

**MINUTEMAN MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK (MEECN)
PROGRAM (MMP) UPGRADE**

SYSTEM DEVELOPMENT AND DEMONSTRATION (SDD)

VOLUME III

APPENDIX A

CONTRACTOR DATA REQUIREMENTS LIST (CDRL), DD FORM 1423

SOLICITATION # FA8726-07-R-0018

MMP Upgrade Technology Development CDRL Index

Data Item #	Description	Comments
B001	System Segment Specification	DI-IPSC-81431A/T
B002	System/Subsystem Design Description	DI-IPSC-81432A
B003	Technical Report (Studies) 1. Spectrum Authorization and NTIA Compliance 2. Unique Identification Listing (UID) 3. Level of Repair Summary	DI-MISC-80508A/T
B004	Integrated Master Schedule (IMS)	DI-MGMT-81650/T
B005	Data Accession List (DAL) 1. Hazardous Materials Identification and Handling Requirements. 2. Corrosion Prevention Control Plan	DI-CMAN-81453
B006	Technical Report: Hardware Development Plan (HDP)	DI-MISC-80508A/T
B007	System Engineering Management Plan (SEMP)	DI-MISC-81024/T
B008	Engineering Change Proposal (ECP)	DI-CMAN-80639C/T
B009	Deviations/Waivers	CMP 00193
B010	Covert Channel Analysis	DI-MISC-81345/see TSRD para 13
B011	Fail Safe Design and Analysis Documentation	DI-MISC-90090A /see TSRD para 15
B012	Theory of Design and Operation (Including Anti-Tamper)	DI-MISC-81608/T /see TSRD para 11
B013	Theory of Compliance Documentation	DI-MISC-81609/see TSRD para 12
B014	Security Verification Plan and Procedures (UIC compliance test)	DI-QCIC-90021B /see TSRD para 16
B015	TEMPEST Control Plan	DI-MGMT-90005A/see TSRD para 23a
B016	TEMPEST Test Plan	DI-EMCS-90000A/see TSRD para 23b
B017	TEMPEST Test Report	DI-EMCS-90001A/see TSRD para 23c
B018	Configuration Control Documentation	DI-CMAN-90072/see TSRD para 18
B019	Engineering Drawings, Software and Configuration Item Database	DI-SESS-81000C, DI-IPSC-81441, DI-CMAN-90072, Prime-00193 & Prime-22889, IAW MIL-STD-100/see TSRD para 19
B020	Physical Configuration Audit Plan and Report	DI-SESS-81646/see TSRD para 20
B021	Security Verification Reports (UIC compliance test)	DI-QCIC-90022B/see TSRD para 16
B022	Key Management Plan	DI-MISC-90019B /see TSRD para 14a
B023	Interface and Operator's Guide	See TSRD Para 25
B024	INFOSEC Security Awareness Training	See TSRD Para 26
B025	Maintenance Manuals	See TSRD Para 27
B026	Security Production Assurance to include INFOSEC-Boundary Verification Documentation	See TSRD Para 28
B027	Software Requirements Specification (SRS)	DI-IPSC-81433A
B028	Software Test Plan and Procedures	DI-IPSC-81438A/see TSRD para 21b

B029	Software Test Report	DI-IPSC-81440A/see TSRD para 21c, 21i
B030	Software Development Plan	DI-IPSC-81427A/see TSRD para 21d
B031	Software Product Specification	DI-IPSC-81441A/see TSRD para 21e
B032	FPGA VHDL Documentation	See TSRD Para 31
B033	Software Design Description	DI-IPSC-81435A/see TSRD para 21h
B034	Software Version Description Document (SVD)	DI-IPSC-81442A/see TSRD para 21f
B035	Technical Report: Firmware Development Plan (FDP)	DI-MISC-80508A/T
B036	Specification Change Notices	CMP PRIME 00193
B037	Interface Control Documents (ICDs) ICD Scope Sheets Interface Revisions (IR)	DI-CMAN-81248A
B038	Key Specification	See TSRD Para 14b
B039	Test Plans Acceptance Test Plan Qualification Test Plan (Includes NH&S, and EMI/EMC sections) Integration/System Test Plan Weapon System Test Plan	DI-NDTI-80566A
B040	Test Procedures Acceptance Test Procedures Qualification Test Procedures (Includes NH&S, and EMI/EMC sections) Integration/System Test Procedures Weapon System Test Procedures	DI-NDTI-80603A
B041	Test Report Qualification Test Report (Includes NH&S, and EMI/EMC sections) Integration/System Test Report Weapon System Test Report	DI-NDTI-80809B
B042	Installation Test Procedures	DI-QCIC-80511
B043	Nuclear Survivability Assurance Plan	DI-NUOR-80926
B044	Provisioning Technical Documentation	DI-ILSS-81557/T
B045	Site Preparation Requirements and Installation Plan Implementation Management Plan Integrated Deployment Plan (Includes Demilitarize/Disposal Planning)	DI-MGMT-80033/T
B046	Reliability Prediction and Documentation of Supporting Data	DI-RELI-81497
B047	Government Industry Data Exchange Program (GIDEP) Alert/Safe-Alert Report	DI-QCIC-80125B
B048	Contract Funds Status Report (CFSR)	DI-MGMT-81468
B049	Contract Performance Report (CPR)	DI-MGMT-81466A/T
B050	Manufacturing-Quality System	ASQC-Q9001, DI-QCIC-81379
B051	Not Used	
B052	System Requirement/Design Constraints Analysis (SRA)---Contractors DOORs database	

