. Resolve any testability problems and sign EN approval.
- G. Other CCB Representatives

Review EN Package for impact on area they represent and sign EN approval.

- H. Records
 - Assign Engineering Notice (EN) numbers upon request.
 - Verify that the content of the EN Package is complete, and that all signature blocks on drawing format are signed and dated in accordance with current department procedures.
 - Take necessary action to record the item identification (i.e., Code Identification, Part Number, Rev., Level, etc.) into the OPIUS data base.
 - 4. Affix a Release Stamp (R) and date to all Engineering documents.
 - 5. Arrange for distribution of the EN Package in accordance with instructions established by the Program Office and requests from Management for the program involved.

NOTE: Include distribution to those FSD sites that are jointly working the programs affected by the release.

6. Forward EN Package to Micro-Graphics.





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NOTE:

- a. Refer any problems regarding EN Package completeness to the CCB chairperson for resolution.
- b. Ensure that the automated Part List(s) and the OPIUS data base contain the exact information provided in the EN Package.
- File Master documents and balance of EN Package in accordance with Records Retention procedures.

I. Micro-Graphics

 Inspect copies of Engineering documentation for acceptable legibility and distribute per program distribution lists.

NOTE: Reject all illegible document packages to Records for subsequent return to the Engineer concerned.

2. Update Vital Records file.

NOTE: On programs involving two or more locations, ensure that vital records files are updated at the affected sites.

3. Return Master documents to Records.

J. Production Control

Implement the package in accordance with Production Control procedures.

VI. PROCEDURE - ENGINEERING CHANGE

Pertains to change (see Definition) required on Engineering documentation that is formally released. The EO authorizes expedited changes, and an EN authorizes change, plus updating the revision level of the affected documentation.

A. Originator

- When processing an EN, request copies of documents requiring changes, and Engineering Orders (EOs) outstanding against those documents from Records.
- Prepare the EN form or the EO form in accordance with the instructions on the back of the forms.

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| | 3. | Obtain all required Engineering signatures, including Manager, Project Manager, and Engineering CCB representative, when applicable. | | | | |
| | 4. | At Forward EN/EO Package to Component Control for processing and return. | S | | | |
| | 5. | Forward the EN/EO Package to Configuration Management. | ٠ | | | |
| NOT | E: | If the EN/EO is causing changes to multiple sheet drawings and all sheets are not affected, unaffected sheets shall not be included in the EN Package. | | | | |
| В. | Comp | ponent Control - | S | | | |
| | 1. | Inspect product hardware documentation in accordance with GIP 485 covering Inspection of Engineering Documents. | | | | |
| | 2. | Return EN/EO Package to originator for further processing. | | | | |
| c. | . Configuration Management | | | | | |
| | *1. | Schedule and chair SCCB/HCCB meetings. | | | | |
| | 2. | Verify that the correct class of change and contract authority, if applicable, is reflected on the EN/EO. | | | | |
| | 3. | Obtain other required signatures on EN/EO for program involved. | | | | |
| | *4. | Return any disapproved EN/EO Package to Engineering Change Board representative. | | | | |
| | 5. | Sign approval and forward EN/EO Package to Records for release. | | | | |
| D. | Rec | Records | | | | |
| | 1. | Verify that the EN/EO Package is complete and affix an (R) stamp and date to documents in the package. | | | | |
| | 2. | Arrange expedited distribution of the EN/EO Package in accordance with distribution instructions established by the Program Office for the affected program. | | | | |
| NOT | ΓE: | Include distribution to those sites that are jointly working the programs affected by the release. | S | | | |

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 Provide copies of the EN/EO and all attachments to be forwarded to Production Control and Manufacturing Engineering.

- 4. Update the automated records (OPIUS) to reflect the new configuration and ensure accuracy of revised computer output.
- Coordinate master documentation updating with applicable Engineering group.
- Send updated Masters to Micro-Graphics.

NOTE: Once the Change Board has approved the EN/EO and CM has delivered the Package to Records, the Package shall not leave the Records area prior to the (R) stamp being affixed to the documents therein unless directed by CM. CM is responsible for ensuring that additional changes are not made unless concurred with by those who previously approved the EN/EO.

- 7. File updated master documentation and balance of the EN Package.
- Return the original marked-up documents to the original EN file (not required for factory test equipment).
- Generate monthly Outstanding EO Reports with EO release dates and send reports to appropriate managers and Quality Assurance.
- E. Micro-Graphics
 - 1. Update Vital Records file.

NOTE: On programs involving two or more locations, ensure that vital records files are updated at the affected sites.

- 2. Return master documentation to Records.
- F. Product Test
 - 1. Review the EN/EO package in accordance with department Procedure.
 - 2. Resolve any testability problems and sign EN/EO approval.
- G. Production Control
 - Implement the EN/EO in accordance with Production Control procedures.

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Issue the necessary documentation and forward the EN/EO and needed paperwork to Manufacturing Engineering for incorporation with open floor orders.

Manufacturing Engineering

- Review and reconcile EO quantity outstanding to EO Rule prior to sign-off.
- Upon receipt of the Production Order, evaluate the EN/EO in accordance with department procedures.
- Incorporate the EN/EO with specific open floor orders in accordance with the Operating Procedure covering Floor Revisions to Manufacturing Orders.

Quality Assurance

Review EN/EO package for reproducibility/legibility to ensure acceptable microfilm quality. Reject illegible document packages and coordinate them with Micro-Graphics, Records and Engineering.

*Release replaces all previous issues of OP 29-12 and obsoletes OPs 29-04, 29-25 and 29-34 by incorporation. OP 29-12A, Attachment A, covers Definitions - Attachment B, Covers stock Disposition Codes and Definitions . Attachment C covers Selected Item Codes.

* = Revision of issue dated 6/1/79.



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ATTACHMENT A

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DEFINITIONS

- 1. Engineering Notice (EN) A record and action by which documents, identified under the FSD Numbering Procedure, are released, as formal documentation to all affected areas. All EN documents will be released at a dash (-) level and letter assigned in alphabetical order for each succeeding revision.
- 2. Change The process of revising a document and, if applicable, giving an engineering disposition to facilitate manufacture, correct drawings, clarify information, incorporate Engineering Orders, improve product performance and reliability, update document requirements, or improve the design of an item.
- 3. Notice Only Change An Engineering Notice (EN) is originated to alter disposition or make other changes to a previous change notice. Processing for Notice Only Change is the same as a normal change, except that a document is not affected.
- 4. Engineering Order (EO) A system for processing changes or releases when it is prudent not to update documentation at the time of release because of cost or schedule considerations.
- 5. Document Official papers relied on as the basis, proof, or support of the design, procurement, manufacture, test and inspection of hardware and/or software items or services under a contract.
- 6. Class of Change There are two see below. For a more explicit definition of these classes, see ANA Bulletin 445, MIL-STD-480 or MIL-STD-481, as applicable.
 - a. Class I, Engineering Change Is any change which affects the contractually specified form, fit or function of the item. (Ref. MIL-STD-480)
 - b. Class II, Engineering Change Is any change which does not fall within the definition of a Class I Engineering Change.
- 7. Effectivity The specific contract end item (or range or items) identified by special numbers to which part numbers, engineering changes Form DD 250, waiver documents, etc. are addressed and/or incorporated. Effectivity is actually where the end result of the change action is intended to be used.

STAT OPERATING PROCEDURE 29-12A ATTACHMENT A Index: Page: 2 of 2 3/15/78 Issued: Break-In-Point (BIP) - The lowest serial numbered item that will contain the change prior to initial customer acceptance of that item. Instructions for establishing the BIP are specified in the Notes Section of the Engineering Notice/Engineering Order, as applicable. Authorized Signature List - A listing of personnel authorized to 9. approve a release, change notice or order. **STAT** Parts Identification and Usage System.

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Section: Engineering/Configuration Management

SUBJECT: HARDWARE CONFIGURATION CONTROL BOARD (HCCB)

Contact: Configuration Management

I PURPOSE

*Defines the responsibilities of a Hardware Configuration Control Board.

II DEFINITIONS

*A. Configuration Control Board (HCCB) - an administrative body established to evaluate and approve or disapprove proposed hardware design releases/changes.

Note: This procedure addresses hardware configuration control.

There are other configuration control activities known as:

- *Software Configuration Control Board, 31-04A (SCCB) which contolrs the release of software modules, and
- *Control Requirements Review Board (CRRB) which controls the preparation and processing of Engineering Change Proposals (ECP).
- B. Class I and II changes See MIL-STD-480 for basic definitions of Class I and Class II changes. For definitions on specific/individual programs see the applicable contractual requirements for any modification to MIL-STD-480 definitions.

III GENERAL

- *A. The HCCB will function on all hardware programs released for manufacturing or on any program contractually requiring an internal HCCB operation. OP's 29-12A and 29-20 define the release and change documentation used in this process.
- *B. Board membership shall normally be composed of representatives from the areas listed below. The applicable Program Office may authorize membership changes as appropriate. A representative may serve more than one area such as the Systems Engineering member representing Reliability/Maintainability. Representation from other areas will be requested by the chairman, as necessary, to support these activities, e.g. Contracts, Procurement, etc.

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- Configuration Management (Chairperson)
- 2. Manufacturing Engineering
- Production Control 3
- Engineering Design & Software Development Groups
- Quality Assurance
- Program Office 6.
- PC Boards and MIBS only) Circuit Packaging

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- Integrated Logistics Support
- 9. Cost Engineering
- Materials Engineering 10.
- 11. System Engineering
- 12. Operations Coordination



Each board member will have full authority and responsibility to commit their area concerning appropriate change action.

- The board Chairperson will schedule and call all meetings. Proposed changes for more than one program may be scheduled for review at a single meeting. Time and frequency of the meetings will be determined on the basis of urgency and proposed change
- *D. Changes shall be complete with required Engineering Management signatures and any supplementary information necessary to enable the board to properly evaluate the change and reach a decision. However, preliminary proposals may be presented to for evaluation and recommendation prior to expending the resources necessary to present a formal change package.
- No part of an approved change shall be subsequently revised in any manner without the approval and dated signature of HCCB Chairperson. Board members will be informed of all such changes.

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IV RESPONSIBILITIES

*A. HCCB Chairperson

- Schedule meetings as determined by the requirements of the specific Program.
- Evaluate each change to determine its proper classification (CLASS I or II), Program Office authority, configuration item effectivity and implementation disposition.
- 3. Responsible for approval/rejection/deferral of proposed change.

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- 4. Maintain a status record of all changes by Program, indicating action taken.
- Obtain customer concurrence of change documentation when required.
- *B. HCCB Member Responsibilities
 - 1. Attend CCB meetings on request of Chairperson.
 - Evaluate each release and change in sufficient detail to enable the member's sign-off to represent a commitment that the release/change is technically acceptable and can be implemented within the represented area's schedule and cost allocations.
 - Secure backup information, as necessary, concerning specific department requirements.
 - Follow-up specific department commitments associated with approved changes.
 - 5. The authorized Production Control change board member will review, approve or disapprove, and understand the impact of all proposed "K-Code" and "Make-From" changes resulting from a particular Engineering Change. This member will assure proper implementation of "K-Code" and "Make-From" changes within the division.

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*V. HARDWARE CONFIGURATION CONTROL BOARD CHECK LIST

This list is an aid in establishing the affects of an engineering change under HCCB consideration.

Description of Change Adequate Drawings/Parts Affected Justification Adequate Development Status Alternate Solutions Value Engineering Mandatory Responsive to Customer RFP Other FSD Programs Common Parts/Assembly Part Number Changes Other CEI's/CI's Affected Technical "Prior To" Approval Requirements Manufacturing Procurement Quality Logistics Facilities/Capital Equipment Tooling Tool Effectivity Retrofit Effectivity Delivery Schedule - CEI's/CI's K-Code Impact Make-From Impact SC/MWO/TCTO Pack and Ship Contract Provisions Human Factors

Basis for Cost Estimate Contract Specifications Eng/Log Critical Interface Documents System Specification GFP/GFE Trainers/Simulators Performance Weight Safety Reliability Qualification Service Life RFI/EMI Data/Publications Combat Effectiveness Training Maintenance Spares Computer Programs

Change Classification Programming Development Test Equipment

Est. Out-of-Service Time

Systems Analysis

AGE/SE

* = Revision this issue. Replaces issue dated 8/6/79.

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- Section: Programs/Contracts Management

Issued: 7/2/80

SUBJECT: SOFTWARE CHANGE CONTROL BOARD (SCCB)

Contact: Configuration Management

I PURPOSE

Defines the responsibilities of a Software Configuration Control Board (SCCB).

II DEFINITIONS

- A. Software Configuration Control Board (SCCB) a body representing diversified disciplines, established: (1) to evaluate and approve or disapprove proposed software related changes to programs or its associated documentation; (2) to approve or disapprove the movement of changed program modules from the development libraries to the controlled Test and Integration libraries; and to the master or delivery libraries; (3) to coordinate and approve system builds; and (4) to approve software deliveries. Traceability of changes and the authority for such changes shall be insured at all levels thus effecting configuration control.
- B. Class I and II changes see DoD-STD-480A for definitions of class changes. On specific programs, refer to the contractual requirements for any modification to the DoD-STD-480A definitions.

III GENERAL

- A. The SCCB will function on all programs with software applications. This includes operational computer programs, support computer programs, test software, test equipment software, and any software used for acceptance testing of manufactured equipment. The board will function on a standalone basis for "software-only" contractual basis, and will function in conjunction with the Hardware Configuration Control Board on projects having both types of products. On small projects the board function will remain the same with the membership of the board being reduced where one person can represent more than one functional area of concern.
- B. SCCB membership shall normally be composed of representatives from the areas listed below. The applicable Program Office will authorize membership changes as appropriate. Representatives from other areas may be requested by the board chairperson, as necessary, to support change activities.

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- *1. Configuration Management (Chairperson)
- *2. Systems Engineering/Integration (Product Test)
- *3. Software Development
- *4. Software Quality Assurance
- *5. Software Control/Software Integration & Test
- 6. Program Office
- 7. Integrated Logistics Support

Note: * = Required for a quorum.

A quorum must be present for approval of a Master library update, system builds and deliveries. Each member will have full authority and responsibility to commit his/her area to appropriate software change action. Customer representatives may be invited to the meeting as appropriate.

Any member required for a quorum, may stop any change by notifying the chairperson of his/her veto. Veto of any build must be removed by correcting the anamoly or by issuing a Program Office Directive from requiring the anamoly be disregarded with subsequent scheduling of problem disposition.

- C. Any member of the SCCB may call for a meeting by notifying the SCCB chairperson. The SCCB chairperson will schedule all SCCB meetings. Proposed software changes affecting more than one project (changes affecting end items controlled by two or more different SCCBs) may be scheduled as required at a single SCCB. Time and frequency of the regular meetings will be determined on the basis of urgency and proposed change volume of the specific program.
- D. Changes shall be complete with required Engineering/Software Management signatures and supporting information necessary to enable the SCCB to evaluate the change and reach a decision. Preliminary proposals may be presented to the board for evaluation prior to expending the resources necessary to present a formal change package.
- E. All software changes incorporated to a customer approved baseline (previous delivery) for the purpose of a customer witnessed test, a certification test, or delivery to a customer location shall be complete and approved by the customer before the test or delivery can be started.

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Prior to release by Records (Manufacturing/Engineering Records), no part of an approved software change, including documentation, shall be subsequently revised without approval and the dated signature of the SCCB chairperson. Board members will be informed of all such changes. All changes or initial releases shall be made by Engineering Notice (EN) or Engineering (EO) in accordance with the existing division procedures.

IV RESPONSIBILITIES

SCCB Chairperson A.

- Schedule SCCB meetings as determined by the requirements of the specific program.
- Evaluate each software change with the board to determine its proper classification (Class I or II), Program Office authority, configuration item effectivity and implementation disposition.
- Responsible for approval/rejection/deferral of proposed software changes.

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- Maintain a status record (by EN or EO) of all software changes by program/part or document number, and indicate action taken.
- Prepare and distribute the minutes after each meeting.
- Obtain customer concurrence of software change documentation when required.
- Insure part or document number control.
- Systems Engineering/Product Test Member ·
 - Evaluate each software release and change in sufficient detail to enable the member's sign-off to represent a commitment that the release/change is complete and technically acceptable, is supported by specification and/or procedure changes (either complete or in process) and is compatible with hardware systems available for testing.
 - Evaluate whether the software release/change is acceptable and within the represented area's schedule and cost allocations.

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- Secure back-up information as necessary concerning specific change requirements.
- Follow-up department commitments associated with approved or proposed software changes.
- 5. Insure hardware compatibility.
- C. Software Development Member
 - Evaluate each software release/change in sufficient detail to enable the member's sign-off to represent a commitment that the release/change is technically acceptable, is supported by documentation changes, is identified as to implementing customer approved Engineering Change Proposal (ECP) or a contract requirement, and is compatible with prior changes or modules which have been approved.
 - Assess the software release/change as acceptable and within the represented area's schedule and cost allocations.
 - Secure back-up information as necessary concerning specific. change requirements.
 - Follow-up department commitments associated with approved or proposed software changes.
- D. Software Quality Assurance Member

- Evaluate each release and change in sufficient detail to enable the member's sign-off to represent a commitment that the release/change is acceptable in regards to quality, and produced in an acceptable manner including all appropriate reviews and/or inspections.
- Assess whether the software release/change documentation is acceptable and conforms to the contractual quality and imposed standards requirements.
- Inspect and bond copies of software media which reflect documented changes or releases for deliveries and/or acceptance testing.
- Follow-up department commitments associated with approved software changes through delivery or customer acceptance.

