

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE R - CPAF	PAGE OF PAGES 1 of 2
2. AMENDMENT/MODIFICATION NO. P00061	3. EFFECTIVE DATE 29 SEP 2004	4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE	5. PROJECT NO. (if applicable) CODE FAG300
6. ISSUED BY AFFTC/PKDA DIRECTORATE OF CONTRACTING 5 SOUTH WOLFE AVE, BLDG 2800 EDWARDS AFB CA 93524-1185 JOHN ROBBINS 861-275-8472 john.robbins@edwards.af.mil		7. ADMINISTERED BY (if other than item 6) DIRECTORATE OF CONTRACTING 5 SOUTH WOLFE AVE, BLDG. 2800 EDWARDS AFB CA 93524-1185	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) TYBRIN CORPORATION 1030 TITAN COURT FORT WALTON BEACH FL 32547		(X)	9A. AMENDMENT OF SOLICITATION NO.
DISTRIBUTED SEP 29 2004			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. F04611-00-C-0001
			10B. DATED (SEE ITEM 13) 29 FEB 2000
CODE 1H996	FACILITY CODE	11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS	
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers: <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By correlating items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.			
12. ACCOUNTING AND APPROPRIATION DATA (if required) SEE SCHEDULE			
13. THIS ITEM APPLIES ONLY TO MODIFICATION OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.			
(X)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: () THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. ITEM 10A.		
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).		
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.232-22, "Limitation of Funds and FAR 52.243-2, "Changes - Cost Reimbursement."		
	D. OTHER (Specify type of modification and authority)		
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return 1 copies to the issuing office.			
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) SEE CONTINUATION SHEET(S).			
Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.			
15A. NAME AND TITLE OF SIGNER (Type or print) Joseph R. James, Contracts Manager		16A. NAME AND TITLE OF SIGNER (Type or print) JOHN ROBBINS Contracting Officer	
15B. CONTRACTOR/OFFEROR		16B. UNITED STATES OF AMERICA	
15C. DATE SIGNED 28 Sep 04		16C. DATE SIGNED SEP 29 2004	
<i>Joseph R. James</i> (Signature of person authorized to sign)		BY <i>John Robbins</i> (Signature of Contracting Officer)	

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE R - CPAF	PAGE OF PAGES 1 of 2
2. AMENDMENT/MODIFICATION NO. P00081		3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ.NO. SEE SCHEDULE		5. PROJECT NO. (If applicable)
6. ISSUED BY AFFTC/PKDA CODE		FA9300	7. ADMINISTERED BY (If other than Item 6)		CODE FA9300
DIRECTORATE OF CONTRACTING 5 SOUTH WOLFE AVE, BLDG 2800 EDWARDS AFB CA 93524-1185 JOHN ROBBINS 661-275-9472 john.robbins@edwards.af.mil			DIRECTORATE OF CONTRACTING 5 SOUTH WOLFE AVE. BLDG. 2800 EDWARDS AFB CA 93524-1185		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(X)	9A. AMENDMENT OF SOLICITATION NO.
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15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF SIGNER (Type or print)		
			JOHN ROBBINS Contracting Officer		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
_____ (Signature of person authorized to sign)			BY _____ (Signature of Contracting Officer)		

A. The purpose of this modification is to obligate incremental Fiscal Year 2004 funding for Task S2X2012, deobligate FY 2003 funding for task SOX2006, and to revise the Technical Requirements Document (TRD).

B. PART I SECTION B of the SCHEDULE is revised as outlined below.

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
100009	CLIN Change <i>Noun:</i> <i>ACRN:</i> <i>PR/MIPR:</i> F5TEVM00001000	Funding Info Only EL	 -\$156,442.58 -\$156,442.58
100044	CLIN Change <i>Noun:</i> <i>ACRN:</i> <i>PR/MIPR:</i> F1LMCA00047200	Funding Info Only FY	 +\$85,062.00 \$85,062.00