B053	Failure Modes Effects & Criticality Analysis (FMECA)	DI-RELI-81315
B054	In-Process Accounting Procedures Documentation	TSRD para 17
B055	Source Code	
B056	Executable Code	
B057	NH&S Design Analysis Report (DAR)	DI-ENVR-80266/T
B058	NH&S Hardness Data Manual (HDM) SAC/CEM	
B059	NEPA/Environmental Analysis (EA)	32CFR989
B060	Parts, Materials and Processes Plan	MIL-STD-965/513
B061	Nonstandard Part Approval Requests	
B062	Program Approved Parts List (PAPL)	
B063	Preliminary Hazards Analysis (PHA) (Includes Preliminary Hazards List (PHL))	MIL STD 882C, DI-SAFT-80101A
B064	System Safety Program Plan (SSPP) (Contractors)	MIL STD 882C, DI-SAFT-80101B
B065	Safety Assessment Report (SAR)/Safety Compliance Analysis Report (SCAR) w/Safety Hazard Analysis Report (SHAR) & Hazard List (contractors)	MIL STD 882C, DI-SAFT-80102A
B066	SELECT Manuals and Single Line Drawings	DI-GDRO-81223, DI-TWSS-80066
B067	Not Used	
B068	Support Equipment Development Documentation	DI-ALSS-81529
B069	Technical Order (TO), Guidance Conference Technical Manual Status and Schedules Technical Manual CFAE/CFE Notices Technical Orders (Supplemental Data for Commercial Equipment) Technical Manual Contract Requirements, Time Compliance Technical Orders Technical Manual Contract Requirements 35% and 80% IPR Data Technical Manual Contract Requirements Val/Ver Data Technical Manual Contract Requirements PPR Data Technical Manual Contract Requirements Final Data	TM-86-01M
B070	Type I Training Source Data	
B071	DIACAP Certification Package	
B072	Integrated Circuit Graphics Database	See TSRD Para 31
B073	IMP	DI-MGMT-80004A/T
B074	Computer Aided Chip Development Data	DI-MCRR-80499A/see TSRD para 30b
B075	Computer Aided Cell Development Data	DI-MCRR-80500A/see TSRD para 30c
B076	Trusted Facility Manual	DI-TMSS-81352
B077	Security Vulnerability Analysis	DI-MISC-80841
B078	Site Security Procedures	DI-MCCR-81349

EXPLANATION OF CDRL FORM 1423

Block 1. Data Item Number: Identifying number (sequence number) used when referring to data delivered.

Block 2. Title of Data Item: The title as it appears in Item 1 of the Data Item Description (DID), DD Form 1664.

Block 3. Subtitle: Optional entry. Utilized if title requires further identification/clarification of data to be delivered.

Block 4. Block 4 of the DD Form 1423 contains the Data Item Description (DID) number to be followed in developing the required data. All reference numbers appearing in block 4 correspond to DIDs listed in the U.S. Government Assist database. DIDs called out in the CDRL have been tailored from the standard format. In such cases, the letter “/T” (tailored) has been suffixed to the DID number appearing in block 4 of the CDRL format. The specific tailoring to the DID is detailed in block 16. Block 10 (preparation instructions) of the DID, together with any tailoring cited in the CDRL, contain instructions for preparation of data delivered under this contract.

Block 5. Contract Reference: Reference to tasking in MMP Upgrade Statement of Work that generates requirement for the data item.

Block 6. Requiring Office: Activity/Office responsible for the accuracy and adequacy of the data submitted.

Block 7. DD Form 250 Required: The following codes are utilized when formal Government inspection and acceptance of this data item are required at a designated Government location.