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E. Program Office Representative

- Evaluate each software release and change in sufficient detail to enable the member's sign-off to represent a commitment that the release/change is authorized by an approved ECP, contract modification, or contractual requirement.
- Assess whether the software release/change is acceptable and within the represented program's schedule and cost guidelines or accept the cost overrun.
- Follow-up on cost allocations, Program Directives, and ECP submittals as required.
- Maintain customer interface for negotiations and requirements affecting software change considerations.

F. Software Test and Integration Member

- Evaluate each software release and change in sufficient detail to enable the member's sign-off to represent a commitment that the release/change is technically acceptable and can be tested by existing or in-process test procedures.
- Evaluate whether the software release/change is acceptable and within the represented area's schedule and cost allocations or assess the impact and notify the Program Office.
- Secure back-up information as necessary to support specific software change requests.
- Follow-up department commitments associated with approved or proposed software changes.

G. Software Control Member

- Evaluate each software release/change in sufficient detail to enable the member's sign-off to represent a commitment that the release/change is covered by enough information to support any software build requirements, is in sufficient detail to allow and support any required drawings or drawing changes for the EO/EN package, and will be compatible with the existing software library controls.
- Assess whether the software release/change is acceptable and within the represented area's schedule and cost allocations or assess impact and notify Program Office.

STAT OPERATING PROCEDURE Index: 31-04A Page: 6 of 6 Issued: 7/2/80 Secure supporting information as necessary concerning specific change package requirements and prepare the EO/EN package for approval by this board... Promptly follow-up department commitments associated with approved or proposed software changes. H. Integrated Logistics Support Member Evaluate each release and change in sufficient detail to enable the member's sign-off to represent a commitment that the release/change is technically acceptable, and is compatible with fleet maintenance and operational objectives. Evaluate whether the release/change is acceptable and within the represented area's schedule and cost allocations. Secure back-up information as necessary to support specific change requests. Follow-up department commitments associated with approved or proposed changes.

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locations.

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Engineering/Configuration Management Section:

TECHNICAL REVIEWS AND AUDITS SUBJECT:

Contact: Engineering/Configuration Management/Software Engineering

Ι **PURPOSE**

To define the objectives, tasks and responsibilities associated with conducting technical reviews and audits.

II APPLICABILITY

Covers technical reviews and audits required by contract--commonly called: Α.

System Requirements Review (SRR) Functional Configuration Audit (FCA)

System Design Review (SDR)

Physical Configuration Audit (PCA)

Preliminary Design Review (PDR)

Formal Qualification Review (FQR)

Critical Design Review (CDR)

internal design review requirement for cost, reliability, В. maintainability and manufacturability is separate and defined in OP 31-15, Cost, Reliability, Maintainability, and Manufactur-

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ability (CRMM) Design Reviews.

MIL-STD-1521A, Technical Reviews and Audits for Systems, Equipment and Computer Programs prescribes the audits and reviews stated in Section A. Portions of the standard may be selected as appropriate to the activity to be performed.

Software Standard D-P 3-07099 013, Technical Review Practice, shall STAT be applied to software review/audits.

III SCOPE - of audits and reviews vary with individual applications; therefore, it is required that the scope of these efforts be approved by the procuring agency/customer.

- PROCURING AGENCY/CUSTOMER IV
- Serve as chairperson. Α.
- Review and agree with review/audit minutes.
- Approve resolution of any action item required as a result of the activity.
- Formally acknowledge adequacy of the review/audit and satisfactory completion. C - 25

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RESPONSIBILITIES

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- A. Program Office
 - 1. Designate the co-chairperson of the activity.
 - Assess the readiness for conducting the review and the need for dry runs.
- B. Co-Chairperson
 - Coordinate time, place and agenda with the procuring agency/customer.
 - Designate the team members for full-time and stand-by participation.
 - 3. Conduct any required per-audit/review internal briefings to confirm responsibilities.
 - 4. Notify the participants of time and place of the activity, including the support required from each.
 - Coordinate the availability of all documentation required for performance of the activity and confirm who is responsible for providing it.
 - Prepare and distribute minutes and status reports internally, and to the Program Office for external distribution.
 - 7. Coordinate resolution/completion of any action items within and with the procuring agency/customer to ensure a satisfactory completion.

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- a. Establish (with the procuring agency) the form to be used for coordinating action items (see MIL-STD-1521A, Figure 2 for a suggested sample).
- b. Compile and distribute a summary of action items including, action to be taken, responsibility and related details.
- c. Provide action item status reports as required.
- VI TEAM MEMBERS
- A. Analyze agenda to confirm individual responsibilities.
- B. Be an active participant as appropriate.
- C. Support action item resolution as required.

Consolidates and replaces all previous issues of OPs 31-11, 31-12, and 31-13 at new at all other FSD locations.



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Section: Programs/Contracts Management

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SUBJECT:

SUBCONTRACTOR CONFIGURATION MANAGEMENT

Contact: Configuration Management

Ι **PURPOSE**

To define the method of evaluating prospective subcontractors for Configuration Management (CM) competency and cover the conditions which should be considered in implementing a Subcontractor CM program.

II CM SURVEY

- A CM Survey will be performed on prospective Build-To-Print subcontractors, and prospective subcontractors with partial or total design/development responsibility for the Configuration Item (CI).
- Surveys are conducted by CM or by someone designated by mutual agreement with the Program Office.
- The survey will utilize a CM check list Attachment I. The survey of a Build-To-Print subcontractor will address, primarily, the inhouse change control process, whereas the survey of a subcontractor with design/development responsibility will include the total CM process.
- If required, a survey report will be provided to the Program Office and will include a positive statement with regard to the acceptability of the surveyed subcontractor.

III CM IMPLEMENTATION

- A CM requirements document will be levied on the subcontractor and will include consideration of the following, as appropriate:
 - A statement of general CM relationship with or any associated contractors.

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- 2. Applicable documents.
- Configuration Identification requirements, including engineering 3. documentation, part numbering, nomenclature, nameplate, reference designator, serial number, and reference designator requirements.
- Configuration Control requirements, including methods of processing Class I changes, Class II changes, deviations, and waivers.

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STAT Index: 31-20 OPERATING PROCEDURE Page: 2 of 2 12/27/79 Issued: Subcontractor responsibility, relative to directed changes. 5. The control of Government and/or furnished material. STAT 6. Subcontractor obligations to support audits, reviews, and 7. general surveillance. Recognition of software and hardware, in regard to application 8. of CM requirements. CM accountability requirements, including the format and 9. content of required reports concerning Baseline Configuration, As Built Configuration and Retrofit status. General status reports. 10.

of the foregoing will be accomplished.

B. CM will surveil subcontractors as appropria

11.

B. CM will surveil subcontractors as appropriate to assure that the required CM disciplines are maintained. The degree of surveillance will depend primarily on the complexity of the CI, the degree of design responsibility and the observed performance of the subcontractor.

Submittal of a CM plan by the subcontractor outlining how all

- C. Subcontractor audits will be conducted as required to confirm that the CI design is current and contractually authorized. Audits will usually consist of:
 - A test baseline configuration audit to establish the CI configuration to be subjected to Functional Configuration Audit.
 - A Physical Configuration Audit (PCA) to establish the configuration baseline for production.
 - 3. An audit of each deliverable CI As-built record to assure that the configuration is compatible with the authorized design configuration.
 - Configuration Control requirements, including methods of processing Class I changes, Class II changes, deviations, and waivers.

Replaces issue dated 04/28/76 at new at all other locations.