C. Part I, Section G of the Schedule is revised as outlined below.

ACRN	Appropriation/Lmt Subhead/Supplemental Accounting Data	Obligation Amount
EL	ACRN Change 57 33600 293 4712 696997 7M6120 59200 000000 503000 F03000 <i>New ACRN Amount:</i> \$711,594.42 <i>Funding breakdown:</i> On CLIN 100009: -\$156,442.58 <i>PR/MIPR:</i> F5TEVM00001000 -\$156,442.58	-\$156,442.58
Task: SOX2006	JON: 2474EM00	
FY	ACRN Change 57 43600 294 4712 696997 7D6600 59200 000000 503000 F03000 <i>New ACRN Amount:</i> \$1,653,945.29 <i>Funding breakdown:</i> On CLIN 100044: +\$85,062.00 <i>PR/MIPR:</i> F1LMCA00047200 \$85,062.00	+\$85,062.00
Task: S2X2012	JON: 2474EM00	

D. Part I, The Schedule, Section B, Paragraph II, A. 5352.232-01 "IMPLEMENTATION OF LIMITATION OF FUNDS (AFMC)(JUL 97) is revised as follows:

<u>FROM P00080</u>	<u>TO P00081</u>	<u>DECREASE</u>
\$93,189,396.08	\$93,118,015.50	-\$71,380.58

E. The TRD is replaced with the most recent version dated 20 September 2004 (see attached).

F. All other items remain unchanged.

**SYSTEMS ENGINEERING/
TECHNICAL ASSISTANCE
(SE/TA)
CONTRACT**

**TECHNICAL REQUIREMENTS
DOCUMENT**

20 September 2004

**Prepared by:
AFFTC/AX
195 East Popson
Edwards AFB, CA 93524**

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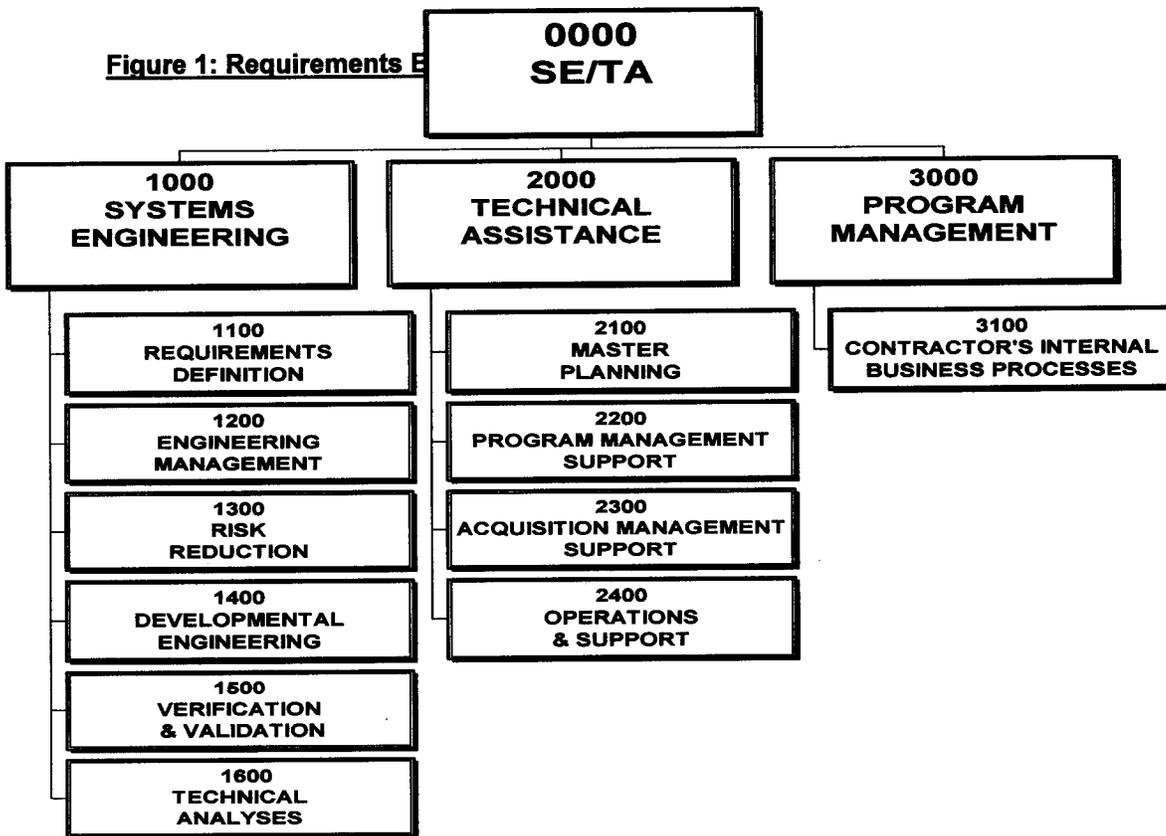
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INTRODUCTION