Code	Inspection	Acceptance
SS	Source	Source
DD	Destination	Destination
SD	Source	Destination
DS	Destination	Source
LT	Letter of Transmittal Only	
NO	Inspection or Acceptance Not Required	
XX	Inspection and Acceptance Requirements Specified Elsewhere in Contract	

Block 8. Approval Code: An "A" in block 8 requires that the Government approve/disapprove data submittals electronically, not later than forty-five (45) days after receipt of the data unless otherwise specified in block 16 of the individual data item. It has been determined for purposes of this contract that an "A" in block 8 may indicate approval / disapproval of format or content or both. The absence of a code in block 8 in no way precludes the Government from exercising approval/disapproval authority for any data submission.

Block 9. Distribution Statement Required: This block contains the letter of the distribution statement to be affixed to the deliverable. For technical data, contractor required to make the appropriate distribution statement of the data.

Block 10. Frequency: The following character abbreviations show how often a data item is to be submitted:

Abbreviation	Definition
DAILY	Daily
WKLY	Weekly
BI-WE	Each 2 Weeks
MTHLY	Monthly
BI-MO	Each 2 Months
QRTLY	Quarterly
ANNLY	Annually
SEMIA	Each 6 Months
ATIME	One Time
ONE/R	One Time and Revisions
R/ASR	Revisions as Required
ASREQ	As Required
DFDEL	Deferred Delivery
ONE/P	One-Time Preliminary Draft
WTIME	Two Separate Submittals

Block 11. As of Date: The reporting period cut-off date, if applicable.

Block 12. Date of First Submission: Self-Explanatory. The date by which the requiring office is to receive the data.

Block 13. Date of Subsequent Submissions: Self-Explanatory. The date by which the requiring office is to receive subsequent submissions of the data.

Block 14. Distribution: UNCLASSIFIED deliverables shall be provided electronically (soft copy) to the addresses designated on the address index. Addresses for copies of CLASSIFIED deliverables will be provided by the Data Management Officer, Dennis Singer, email: dennis.singer@hanscom.af.mil. A letter of transmittal of each CDRL item will be delivered by e-mail to the attention of Ms Mariah Blaine, 639 ELSS/PK, e-mail address: Mariah.Blaine@hanscom.af.mil.

Block 15. Total: Total number of copies required.

Block 16. Remarks: This space is utilized to provide further explanation of any of the blocks on the CDRL, DD Form 1423-1.

ABBREVIATIONS & ACRONYMS

2TIME	Two separate submittals
AMSDL	Acquisition Management System and Data Requirements Control List
ANNLY	Annually
ASREQ*	As Required
BI-MO	Each 2 months
BI-WE	Each 2 weeks
CDRL	Contract Data Requirements List
CI	Configuration Item
CWBS	Contract Work Breakdown Structure
DA	Days after
DAC	Days after contract award
DAILY	Daily
DD	Destination/Destination
DFDEL	Deferred delivery
DP	Days prior
DS	Destination/Source
LT	Letter of Transmittal only
MTHLY	Monthly
NLT	Not later than
NO	No inspection or acceptance required
ONE/P	One-time preliminary draft
ONE/R	One time and revisions
OPR	Office of Primary Responsibility

OTIME	One time
QRTLY	Quarterly
R/ASR	Revisions as required
REQD	Required
SCN	Specification Change Notice
SD*	Source/Destination
SEMIA	Each 6 months
SERD	Support Equipment Recommendation Data
SS	Source/Source
TM	Technical Manual
WEKLY	Weekly