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| | | х | | | | Project Management | | 241000 | х | | | 0001 | | |
| | | | x | | | Project Management | | 341100 | x | | | 0001 | | |
| | | | k | | | Project Management | | 441100 | x | | | 0001 | | |
| | | | | Х | | Provide Project Managemen Level) | t (2d & 3d | 541100 | х | | | 0001 | | |
| | | | | | х | Provide Project Managemen Level) Including NDPO Int | t (2d & 3d erface - BOC | 641100 | х | | | 0001 | | |
| | | | | | х | Provide Project Managemen Level) Including NDPO Int | t (2d & 3d erface - IOC | 641101 | х | | | 0001 | | |
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| | | | Х | П | T | Project Control | | 341200 | x | \mathbf{T} | | 0001 | | |
| | | | X | | | Project Control | • | 441200 | x | | | 0001 | | |
| | | | | x | l | Project Control | | 541200 | x | l | $\ \ $ | 0001 | | |
| ļ | | | | | X | Monitor, Control and Repor Status - BOC | t Schedule | 641200 | x | | | 0001 | | |
| | | | | $\ $ | х | Monitor, Control and Repor Status - IOC | t Schedule | 641201 | х | | | 0001 | · | |
| | | | | | x | Monitor, Control and Repor Status - FOC | t Schedule | 641202 | х | | | 0001 | | |
| | | | | | × | Monitor, Control and Repor - BOC | t Cost Status | 641203 | X | | | 0001 | | |
| | | | | П | X | Monitor, Control and Repor | | 641204 | X | П | ı | 0001 | | |
| | | | | | X | Monitor, Control and Repor - FOC | t Cost Status | 641205 | Х | | | 0001 | | |
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| | T | П | Х | Τ | П | Quality Assurance | | 341300 | х | 1 | Γ | | 0001 | | |
| | - | | k | | | Quality Assurance | | 441300 | x | l | | | 0001 | | |
| | ١ | | | x | | Provide & Implement Quali | ty Assur. Plan | 541300 | х | ŀ | | | 0001 | : | |
| 1 | 1 | | | | х | Provide Quality Assurance | Plan - BOC | 641300 | x | | | | 0001 | | |
| | l | | | | x | Implement Software Qualit | y Assurance | 641301 | x | | | | 0001 | | |
| | ļ | | ۱ | | x | Implement Software Qualit | y Assurance | 641302 | x | | | | 0001 | | |
| | | | | | x | Implement Software Qualit | y Assurance | 641303 | x | l | | | 0001 | | |
| | | | | | х | Implement Hardware Qualit | y Assurance | 641304 | Х | | | | 0001 | | |
| | | | | Ì | X | Implement Hardware Qualit | y Assurance | 641305 | Х | | | | 0001 | • | |
| | 1 | | | | х | Implement Hardware Qualit | y Assurance | 641306 | X | | | | 0001 | | |
| | | | | | Х | Monitor Subcontractor Qua | lity Assurance | 641307 | Х | ŀ | | | 0001 | | |
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| | | | | | X | | - IOC | Subcontractor Subcontractor | | | 641308 641309 | X X | | | 0001 0001 | | |
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| | | П | х | П | T | Configuration Management | | 341400 | х | П | 1 | 0001 | | |
| | | | x | | | Configuration Management | | 441400 | х | | | 0001 | | |
| | | | | х | | Provide Config. Mgmt. of I Procedures and Documentat: & Contractor CM Plans | | 541400 | х | | | 0001 | | |
| | | | | | x | Prepare and Maintain CM Procedures and Documentat | | 641400 | X | | | 0001 | | |
| | | | | | x | Prepare Eng'g Change Notic and Other CM Related Docum | ces/Requests ments - BOC | 641401 | х | | | 0001 | | |
| | | | | | x | Prepare Eng'g Change Notic and Other CM Related Docum | | 641402 | x | | | 0001 | | |
| | | | ļ | | x | Prepare Eng'g Change Notic and Other CM Related Docum | | 641403 | х | | | 0001 | | |
| | 1 | | | Ш | x | Perform CM Audits - BOC | | 641404 | Х | | İ | 0001 | | |
| | | | | | х | Perform CM Audits - IOC | | 641405 | X | | | 0001 | | |
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| LINE NO. | | v [2] | | | | AKDOWN STRUCTURE ELEMENTS/ | TASKS | WBS CODE NO. | JES/DEV | MANUE | TEST | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | Ť | Ì | | Х | 1 | Provide Master Product & 1 Control | Document | 541401 | x | _ | | 0001 | | |
| | | | | | x | Provide Master Product & I Control - BOC | Document | 641407 | x | | | 0001 | | |
| | | | | | x | Provide Master Product & 1 Control - IOC | Document | 641408 | x | | | 0001 | | |
| | | | | | x | Prepare and Maintain Soft Description Document - BOO | | 641410 | х | | | .0001 | | |
| | | | | | x | Prepare and Maintain Soft Description Document - IOO | | 641411 | x | | | 0001 | | |
| | | | | | x | Prepare and Maintain Soft Description Document - FO | | 641412 | x | | | 0001 | | |
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| | H | 1 | X | ٦ | + | Security | | 341500 | х | | П | 0001 | | | |
| | Ш | | x | | | Security | | 441500 | x | | | 0001 | | | |
| | П | | | х | 1 | Security | | 541500 | х | | | 0001 | | | |
| | | | | | x | Prepare Project Security Security Procedures - BOC | Plan and | 641500 | X | | | 0001 | | | |
| | | l | | | x | Implement Security Proced | ures - BOC | 641501 | х | | | 0001 | | | |
| 1 | | | | | х | Implement Security Proced | ures - IOC | 641502 | x | | | 0001 | | | |
| | | | | | х | Implement Security Proced | ures - FOC | 641503 | x | | | 0001 | | | |
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| LINE NO. | | wo | | | EAKDOWN STRUCTURE ELEMENTS/TASKS | ON BOOD SAM SEYDEV MANUF | TEST | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | П | X | T | Ī | Status Reviews | 341600 X | П | 0001 | | |
| | | | ĸ | | Status Reviews | 441600 X | | 0001 | | |
| | | | х | | Status Reviews | 541600 X | | 0001 | | |
| 1 | | $\ \ $ | | x | Provide Monthly Status Reviews - BOC | 641600 X | | 0001 | | |
| | | | | x | Provide Monthly Status Reviews - IOC | 641601 X | | 0001 | | |
| İ | | $\ \ $ | | x | Provide Monthly Status Reviews - FOC | 641602 X | | 0001 | | |
| | | x | 1 | | Subcontractor Management | 341700 X | | 0001 | | |
| | | | x | | Subcontractor Management | 441700 X | | 0001 | | |
| | | | X | 2 | Provide Management, Control and Visibility to Cost & Schedule of Subcontractors | 541700 X | | 0001 | | |
| | | | | х | Provide Management, Control and Visibility to Cost & Schedule of | 641700 X | | 0001 | | |
| | | Visibility to Cost & Sche - BOC X Provide Management, Contr | | | Provide Management, Control and Visibility to Cost & Schedule of | 641701 X | | 0001 | | |
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| | | | | | х | Provide Management, Control Visibility to Cost & Schel - FOC | | 641702 | х | | | 0001 | | |
| | | | | | x | Provide Management, Controvisibility to Cost & Sche | | 641703 | х | | | 0001 | | |
| | | | | | х | Provide Management, Controvisibility to Cost & Sche | | 641704 | х | | | 0001 | | |
| | | | | | Х | Provide Management, Contr Visibility to Cost & Sche - FOC | | 641705 | х | | | 0001 | | |
| | | | | | х | Provide Management, Contr Visibility to Cost & Sche - BOC | | 641706 | Х | | | 0001 | | |
| | | | | | х | Provide Management, Contr Visibility to Cost & Sche - IOC | dule of | 641707 | Х | | | 0001 | | |
| | | | | | X | Provide Management, Contr Visibility to Cost & Sche - FOC | | 641708 | Х | | | 0001 | | - |
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| T | | | х | П | T | Document Publication and | Control | | 341800 | х | T | | 0001 | | | ٦ |
| | | | x | | | Document Publication and | Control | | 441800 | х | | ļ | 0001 | • | | 1 |
| | | | | x | 1 | Document Publication and | Control | | 541800 | х | | | 0001 | 1 | | |
| | | | | | X | Provide Publication, Main Control of all Project Do - BOC | | | 641800 | х | | | 0001 | | | |
| | | | | | х | Provide Publication, Main Control of all Project Do - IOC | | | 641801 | х | | | 0001 | | | |
| | | | | | x | Provide Publication, Main Control of all Project Do - FOC | | | 641802 | х | | | 0001 | | | |
| 1 | | | | | х | Prepare and Administer Do Management Plan - BOC | cument | | 641803 | х | | | 0001 | | | |
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| | | X | т | 1 | Ť | System Engineering | | 242000 | х | П | | 0002 | | |
| | | | X | | | System Engineering Manage | ment | 342100 | х | | | 0002 | 1 | |
| | | | ١ | <u>.</u> | | System Engineering Manage | ment | 442100 | х | П | | 0002 | | |
| | | | | х | | Provide Tech. Mgmt of Pro | ject | 542100 | х | | | 0002 | | |
| | | | | | х | Provide Tech. Mgmt of Pro | ject - BOC | 642100 | х | | | 0002 | | |
| | | | Ш | | X | Provide Tech. Mgmt of Pro | ject - IOC | 642101 | X. | | | 0002 | | |
| | | | | 1 | x | Provide Tech. Mgmt of Pro | ject - FOC | 642102 | X | | | 0002 | | |
| • | | | | х | | Provide/Enforce S/W-Opns- Stds | HW Interface | 542101 | x | | | 0002 | | 1 |
| | | | | | х | Provide/Enforce S/W-Opns- Stds - BOC | HW Interface | 642103 | х | | | 0002 | | |
| | | | | | х | Provide/Enforce S/W-Opns- Stds - IOC | -HW Interface | 642104 | х | | | 0002 | | - |
| | | | | | х | Provide/Enforce S/W-Opns- Stds - FOC | -HW Interface | 642105 | х | | | 0002 | | |
| | | | | X | | Prepare Segment Developme | ent Plan | 542102 | x | | | 0002 | | |
| | | | | | x | Prepare Segment Developme | ent Plan - BOC | 642106 | x | | | 0002 | | |
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| | | X | | П | Analysis | | 342200 | х | T | . 0002 | | |
| | | | x | | Analysis | | 442200 | х | | 0002 | | |
| | | | х | | Provide Requirements Analy Traceability | rsis & | 542200 | х | ŀ | 0002 | | |
| | | | | х | Provide Requirements Analy Traceability - BOC | rsis & | 642200 | х | | 0002 | | |
| | | | | x | Provide Requirements Analy Traceability - IOC | rsis & | 642201 | х | | 0002 | | |
| | | | | x | Provide Requirements Analy Traceability - FOC | rsis & | 642202 | х | | 0002 | | |
| ı | | | x | | Provide Performance Analys | sis | 542201 | x | | 0002 | | |
| | | | | Х | Provide Performance Analys (Perform Tech Performance - BOC | | 642203 | х | | 0002 | | |
| | | | | х | Provide Performance Analys (Perform Tech Performance - IOC | | 642204 | х | | 0002 | | |
| | | | | X | Provide Performance Analys (Perform Tech Performance - FOC | | 642205 | х | | 0002 | | |
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| ı | | Ī | | Х | Ť | Provide RMA Analysis | | 542202 | х | т | | | 0002 | | |
| | | | | | х | Provide RMA Analysis - BO | c | 642206 | х | | | | 0002 | | |
| | | | | | | Provide RMA Analysis - 10 | C | 642207 | x | | | | 0002 | | |
| ı | | | | | | Provide RMA Analysis - FO | С | 642208 | x | | | | 0002 | | |
| | | x | | | | Prepare Segment Design An | alysis Report | 542203 | х | | | | 0002 | | |
| l | | | | | | Prepare Segment Design An | alysis Report | 642209 | x | | | | 0002 | | |
| | | | | | х | - BOC Prepare Segment Design An | alysis Report | 642210 | х | | | | 0002 | | |
| | | | | | x | - IOC Prepare Segment Design An | alysis Report | 642211 | х | | | | 0002 | | |
| | | | $\ \ $ | X | | - FOC Accomplish Trade Studies | | 542204 | x | | | | 0002 | ! ! | |
| ı | | | | | х | Accomplish Trade Studies | - BOC | 642212 | x | 1 | | | 0002 | | |
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| | LINE NO. | 11: | wc | | | EAKDOWN STRUCTURE ELEMENTS | /TASKS | WBS CODE NO. | JES/DEV | MANUF | 3 | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| ı | | П | Ť | Ť | x | Accomplish Trade Studies | - FOC | 642214 | x | Ŧ | \dagger | 0002 | | <u> </u> |
| | | | | X | | Provide Support to Inters Interface Definition & Re Determination | | 542206 | х | | | 0002 | | |
| | | | | | x | Provide Support to Inters Interface Definition & Re Determination - BOC | egment quirements | 642218 | х | | | 0002 | | |
| | | | | | х | Provide Support to Inters Interface Definition & Re Determination - IOC | | 642219 | х | | | 0002 | | |
| | | | | | x | Provide Support to Inters Interface Definition & Re Determination - FOC | | 642220 | х | | | 0002 | | |
| İ | | | | þ | 4 | Prepare Eng. Technical No | tes | 542207 | x | İ | Ì | 0002 | | , |
| | | | | | Х | Prepare Eng. Technical No | tes - BOC | 642221 | Х | | | 0002 | | |
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| LINE NO. | WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6 X Prepare Eng. Technical Notes - 100 | | | | | | | WBS CODE NO. | DES/DEV | MANUF | TEST | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | $\dagger \dagger$ | П | Ť | П | 7 | Prepare Eng. Technical No | tes - IOC | 642222 | х | 1 | Γ | 0002 | | |
| | | П | | | x | Prepare Eng. Technical No | tes - FOC | 642223 | х | 1 | | 0002 | | |
| | | | | | | Operations Engineering & | Development | 342300 | x | | | 0002 | | |
| | | | | | | Operations Engineering & | Development | 442300 | x | | | 0002 | | |
| | Operations Engineering & X Develop Segment Operation Procedures & Specificat: | | | | | Develop Segment Operation Procedures & Specificatio Human Factors Eng BOC | | 542300 | х | | | 0002 | | |
| | | | | | х | Develop Segment Operation Procedures & Specificatio Human Factors Eng IOC | s Concepts, ons, Including | 642300 | х | | | 0002 | | |
| | | | | | X | Develop Segment Operation Procedures & Specificatio Human Factors Eng FOC | s Concepts, ons, Including | 642301 | х | | | 0002 | | |
| | | | | | x | Develop Segment Operation Procedures & Specification Human Factors Eng. | ns Concepts, ons, Including | 642302 | x | | | 0002 | | · |
| | | Н | | x | ı | Develop User Manuals | | 542301 | x | | | 0002 | | |
| | | $\ $ | | | х | Develop User Manuals - BO | ос | 642303 | x | | | 0002 | | |
| | | | | | x | Develop User Manuals - IO | oc . | 642304 | x | | | 0002 | | |
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| | NO. | 1 2 | | | | EAKDOWN STRUCTURE ELEMENTS/ | TASKS | WBS CODE NO. | DES/DEV | MANUF | TEST | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| Γ | | T | П | | х | Develop User Manuals - FO | C · | 642305 | х | | | 0002 | | |
| | - | | | х | | Develop Segment/Systems Op Manuals | perations | 542302 | х | | | 0002 | | |
| | | X Develop Segment/Systemanuals - BOC | | | | | perations | 642306 | х | | | 0002 | • | |
| | | X Develop Segment/Systems (Manuals - IOC | | | | | perations | 642307 | х | | | 0002 | | |
| | | | | | х | Develop Segment/Systems On Manuals - FOC | perations | 642308 | x | | | 0002 | | |
| | | | | x | | Conduct Productivity Enhan | ncement Studies | 542303 | х | | | 0002 | - | |
| | | ļ | | | x | Conduct Productivity Enhan | ncement Studies | 642309 | х | | | 0002 | | |
| | | | | | x | Conduct Productivity Enhan | ncement Studies | 642310 | х | | | 0002 | | |
| | | | Н | | X | Conduct Productivity Enhan | ncement Studies | 642311 | х | | | 0002 | | |
| | | | | Х | | Prepare O & M Plan | • | 542304 | х | | | 0002 | | |
| | | | | | Х | Prepare O & M Plan - BOC | | 642312 | Х | | | 0002 | | |
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| | | | X | П | Prepare Maintenance & Log | istics Plan | 542305 | х | т | | 0002 | | |
| | | | | x | Prepare Maintenance & Log - BOC | istics Plan | 642315 | x | | | 0002 | | |
| | | | ١ | x | Prepare Maintenance & Log | istics Plan | 642316 | Х | | | 0002 | | - |
| | | | | x | - IOC Prepare Maintenance & Log - FOC | istics Plan | 642317 | x | | | 0002 | | |
| | | Х | | П | Design | | 342400 | X | | | 0002 | | |
| | | | ζ | | Design | | 442400 | х | | | 0002 | | |
| | | | X | | Prepare Segment Design Sp Including Requirement All | | 542400 | х | | | 0002 | | |
| | | | | x | Prepare Segment Design Sp Including Requirement All | | 642400 | x | | | 0002 | | |
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| | LINE NO. | 1 | | | | | AKDOWN STRUCTURE ELEMENTS | TASKS | WBS CODE NO. | DES/DEV | MANUF | TEST | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | | 1 2 3 4 5 6 X Provide Data Base Specific X Provide Data Base Specific X Provide Eng. Specialties D | | | | | Provide Data Base Specific | cation | 542401 | х | | | 0002 | | |
| | | X Provide Data Base Specific X Provide Eng. Specialties D | | | | x | Provide Data Base Specific | cation - BOC | 642401 | х | | | 0002 | | |
| | | | | | | ١ | Provide Eng. Specialties | Design | 542402 | х | | | 0002 | | |
| | | | | | | | Provide Eng. Specialties 1 | Design - BOC | 642402 | х | | | 0002 | | |
| | | | | | | | Develop Interface Specs. | • | 542403 | х | | | 0002 | | |
| | | | | | | | Develop Interface Specs. | - BOC | 642405 | х | | | 0002 | | |
| , | | | | | | x | Develop Interface Specs. | - IOC | 642406 | х | | | 0002 | | |
| | | | | | | x | Develop Interface Specs. | - FOC | 642407 | х | | | 0002 | | |
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| LINE | NO. | 1 2 | | | | EAKDOWN STRUCTURE ELEMENTS/ | TASKS | WBS CODE NO. | DES/DEV | MANUF | TEST | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | | X Transition & Integration Support | | | | | Planning and | 342500 | х | П | | 0002 | | |
| | | | | | | Transition & Integration l Support | Planning and | 442500 | х | | | 0002 | | |
| | | X Develop Segment Trans. & Develop Segment Trans. & Develop Segment Trans. & | | | | | Integ. Plan | 542500 | х | | | 0002 | | |
| | | | | | | | Integ. Plan | 642500 | х | | | 0002 | | |
| | | X | | | | Develop Segment Trans. & 3 | Integ. Plan | 642501 | X | | | 0002 | | |
| | | | | | | Develop Segment Trans. & 1 - FOC | Integ. Plan | 642502 | X | | | 0002 | | |
| | | | | Х | | Support Facility Planning and Checkout | , Installation | 542501 | X | | | 0002 | | |
| | | | | | Х | Support Facility Planning and Checkout - BOC | , Installation | 642503 | х | | | 0002 | | |
| | | | | | х | Support Facility Planning and Checkout - IOC | , Installation | 642504 | х | | | 0002 | | - |
| | | | | | х | Support Facility Planning and Checkout - FOC | , Installation | 642505 | Х | | | 0002 | | |
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| LINE NO. | | | OR II4 | | | AKDOWN STRUCTURE ELEMENTS | TASKS | WBS CODE NO. | DES/DEV | MANUF | TEST | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | | | | Х | | Support Transition of New into the Operational Envi | | 542502 | Х | Т | | 0002 | | |
| | X Support Transition of Ne into the Operational Env | | | | x | Support Transition of New into the Operational Envis | | 642506 | x | | | 0002 | , | |
| | X Support Transition of New into the Operational Envi | | | | | Support Transition of New into the Operational Envi | Capability ronment - IOC | 642507 | Х | | | 0002 | | |
| | into the Operational Envi | | | | х | Support Transition of New into the Operational Envi | | 642508 | Х | | | 0002 | | |
| 1 | | | x | | ١ | Test Support | | 342600 | x | | | 0002 | | |
| 1 | | | k | | | Test Support | | 442600 | Х | | | 0002 | | |
| | | | | х | | Prepare Segment Verificat | ion Plan | 542600 | x | | | 0002 | | |
| | | | | | x | Prepare Segment Verificat | ion Plan - BOC | 642600 | Х | | | 0002 | | |
| | Ш | $ \ $ | | | Х | Prepare Segment Verificat | ion Plan - IOC | 642601 | х | | | 0002 | | |
| | | | | | Х | Prepare Segment Verificat | ion Plan - FOC | 642602 | х | | | 0002 | | |
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| LINE NO. | 1 2 | | | | AKDOWN STRUCTURE ELEMENTS | /TASKS | WBS CODE NO. | DES/DEV | MANUF | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | | Ĭ | Х | Ť | Prepare Segment Test Plan Procedures | and Prepare | 542601 | х | | 0002 | | |
| | | Ш | | х | Prepare Segment Test Plan | - BOC | 642603 | х | | 0002 | | |
| | | $\ \ $ | | х | Prepare Segment Test Plan | - IOC | 642604 | x | | 0002 | | |
| | | | | Х | Prepare Segment Test Plan | - FOC | 642605 | х | | 0002 | | |
| | | | Х | | Support the Execution and of Tests | Evaluation | 542602 | х | | 0002 | | |
| | | | | х | Support the Execution and of Tests - BOC | Evaluation | 642606 | х | | 0002 | | |
| | | | | х | Support the Execution and of Tests - IOC | Evaluation | 642607 | х | | 0002 | | |
| | | $\ \ $ | | х | Support the Execution and of Tests - FOC | Evaluation | 642608 | х | | 0002 | | |
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| | | П | T | | П | х | PDR | Technical | Review | - 100 | | | 642801 | х | Τ | | 0002 | | |
| | | | | | | х | PDR | Technical | Review | - FOC | | | 642802 | х | | | 0002 | | |
| | | | | | Х | | CDR | Technical | Review | | | | 542801 | х | | | 0002 | | |
| | | | ۱ | | | х | CDR | Technical | Review | – вос | | | 642803 | х | | | 0002 | | |
| | | | | | | х | CDR | Technical | Review | - 100 | | | 642804 | х | | | 0002 | | |
| | | | ١ | | | x | CDR | Technical | Review | - FOC | | | 642805 | х | 1 | | 0002 | | |
| ა ა | | | | 1 | х | | SDR | Technical | Review | | | | 542802 | x | | | 0002 | | |
| s | Ì | | Ì | | | x | SDR | Technical | Review | – вос | ; | | 642806 | х | 1 | | 0002 | | |
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| | LINE NO. | 1 2 | | | | AKDOWN STRUCTURE ELEMENTS | TASKS | WBS CODE NO. | DES/DEV | MANUF | | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| ſ | | Х | | Ħ | Ť | Software Development (BOC |) | 243000 | х | | Γ | 0003 | | |
| | | | Х | $\ \ $ | | Software Development Mana | gement - BOC | 343100 | x | | | 0003 | | |
| ١ | | | x | $\ $ | | Software Development Mana | gement - BOC | 443100 | х | l | | 0003 | | |
| | | X Manage All SW Devel. Activiti X Manage All SW Devel. Activiti | | | | Manage All SW Devel. Acti | vities | 543100 | x | | | 0003 | | · |
| | | X Provide & Enforce Program | | | | Manage All SW Devel. Acti | vities | 643001 | x | | | 0003 | | |
| | | X Provide & Enforce Program De Coding & Test Practices, Star Conventions | | | | | | 543101 | х | | | 0003 | | |
| | | | | | | NPIC Specific Software Tr (Univac System & COBOL) | aining | 643002 | х | | | 0003 | | |
| | | | | | x | Software Tool Development | | 643003 | x | | | 0003 | | |
| | | | | х | | Software Engineering | | 543102 | x | ١ | | 0003 | | |
| I | | | | $\ \ $ | x | Software Architecture | | 643004 | х | 1 | | 0003 | | |
| | | | | | х | Technical Support to Subc | ontract Mgmt. | 643005 | x | | | 0003 | | |
| | | X Segment PPS & C | | | | Segment PPS & C | | 643007 | х | ŀ | | 0003 | | |
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| LINE | NO. | 1 2 | | | | EAKDOWN STRUCTURE ELEMENTS/ | TASKS | WBS CODE NO. | DES/DEV | MANUF | ESI | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | | T | П | | Х | COBOL Code Conversion | | 643008 | Х | Ħ | T | 0003 | | |
| | | | | х | | Software Control | | 543103 | х | | | 0003 | | |
| | X Library Control X Software Builds & Releases | | | | | Library Control | | 643009 | х | | | 0003 | | |
| İ | X Software Builds & Releases | | | | | Software Builds & Releases | 3 | 643010 | х | | | 0003 | | |
| İ | X Provide Inputs to Segment Dev | | | | | Provide Inputs to Segment | Devel. Plan | 543104 | х | | | 0003 | | |
| | X Provide Inputs to Segment Dev | | | | | Provide Inputs to Segment | Devel. Plan | 643011 | х | | | 0003 | | |
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| | LINE NO. | 1 3 | | | | | EAKDOWN STRUCTURE ELEMENTS/ | TASKS | WBS CODE NO. | DES/DEV | MANUF | TEST | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| i | | П | T | T | X | Ť | Data Base Implementation | (BOC) | 543105 | х | | | 0003 | | |
| | | | l | | | Х | DMS 1100 Level 6 to Level | 8 Conversion | 643012 | х | | ł | 0003 | v : | |
| | | | | | | X | Data Base Conversion Design, Implementation, Vo | erification | 643014 | Х | | | 0003 | | |
| | | | | | | х | Data Base Package | | 643015 | х | | | 0003 | | |
| | | | | | | x | Data Base Support to Deve and Test & Verification | lopment | 643016 | X | | | 0003 | | |
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| | x | | | | BEPPRE CPCI: Pre-Exploitation - | вос | 343200 | х | | | 0003 | | | |
| l | | | × | | | Prelim. Design | | 44321A | Х | İ | | 0003 | | |
| l | | | | | | Prepare Prelim. Design Sp | ecs | 54321A | Х | | | 0003 | | |
| ł | | X Prepare Prelim. Design Page | | | | Requirements Analysis & A | llocation | 643017 | Х | | | 0003 | | |
| | X Prepare Prelim. Design and Conduct Internal D X Prepare Data Dictionar | | | | x | Prepare Prelim. Design Pa and Conduct Internal Desi | | 643018 | х | | | 0003 | | |
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| | | | | | x | Prepare Prelim. Design Parand Conduct Internal Design | | 643113 | Х | | | 0003 | | |
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| | | | | х | Support Test & Verification | no | 644050 | х | | | 0004 | | |
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| | | | | x | | ١ | Critical Design | | 44422D | х | | | 0004 | | |
| 1 | | | | | X | | Prepare Build-to Design Sp | pecs. | 54422D | х | ŀ | | 0004 | | |
| | | 1 | | | | X | Prepare Build-to Part II & Conduct Internal Design Ro | Specs. and eviews | 644057 | x | | | 0004 | | |
| İ | | | l | | | х | Prepare Prelim. Programme | r's Manual | 644058 | x | l | İ | 0004 | [| |
| | | | | | | x | Prepare CPCI Test Plan (F. Appendix for BMANIP | inal) | 644059 | | | х | 0004 | | |
| | | | | k | | | Development | | 44423D | x | | | 0004 | | |
| | | İ | ١ | | X | | Develop CPC's | | 54423D | x | | | 0004 | | |
| l | | | ۱ | l | | X, | Code & Unit Test | | 644060 | | x | | 0004 | | |
| 1 | | | | | | x | Integr. & Test to CPC Leve | el | 644061 | | | х | 0004 | | |
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| | П | x | | T | BSTATR CPCI: Statistics Reporti | ng – IOC | 344204 | х | | | 0004 | | |
| | | | x | | Critical Design | | 44422E | х | | ı | 0004 | | |
| | | | | ď | Prepare Build-to Design S | pecs. | 54422E | х | | | 0004 | | |
| | | | | X | Prepare Build-to Part II Conduct Internal Design R | | 644071 | х | | | 0004 | | |
| İ | | | | Х | Prepare Prelim. Programme | r's Manual | 644072 | Х | | ı | 0004 | | |
| | | | | X | Prepare CPCI Test Plan (F Appendix for BSTATR | inal) | 644073 | | | х | 0004 | | |
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| | | | l | x | Code & Unit Test | | 644074 | | х | Ì | 0004 | | |
| | | | | X | Integr. & Test to CPC Lev | el · | 644075 | | | x | 0004 | | |
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| | | | | x | Develop SW Test Procedures | S | 644077 | | > | ۲ | 0004 | | |
| | | $\ $ | | x | Support Test & Verification | on | 644078 | | þ | ۲ | 0004 | | |
| | | | | x | Prepare Test Reports | | 644079 | $\ \ $ | þ | ١ | 0004 | | |
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| | 7 | T | Ť | x | Ť | Documentation | | 44425E | х | 1 | T | 0004 | | |
| | | | | | K | Prepare As-built Document | ation | 54425E | х | | | 0004 | | |
| | | | | | x | CPCI Listings As-built | | 644082 | х | | | 0004 | - | |
| | | | | | x | Prepare Programmer's Manua | al (Final) | 644083 | х | | | 0004 | | |
| | İ | | | | x | Prepare As-built Part II : | Specs. | 644085 | x | | | 0004 | | |
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| | T | П | K | | | BMMGMT CPCI: Materials Managemen | nt - IOC | 344206 | х | | | 0004 | | |
| | 1 | | X | | | Critical Design | | 44422G | X | | | 0004 | | |
| 1 | X Prepare Build-to Design Specs. | | | | | | pecs. | 54422G | Х | | | 0004 | | |
| | | | | | х | Prepare Build-to Part II S Conduct Internal Design Re | | 644100 | х | | | 0004 | | |
| | | $\ \ $ | | | x | Prepare Prelim. Programme | r's Manual | 644101 | х | l | | 0004 | | |
| | | | | | x | Prepare CPCI Test Plan (F: Appendix for BMMGMT | inal) | 644102 | | | х | 0004 | | |
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| į | | | | х | ł | Develop CPC's | | 54423G | х | l | | 0004 | | |
| | | | | | x | Code & Unit Test | | 644103 | | x | | 0004 | | |
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| | | | | | x | l | Prepare As-built Document | ation | 54425G | x | | l | | 0004 | • | |
| | | | | | | x | CPCI Listings As-built | | 644110 | x | | | | 0004 | | |
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| | | П | х | | T | | BCCNTR CPCI: Command & Control - | - IOC | 344207 | X. | | | | 0004 | | |
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| | | | | | ĸ | | Prepare Build-to Design Sp | ecs. | 54422Н | х | | | | 0004 | | |
| | | | | |] | K | Prepare Build-to Part II S Conduct Internal Design Re | | 644114 | х | | | | 0004 | | |
| | | | | | | x | Prepare Prelim. Programmer | 's Manual | 644115 | х | | | | 0004 | | |
| | | | | | | x | Prepare CPCI Test Plan (Fi Appendix for BCCNTR | inal) | 644116 | | | х | | 0004 | | |
| | | | | x | | | Development | | 44423H | х | | | | 0004 | | |
| | | | | | x | l | Develop CPC's | | 54423H | x | | | | 0004 | | |
| | | | | | | x | Code & Unit Test | | 644117 | | х | | | 0004 | | |
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| | $\ $ | | П | х | Test at the CPC & CPCI Le | vels | 644119 | | | х | 0004 | | |
| 1 | $\ \ $ | | $\ $ | х | Develop SW Test Procedure | s | 644120 | | | х | 0004 | | |
| 1 | | 1 | $\ \ $ | X | Support Test & Verificati | on | 644121 | | | х | 0004 | | |
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| | | | П | | П | Documentation | | 44425H | х | \mathbf{T} | T | 0004 | | |
| | | | Ш | х | | Prepare As-built Documenta | ition | 54425Н | x | $\ \ $ | | 0004 | | |
| | | | | | х | Prepare Inputs to User, Op Data Base Administration M | perator and Manuals | 644123 | х | | | 0004 | | |
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| | | | $\ $ | | х | Test at the CPC & CPCI Le | vels | 644133 | |) | | 0004 | | |
| | | | $\ \ $ | | Х | Develop SW Test Procedure | s | 644134 | | 2 | | 0004 | | |
| | | | | | Х | Support Test & Verification | on | 644135 | | 3 | | 0004 | .• | |
| | | | | | Х | Prepare Test Reports | | 644136 | | > | | 0004 | • • | |
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| | П | | П | x | Prepare As-built Documenta | tion | 54425I | х | | | 0004 | | |
| | | | |) | Prepare Inputs to User, Op Data Base Administration M | erator and anuals | 644137 | X | | | 0004 | | |
| l | | | П | 2 | CPCI Listings As-built | | 644138 | x | | | 0004 | | |
| | | | П | , | Prepare Programmer's Manua | l (Final) | 644139 | x | | | 0004 | | |
| | | | | | Prepare Inputs to Training | Manuals | 644140 | х | | | 0004 | | |
| | | | | | Prepare As-built Part II S | pecs. | 644141 | х | | | 0004 | | |
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| NO | 1 2 | X X | х | X X | BAPPLS CPCI: Applications Support Critical Design Prepare Build-to Design Sp Prepare Build-to Part II S Conduct Internal Design Re Prepare Prelim. Programment Prepare CPCI Test Plan (Fi Appendix for BAPPLS Development Develop CPC's | pecs. Specs. and eviews c's Manual | 344209 44422J 54422J 644142 644143 644144 | x x x x x x x x | | X | | | |
| | | | | x | Code & Unit Test Integr. & Test to CPC Leve | el | 644145 644146 | 2 | х | Х | 0004 0004 | | |