The Government requires systems engineering and technical assistance in support of the research, development, test and evaluation, training, and related support activities for the Air Force Flight Test Center (AFFTC), Edwards Air Force Base, California. This Technical Requirements Document (TRD) describes the requirements for the Systems Engineering/Technical Assistance (SE/TA) Contract. Requirements are functionally arranged according to the Requirements Breakdown Structure (RBS) shown in Figure 1. This functional arrangement of requirements does not suggest any Government or preferred contractor organizational structure. Three categories of requirements are described: Systems Engineering (RBS 1000), Technical Assistance (RBS 2000), and Program Management Requirements (RBS 3000). Acronyms are listed in Appendix A. Contract level data deliverables are listed in Appendix B. Applicable documents are identified in Appendix C.

Figure 1: Requirements Breakdown Structure



0000 SYSTEMS ENGINEERING/TECHNICAL ASSISTANCE

Provide systems engineering and technical assistance services to AFFTC organizations, in support of flight test, ground test, and related support activities. Provide effective program management at the SE/TA contract level and for individual SE/TA tasks. Ensure that indicators of performance, cost, schedule, and risk are monitored, documented and reported.

1000 SYSTEMS ENGINEERING REQUIREMENTS

Perform the following types of Systems Engineering activities: Requirements Definition; Engineering Management; Risk Reduction; Developmental Engineering; Verification and Validation; and Technical Analyses. Provide training to Government and other contractor personnel in the understanding and application of systems engineering. Develop and utilize specialized software tools (for example: databases) that support Systems Engineering activities.

1100 Requirements Definition

Interface with AFFTC test and training customers and AFFTC technical, engineering and management functionals to determine and describe requirements for new or modified flight test, ground test, and related support projects, equipment, systems, and interfaces. Ensure that requirements are understandable, complete, represent the customer's needs, and are verifiable. Address technical, cost, and schedule constraints and associated risks. For new or modified equipment, systems, or interfaces, ensure that requirements can be translated into design solutions that are economical to manufacture/code/assemble and support.

Develop and revise specifications and related documentation for the Air Force to acquire equipment and software. Analyze and define performance requirements for all levels of system functional design. Decompose complex functions to the lowest level where there will be sufficient detail to allow synthesis of that element. Define external and internal functional interfaces.

Provide support to government and contractor acquisition planners and program management personnel. Ensure the technical adequacy of acquisition packages, plans, and other acquisition and management documentation. Ensure appropriate technical influence on acquisition and management processes.

1200 Engineering Management

Maintain technical insight into design, production planning, surveillance, compliance verification, training, and other activities performed by development agencies (commercial or Government). Review the activities and deliverables of development agencies and provide advisory inputs to government decision-makers. Ensure that indicators of performance, cost, schedule, and risk are monitored, documented and reported.

1300 Risk Reduction

Perform risk reduction activities and develop risk reduction prototypes, as required, to support concept exploration, demonstration/validation, and engineering manufacturing development of new or modified flight test, ground test, and related support projects, equipment, systems, and interfaces.

Assess and evaluate technology options available from existing developments and prototypes. Recommend future prototype activities. Provide feasibility assessments of proposed designs in terms of cost, schedule, and performance.