CONTRACT DATA REQUIREMENTS LIST						Form Approved OMB No. 0704-0188							
<p>The public reporting burden for this collection of information is estimated to average 110 hours per response including the time for reviewing instructions, searching existing Data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.</p>													
A. CONTRACT LINE ITEM NO. 0001		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____									
MMP Upgrade		E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR								
1. DATA ITEM NO. B001	2. TITLE OF DATA ITEM System/Subsystem Specification (SSS)			3. SUBTITLE			17. PRICE GROUP						
4. AUTHORITY (Data Acquisition Document No.) DI-IPSC-81431A		5. CONTRACT REFERENCE SOW 3.0 / TSRD paragraph 21a			6. REQUIRING OFFICE 639 ELSS			18. ESTIMATED TOTAL PRICE					
7. DD 250 REQ DD	9. DISTRIBUTION STATEMENT REQUIRED	10. FREQUENCY R/ASR	12. DATE OF FIRST SUBMISSION See Block 16		14. DISTRIBUTION								
8. APP CODE A	See Block 16	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION See Block 16		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">b. COPIES</td> </tr> <tr> <td style="text-align: center;">A. ADDRESSEE</td> <td style="text-align: center;">Final</td> </tr> <tr> <td style="text-align: center;">Draft</td> <td style="text-align: center;">Reg Repro</td> </tr> </table>			b. COPIES		A. ADDRESSEE	Final	Draft	Reg Repro
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A. ADDRESSEE	Final												
Draft	Reg Repro												
16. REMARKS Block 9: Distribution authorized to U.S. Government Agencies only. Other requests for this document shall be referred to 653 ELSG/PK, 5 Eglin Street, Bldg 1624, Hanscom AFB, MA 01731-2100, Attn: MMP Upgrade PCO. The contractor will submit a transmittal letter to 653 ELSG/PK stating the final reports for each CDRL have been submitted to the Government. Contractor format is acceptable. Blks 12-13: The Contractor shall submit a final 30 days prior to SRR and updated with SRR changes 30 days after SRR. Documents to be available via the IDE. Electronic delivery will be acceptable until website delivery is available. Block 14: Data to be provided electronically in Microsoft Word, or other format as mutually agreed upon.					639 ELSS								
					NSA								
										15. TOTAL			
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CONTRACT DATA REQUIREMENTS LIST						Form Approved OMB No. 0704-0188	
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A. CONTRACT LINE ITEM NO. 0001		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____			
MMP Upgrade		E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR		
1. DATA ITEM NO. B003	2. TITLE OF DATA ITEM Technical Reports				3. SUBTITLE SEE BLOCK 16		17
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508A/T		5. CONTRACT REFERENCE SOW 3.0			6. REQUIRING OFFICE 639 ELSS		
7. DD 250 REQ DD	9. DISTRIBUTION STATEMENT REQUIRED See Block 16	10. FREQUENCY R/ASR	12. DATE OF FIRST SUBMISSION See Block 16		14. DISTRIBUTION		
8. APP CODE See Block 16		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION See Block 16		b. COPIES		
					A. ADDRESSEE	Final	
16. REMARKS Block 3: 1. Spectrum Authorization and NTIA Compliance, 2. Unique Identification Listing (UID), 3. Level of Repair Summary Block 9: Distribution authorized to U.S. Government Agencies only. Other requests for this document shall be referred to 653 ELSG/PK, 5 Eglin Street, Bldg 1624, Hanscom AFB, MA 01731-2100, Attn: MMP Upgrade PCO. The contractor will submit a transmittal letter to 653 ELSG/PK stating the final reports for each CDRL have been submitted to the Government. Contractor format is acceptable. Blks 12-13: The Contractor shall submit the Spectrum Authorization and NTIA Compliance near final NLT 15 days prior to the Preliminary Design Review, and update 30 days prior to Critical Design Review, and final 30 days prior to Test Readiness Review. The Contractor shall submit the Unique Identification Listing (UID) with the first occurrence of the production system. The Contractor shall submit the Level of Repair Summary and Level of Repair Analysis near final NLT 30 days prior to Critical Design Review, and final 90 days after Critical Design Review. Documents to be available via IDE. Electronic delivery will be acceptable until website delivery is available. Block 14: Data to be provided electronically in Microsoft Word, or other format as mutually agreed upon.		639 ELSS					
							15. TOTAL
See Last Page				See Last Page			

CONTRACT DATA REQUIREMENTS LIST						Form Approved OMB No. 0704-0188						
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A. CONTRACT LINE ITEM NO. 0001		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____								
MMP Upgrade		E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR							
1. DATA ITEM NO. B004	2. TITLE OF DATA ITEM Integrated Master Schedule (IMS)				3. SUBTITLE		17					
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81650/T		5. CONTRACT REFERENCE SOW 3.0			6. REQUIRING OFFICE 639 ELSS							
7. DD 250 REQ DD	9. DISTRIBUTION STATEMENT REQUIRED See Block 16	10. FREQUENCY MTHLY	12. DATE OF FIRST SUBMISSION See Block 16		14. DISTRIBUTION							
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION See Block 16		A. ADDRESSEE	b. COPIES						
16. REMARKS Block 4: See attached. Block 9: Distribution authorized to U.S. Government Agencies only. Other requests for this document shall be referred to 653 ELSG/PK, 5 Eglin Street, Bldg 1624, Hanscom AFB, MA 01731-2100, Attn: MMP Upgrade PCO. The contractor will submit a transmittal letter to 653 ELSG/PK stating the final reports for each CDRL have been submitted to the Government. Contractor format is acceptable. Blks 12-13: The Contractor shall submit the first Integrated Master Schedule NLT 20 th of the month following the first full month of contract and the 20 th of each month thereafter. Documents to be available via IDE. Electronic delivery will be acceptable until website delivery is available. Block 14: Data to be provided electronically in Microsoft Project, or other format as mutually agreed upon.						Final						
						Draft	Reg	Repro				
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					NSA							
					15. TOTAL							
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USE/RELATIONSHIP: The Integrated Master Schedule (IMS) is an integrated schedule containing the networked, detailed tasks necessary to ensure successful program execution. The IMS is vertically traceable to the Integrated Master Plan (IMP) and the Contract Work Breakdown Structure (CWBS). The IMS shall be used to verify attainability of contract objectives, to evaluate progress toward meeting program objectives, and to integrate the program schedule activities with all related components.