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RFP NO. 82-B-015

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| | | | | 2 | | Prepare Build-to Design Spec | es. | 54422K | х | | | 0004 | | |
| | - | | | | x | Prepare Build-to Part II Spe Conduct Internal Design Revi | | 644156 | х | | | 0004 | | |
| | | | | ۱ | x | Prepare Prelim. Programmer's | s Manual | 644157 | х | | | 0004 | | |
| | | | | | X | Prepare CPCI Test Plan (Fina Appendix for BDMAPS | al) | 644158 | | | ĸ | 0004 | | |
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| | | | | | X | Code & Unit Test | | 644159 | | х | | 0004 | | |
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| LINE NO. | 1 2 | | Х | | BTTDEV CPCI: Test & Training - I Critical Design Prepare Build-to Design Sprepare Build-to Part II Sconduct Internal Design Reprepare Prelim. Programmer Prepare CPCI Test Plan (F: Appendix for BTTDEV Development Develop CPC's Code & Unit Test Integr. & Test to CPC Level | pecs. Specs. and eviews r's Manual inal) | | x x x x | X | K K | LINE | PARA. | |
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| | | | | | х | | Prepare As-built Documenta | tion | 54425M | х | | | 0004 | | |
| | | | | | | х | Prepare Inputs to User, Op Data Base Administration N | | 644193 | x | | | 0004 | | |
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| l | | | k | | | Critical Design | · | 44422N | Х | | | 0004 | | |
| | | | | Х | | Prepare Build-to Design Sp | | 54422N | Х | | | 0004 | | |
| | | | | | X | Prepare Build-to Part II S Conduct Internal Design Re | Specs. and eviews | 644198 | X | | | 0004 | | |
| | | | 1 | П | х | Prepare Prelim. Programmer | 's Manual | 644199 | Х | | ĺ | 0004 | • | |
| | | | | | | Prepare CPCI Test Plan (Fi Appendix for BEXSUP | inal) | 644200 | | | х | 0004 | | |
| ı | | | k | $\ $ | | Development | | 44423N | х | ľ | | 0004 | | |
| | | | | х | | Develop CPC's | | 54423N | х | | | 0004 | | |
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| | | | × | | | Documentation | | 44425N | х | П | T | 0004 | | |
| | | | $\ \ $ | х | | Prepare As-built Documenta | tion | 54425N | х | | | 0004 | | |
| | | | | | х | CPCI Listings As-built | | 644208 | х | | | 0004 | , | |
| İ | | | | | х | Prepare Programmer's Manua | ıl (Final) | 644209 | х | | | 0004 | | |
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| | | | $\ $ | x | | Manage All SW Devel. Activ | vities | 545100 | х | | | 0005 | | |
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| | | | | х | | Provide & Enforce Program Coding & Test Practices, Conventions | | 545101 | х | | | 0005 | | |
| . | | | | | X | Software Engineering | | 645004 | X | | | 0005 | | |
| | | | П | x | | Software Architecture | | 545102 | х | | | 0005 | | |
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| | | | | х | İ | Library Control | • | 545103 | x | | l | 0005 | | |
| | | | ı | | x | Software Builds & Releases | s | 645009 | x | | | 0005 | | |
| | | $\ \ $ | | х | | Provide Inputs to Segment | Devel. Plan | 545104 | х | | 1 | 0005 | | |
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| | | | х | | | BMMGMT CPCI: Materials Managemen | nt - FOC | 345200 | х | | | 0005 | | |
| ١ | | | | ď | П | Critical Design | | 44522A | х | | ı | 0005 | | |
| | | | |) | | Prepare Build-to Design S | pecs. | 54522A | х | | Ì | 0005 | | |
| | | | | | x | Prepare Build-to Part II : Conduct Internal Design R | | 645015 | х | | | 0005 | | |
| 1 | | | | ١ | x | Prepare Prelim. Programme | r's Manual | 645016 | х | | | 0005 | | |
| | | | | | x | Prepare CPCI Test Plan (F Appendix for BMMGMT | inal) | 645017 | | | ١ | 0005 | | |
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| | | | | | X | Code & Unit Test | | 645018 | | х | | 0005 | | |
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| İ | | | l | X | | Documentation | | 44525A | x | П | | 0005 | | |
| | | | | 3 | | Prepare As-built Documenta | tion | 54525A | X | $\ \ $ | | 0005 | , | |
| | | | | | х | Prepare Inputs to User, Op Data Base Administration M | erator and lanuals | 645024 | x | | | 0005 | | |
| | | | | | x | CPCI Listings As-built | | 645025 | х | | | 0005 | | |
| | | | | | X | Prepare Programmer's Manua | l (Final) | 645026 | х | | | 0005 | | |
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| | | | x | | Ť | BCCNTR CPCI: Command & Control | - FOC | 345201 | х | Γ | | | 0005 | | |
| 1 | | $\ \ $ | k | x | | Critical Design | | 44522B | Х | | | | 0005 | | |
| ١ | | | | | | Prepare Build-to Design S | pecs. | 54522B | х | | | | 0005 | | |
| | | | | | X | Prepare Build-to Part II Conduct Internal Design R | | 645029 | Х | | . | | 0005 | | |
| 1 | | | | | х | Prepare Prelim. Programme | r's Manual | 645030 | x | | | | 0005 | | |
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| | WORK BREAKDOWN STRUCTURE INDEX PROGRAM NE | | | | | | | PIC D/C SEGMENT | | | | | RFP NO. <u>82-B-015</u> CONTRACT NO | | DATE: 2-24-82 |
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| | T | X Test | | | Test | | 44524B | | | х | Γ | 0005 | | | |
| | | X Test | | | | Test | | 54424B | | | х | | 0005 | | |
| | | Ш | l | Ш | Х | Test at the CPC & CPCI Le | vels | 645034 | | | х | | 0005 | | |
| | | | | | X | Develop SW Test Procedure | s | 645035 | | | x | | 0005 | | |
| | | | | $\ \ $ | X | Support Test & Verification | on | 645036 | x | | | 0005 | | | |
| | | | | Ш | Х | Prepare Test Reports | | 645037 | | | x | | 0005 | | |
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| | | | | | x | Prepare As-built Document | Prepare As-built Documentation | | | х | | | 0005 | | • |
| | | | | | 2 | CPCI Listings As-built | | | 645039 | x | | | 0005 | | |
| | | | | | X | Prepare Programmer's Manu | ual (Final) | 2 | 645040 | х | | | 0005 | | |
| | | | | | 2 | Prepare As-built Part II | Specs. | | 645042 | х | | 1 | 0005 | | |
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| | | | | | х | Prepare As-built Part II | Specs. | | 645056 | х | | | 0005 | | |
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| | | x | | | | Hardware Development (BOC) | | 246000 | х | П | T | 0006 | | |
| | | | х | | | Hardware Development Manag | gement BOC | 346100 | x | | | 0006 | | |
| | | | × | | | Hardware Development Manag | gement BOC | 446100 | х | | | 0006 | | |
| | | | | x | | Manage All Hardware Develo | pment | 546100 | х | $\ \ $ | | 0006 | | |
| | | | | | х | Manage All Hardware Develo | pment | 646100 | х | | | 0006 | | |
| | | | | x | | Set and Maintain HW Design Test Practices, Standards | , Fab and & Conventions | 546101 | х | | | 0006 | | |
| | | | | х | | Provide Inputs to Segment | Devel. Plan | 546102 | х | | | 0006 | | |
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| | | | Х | T | П | CI: Basic IWS (BOC) | | 346200 | х | | Τ | 0006 | - | |
| | | | | | | Prelim. Design | | 446210 | х | | | 0006 | | |
| | | | | х | | Accomplish Prelim. CI Desi Analysis and Allocation | ign and Reqmts. | 546210 | х | | | 0006 | | |
| | | | | | x | Accomplish Prelim. CI Desi Analysis and Allocation | ign and Reqmts. | 646200 | х | | | 0006 | | |
| | | | | x | | Prepare CI Specifications Internal Design Reviews | and Conduct | 546211 | х | | | 0006 | | |
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RFP NO. 82-B-015