1400 Developmental Engineering

Translate functional requirements into life-cycle balanced design solutions. Support the development of new or enhanced flight test, ground test, related support, and AFFTC infrastructure capabilities. Provide expertise in such areas as real-time and non-real-time simulation, avionics development, flight dynamics, aerospace structures and propulsion, weapons and sensor development, airborne and ground instrumentation, data acquisition, electronic warfare testing, frequency management and spectrum efficiency, telemetry acquisition, data processing and distribution, environmental engineering, Local Area Networks (LAN), and data connectivity and communications. Support the integration of new or modified equipment and systems with existing capabilities, identifying inter-range and intra-range issues and tracking their resolution. Develop Operations and Maintenance (O&M) concepts and procedures that reflect balanced life-cycle approaches. Ensure that logistics elements are addressed prior to transferring systems and equipment from developmental status to operational status.

Analyze equipment proposals or modifications for technical feasibility, compatibility, and cost effectiveness. Evaluate system designs and conduct performance, cost and schedule trade-off analyses in order to reduce development risk.

Provide specific engineering functionals (for example: Radio Frequency (RF), Electrical, Aerospace, Mechanical, Environmental, Software) to support development projects. Incorporate appropriate engineering and related specialties into design activities (for example: Human Factors, Quality Assurance, Logistics, Security, Safety).

SE/TA TRD

Hardware development will be restricted to:

- Prototype, proof-of-concept, or risk reduction efforts for the purpose of demonstrating an advanced technology, system improvement, process, or product.
- Development or enhancement of dynamic management decision support system for AFFTC organizations;

Software development will be restricted to:

- Prototype, proof-of-concept, or risk reduction efforts for the purpose of demonstrating an advanced technology, system improvement, process, or product;
- Development or enhancement of dynamic management decision support system for AFFTC organizations;
- Specialized software tools (for example: databases).

There are no requirements for hardware or software development of operational or T&E systems.

1500 Verification and Validation

Ensure traceability of requirements from user need, through design documents, through test documentation, to delivered hardware and software products.

Participate in component, subsystem, and system testing. Develop and review test plans and procedures. Evaluate the completeness of a system contractor's or vendor's delivered hardware/software configuration items, installation and integration. Perform verification and validation of physical and functional designs, for conformance with requirements, operational effectiveness and suitability. Perform Independent Verification and Validation (IV&V) of physical and functional designs, when design efforts are accomplished by other design contractors or Government entities. Develop and review test reports.

1600 Technical Analyses

Perform analyses and studies on various topics to support the development, operations, and support of ground test, flight test, related support activities, and AFFTC infrastructure systems or equipment. Evaluate test methodologies, technologies, and O&M concepts. Perform Life-Cycle Cost (LCC) estimates based on requirements analysis, available historical data, and projective data concerning future technical capabilities.

2000 TECHNICAL ASSISTANCE REQUIREMENTS

Perform the following types of Technical Assistance activities: Master Planning, Program Management Support, Acquisition Support, and Operations and Support. Develop and utilize specialized software tools (for example: databases) that support Technical Assistance activities.

2100 Master Planning

Perform studies and analyses, and provide recommendations to support Air Force strategic, Science and Technology (S&T), modernization, investment, and acquisition planning processes. Assist in test requirement definition, test capability analysis, improvement and investment planning, AFFTC Improvement and Modernization (I&M) programming and budgeting, and strategic planning. Develop, maintain, and enhance contacts with elements of the strategic, S&T, modernization, investment, acquisition, and operational planning communities. Determine and document future test requirements. Investigate, analyze, evaluate, and document the capabilities of existing and planned AFFTC and other DOD Test and Evaluation (T&E) assets in terms of future test requirements and T&E Investments. Assist in the identification and planning of T&E Investments and the development of new and improved test methodologies. Assist in the refinement of DOD, Air Force Materiel Command (AFMC), and AFFTC Test Investment Planning and Programming (TIPP) processes. Define, prepare, and review strategic planning and I&M reports, briefings, and other documentation. Automate processes associated with the AFFTC I&M programming and budgeting effort.

2200 Program Management Support

Provide Program Management support to AFFTC organizations and specific projects.