- a. This Data Item Description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract.
- b. The prime contractor is required to include significant external interfaces and critical items from suppliers, teammates, or other detailed schedules that depict significant and/or critical elements and Government furnished equipment or information dependencies for the entire contractual effort in a single integrated network. The determination of significant and critical shall be agreed to by the Government and the contractor and shall be defined and documented in the Contract Data Requirements List (CDRL).
- c. The IMS shall be statused according to the contractor's management control system and shall be submitted no less frequently than monthly. The IMS shall reflect data either as of the end of the calendar month. When subcontractor schedule data reflects a different status date than the prime contractor's schedule status date, these status dates shall be described in the analysis section of the IMS.
- d. This DID shall be used in conjunction with the CWBS DID, DI-MGMT-81334A, and the CPR DID, DI-MGMT-81466.

REQUIREMENTS:

1.0 Format

The IMS shall be created using Microsoft Office Project.

2.0 Content

The schedule shall contain the contract milestones, accomplishments, and discrete tasks/activities (including planning packages where applicable) from contract award to the completion of the contract. The schedule shall be an integrated, logical network-based schedule that correlates to the CWBS, uses the same numbering scheme as the CWBS, and is vertically and horizontally traceable to the cost/schedule reporting instrument used to address variances such as the CPR (if applicable). It shall contain contractual milestones and descriptions and display summary, intermediate, and detailed schedules, and periodic analysis of progress to date. It shall include fields and data that enable the user to access the information by product, process, or organizational lines.

2.1 Contract Milestones and Definitions

Key programmatic events, which define progress and completion for each CWBS element, along with the definition for successful completion of the milestone.

2.2 Summary Master Schedule.

A top-level schedule of key tasks/activities and milestones at the summary level of the CWBS and IMP. It shall be an integrated roll up of the intermediate and detailed schedules (see 2.3 and 2.4 below) (vertical integration).

2.3 Intermediate Schedules

Mid-level contract schedules that include key tasks/activities and milestones and all associated accomplishments in the summary master schedule, traceable to the CWBS element or IMP event as necessary to display work effort at the intermediate level of summarization. There may be several intermediate schedules that depict varying levels of detail. They shall be integrated roll ups of the detailed schedules (see 2.4 below) (vertical integration).

2.4 Detailed Schedules

The lowest level of contract tasks/activities that form the network. The detailed schedules shall contain horizontal and vertical integration, as a minimum, at the work package and planning package level. The detailed schedules shall include all tasks/activities, work packages, and planning packages identified in the contract Performance Measurement Baseline (PMB). Every discrete task/activity, work package, and planning package shall be clearly identified and directly related to a control account. Work packages and planning packages shall be individually represented and summarize to or reconcile with the total budget for that control account. If Level of Effort (LOE) control accounts, work packages, or planning packages are included as tasks in the IMS, they shall be clearly identified as such. The detailed tasks/activities, work packages, and planning packages shall be traceable to only one CWBS, IMP, and performing organizational element, as applicable.

2.4.1 Key Elements of Detailed Schedules

The key elements of the detailed schedules include the following:

2.4.1.1 Task/Activity

An element of work with duration.

2.4.1.2 Milestone

A specific definable accomplishment in the contract network, recognizable at a particular point in time. Milestones have zero duration and do not consume resources.

2.4.1.3 Duration

The length of time estimated (or realized) to accomplish a task/activity.

2.4.1.4 Percent Complete (Schedule)

The proportion of an activity or task that has been completed to time now. This usually involves updating or statusing the activity or task utilizing one of two methods: (1) update the remaining time to complete (remaining duration) and the scheduling software will then automatically update the schedule percent complete or (2) update the schedule percent complete and allow the scheduling software to calculate the time remaining (remaining duration) to complete. Either method will use the following formula: Percent of Duration Completed = (Actual Duration / Total Duration) X 100.

2.4.1.5 Task/Activity and Milestone Descriptions

These are descriptive titles that are concise, complete, and clearly identify the work effort being accomplished. Abbreviations may be used to shorten the descriptive titles.

2.4.1.6 Task/Activity Codes and Data Dictionary

A list of field definitions and code structures. This list shall be provided to the procuring activity.

2.4.1.7 Relationship/Dependency

These identify how predecessor and successor tasks/activities and milestones are logically linked. Relationships, also called network logic, are modeled in four ways:

2.4.1.7.1 FS (Finish to Start)

A predecessor task/activity or milestone that must finish before a succeeding task/activity or milestone can start. FS relationships shall be used whenever possible.