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| | l | | | X | | Accomplish Fab. of All Man | nufactured HW | 546230 | | x | | 0006 | | |
| | ļ | | | | х | Accomplish Fab. of All Man | nufactured HW | 646206 | | х | | 0006 | | |
| | | | | X | | Accomplish Modif. of Commo | ercial Products | 546231 | | x | | 0006 | | |
| | l | | | X | | Prepare As-built Component | t Specs. | 546232 | x | | | 0006 | | |
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| | | П | х | | Test All HW at Component a Prior to Intergration (inc | | 546241 | | | х | 0006 | | |
| | | П | x | | Support Test and Verificat | tion | 546242 | | | x | 0006 | | `[|
| | | k | | l | Documentation | | 446250 | х | | | 0006 | | |
| | | | х | | Prepare Equipment Operation Maintenance Manuals | on and | 546250 | Х | | | 0006 | | |
| | | | | x | Prepare Equipment Operation Maintenance Manuals | on and | 646253 | X | | | 0006 | | |
| | | | х | | Prepare Inputs to Segment, Operations and User Manual | | 546251 | X | | | 0006 | | |
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| | | П | 3 | ₹ | П | T | CI: Enhanced IWS (BOC) | | 346201 | х | П | | 0006 | | |
| | | | ١ | k | | ۱ | Prelim. Design | ē | 446211 | x | | | 0006 | | |
| | | | | | х | | Accomplish Prelim. CI Des: Analysis and Allocation | ign and Reqmts. | 546213 | х | | | 0006 | : | |
| | | | | | | х | Accomplish Prelim. CI Des Analysis and Allocation | ign and Reqmts. | 646217 | х | | | 0006 | | |
| | | | | | x | | Prepare CI Specifications Internal Design Reviews | and Conduct | 546214 | х | | | 0006 | | |
| ; | | | | | | x | Prepare CI Specifications Internal Design Reviews | and Conduct | 646218 | x | | | 0006 | | |
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| | ľ | - | 3 | > | + | Accomplish Prelim. Design of Product Modifications | f Commercial | 546215 | х | | 0006 | | |
| | | П | k | | | Critical Design | | 446221 | х | | 0006 | | |
| | | П | ۱ | 2 | | Accomplish Detailed Design | of CI | 546224 | х | | 0006 | | |
| | | | | > | | Prepare Build-to Component Conduct Internal Design Rev | | 546225 | х | | 0006 | | |
| | | | | | x | Prepare Build-to Component Conduct Internal Design Rev | | 646221 | х | | 0006 | | |
| | | | | 3 | | Accomplish Critical Design Product Modifications | of Commercial | 546226 | х | | 0006 | | |
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| | | П | T | x | T | Development | | | Х | П | | 0006 | | |
| | | | | П | x | Accomplish Fab. of All Man | ufactured HW | 546232 | | х | | 0006 | | |
| | | | | П | x | Accomplish Modif. of Comme | rcial Products | 546233 | | x | 1 | 0006 | | |
| | | | | | x | Prepare As-built Component | Specs. | 546234 | х | | | 0006 | | |
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| | | | k | | | Test | | 446241 | | 1 | х | 1 | 0006 | | |
| | | | X | X | | Test Prepare Hardware Test & Tr Test Procedures | EMPEST | 446241 546243 | | | x | | 0006 | | |
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| | | | T | | X | | Test All HW at Component a Prior to Intergration (inc | | 546244 | | | ` | 0006 | | |
| | | | | | X | ١ | Support Test and Verificat | ion | 546245 | | | ĸ | 0006 | | |
| | | | | | | x | Support Test and Verificat | ion | 646231 | | | ĸ | 0006 | | |
| | | | | | Documentation | | 446251 | X | | | 0006 | | | | |
| | | | | | Х | | Prepare Equipment Operation | on and | 546253 | х | | | 0006 | | |
| : | | | | | | x | Prepare Equipment Operation Maintenance Manuals | on and | 645232 | х | | | 0006 | | |
| | | | | | х | | Prepare Inputs to Segment, Operations and User Manual | | 546254 | х | | | 0006 | | |
| | | | | | | X | Prepare Inputs to Segment, Operations and User Manual | | 646233 | x | | | 0006 | | |
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| \vdash | \dashv | + | 3 X | + | ٦ | CI: Full Capacity (BOC) | | 346202 | x | | | 0006 | | |
| | 1 | | | ا, | | Prelim. Design | | 446212 | x | | | 0006 | | |
| | | | | , | 2 | Accomplish Prelim. CI Des Analysis and Allocation | ign and Reqmts. | 546216 | х | | | 0006 | | |
| | | X Prepare CI Specification Internal Design Reviews | | | | | and Conduct | 546217 | x | | | 0006 | | |
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| | | | l | x | | Accomplish Fab. of All Man | nufactured HW | 546236 | | х | | | 0006 | | |
| | | | | x | | Accomplish Mod. of Commerc | cial Products | 546237 | | x | | | 0006 | · | |
| | | | Ì | x | | Prepare As-built Component | t Specs. | 546238 | X | | l | | 0006 | | |
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| | | | | П | x | Test All HW at Component a Prior to Intergration (inc | | 546247 | | | х | 0006 | | |
| | | | | : | x | Support Test and Verificat | tion | 546248 | | | x | 0006 | | |
| ١ | | | | ĸ | | Documentation | | 446252 | Х | П | | 0006 | | |
| | | | | | x | Prepare Equipment Operation Maintenance Manuals | on and | 546256 | Х | | | 0006 | | |
| | | | | | x | Prepare Inputs to Segment, Operations and User Manua | | 546257 | х | | | 0006 | | |
| ; | | | | | x | Prepare Inputs to Training | g Manuals | 546258 | x | | | 0006 | | |
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| | | | x | | | Hardware Development Manag | gement | 347100 | х | | | 0007 | | |
| | | | | x | | Hardware Development Manag | gement | 447100 | х | | ŀ | 0007 | • | |
| | | | | 2 | 4 | Manage All Hardware Develo | opment | 547100 | х | | | 0007 | | |
| | | | | | x | Manage All Hardware Develo | opment | 647100 | X | | | 0007 | | |
| | | | | | 2 | Set and Maintain HW Design Test Practices, Standards | | 547101 | х | | | 0007 | | |
| 150 | | | | | ď | Provide Inputs to Segment | Devel. Plan | 547102 | х | | | 0007 | | |
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| | | | | K | Prepare Build-to Componen and Conduct Internal Desi | | 547221 | x | | | 0007 | | | |
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| | | | |) | | Prepare Build-to Componen and Conduct Internal Desi | | 547224 | х | | | 0007 | | |
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| | | | × | Ĭ | | Test | | 447241 | | 1 | х | 0007 | | |
| 157 | | | | X | | Prepare Hardware Test & Ti Test Procedures | EMPEST | 547243 | | | X | 0007 | | |
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| | | ١ | X | П | Test All HW at Component Prior to Integration (inc | | 547244 | | X | 0007 | | |
| | | | X | | Support Test and Verifica | ation | 547245 | | х | 0007 | | |
| | | | | х | Support Test and Verifica | ation | 647226 | | х | 0007 | | |
| | | | X | Ш | Documentation | | 447251 | х | | 0007 | | |
| | | | X | | Prepare Equipment Operat Maintenance Manuals | ion and | 547253 | X | | 0007 | | |
| | | | 3 | | Prepare Inputs to Segment Operations and User Manua | | 547254 | х | | 0007 | | |
| | | |) | | Prepare Inputs to Training | ng Manuals | 547255 | х | | 0007 | | |
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| | | | | x | | | Critical Design | | 447222 | x | | | 0007 | | | ١ |
| | | | | , | | | Accomplish Detailed Design | n of CI | 547226 | x | | | 0007 | | | Ì |
| | | | | ١ | , | x | Accomplish Detailed Design | | 647230 | х | | | 0007 | | | Ì |
| | | | | | ĸ | | Prepare Build-to Component and Conduct Internal Desi | t Specs. gn Reviews | 547227 | х | | | 0007 | | | |
| | | | | | | x | Prepare Build-to Component and Conduct Internal Desi | t Specs. gn Reviews | 647231 | x | | | 0007 | | | |
| 159 | | | | | x | | Accomplish Critical Desig Product Modifications | n of Commercial | 547228 | x | | | 0007 | | | |
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| ۱ | | | | | X | Accomplish Fab. of All Manu | factured HW | 547236 | | х | | | 0007 | | |
| | | | l | | x | Accomplish Modif. of Commer | cial Products | 547237 | | х | | | 0007 | | |
| | | | | | x | Prepare As-built Component | Specs. | 547238 | х | | | | 0007 | | |
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| 161 | | | | x | | Prepare Hardware Test & T. Test Procedures | EMPEST | 547246 | | | X | | 0007 | | |
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| | | | | Х | | Test All HW at Component Prior to Integration (inc | | | \neg | ĸ | 0007 | | | |
| | | | | x | | Support Test and Verifica | tion | 547248 | | ŀ | ĸ | 0007 | | |
| | | | | ١ | | Documentation | | 447252 | х | - | | 0007 | | |
| | | | | X | | Prepare Equipment Operation | on and | 547256 | х | | | 0007 | | |
| | | | | | х | Prepare Equipment Operation | on and | 647242 | х | | | 0007 | | |
| 163 | | | | X | | Prepare Inputs to Segment Operations and User Manua | /System ls | 547257 | х | | | 0007 | | |
| | | | | x | | Prepare Inputs to Trainin | g Manuals | 547258 | х | | | 0007 | | |
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| | | | x | | | Hardware Development Mana | gement | 348100 | x | | | 0008 | , | |
| | | | | ĸ | | Hardware Development Mana | gement | 448100 | x | | | 0008 | | |
| | | | | , | | Manage All Hardware Devel | opment | 548100 | x | | | 0008 | - | |
| | | | | | , | Manage All Hardware Devel | opment | 648100 | x | | | 0008 | | |
| | | | | | , | Set and Maintain HW Desig Test Practices, Standards | | 648101 | х | | | 0008 | | |
| 16.2 | | | | , | | Provide Inputs to Segment | Devel. Plan | 548102 | х | | | 0008 | | |
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| | | | | x | | Critical Design | • | 448220 | х | | Ì | 0008 | | |
| | | | | | x | Accomplish Detailed Design | of CI | 548220 | х | | | 0008 | | |
| | | | | | х | Prepare Build-to Component and Conduct Internal Desig | Specs. n Reviews | 548221 | х | | | 0008 | | |
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| | | | | | 4 | | Accomplish Modif. of Comme | ercial Products | 548231 | | X | | | 0008 | | | |
| | | | | | 4 | | Prepare As-built Component | Specs. | 548232 | x | | | | 0008 | | | |
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| | | П | | k | П | Test | | 448240 | П | x | | 0008 | | |
| 166 | | | | X | X | Test Prepare Hardware Test & TI Test Procedures | EMPEST | 448240 548240 | | x | 1 | 0008 | | |
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| LINE | S | 1 2 | | | | | AKDOWN STRUCTURE ELEMENTS | /TASKS | WBS CODE NO. | DES/DEV | MANUF | TEST | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | 7 | Ϊ | X | Ť | Ť | Τ | CI: Enhanced IWS - FOC | | 348201 | х | Т | П | 0008 | | |
| | | | | x | | | Critical Design | £ | 448221 | х | l | | 0008 | | |
| | | | | | x | l | Accomplish Detailed Desig | n of CI | 548223 | x | | li | 0008 | | |
| | | | | | х | | Prepare Build-to Componen and Conduct Internal Desi | | 548224 | x | | | 0008 | | |
| | | | | | х | | Accomplish Critical Desig Product Modifications | n of Commercial | 548225 | х | | | 0008 | | |
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| | LINE NO. | 1 2 | | | | | AKDOWN STRUCTURE ELEMENTS/ | TASKS | WBS CODE NO. | DES/DEV | MANIE | TEST | | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | | П | T | x | T | T | Development | | 448231 | х | 1 | Ī | Γ | 0008 | | |
| | | | | | x | | Accomplish Fab. of All Man | nufactured HW | 548233 | | k | | | 8000 | | |
| | | | | | x | | Accomplish Modif. of Comme | ercial Products | 548234 | | k | | | 8000 | | |
| | | | | | х | | Prepare As-built Component | t Specs. | 548235 | x | | l | | 0008 | · | |
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| | LINE NO. | 1 2 | | | | EAKDOWN STRUCTURE ELEMENTS/ | /TASKS | WBS CODE NO. | DES/DEV | MANUF | TEST | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER | |
| | | | | х | Ĭ | Test All HW at Component a | and CI Levels 1. TEMPEST) | 548244 | | \mathbf{T} | х | 0008 | | | |
| | | | | х | | Support Test and Verifica | tion | 548245 | | | х | 0008 | | ` | |
| | | | | | | Documentation | | 448251 | х | | | 0008 | | | l |
| | | | | х | | Prepare Equipment Operation | on and | 548253 | х | | | 0008 | | | |
| | | | | х | | Prepare Inputs to Segment Operations and User Manua | /System ls | 548254 | х | | | 0008 | | | |
| 171 | | | | х | | Prepare Inputs to Trainin | g Manuals | 548255 | х | | | 0008 | | | |
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| ſ | | | 2 | | | | CI: Full Capability IWS - | - FOC | 348202 | х | П | | 8000 | | |
| | | 1 | | x | | | Critical Design | | 448222 | х | | | 8000 | | |
| l | | | | | х | | Accomplish Detailed Design | n of CI | 548226 | х | | | 8000 | | |
| | | | | | х | | Prepare Build-to Component and Conduct Internal Desig | | 548227 | х | | | 0008 | | |
| | | | | | х | | Accomplish Critical Design Product Modifications | n of Commercial | 548228 | х | | | 0008 | | |
| | | | | | | x | Accomplish Critical Design Product Modifications | n of Commerical | 648232 | х | | | 0008 | | |
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| | LINE NO. | 1 2 | | | | REAKDOWN STRUCTURE ELEMENTS, | /TASKS | WBS CODE NO. | DES/DEV | MANUF | 1 53 1 | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | | П | T | x | T | Test | | 448242 | П | Х | | 0008 | | |
| 17/ | | | | П | X | Test Prepare Hardware Test & T. Test Procedures | EMPEST | 448242 548246 | | X | | 0008 | | |
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| | İ | | 7 | Х | 1 | Test All HW at Component Prior to Integration (inc | and CI Levels | 548247 | ľ | X | | 0008 | | |
| | | | | х | | Support Test and Verifica | ition | 548248 | | x | | 0008 | | İ |
| | | | X | | l | Documentation | | 448252 | Х | | | 0008 | | |
| | | | | Х | | Prepare Equipment Operati Maintenance Manuals | on and | 548256 | х | | | 0008 | | |
| | | | | х | | Prepare Inputs to Segment Operations and User Manua | | 548257 | х | | | 0008 | | |
| | | | l | х | | Prepare Inputs to Trainin | ig Manuals | 548258 | x | | | 0008 | | |
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| | LINE NO. | | | | | | | AKDOWN STRUCTURE ELEMENTS | TASKS | WBS CODE NO. | DES/DEV | MANUF | TEST | 2 | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| 176 | NO. | | X | | 4 X | | | Automated Data Processing (ADPE) Hardware and Softw Procurement Management Management Manage All ADPE Procureme - BOC Manage All ADPE Procureme - IOC Provide & Enforce All Pro Practices, Standards & Co - BOC | Equipment are | | x x x x | | TEST | | | | |
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| | LINE NO. | 1 2 | | | | EAKDOWN STRUCTURE ELEMENTS | /TASKS | WBS CODE NO. | DES/DEV | MANUF | TEST | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| ĺ | | | П | T | х | | | 649115 | х | r | | 0009 | | |
| | | | $\ \ $ | | X | Procure - IOC | | 649116 | x | | | 0009 | | |
| | | | x | | | Test | | 349200 | | | х | 0009 | | |
| | - | | | ١ | | Accomplish Acceptance Test Commercial ADPE | ting of | 449200 | | | Х | 0009 | | |
| | | | | X | | Acceptance Test Commercia | l CPCI's - BOC | 549200 | ŀ | | Х | 0009 | | |
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| INF | NO. | | w 2 3 | | | | EAKDOWN STRUCTURE ELEMENTS. | /TASKS | WBS CODE NO. | DES/DEV | MANUE | TEST | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER | NC |
| | | İ | | | Х | Ĭ | Acceptance Test Commercia | l CI's | 549201 | | _ | х | 0009 | | | |
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| | X G | FE | | 349300 | х | | 0009 | | |
| | X I | nstall & Checkout GFE | • | 449300 | x | | 0009 | | |
| | X | nstall & Checkout GFE | | 549300 | x | | 0009 | | |
| . | X I | nstall & Checkout GFE - | ВОС | 649300 | x | | 0009 | | |
| | X P | rovide GFE Maintenance | | 449301 | х | | 0009 | | |
| | X P | rovide GFE Maintenance | | 549301 | х | | 0009 | | |
| | X P | rovide GFE Maintenance - | ВОС | 649301 | x | | 0009 | | |
| | X P | rovide GFE Maintenance - | FOC | 649303 | х | | 0009 | | |
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| | X Test and Verification - BOC | 241000 | х | 0010 | | |
| | X Test & Verification Managem | ent 341010 | х | 0010 | | |
| | X Test & Verification Managem | ent 441010 | х | 0010 | | |
| | X Test & Verification Managem | ent 541010 | x | 0010 | | |
| | X Provide Mgm't. of Segment T Activities - BOC | est 641010 | х | 0010 | | |
| | X Prepare Test Plans - BOC | 641011 | x | 0010 | | |
| | X Prepare Test Procedures - E | 641012 | x | 0010 | | |
| | X Prepare Test Plan for GFE E | quipment 641013 | x | 0010 | | |
| | X | 341020 | x | 0010 | : | |
| | X Test Support | 441020 | x | 0010 | | |
| | X Test Support | 541020 | x | 0010 | | |
| | X Provide Necessary Software Integrated Testing - BOC | to Support 641020 | x | 0010 | | |
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| | | ľ | 2 3 | 413 | Х | | Provide Necessary Hardware Integrated Testing - BOC | e to Support | 641021 | | П | х | 0010 |) | | |
| | | | | | х | | Provide Necessary Data to Integrated Testing - BOC | Support | 641022 | | | x | 0010 |) | | |
| | | | х | | | | Integration Test | | 341030 | | | х | 0010 |) | | |
| | | | | X | 1 | | Integration Test | | 441030 | | | x | 0010 |) | | |
| | | | | 2 | (| | Integration Test | | 541030 | | ĺ | x | 0010 |) | | |
| _ | | | | | х | | Accomplish Inter-CI Testin | ng - BOC | 641030 | | | х | 0010 |) | | |
| 182 | | $\ \ $ | | ۱ | X | | Accomplish Inter-CPCI Test | ing - BOC | 641031 | | | х | 0010 |) | | |
| | | | | | Х | | Accomplish Integrated CPC | [/CI Testing | 641032 | | | х | 0010 |) | | |
| | | | | | Х | | Provide Integration Test F | Reports - BOC | 641033 | | | х | 0010 |) | | |
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| | | 1 2 3 4 5 X | Factory Preship Test | | 341040 | | х | T | 0010 | | | |
| | | l k | Factory Preship Test | | 441040 | | x | | 0010 | , | | |
| | | $\ \cdot \ _{\mathbf{x}}$ | Factory Preship Test | | 541040 | | x | | 0010 | | | ı |
| | | | X Perform Formal Preship Tes | st - BOC | 641040 | | х | | 0010 | | | 1 |
| | | | X Provide Preship Test Repor | | 641041 | | x | | 0010 | | | |
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| | | 2 | 4 | | | Test and Verification | - IOC | 241100 | П | > | | 0011 | | |
| | | | X | | l | Test & Verification Ma | nagement | 341110 | x | | | 0011 | | |
| | | | | х | | Test & Verification Ma | nagement | 441110 | х | | | 0011 | | |
| ١ | | | | | x | Test & Verification Ma | nagement | 541110 | x | | | 0011 | | |
| | | | | | 1 | Provide Mgm't. of Segm Activities - IOC | ent Test | 641110 | х | | | 0011 | | |
| ١ | | | | |) | Prepare Test Plans - I | ос | 641111 | | X | | 0011 | | |
| 10/ | | | | | 2 | Prepare Test Procedure | s - IOC | 641112 | | X | : | 0011 | | |
| | | | | | 2 | Prepare Test Plan for | GFE Equipment | 641113 | | × | : | 0011 | | |
| İ | | | X | | İ | Test Support | | 341120 | Ιİ | þ | ۱ | 0011 | | |
| 1 | | | | х | 1 | Test Support | | 441120 | | X | | 0011 | | |
| 1 | | | | | ĸ | Test Support | · | 541120 | | X | | 0011 | · | |
| | | | | | 3 | Provide Necessary Soft Integrated Testing - I | ware to Support | 641120 | | X | | 0011 | | |
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| | | | | | | Х | Provide Necessary Hardware Integrated Testing - IOC | to Support | 641121 | | | х | 0011 | | |
| | | | | | | x | Provide Necessary Data to Integrated Testing - IOC | Support | 641122 | | | х | 0011 | | |
| | | | | x | | | Integration Test | | 341130 | | | x | 0011 | | |
| | | $\ \ $ | l | ĸ | | | Integration Test | | 441130 | | | x | 0011 | | |
| | | $\ $ | 1 | | x | ۱ | Integration Test | | 541130 | | | x | 0011 | | |
| | | | | | | х | Accomplish Inter-CI Testin | ng - IOC | 641130 | | | х | 0011 | , | |
| 185 | | | | | | x | Accomplish Inter-CPCI Test | ting - IOC | 641131 | | | х | 0011 | | |
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| | | $\ \ $ | | | | x | Provide Integration Test | Reports - IOC | 641133 | l | | Х | 0011 | | |
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| | $\ \ $ | , | | | | Site Segment Test - FOC | | 341540 | | | х | - | 0015 | , | | 1 |
| | | | x | | | Site Segment Test | | 441540 | | | x | | 0015 | | | ı |
| | | | П | X | ١ | Site Segment Test | | 541540 | | | x | | 0015 | : | | |
| | | | | | x | Perform Formal Site Segme | nt Test | 641540 | | | х | | 0015 | | | l |
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| | LINE | IN E | NO WO | WOR | WORK E | WORK BRE X X X X X X X | Installation & Checkout Installation & Checkout Installation & Checkout X Installation & Checkout X Prepare Segment Shipping X Prepare Segment Installat X Provide for Shipment, Instand Checkout of All Segment X Accomplish Segment Integration to Operational X Site Segment Test X Site Segment Test X Site Segment Test | WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 123456 Installation & Checkout - FOC Installation & Checkout X Prepare Segment Shipping Plan X Prepare Segment Installation Plan X Provide for Shipment, Installation and Checkout of All Segment Items X Accomplish Segment Integration and Transition to Operational Status Site Segment Test - FOC Site Segment Test | WORK BREAKDOWN STRUCTURE INDEX WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS WBS CODE NO. I 2 3 4 5 6 Installation & Checkout - FOC 341530 X Installation & Checkout 541530 X Prepare Segment Shipping Plan 641531 X Provide for Shipment, Installation 641531 X Provide for Shipment, Installation and Checkout of All Segment Items X Accomplish Segment Integration and Transition to Operational Status Site Segment Test - FOC 341540 X Site Segment Test 541540 | WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS WBS CODE NO. I 2 3 4 5 6 I X Installation & Checkout - FOC 341530 X Installation & Checkout 541530 X X Prepare Segment Shipping Plan 641530 X X Prepare Segment Installation Plan 641531 X X Provide for Shipment, Installation and Checkout of All Segment Items X Accomplish Segment Integration and Transition to Operational Status Site Segment Test - FOC 341540 X Site Segment Test 541540 | WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS WBS CODE NO. I 2 3 4 5 6 I X Installation & Checkout - FOC 341530 X Installation & Checkout 541530 X X Prepare Segment Shipping Plan 641531 X X Prepare Segment Installation Plan 641531 X X Provide for Shipment, Installation and Checkout of All Segment Items X Accomplish Segment Integration and Transition to Operational Status X Site Segment Test - FOC 341540 X Site Segment Test 541540 | WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS WBS CODE NO. Installation & Checkout - FOC 341530 X Installation & Checkout 541530 X X Prepare Segment Shipping Plan 641531 X X Prepare Segment Installation Plan 641531 X X Provide for Shipment, Installation and Checkout of All Segment Items X Accomplish Segment Integration and Transition to Operational Status X Site Segment Test - FOC 341540 X X Site Segment Test 541540 X X Site Segment Test 541540 | WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS WBS CODE NO. GEVEN 12 34 56 Installation & Checkout - FOC 341530 X Installation & Checkout 541530 X X Prepare Segment Shipping Plan 641530 X X Prepare Segment Installation Plan 641531 X X Provide for Shipment, Installation 641531 X X Accomplish Segment Integration and Transition to Operational Status X Site Segment Test - FOC 341540 X X Site Segment Test 541540 X X Site Segment Test 541540 X | WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS WBS CODE NO. CONTRACT NOT NOT NOT NOT NOT NOT NOT NOT NOT NO | WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS | WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS WBS CODE NO. |