Provide assistance to Government with strategic and day-to-day business management in support of ground test, flight test and other associated test and support activities. Develop and maintain business management tools and methods. Perform cost, schedule, performance, and risk analysis and assessments, in support of AFFTC organizations and specific projects, to provide information to Government decision-makers. Assist in the development of program baselines; integrated schedules for program planning; Statement of Capability (SOC) responses; Work Breakdown Structures (WBS); outyear/near year/current year programming and budget support; business area planning and execution; earned value and other financial reports; risk analysis/assessments; workload and resource assessments; and management plans and briefings. Start and maintain development program files. Provide financial accounting and cost estimating. Implement processes to monitor and report Government key business metrics.

Provide configuration management expertise in support of AFFTC organizations and specific projects. Ensure that configuration items are properly identified and documented;

that configuration changes are coordinated, tracked and maintained; and that traceability is maintained from requirements generation to requirements validation.

Provide data management expertise to support AFFTC organizations and specific project requirements for data management and engineering data management. Assist Government personnel to ensure that data is acquired in accordance with established Air Force policy, objectives and procedures. Assist in the preparation and review of AFFTC technical reports in accordance with the AFFTC technical report process. Coordinate, update and maintain system documentation and drawings.

Assist AFFTC organizations in improving their business processes. Analyze current business processes, recommend improvement options, establish implementation roadmaps, and assist in implementing Government approved improvements.

Provide training to Government and other contractor personnel on management policies, processes and tools. Train Government and contractor personnel in process improvement techniques and implementation steps.

Provide administrative support to supplement and complement (not replace) the day-to-day administrative staff within AFFTC organizations.

2300 Acquisition Management Support

Provide acquisition planning expertise to support all levels of acquisitions (from small purchases up to and including new or modified flight or ground test systems). Develop and analyze acquisition strategy methodologies. Develop and review acquisition documentation. Participate as advisors in Government source selections.

Participate in acquisition strategy analysis and planning. Develop and document decision support system and models. Develop and maintain acquisition schedules. Apply knowledge of the current DOD, Air Force, AFMC, and AFFTC acquisition policy and guidance to acquisition projects.

Develop and review acquisition planning packages and other acquisition documentation. Review or propose inputs to Purchase Request (PR) packages, Requests for Proposal (RFP), Statements of Objectives (SOO), Statements of Work (SOW), Contract Data Requirements List (CDRL), specifications, requirements documents, Sections L and M, Acquisition Plans, Award Fee and Surveillance Plans, Acquisition Cost Models, and other acquisition-related documents. Formulate, generate, review, recommend revisions, and finalize Source Selection Evaluation Guides, Source Selection Plans, and other source selection documentation. Maintain acquisition documentation.

Conduct proposal evaluation and fact-finding activities associated with source selection in a non-decision-making role as an advisor (not an evaluator).

SE/TA TRD

2400 Operations and Support

Operate and support management decision support systems developed under RBS 1400. Provide training on installed hardware and software to system users.

There are no requirements for operations or support of T&E systems under the SE/TA contract.

3000 PROGRAM MANAGEMENT REQUIREMENTS

Provide management expertise and apply effective and efficient management processes, appropriate to the AFFTC SE/TA effort, at the SE/TA contract level and for individual SE/TA tasks. Develop and maintain timely performance, cost, schedule, and risk indicators. Provide the Government with visibility into these performance, cost, schedule, and risk indicators.

3100 Internal Contractor Business Processes

Designate a Program Manager (PM) responsible for contractor personnel and operations, empowered to make and implement decisions, with independent authority for contractual matters. Designate subordinate contractor focal points to interface with Government task managers for planning, workload execution, and quality.

Respond in a timely manner to Government direction provided through contract modifications.

Respond in a timely manner to Government direction provided through individual task directives (TDs). Interface with the Government to understand TD work and data deliverable requirements. Prepare Task Directive Responses (TDR) (CDRL A001). Approval of the TDR by the Administrative Contracting Officer (ACO) officially opens the task and establishes technical, cost, and schedule parameters.

Develop an overall risk mitigation plan and track its implementation throughout the contract performance period. Proactively identify and manage cost, schedule, and technical risks, both at the contract and task level. Periodically provide metrics that indicate performance relative to the contract and task-specific performance objectives and thresholds. Provide periodic self-assessments on performance relative to the contract and task-specific performance objectives, as an input to the award fee process.