2.4.1.7.2 SS (Start to Start)

A predecessor task/activity or milestone that must start before a succeeding task/activity or milestone can start.

2.4.1.7.3 FF (Finish to Finish)

A predecessor task/activity or milestone that must finish before a succeeding task/activity or milestone can finish.

2.4.1.7.4 SF (Start to Finish)

A predecessor task/activity or milestone that must start before a succeeding task/activity or milestone can finish.

2.4.1.8 Total Float/Slack

The amount of time a task/activity or milestone can slip before it delays the contract or project finish date.

2.4.1.9 Free Float/Slack

The amount of time a task/activity or milestone can slip before it delays any of its successor tasks/activities or milestones.

2.4.1.10 Lag

An interval of time that must occur between a predecessor and successor task/activity or milestone. Since negative time is not demonstrable, negative lag is not encouraged. (Note: Lag should not be used to manipulate float/slack or constrain schedule.)

2.4.1.11 Early Start (ES)

The earliest start date a task/activity or milestone can begin the precedence relationships. A computer-calculated date.

2.4.1.12 Early Finish (EF)

The earliest finish date a task/activity or milestone can end. A computer-calculated date.

2.4.1.13 Late Start (LS)

The latest start date a task/activity or milestone can start without delaying the contract or project target completion date. A computer-calculated date.

2.4.1.14 Late Finish (LF)

The latest date a task/activity or milestone can finish without delaying the contract or project target completion date. A computer-calculated date.

2.4.1.15 Critical Path

A sequence of discrete tasks/activities in the network that has the longest total duration through the contract or project. Discrete tasks/activities along the critical path have the least amount of float/slack. The critical path is calculated by the scheduling software application. The guidelines for critical path and near-critical path reporting are as follows:

2.4.1.15.1 Methodology

The IMS software application computes a critical path based on precedence relationships, lag times, durations, constraints, and status. Artificial constraints and incorrect, incomplete, or overly constrained logic shall be avoided because they can skew the critical path.

2.4.1.15.2 Identification

The critical path shall be easily identified.

2.4.1.16 Constraints

Limits applied to network start and finish dates (e.g., “finish no later than”). (Note: Certain types of constraints should be used judiciously because they may impact or distort the network critical path.)

2.4.1.17 Current Schedule

The IMS reflects the current status and forecast. It includes forecasted starts and finishes for all remaining tasks/activities and milestones. Significant variances to the baseline schedule shall be explained in the periodic analysis. Thresholds for reporting shall be specified in the CDRL.

2.4.1.18 Baseline Schedule

Baseline dates in the IMS shall be consistent with the baseline dates in the PMB for all work packages, planning packages, and control accounts (if applicable). The guidelines for maintaining the baseline schedule are as follows:

2.4.1.18.1 Schedule Changes

Changes to the schedule shall be baselined when incorporated into the schedule.

2.4.1.18.2 Baseline Schedule Changes

Any movement of contractual milestones in the baseline schedule shall be derived only from either authorized contract changes or an approved over target schedule.

2.4.1.19 Schedule Progress

The IMS shall reflect actual progress and maintain accurate start and finish dates for all tasks/activities and milestones. The guidelines for reflecting schedule progress are as follows:

2.4.1.19.1 Actual Start and Finish Dates

Actual start and actual finish dates shall be recorded in the IMS. Actual start and actual finish dates, as recorded, shall not be later than the status date.

2.4.1.19.2 Progress Line

The progress line depicted in a Gantt chart shall be applied to the current schedule.

2.4.1.20 Retention of Data for Completed Tasks/Activities

Historical performance on completed tasks/activities shall be maintained electronically for analytical use. Historical performance shall be maintained at the time of key program events (Integrated Baseline Review, Critical Design Review, etc.) for all critical tasks/activities. Data to be retained includes logic, actual and baseline durations, actual and baseline start and finish dates, and the three-point estimates that were used before the task/activity started.

2.4.1.21 External Dependencies

The IMS shall identify significant external dependencies that involve a relationship or interface with external organizations, including all Government furnished items (e.g., decisions, facilities, equipment, information, data, etc.). The determination of significant shall be agreed to by the Government and contractor and shall be defined and documented in the CDRL. The required or expected delivery dates shall also be identified in the IMS.

2.4.1.22 Schedule Margin

A management method for accommodating schedule contingencies. It is a designated buffer and shall be identified separately and considered part of the baseline. Schedule margin is the difference between contractual milestone date(s) and the contractor's planned date(s) of accomplishment.

2.4.1.23 User Defined Fields

All user defined fields in the IMS shall be identified by providing a mapping of all fields used in the scheduling software application.

2.4.1.24 Reserved Fields

The Government may reserve some fields and/or require the contractor to use certain fields for specific information. The requirement for reserved fields shall be specified in the CDRL.