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| 201 | | | 3 | | - 1 | X Support Program Demos | | | X | | | 0015 | | |

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| | LINE NO. | 1 2 | | | | | AKDOWN STRUCTURE ELEMENTS/ | TASKS | WBS CODE NO. | DES/DEV | MANUF | TEST | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | | х | Т | П | | Ī | Development and Test Facil | ity | 241600 | | | х | 0016 | | |
| | | | X | | | | Devel. & Test Facility Man | nagement | 341610 | х | | | 0016 | | |
| | | | İ | k | | Ì | Devel. & Test Facility Mar | nagement | 441610 | х | | | 0016 | | |
| | | | l | | x | ١ | Devel. & Test Facility Mar | nagement | 541610 | х | | | 0016 | | |
| | | | | | | х | Provide Mgmnt., Planning & of Facilities Req'd. for Human Eng'g., Devel., Test of All Segment Software & | Analysis, and Integr. | 641610 | х | | | 0016 | | |
| 202 | | | | | | x | Provide Mgmnt., Planning & of Facilities Req'd. for Human Eng'g., Devel., Test of All Segment Software & | Analysis, and Integr. | 641611 | х | | | 0016 | | |
| | | | | | | X | Provide Mgmnt., Planning & of Facilities Req'd. for A Human Eng'g., Devel., Test of All Segment Software & | Analysis, t and Integr. | 641612 | х | | | 0016 | | |
| | | | 2 | | | | Devel. & Test Facility Ser | rvices | 341620 | | | х | 0016 | | |
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| LINE NO. | WORK BREAKDOWN STRUCTURE ELE | ENTS/TASKS | SBS ON BOOD SON TEST | CONTRACT SOW LINE PARA. ITEM NO. | SPECIFICATION NUMBER |
| | X Develop Necessary Te for Devel. & Test Fa | t Tools, etc. ility - BOC | 641622 X | 0016 | |
| | X Develop Necessary To for Devel. & Test Fa | t Tools, etc. ility - IOC | 641623 X | 0016 | |
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| | LINE NO. | 1 2 | | | | REAKDOWN STRUCTURE ELEMENTS/ | TASKS | WBS CODE NO. | SES/DEV | MANUF | TEST | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | | | х | П | Γ | Equipment | | 341630 | Х | Ħ | Ħ | 0016 | | |
| ١ | | | | x | | Equipment | | 441630 | X | | | 0016 | | |
| ۱ | | | | 2 | ď | Equipment | | 541630 | х | | | 0016 | | |
| | | | | | X | Provide ADPE Capable of Su the Devel. & Test Facility | apporting - BOC | 641630 | х | | | 0016 | | |
| | | | | | X | Provide ADPE Capable of Su the Devel. & Test Facility | apporting - IOC | 641631 | х | | | 0016 | | |
| | | | х | | | Operations & Maintenance | | 341640 | х | | | 0016 | | |
| | | | П | x | | Operations & Maintenance | | 441640 | х | | | 0016 | | |
| | | | П | 2 | | Operations & Maintenance | | 541640 | х | | | 0016 | | |
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| | LINE NO. | | w(| | | | AKDOWN STRUCTURE ELEMENTS/ | TASKS | WBS CODE NO. | DES/DEV | MANUF | TEST | | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | | П | Ť | | Т | 1 | Operate the Devel. & Test | Facility - BOC | 641640 | | Г | х | | 0016 | | |
| | | $\ \ $ | l | | 7 | | Operate the Devel. & Test | Facility - IOC | 641641 | | | х | | 0016 | | |
| | | | | |) | 4 | Maintain the Devel. & Test | t Facility - BOC | 641643 | | | x | | 0016 | , | |
| | | | ١ | | 2 | 4 | Maintain the Devel. & Test | t Facility - IOC | 641644 | | | х | | 0016 | | |
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| | LINE NO. | 1 2 | | | | | AKDOWN STRUCTURE ELEMENTS, | /TASKS | WBS CODE NO. | DES/DEV | MANUF | 1531 | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | | П | Х | | Ī | T | Subcontractor Devel. & Te | st Facilities | 341650 | П | Х | | 0016 | | |
| | | | | x | | | Subcontractor Devel. & Te | st Facilities | 441530 | $\ \ $ | X | | 0016 | | |
| | | | | 2 | K | | Provide Management, Plann of Facilities | ing and Control | 541650 | х | | | 0016 | | |
| | | | | | 2 | d | Provide Management, Plann of Facilities - BOC | ing and Control | 641650 | х | | | 0016 | | |
| | | | | | | | Provide Management, Plann of Facilities - IOC | ing and Control | 641651 | x | | | 0016 | | |
| 206 | | | | | 1 | < | Provide Management, Plann of Facilities - FOC | ing and Control | 641652 | x | | | 0016 | | |
| 7 | | | ١ | | x | | Services | | 541651 | x | | 1 | 0016 | | |
| | | | | | 1 | ď | Services - BOC | | 641653 | x | ١ | • | 0016 | | |
| | | Ш | | | 1 | K | Services - IOC | | 641654 | х | | | 0016 | | |
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| | LINE NO. | 112 | | | | EAKDOWN STRUCTURE ELEMENTS | /TASKS | WBS CODE NO. | DES/DEV | MANUF | TEST | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| ſ | | | | | x | Services - FOC | | 641655 | х | П | | 0006 | | |
| 1 | | | | 1 | | Equipment | | 541652 | х | | ١ | 0006 | | |
| ١ | | | | | х | Equipment - BOC | | 641656 | x | | | 0006 | | |
| İ | | | | | х | Equipment - IOC | | 641657 | Х | | | 0006 | | |
| | | | | | x | Equipment - FOC | | 641658 | Х | | | 0006 | · | |
| ١ | | | | | 4 | Operations & Maintenance | | 541653 | x | | | 0006 | | |
| | | | | | Х | Operate Subcontr. Devel. | & Test Facil. | 641659 | | | X | 0006 | | |
| 207 | | | | $\ $ | X | | & Test Facil. | 64165A | | | X | 0006 | | |
| 7 | | | | $\ \ $ | X | | & Test Facil. | 64165B | | | Х | 0006 | | |
| | | | | $\ \ $ | X | | & Test - BOC | 64165C | | | x | 0006 | | |
| | | | | | X | Maintain Subcontr. Devel. | & Test - IOC | 64165D | | | X | 0006 | | |
| | | | | | 7 | Maintain Subcontr. Devel. | & Test - FOC | 64165E | | | X | 0006 | | |
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| | | Х | | T | | Training | | 241700 | х | | T | 0017 | | |
| | | | Х | | | Training Management | • | 341710 | x | | | 0017 | | |
| | | | k | | | Training Management | | 441710 | х | $\ \ $ | | 0017 | | |
| | | | $\ \ $ | х | $\ $ | Training Management | , | 541710 | х | | | 0017 | | |
| | | | | | х | Manage All Training Activ | lties - BOC | 641710 | х | | - | 0017 | | |
| | | | | | х | Manage All Training Activ | lties - IOC | 641711 | х | | | 0017 | | |
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| 208 | | | | l | X | Provide Segment Training | Plan - BOC | 641713 | х | | | 0017 | | |
| ° | | | | | х | Provide Segment Training | Plan - IOC | 641714 | х | | | 0017 | | |
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| - T | Ϊ | X | | 3 | Ή | User Training | | 341720 | х | Ħ | | 0017 | | |
| | | ۱ | x | | | User Training | | 441720 | х | | | 0017 | | |
| | | | | x | | User Training | | 541720 | х | | | 0017 | | |
| | | | | | x | Accept Other Segment Input Prepare User Training Mate | | 641720 | х | | | 0017 | | |
| | | | | | x | Accept Other Segment Input Prepare User Training Mate | | 641721 | х | | | 0017 | | |
| | | | | | x | Accept Other Segment Input Prepare User Training Mate | | 641722 | х | | | 0017 | · | |
| | | | | | x | Train System Users and Gov Instructors - BOC | v't | 641723 | Х | | | 0017 | | |
| | | | | | x | Train System Users and Gov Instructors - IOC | v't | 641724 | х | | | 0017 | | |
| | | | | | x | Train System Users and Gov Instructors - FOC | v't | 641725 | x | | | 0017 | - | |
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| | LINE NO. | 1 2 | | | | REAKDOWN STRUCTURE ELEMENTS, | /TASKS | WBS CODE NO. | DES/DEV | MANUF | 2 | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | | П | Х | T | T | Operator Training | | 341730 | Х | П | Ī | 0017 | | |
| | | | | x | | Operator Training | | 441730 | х | | | 0017 | | |
| | | | | 1 | K | Operator Training | | 541730 | х | | | 0017 | | |
| | | | | | 2 | Prepare and Deliver Opera Materials - BOC | tor Training | 641730 | х | | | 0017 | | |
| | : | | | | , | Prepare and Deliver Opera Materials - IOC | tor Training | 641731 | х | | | 0017 | ! | |
| | | | | | ; | Prepare and Deliver Opera Materials - FOC | tor Training | 641732 | X | | | 0017 | | |
| 210 | | | | | ; | Train Segment and System Management Personnel - BO | | 641733 | х | | | 0017 | | |
| | | | | | 1 | Train Segment and System Management Personnel - IO | Operators and C | 641734 | х | | | 0017 | | |
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| | | | 7 | | Ť | Ť | Maintenance Training | | 341740 | Х | П | 十 | 0017 | | |
| | | | | x | | 1 | Maintenance Training | | 441740 | х | Ш | | 0017 | | |
| | | | | | x | | Maintenance Training | | 541740 | х | | ١ | 0017 | | |
| | | | | | | x | Prepare and Deliver Mainte Training Materials - BOC | enance | 641740 | х | | | 0017 | | |
| | | | | | | X | Prepare and Deliver Mainte Training Materials - IOC | enance | 641741 | X | | | 0017 | | |
| | | | | | | x | Prepare and Deliver Mainte Training Materials - FOC | enance | 641742 | Х | | | 0017 | | |
| 211 | | | | П | | х | Train All Segment Maintena | ance Personnel | 641743 | х | | | 0017 | | |
| | | $\ \ $ | | | | x | Train All Segment Maintena | ance Personnel | 641744 | х | | | 0017 | | |
| | | | | | | х | - IOC Train All Segment Maintena - FOC | ance Personnel | 641745 | х | | | 0017 | | , |
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| | LINE NO. | 11 | | | | BR 6 | EAKDOWN STRUCTURE ELEMENTS/TAS | KS | WBS CODE NO. | DES/DEV | MANUF | TEST | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | | П | х | | | | Operations & Maintenace (O&M) | | 241800 | х | П | T | 0018 | | |
| | | | | x | | П | 0 & M Management | | 341810 | х | | | 0018 | | |
| | _ | | | k | | | 0 & M Management | | 441810 | х | | | 0018 | ٠. | |
| | | | | İ | x | | Provide 0 & M Project Managem | ent | 541810 | х | | | 0018 | | - |
| | | | İ | ľ | | х | Provide 0 & M Project Managem | ent - BOC | 641810 | х | | | 0018 | | |
| | | $\ \ $ | İ | ١ | | х | Provide 0 & M Project Managem | ent - IOC | 641811 | х | | | 0018 | | |
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| 212 | | | | | x | | Provide 0 & M Project Control | | 541811 | х | | | 0018 | | |
| ٦ | | | | | | x | Provide 0 & M Project Control | - BOC | 641813 | х | ١ | | 0018 | | |
| | | | ١ | l | | x | Provide 0 & M Project Control | IOC | 641814 | x | ١ | | 0018 | | |
| | | | | l | | x | Provide 0 & M Project Control | - FOC | 641815 | х | | | 0018 | | |
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| | LINE NO. | ı | | | | | EAKDOWN STRUCTURE ELEMENTS | /TASKS | WBS CODE NO. | DES/DEV | MANUF | TEST | | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| Ì | | П | | х | | П | Software Maintenance | | | х | _ | | Γ | 0018 | | |
| | | $\ \ $ | 1 | X | | | Software Maintenance | | 441830 | x | | | | 0018 | | |
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| | , | WOR | K E | RE | AK | DOWN STRUCTURE INDEX | PROGRAM NF | PIC D/C SEGMENT | | | | RFP NO. 82-E | | DATE: 2-24-82 |
|-----|-------------|-----|-----|----|----|--|------------------|-----------------|---------|---------|------|--------------------------|---------------------|-------------------------|
| | LINE NO. | 1 2 | | | | REAKDOWN STRUCTURE ELEMENTS/ | TASKS | WBS CODE NO. | DES/DEV | MANUF | TEST | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | | | | | X | Maintain Commercial Softwa - FOC | re Products | 64183E | х | П | 1 | 0018 | | |
| | | | Х | ı | l | Hardware Maintenance | · | 341840 | х | | | 0018 | | |
| | | | | X | | Hardware Maintenance | | 441840 | х | $\ \ $ | | 0018 | · | |
| | | | | 2 | ١ | Problem Analysis, Error Co and Update Documentation - | orrection BOC | 541840 | Х | | | 0018 | | |
| | | | | | x | Problem Analysis, Error Co and Update Documentation - | | 641840 | X | | | 0018 | | |
| | | | | | х | Problem Analysis, Error Co and Update Documentation - | rrection FOC | 641841 | х | | | 0018 | | |
| 215 | | | | | х | Problem Analysis, Error Co and Update Documentation | rrection | 641842 | х | | | 0018 | | |
| | | | | X | | Maintain Commercial Hardwa | re | 541841 | х | | | 0018 | | |
| | | | Ш | l | Х | Maintain Commercial Hardwa | re - BOC | 641843 | х | | | 0018 | | . |
| 1 | 1 | | | | Х | Maintain Commercial Hardwa | re - IOC | 641844 | х | | | 0018 | , | |
| | | | | | Х | Maintain Commercial Hardwa | re – FOC | 641845 | x | | | 0018 | | |
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| | W | OR | KΒ | RE | Αŀ | (D | OWN STRUCTURE INDEX | PROGRAM NF | IC D/C SEGMENT | Ī | | | | RFP NO. <u>82-8-</u> CONTRACT N | | DATE: 2-24-82 |
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| LINE | o _N | | wc | | | | EAKDOWN STRUCTURE ELEMENT | S/TASKS | WBS CODE NO. | DES/DEV | MANUF | TEST | 1 | CONTRACT LINE ITEM | SOW PARA. NO. | SPECIFICATION NUMBER |
| | | T | x | П | T | 1 | Travel and Living | | 341870 | х | _ | П | \top | 0018 | | |
| İ | | 1 | | x | | | Travel and Living | r | 441870 | х | | | | 0018 | | |
| Ì | | ١ | | | x | ١ | Travel and Living | | 541870 | х | | | | 0018 | | |
| | | İ | | | | x | Provide Travel and Livin for 0 & M Personnel - BO | g Expenses C | 641870 | X | | | l | 0018 | | |
| | | | | | | x | Provide Travel and Livin for 0 & M Personnel - IO | g Expenses C | 641871 | х | | | | 0018 | | |
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UNCLASSIFIED