Deleted: The TD process is described in Program Management Office (PMO) Operating Instruction (OI) -1 (Sections E and F). ¶

SE/TA TRD

Provide a program control management reporting system that enables the Government to evaluate cost, schedule, and technical progress and make programmatic decisions on the basis of that data. Interface with the Government frequently for the purpose of reviewing cost, schedule, and technical performance data. Ensure that issues impacting satisfaction of any portion of the Government's requirements are identified to the Government as quickly as possible. **(CDRL A002, A003, A004)**

Provide highly qualified personnel in a timely fashion to support the Government's requirements.

Ensure the development and delivery of data in accordance with contract and individual task directive CDRL/Data Item Descriptions (DIDs). Identify all internal, non-deliverable data associated with contract or task performance on the Data Accession List. **(CDRL A005)**

Establish and maintain an effective security program in accordance with the DD Form 254 and the Visitor Group Security Agreement.

Develop internal plans and procedures for managing the SE/TA effort.

APPENDIX A: LIST OF ACRONYMS

ACO	Administrative Contracting Officer
AFFTC	Air Force Flight Test Center
AFMC	Air Force Materiel Command
CDRL	Contract Data Requirements List
DID	Data Item Description
DOD	Department of Defense
I&M	Improvement and Modernization
IV&V	Independent Verification and Validation
LAN	Local Area Network
LCC	Life-Cycle Cost
O&M	Operations and Maintenance
OI	Operating Instruction
PM	Program Manager
PMO	Program Management Office
PR	Purchase Request
RF	Radio Frequency
RBS	Requirements Breakdown Structure
RFP	Request for Proposal
S&T	Science and Technology
SE/TA	Systems Engineering/Technical Assistance
SOC	Statement of Capabilities
SOO	Statement of Objectives
SOW	Statement of Work
T&E	Test and Evaluation
TD	Task Directive
TDR	Task Directive Response
TIPP	Test Investment Planning and Programming
TRD	Technical Requirements Document
WBS	Work Breakdown Structure

APPENDIX B: LIST OF CONTRACT LEVEL DATA DELIVERABLES

CDRL	TITLE	DID #
A001	Technical and Management Work Plan	DI-MGMT-81117
A002	Cost/Schedule Status Report	DI-MGMT-81467
A003	Status Report	DI-MGMT-80368
A004	Technical Report -- Study/Services	DI-MISC-80508
A005	Data Accession List	DI-MGMT-81453

APPENDIX C: APPLICABLE DOCUMENTS

GUIDANCE DOCUMENTS

The following documents are listed for reference purposes only. The contractor is required to perform the work described in the TRD within the guidance of these documents. Compliance documents for individual task directives may be identified from this list:

AFI 63-124	01-Apr-99	Performance-Based Service Contracts (PBSC)
AFI 63-501	31-May-94	Air Force Acquisition Quality Program
AFPD 63-5	07-Sep-93	Quality Assurance
DOD 5000.2-R	11-May-99	Mandatory Procedures for Major Defense Acquisition Program (MDAPs) and Major Automated Information System (MAIS) Acquisition Programs
DOD 5010.12-L	Oct-97	Acquisition Management Systems and Data Requirements Control List
DOD 5010.12-M	May-93	Procedures for the Acquisition and Management of Technical Data
EIA-632	18-Jan-99	Processes for Engineering a System
EIA/IS-649	Aug-95	National Consensus Standard for Configuration Management
IEEE/EIA 12207.0	Mar-98	Software Life Cycle Processes
IEEE/EIA 12207.1	Apr-98	Software Life Cycle Processes-Life Cycle Data
IEEE/EIA 12207.2	Apr-98	Software Life Cycle Processes-Implementation Considerations
MIL-STD-973	13-Jan-95	Configuration Management
MIL-STD-2549	30-Jun-97	Configuration Management Data Interface
MIL-HDBK-61	30-Sep-97	Configuration Management Guidance
MIL-DTL-31000A	15-Oct-98	Technical Data Packages