2.4.1.24.1 Calendar

The arrangement of normal working days, together with non-working days, such as holidays, as well as special work days (i.e., overtime periods) used to determine dates on which project work will be completed.

2.5 Monthly Analysis

Monthly analysis is a monthly assessment of schedule progress to date and includes changes to schedule assumptions, variances to the baseline schedule, causes for the variances, potential impacts, and recommended corrective actions to minimize schedule delays. The analysis shall also identify potential problems and an assessment of the critical path. Thresholds for reporting significant variances to the baseline schedule shall be specified in the CDRL.

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1. DATA ITEM NO. B006		2. TITLE OF DATA ITEM Technical Report: Hardware Development Plan (HDP)			3. SUBTITLE																		
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508A/T		5. CONTRACT REFERENCE SOW 3.0			6. REQUIRING OFFICE 639 ELSS																		
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Block 4: Format and content as tailored for MMP Upgrade shall be as follows:

3. Description/Purpose

3.1 The SEMP shall describe the contractor's proposed processes and efforts for planning, controlling and conducting a full integrated engineering effort.

3.2 The SEMP provides the acquirer insight into the processes to be followed for all engineering activities. The SEMP also provides a tool for monitoring and evaluating the contractor's engineering work efforts as part of the contract monitoring process.

7.3 This DID is used when the contractor is tasked to develop and record plans for conducting systems engineering management activities.

7.4 Portions of the SEMP may be bound separately if this approach enhances usability. Examples include software development planning, test management and risk management.

10.2 Content. The SEMP shall contain the following parts:

10.2.1 Part I – Systems Engineering

This part of the SEMP shall describe the contractor's systems engineering approach and processes for the conduct, management, and control of the technical aspects of the program as applied to system design, system development, modeling and simulation, prototype development and use, validation, verification and test, producibility engineering, manufacturing engineering, production, fielding, and sustainment. It shall include the systems engineering required to define the system performance parameters and the preferred system configuration to satisfy the contractual requirements; the planning and controls of the technical program tasks; and management of a totally integrated effort of design engineering (all disciplines), test engineering, logistics engineering, producibility engineering, and production engineering to meet cost, technical performance, and schedule objectives. The SEMP shall also address software design (including vulnerability prevention and information assurance), development, validation, verification and test, fielding, and sustainment. If a Software Development Plan (SDP) is also required under the contract, the SEMP shall summarize key features of that plan and provide appropriate references to the SDP for detail. The SEMP shall describe how the SDP works in harmony with the SEMP and supports the overall systems engineering approach for the system. The SEMP shall illustrate how the robust SE principles of EIA 632, ISO/IEC 15288, IEEE 1220, and any other applicable standards and best practices have been applied.

A narrative shall be included, supplemented by graphical presentations, describing the contractor's proposed plans, processes, and procedures for the following elements of the systems engineering process:

a. Architecture. This section shall describe the approach for developing and documenting modular, open, flexible, layered, expandable/scalable and loosely coupled architectures. It shall include a discussion of how the architectures will accommodate future incremental enhancements, modernization initiatives, and technological improvements as well as a description of consensus standards (e.g. open architecture interfaces) to be applied. The discussion shall also address limitations or risks to the architectural goals due to reuse of products such as commercial or government off the shelf products including the potential risks associated with rearchitecting an existing reusable product. Aspects of the architecture that address vulnerability prevention and information assurance shall be included.

b. Requirements Management. This section shall describe how requirements are developed, derived, analyzed, decomposed, allocated, validated, verified, tested, and baselined. This section shall illustrate how requirements are documented, including the generation of specifications, and managed using established processes and workload enhancing tools as well as methods for requirements trade-off analysis, impact analysis including cost effectiveness, external and internal interface definition and management, design assessments, change analysis, maintaining configuration management and bidirectional traceability of requirements throughout the life of the program.

c. Functional Analysis. This section shall describe the process for functional analysis and allocation including translating the validated requirements baseline into a functional architecture and describing the functional arrangements and sequencing of subfunctions resulting from decomposition.

d. Modeling, Simulation, and Prototyping. This section shall describe the approach for using models, simulations, and prototypes to support analyses of alternatives, decision analysis, design evaluation, maturity assessments, and product performance assessments as well as the effectiveness of risk mitigation techniques.

e. System Design and Analysis. This section shall describe the transformation of system requirements into functional and physical architectures as well as hardware and software designs and development.

f. System Integration. This section shall describe the processes that ensure hardware and software internal and external interfaces and elements operate together as per the intended architecture, design, and performance requirements. This section shall also describe the processes that ensure that the products designed and developed integrate into their intended operational platforms.

g. Other Systems Engineering Tasks. This section shall describe the contractor's plans, procedures, and processes for other systems engineering tasks to be accomplished in this program including design for manufacturability, producibility engineering, logistics engineering, software and systems security engineering, integration engineering, and specialty engineering (e.g., reliability, maintainability, safety, nuclear surety, value engineering).