| Table | 1. | CDRL | Delivery | Schedule |
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| | | | | | | | CHEDULE | | | | | - | | | |
|------------|---|-----------------------------|------------------------|--------|--------------|-------------|-----------------------|-------------|--------------|-------------|-----------------------|------------------|-------------|-------------|-------------|
| | | GEN PRO | JECT M/S | | | вос | | ! | | IOC | | [| | FOC | |
| NO CDRL | | Was No | DATE | WBS NO | PREL | UPDATE/ | PINAL/ AS BUILT | i i | | | PINAL/ AS BUILT | 1 | | UPDATE/ | |
| | Contract WBS | 641100 | 5/30/62 | | | | | | 1 | | | | | ! | |
| | Pinaucial Plan | 641100 | 5/30/82 | | | | | | | | | | | ! ! | |
| | Master Schedule | 641100 | 5/30/82 | | . | , | | | | | | | ! ! | 1 | |
| 104 | l Develop- ment Plan | 642106 | 5/30/82 | | | 1 | | 1 1 | | ! | | | ! ! | | ! ! |
| | Security Pian | 641500 | 5/30/82 | |) | | | ! ! | ! ! | ! ! | | l | ! ! | | |
| 106 | ICM Plan | i 641400 | 5/30/82 | | ! ! | | | ! | ! | 1 | | | ! ! | ļ | ! |
| 107 | SON Update | 1 641100 | 5/30/82 | | 1 | 1 | ļ | 1 | 1 | 1 | ! | <u> </u> | ! | ! | ! ! |
| 103 | i QA rlan | 001100 | 5/30/82 | | ! | ! | | | ! | ! | ļ. | ! | ! ! | ! | ! |
| i | Hebotr Liuancia† Youtpia | 641203 | monthly | | ! ! ! | | | | ! ! ! | | 1 1 1 | | 1 1 1 | | ! ! ! |
| | Milestone Updates | 641200 | every six nonths | | | ! ! ! | | 1 1 1 | 1 | ! ! ! | | 1 1 1 | ! ! ! | ! ! ! | ! ! ! |
| 111 | Milestone Report | 16412v0 | weekiy | | | | : | ! ! | (- | | • | ! | | - | 1 |
| 1 | donthly Status Review | 64 1600 | l monthly | | | 1 | ! ! ! | | 1 1 1 | | | | 1 | | |
| l ! | Quarterly Prog and Status Report | 64 1200 | Each Yuarter | | | | ! ! ! ! | | | 1 | ! ! ! | I I I I | | 1 | |

NOTE 1: 10 days after SBH and each CDH as required by schedule.

| | | | | | | | CHEDULE | | | | | | | | |
|-------------|---------------------------------------|-------------|------------------|------------|-----------|---------------------|-----------------------|------------|-----------|----------------|-----------------------|------------------------|-----------------|---------|-------------------------|
| | • | GEN PRO | JECT N/S | | | вос | | | | 10C | | į | | POC | |
| CDR L No | I HAME | MRS NO | DATE | NBS NO | PHEL | UPDATE/ BUILD TO | PINAL/ AS BUILT | i | | | PINAL/ AS BUILT | i | PREL | UPDATE/ | PINAL AS BULLT |
| | Action Item List | 641200 | note 1 | | | | | | | | | | |) | - |
| | Seg Trans and Integ Plan | 1 1 1 | | ь42500 | 10/62 | 3/83 | 9/84 | 642501 | 10/82 | 11/83 | 9/84 | 64 2502 | 10/82 | 11/83 | 9/84 |
| | Seg Ops Concept | | | 642300 | Ргор | | 8/82 | 642301 | Prop | ! | 8/82 | 64 2 30 2 1 | Prop | | 8/82 |
| | Seg Design Specs | | | 642400 | | | 8/82 | 642400 | | ! ! | 8/82 | 642400 | | | 8/82 |
| | S/W Opns H/W Interface | | | 642103 | : | | 8/82 | 642104 | | ! ! ! | 8/82 | 64 2 10 5 | | | 8/82 |
| | Hqmt Trace Verif. Matrix | | | 642200 | \$rop | 8/82 | 12/82 | 642201 | Prop | 1 8/82 | 6/83 | 642202 | Prop | 8/82 | 10/8: |
| | Eng Tech Notes | ! | as tequired | 642221 | | | | 642222 | | ! ! | | 642223 | | | |
| | Seg Verif Plan | | | 642600 | | | 10/82 | 642601 | i ! | i | 10/82 | 642602 | | | 10/8 |
| | Seg Lesign Analy Rpt | | 1 | 642209 | Ъгор | 8/82 | 12/82 | 642210 | Ргор | 8/82 | 6/83 | 64 2211 | Prop | 8/82 | 10/8 |
| | OSM Plan Manual | | | 642312 | 10/82 | | 2/83 | 642313 | 10/82 | <u> </u> | 11/83 | 642314 | 10/82 | | 11/8 |
| | Maint and Log Plan | į | | 642315 | 9/82 | | 12/83 | 642316 | 9/82 | | 12/83 | 642317 | 9/82 | | 12/8: |
| 125 | DB Spec | į | | 642401 | 10/82 | į | 2/83 | 642401 | 10/82 | į | 11/83 | 64 240 1 | 10/82 | | 11/8 |
| | Ops/5W Int Spec | | | 622405 | 9/82 | | 1/83 | 622406 | 9/82 | i ! | 1/83 | 622407 | 9/82 | | 10/6 |
| | Ops/HW Int Spec | i | | 622405 | 9/82 | | 1/83 | 622406 | 9/82 | ! | 1/83 | 622407 | 9/82 | : | 10/8 |

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| Table | 1. | CDAL | Delivery | Schedule | (Cont.) |
|-------|----|------|----------|----------|---------|
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| | | | | | | | SCHEDULE | | | | | | | | |
|------------|------------------------|---------------|----------|--------------------------------|-----------------|----------------------|-----------------------|--------------------------------|-----------------|----------------|----------------------------|-------------------|------------------|----------------|-----------------------|
| | ! | GEN PRO | JECT B/S | | | вос | | i | | IOC | | <u> </u> | | POC | |
| CDRL NO | I I NA ris | I I WBS NO | DATE | I NRS NO | PREL | UPDATE/ BUILD TO | PINAL/ AS BUILT | i | | | PI BAL/ AS BUILT | i | PREL | IUPDATE/ | FIBAL/ AS BUILT |
| | HW/SW Int Spec | i | _ | 622405 | 9/82 | | 1/83 | 622406 | 9/82 | 1 | 1/83 | 622407 | 9/82 | | 10/83 |
| | Int Spec | | | 622405 | 9/82 | i ; i ; | 1/83 | 622406 | 9/82 | i ! ! | 1/83 | 622407 | i 19/62 | <u>i</u> | 12/85 1 |
| | Seg Test Plan | | | 642603 | 10/62 | | 2/83 | 642604 | 10/82 | ! ! | 111/83 | 642605 | i 10/82 | | 11/63 |
| 131 | Test Plan | | | 641011 | 1/83 | | 2/83 | 641111 | 1/83 | 1 | 11/83 | 641211 | 1/83 | ! | 111/83 |
| | Seg Prog P, S & C | | | 643007 | 9/82 | | 1/83 | 643007 | l 9/82 | ! ! ! | 9/83 | 643007 | 9/82 | | 9/83 |
| | Seg Ops Specs | i i | | 642300 | | | 10/82 | 642301 | | i i i | 10/82 | 642302 | | | 10/82 |
| | Sey inst Plan | | | 641331 | 10/82 | 2/83 | 10/83 | 641431 | 10/82 | 9/83 | 110/83 | 64 1531 | 10/82 | 1 19/83 | 10/83 |
| | User Banual | | | 642303 | 10/82 | 2/83 | 2/84 | 642304 | 10/82 | 2/83 | 3/85 | 642305 | 10/82 | 2/83 | 7/85 |
| | Operator Manual | | | 642306 | 10/82 | 2/83 | 2/84 | 642307 | 10/82 | 2/83 | 3/85 | 642308 | 10/82 | 2/83 | 7/85 |
| | DB Admin Kanual | | | | 10/82 | 2/83 | 2/84 | | 10/82 | 9/83 | 3/85 | | 10/82 | 9/83 | 17/85 |
| | Programmers Nanual | | | | 2/83 | | 5/84 | | 9/83 | | 5/85 | | 9/83 | , | 9/85 |
| | Facility IDES | | | 641320 | 10/62 | 2/83 | 3/84 | 641420 | 10/82 | 10/83 | 4/85 | 64 1520 | 10/82 | 10/83 | 8/85 |
| 140 | Trny Plan | | | 641713 | 1/83 | ļ | 2/83 | 641714 | 1/83 | | 11/83 | 64 1715 | 1/83 | <u> </u> | 11/83 |
| 43 | CI Spec | | į | 646201 | 10/82 | ' i | ļ | 646201 | 10/82 | | ; ; | i | | | 1 |
| | Component Spec | | i i | 646201 646204 646208 | | 2/83 | | 646201 647201 647205 | | 6/83 | 5/85 | ! | | | |

| | | | | | | S | CHEDULE | | | | | | | | |
|------------|------------------------------------|---------|----------------|----------------------------|----------------------|---------|-----------------------|------------------------------|----------|---------|-----------------------|-----------------------------------|----------|-------------|------------------------|
| | | GEN PRO | ECT N/S | | | POC | | | | 10C | | | | FOC | |
| HO CDRT | | WBS NO | DATE | WBS NO | | UPDATE/ | FINAL/ AS BUILT | i i | | UPDATE/ | PINAL/ AS BUILT | i i | | UPDATE/ | |
| | Trng Materials | | | 641720 641730 641740 | 3/83 3/83 3/83 | i i | 12/83 | 641721 641731 641741 | 10/83 | i | 1/85 | 64 1722 64 1732 64 1742 | 10/83 | ĺ | 5/85 5/85 5/85 |
| | Shipping Plan | | | 641330 | | | 11/84 | 641430 | | | 1/85 | 64 1530 | ! ! | | 4/85 |
| | Equip OE H Manual | | | 646253 | 1/84 | | 7/84 | 647212 | 3/84 | į | 7/85 | 648212 | 6/85 | | 11/85 |
| | QA Audit Report | | Audit + 15 | 641310 | | | | 641311 | i ! | i | į | 64 1312 | <u>.</u> | ! | i ! |
| 151 | DB Packages | | | 643015 | | | 5/84 | 644013 | | į | 5/85 | 645013 | | į | 9/85 |
| 152 | SW Desc Doc | | | 641410 | | | 2/84 | 641411 | į | į | 4/85 | 64 1412 | į | į | 7/85 |
| | Sys Test/ Demo Inp | | | 641350 | 11/83 | | 11/84 | 641450 | 1/85 | į | 8/85 | 64 1550 | 3/85 | ! ! | |
| | Seg Test Reports : | ! | | 641341 | | | 6/84 | 641441 | | İ | 6/85 | 641541 | ! ! | | 10/85 |
| | Tech Perf | ! ! | As Required | 642203 | | | | 642204 | <u>.</u> | į | | 64 2 20 5 | | į | į |
| | Accession List Manual | : | honthly | 641800 | | | | 641801 | i ! | į | | 64 1802 | į | i ! ! | į |

| | | | | | | 5 | CHEDULE | | | | | | | | |
|---------|--|----------|---------|----------------------------|-------|---------|---------|--------------------------------|-------|---------------------|------|-------------|-------------|---------|--------|
| | <u> </u> | GEN PROJ | ECT H/S | | | вос | | ! | | toc | | | | FOC | |
| CD&L | i i i i name | I WBS NO | DATE | I NBS NO | | UPDATE/ | | i | PREL | UPDATE/ BUILD TO | | 1 | PHEL | UPDATE/ | |
| | BPPRE | | | | | | | | | i | į | | | į | i |
| 131 | Test Plans | | | 643021 643024 | 10/82 | | | 643021 644017 | 10/82 | | 8/83 | | | | ! |
| | Hanual Bec _e s Brogram- | | | 643023 643034 | 11/62 | | | 644016 644026 | 8/83 | | 5/85 | | | | ! ! |
| | Part Specs | | ١. | 643018 | 8/82 | | | 643018 | 8/82 | | ! | | | İ | ļ |
| | Part I Specs | | | 643020 643022 643036 | | 12/82 | i | 643020 644015 644028 | 8/82 | 8/83 | 5/85 | | | | 1 |
| 145 | Data Dictionary | | | 643019 | 8/82 | 12/82 | 5/84 | 643019 | 8/82 | 8/83 | 5/85 | ; ; ! | | | |
| | CPCI Listings | | | 64303∠ | | | 7/84 | 644025 | | | 7/85 | | | İ | |
| | Bengnt | | | į | | | | į | į | i | į | į | į | i | į |
| 131 | Test Plans | | | 643041 643044 | 11/8∠ | | 1/83 | 1643041 1644031 | | 11/82 | 7/83 | <u>.</u> | į | İ | |
| | Program- mer*s Manual | | | 643043 643053 | 1/83 | | 5/84 | 644030 644040 | 7/83 | | 5/85 | | i ! ! | | į |
| 141 | Part I Specs | 1 | | 643038 | 8/82 | | | 643038 | 8/82 | ! | | | | į | ! ! |
| | Part I Specs | | | 643040 643042 643055 | i | 1/83 | 5/84 | 643040 644029 1644042 | | 7/83 | 5/85 | | | | |
| | Data Dictionary | | | 643039 | 8/82 | 11/83 | 5/84 | 643039 | 8/82 | 7/83 | 5/85 | 1 | | | |
| 150 | I CPC I | ! | | 1 1 643052 | : | | 7/84 | 1644039 | 1 | 1 | 7/85 | : | : | i | : |

| | | | | | | s | CHEDULE | | | | | | | | |
|----------------|-------------------------------|---------------|-------------|--------------------------------|----------------|-----------------|-----------------------|-------------------------------|----------------|---------------------|-----------------------|---|-------------|-------------|--------|
| | | GEN PRO | JECT M/S | | | ьос | | | | 10C | | | | POC | |
| NO CD8T | | I I WBS NO | DATE | MRS NO | PHEL | UPDATE/ | PINAL/ AS BUILT | i | BBR F | UPDATE/ BUILD TO | PINAL/ AS BUILT | i | | UPDATE/ | |
| | BEXSUP | ! | i | | | | | | | | | | | | |
| 123 | Test Plans | ! ! | ! ! ! | 643285 643288 | 11/82 | | | 643285 644200 | 11/82 | | 5/83 | | | | ! |
| | Hanual Program- | ! ! ! | ! ! ! | 643287 643298 | 12/82 | | | 644199 644209 | 5/83 | | 5/85 | : ! | | | ! ! |
| | Part I Specs | 1 | 1 | 643281 | 8/82 | | | 643281 | 8/82 | | ! | ! | | | ! ! |
| | Part I Specs | ! ! ! | | 643284 643286 643300 | | 12/82 | i | 643284 644198 644211 | 8/82 | 5/83 | 5/85 | | | | |
| 145 | Data Dictionary | 1 | ! ! | 643262 643262 | 8/82 | 12/82 | 5/84 | 643282 | 8/82 | 5/83 | 5/85 | | | ! ! | ! ! |
| l 150 | CPC1 Listings | ! ! | | 643296 | | | 7/84 | 644208 | | ! ! ! | 7/85 | ! ! | | | ! |
| ! ! | FERF7A | ! | ! | | | | | į | į | | į | į | i | į | |
| 131 | fest Plans | | | 643060 | 11/62 | | 12/82 | 643060 1544045 | 11/82 | | 6/83 | į | | į | |
| i | Program- Ber*E Hanual | ! ! ! | | 643062 643072 | 12/82 | | | 644044 644054 | 6/83 | | 5/85 | | ! ! | į | |
| | Part 1 Specs | 1 | | 643057 | 8/82 | ! ! ! | ! ! ! | 643057 | 8/82 | ! ! ! | ! ! | !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! | | ! ! ! | ! |
| | Part I Specs | | | 643059 643061 643074 | | 12/62 | i | 1643059 1644043 1644056 | | 6/83 | 5/85 | i ! | | i ! | |
| | Data Dictionary | | ! | 643058 | 8/82 | 12/82 | 5/84 | 643058 | 8/82 | 6/83 | 5/85 | | ! ! ! | | |
| | CPC1 Listings | | | 643071 | ! | : ! | 7/84 | 644053 | ! ! | ! ! | 7/85 | į | ! ! | <u>.</u> | |

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Table 1. CDRL Delivery Schedule (Cont.)

| | | | | | | | SCHEDULE | | | | | | | | |
|------------|-------------------------------|---------|----------|--------------------------------------|----------------|---------------------|-----------------------|-----------------------------------|-----------------|---------------------|--------------------------|--------------|--|--------------|-----------------------|
| | | GEN PRO | JECT M/S | 1 1 | | вос | | İ | | 10C | | ! | | POC | |
| NO CDRF | I I NAME | INBS NO | DATE | I NBS NO | PHEL | UPDATE/ BUILD TO | PINAL/ AS BUILT | i | PREL | UPDATE/ BUILD TO | PINAL/ AS BUILT | i | PREL | | PINAL/ AS BUILT |
| | BMANIE | į | | i | i | 1 | i | i | † | | | | | | - |
| 131 | Pest Plans | ! ! | | 643097 643100 | 11/62 | 1 1 | | 643097 644059 | 11/62 | ! | i i 15/83 | i | <u> </u> | | |
| | Program- Mer's Manual | | | 643099 643109 | 1/83 | | | 644058 644068 | 1 5/83 | ! | 5/85 | | ! ! | ! | ! ! |
| | Part Specs | | : ! | 643301 | 8/82 | | | 643301 | 8/82 | <u>.</u> | | | ! ! | | 1 |
| | Part II Specs | | | 643096 643098 643111 | | 1/83 | ı i | 643096 644057 644070 | | 5/83 | 5/85 | | | i ! | , |
| | Data Dictionary | | | 643095 | 8/82 | 1/83 | 5/84 | 643095 | 8/82 | 5/83 | 5/85 | | Î | i i i | • |
| | CPC1 Listings | | | 643108 | | | 7/84 | 644067 | i 1 | ! ! | 7/85 | | | | ı |
| į | <u>BSTATR</u> | | | | | | | | ! ! | ! ! | ! ! | | ! | | 1 |
| 131 | Test Plans | | | 643116 643119 | 12/82 | | | 643116 644073 | 12/82 | | 9/83 | | | | ı |
| i | Program- mer's Manual | | | 643118 643128 | 2/83 | | 5/84 | 644072 644083 | 9/83 | i i | 5/85 | | | | ı |
| | Specs | | . ! | 643113 | 9/82 | 1 | į | 643113 | 9/82 | | | | | | ı |
| | Part 11 Specs | | , i | 643115 643117 643130 | | 2/83 | 1 | 643115 644071 644085 | | 9/83 | 5/85 | | | | ı |
| | Data Dictionary | | | 643114 | 9/82 | 2/83 | 5/84 | 643114 | 9/82 | 9/83 | 5/85 | i | | | 1 |
| 150 | CPCI Listings | | | 643127 | | 1 1 | 7/84 | 644082 | | | 7/85 | İ | į | | 1 |

Table 1. CDRL Delivery Schedule (Cont.)

| | | | | | | | CHEDULE | | | | | · | | | |
|------------|------------------------------------|-----------|------------------|--------------------------------|---------------------|----------------|-----------------------|-------------------------------|----------------|---------------------|--------------------------|-------------------------------|----------|----------|------------|
| | | IGEN PROJ | LCT M/S | | | вос | | | | IOC | | <u>i</u> | | POC | |
| BO CD#F | | IRBS NO | DATE | i I I WBS NO | PREL | UPDATE/ | PINAL/ AS BUILT | i | BBR L | UPDATE/ BUILD TO | PINAL/ AS BUILT | i i | | UP DATE/ | |
| | BMMGDI | | | | | | | | | | į | i | | | į |
| 131 | Test Plans | 1 | | | | | | 644102 | 12/82 | į | 11/83 | 64 50 17 | 12/82 | | 11/83 |
| | Program- mer*s Manual | 1 | | | | | | 644101 644111 | | | | 64 50 16 64 5026 | | | 9/85 |
| | Part Specs | |] | 643150 | 9/82 | | | 643150 | 9/82 | | | 643150 | 9/82 | ! ! | ! |
| | Part I Specs | | | ! | | | | 644100 644113 | 9/82 | 11/83 | | 645015 645028 | | 11/83 | 9/85 |
| | Data Data | | | | | ! ! ! | | | 9/82 | 11/83 | 5/85 | į | 9/82 | 11/83 | 9/85 |
| | i CPCI Listings | | i 1 1 | į | | ! ! | ; | 644 1 10 | ! ! | i ! | 7/85 | 645025 | ! ! . | : | 11/85 |
| | BCCNTE | į . | | İ | İ | İ | i I | 1 | 1 | 1 | 1 | 1 | l | 1 | ! |
| 131 | Test Plans | 1 | i I | 643171 643174 | 1/83 | i I | 2/83 | 643171 644116 | 1/83 | 1 | 8/83 | 1643171 1645031 | | ! | 10/83 |
| i | Program- mer's Manual | 1 | i i i i | 643173 643183 | 2/83 | | | 644115 644125 | | | 5/85 | 1645030 1645040 1 | | | 9/85 |
| | Part Specs | 1 | 1 1 | 643168 | 10/82 | ! ! | ! | 643168 | 10/82 | 1 | - | 643168 | 10/82 | | - |
| | Part I Specs | | i | 643170 643172 643185 | i i | 2/63 | 5/84 | 1643170 1644114 1644127 | 10/82 | 8/83 | 5/85 | 1643170 1645029 1645042 | i i | 10/63 | 19/85 |
| 145 | Data Dictionary | - | 1 | 643169 | 10/82 | 2/83 | 5/84 | 643169 | 10/82 | 8/83 | 5/85 | 643169 | 10/82 | 10/83 | 9/85 |
| | CPC1 Listings | ! ! | ! ! | 643182 | | | 7/84 | 644 124 | İ | | 7/85 | 645039 | į | Ì | 11/85 ! |

| | | | | | | : | SCHEDULE | | | | | | | | |
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| | i | GEN PROJ | ECT M/5 | [| | вос | | <u> </u> | | 100 | | [| | roc | |
| CORL | | NBS NO | DATE | MRZ NO | | UPDATE/ | | i | | UPDATE/ | PINAL/ AS BUILT | i | PREL | UPDATE/ | |
| | BUMARS | | | | ! ! | | | | | | 1 | | | 1 | ļ |
| 131 | Test Plans | | | 643227 643230 | 11/82 | | | 643227. 644158 | 11/82 | 1 | 9/83 | ! ! | | | : |
| | Mannai mer _e s stodiam- | | | 643229 643239 | 12/82 | | | l 644157 644167 | 9/83 | 1 1 1 | 5/85 | ! ! ! | l, | ! ! ! | ! ! ! |
| | Part I Specs | | | 643224 | 9/82 | | | 643224 | 9/82 | | | | 6 | | ! ! |
| | Part 11 Specs | | | 643226 643228 643241 | 9/82 | 12/82 | i | 643226 644156 644169 | 9/82 | 9/83 | 5/85 | 1 1 1 | ! ! ! | ! ! ! | |
| | Data Dictionary | | | 643225 | 9/82 | 12/82 | 5/84 | 643225 | 9/82 | 9/83 | 5/85 | | ! ! | | ! ! |
| | CPC Listings | | | 643238 | | | 7/84 | 1044 166 1 | | | 7/85 | | | | 1 |
| | BTCDFA | | | | | | | i | • | | ļ | ! | į | 1 | - |
| 111 | Test Plans | | | 643246 643249 | 11/82 | | | 643246 644172 | | 1 | | 643246 645045 | | | 11/83 |
| | Program- mer's Hanual | i i | | 643248 643258 | 12/82 | | | 644171 644181 | 8/83 | • | | 645044 645054 | | | 9/85 |
| | Part I Specs | | | 643243 | 9/82 | | | 1 1643243 [| 9/82 | 1 | | 64 3 24 3 | 9/82 | | |
| | Part 11 Specs | | | 643245 643247 643260 | 9/82 | 12/82 | | 643245 644170 644183 | i | 8/83 | i | 643245 645043 645056 | i | 11/63 | |
| | Data Dictlonary | | | 643244 | 9/82 | 12/82 | 5/84 | 643244 | 9/82 | 8/83 | 5/85 | 1 643244 | 9/82 | 11/83 | 9/85 |
| | CPC Listings | | | 643257 | | | 7/84 | 644 180 | | ! | 7/85 | ! 645053 | | ! ! | 9/85 |

| | | | | | | | SCHEDULE | | | | | | | | |
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| | į | GEN PRO | JECT N/S | ! | | BOC | | ! | | 10C | | ! | | FOC | |
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| | BURKA | | i | | | | | i | | | i | | | į | |
| 131 | Test Plans | | ! ! | 643190 643192 | 12/82 | | | 643190 644130 | 12/82 | ! | 5/85 | | | | |
| | l Program- mer's Manual | | ! ! ! | 043201 | 1/83 | ! ! | | 644129 644139 | 5/83 ! | ! ! | 5/85 | | | | |
| | Part I Specs | | | 643187 | 9/82 | ! | ! ! | 1 643187 | 9/82 | 1. | ! ! | | | | |
| | Part I Specs | | | 643169 643191 643203 | i | 1/83 | 5/6 ₄ | 643189 1644128 1644141 | i | 5/83 | 5/85 | | | ! ! ! | |
| | Data Dictionary | | ! | 643188 | 9/82 | 1/83 | 5/84 | 643188 | 9/82 | 5/83 | 5/85 | | | | |
| | CPC1 Listings | | | 643200 | : | ! ! | 7/84 | 644138 | <u> </u> | <u> </u> | 7/85 | ! | | ! | |
| | BAPPLS | • | • | į | į | į | į | į | į | | į | | | į | <u> </u> |
| 131 | Test Plans | ! ! | | 643208 | | 1 | 2/83 | 1643208 1644144 | | | 7/83 | | | ! | ! ! ! |
| | Program- Mer's Manual | | | 643210 643220 | | | 5/84 | 644 143 644 153 | 7/83 | | 5/85 | | | ļ | |
| | Part Specs | ! | | 643205 | 10/82 | ! ! | ! ! | 1643205 | 10/82 | | ! ! | | | | ! ! |
| 142 | Part II Specs | 1 1 1 | | 643207 643209 643222 | i i | 2/83 | 5/84 | 643 <i>2</i> 07 644142 644155 | i | 7/83 | 5/85 | | | 1 |) |
| | Data Dictionary | | | 643206 | 10/82 | 2/83 | 5/84 | 1 1643206 1 | 10/82 | 7/83 | 5/85 | | | | |
| | CPC1 Listings | | !! | 643219 | ! | | 7/84 | 644152 | ! ! ! | ! | 7/85 | | | ! | ! ! ! |

Table 1. CDkl Delivery Schedule (Cont.)

| SCHEDULB | | | | | | | | | | | | | | | |
|----------|---|-----------------|------|--------------------------------|-------|----------|----------------------|-----------------------------------|-----------------|-----------|-----------------------|-----|-----------|---------|------------|
| I CORT | NAME | GEN PROJECT M/S | | нос | | | | 100 | | | | POC | | | |
| | | I*BS NO | DATE | WBS NO | | BUILD TO | BUILT AS BUILT | i | | | PINAL/ AS BUILT | i | | UPDATE/ | |
| | SAPPLS | | | ! | ! | | | | | | ! | | | | |
| 131 | Test Plans | | | 643265 643268 | 1/83 | | | 1 643265 644186 | 1/83 | | 6/83 | | | ! | |
| i i | Hannat met _a z scod cam- | i i i i | | 643267 643277 | 2/83 | | | 644185 644195 | 6/83 | | 5/85 | | | | |
| | Part Specs | 1 (1 (| | 643262 643262 | 10/82 | | | 643262 | 10/82 | ! ! | ! ! | | | ! ! | |
| | Part II Specs | | | 643264 643266 643279 | 10/82 | 2/83 | | 643264 644184 644197 | | 6/83 | 5/85 | | | i i | |
| 145 | bata Dictionary | i i | | 643263 | 10/82 | 2/83 | 5/84 | 643263 |]0/82 | 6/83 | 5/85 | | | ! ! | |
| | CPC1 Listings | ; | . 1 | 643276 643276 | | | 7/84 | 644194 | | | 7/85 | | |] | ! |

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