Part II – Technical Program Planning and Control

This part of the SEMP shall identify organization responsibilities and authority for system engineering management including control of subcontracted engineering; levels of control established for performance and design requirements and control methods to be used; plans and schedules for the design, development, assembly, integration, test and evaluation functions; and control of documentation. These areas are applicable to hardware, software, firmware, embedded products, product integration, production, and platform integration engineering activities.

A narrative shall be included, supplemented by graphical presentations, describing the contractor's proposed plans, processes, and procedures for the following elements of the technical program planning, control process, and metrics reporting:

a. Technical Performance Measures (TPMs). This section shall describe the TPMs used to measure performance at the system or subsystem level as well as to compare predicted and achieved performance with system or subsystem level requirements and goals as well as Key Performance Parameters (KPPs) and other stated operational needs or capabilities traced to the Capabilities Document(s) and Concept of Operations (CONOPS). TPMs shall be used to track key attributes of the design to assess progress toward meeting customer requirements as well as the progress of risk mitigation strategies. TPMs shall be used to forecast the values to be achieved through the planned technical program effort, measure differences between achieved values and those allocated to the product element, and determine the impact of these differences on system effectiveness. TPMs shall include projected performance with margins and tolerance bands of acceptable variance identified. Impacts of changes in the margins or variance shall be quantifiable in terms of cost, schedule, risk, or technical performance and be traceable to Contract Work Breakdown Structure (CWBS) elements.

b. Technical Performance Indicators (TPIs). This section shall describe TPIs used to assess, measure, or demonstrate design progress and maturity as well as compliance to performance requirements at the Configuration Item (CI), module, Computer Software Configuration Item (CSCI), Computer Software Component (CSC), or other attributes defined at the lowest levels of the CWBS (e.g., work package, subtask, and sub-subtask levels). TPIs shall be linked and traceable to requirements and functionality as allocated down through the lowest levels of the CWBS. TPIs shall include forecasted values and/or functionality to be achieved or requirements satisfied through completion of the CWBS elements. TPIs shall include qualitative methods, such as modeling and simulation results, prototypes, demonstrations, code walkthroughs or other review events, as well as quantitative measures (such as build schedules and content, code counts, defects detected, and test results) with clearly defined and meaningful exit criteria to determine that not only was the work scheduled in the CWBS element completed but the requirements and goals flowed to that CWBS element were successfully accomplished.

c. Technical Performance Tracking. This section shall describe the set of TPMs, TPIs, and all other technical measurement activities, including metrics, for the program used to provide insight into the requirements, risks, and progress of the technical solution that will be provided. The TPMs, TPIs, and other technical measurements shall include definitions and descriptions of measures used to assess design progress, compliance to performance requirements, and how well the system is satisfying or expected to satisfy technical requirements or goals as well as projected performance with design margins and tolerance bands of acceptable variance. Impacts of changes in design margins or the variance of TPMs, TPIs, and other technical measurements shall be quantified in terms of cost, schedule, risk, and technical performance. The TPMs, TPIs, metrics, and all other measures shall be updated and reported in the regular metrics reports on the IDE and at other metrics reporting events. This section shall include:

1. The identification of technical performance characteristics and technical program achievement parameters for each of the identified work elements of the CWBS. Those parameters proposed for routine reporting shall be denoted.
2. The methods, equations, or models for transforming parameter values of lower-level elements to that of higher-level elements and their sensitivities.
3. A planned profile for each of the parameters, the profile being an anticipated and time-phased variation, if any, for this parameter during the design, development, fabrication, assembly, and testing period. Events significant to the technical performance measurement shall be noted on these profiles.
4. A description of productivity metrics, including any associated TPMs, TPIs, and metrics, and how they are used to provide indicators that accurately and continuously assess progress and other factors in areas such as system design, software development, security accreditation, productivity and process improvement, subcontractor performance, testing, training, integration, certification, production, and fielding.
5. A description of the means by which TPMs, TPIs, and any other technical measurements are related to cost and schedule performance measurement including highlighting the TPMs and/or TPIs with their related CWBS element (work package/task/subtask, etc.) in the Integrated Master Schedule (IMS) and showing how they are reflected in the Earned Value Measurement System (EVMS) especially how they are linked to the Cost Performance Indicator (CPI) and Schedule Performance Indicator (SPI).
6. For each TPM and TPI, the planned value profile, the planned value, demonstrated value, specification requirement, current estimate, and variance analysis is reported at regular intervals (e.g., monthly, at the planning and completion of work packages, when requested by the Government).

7. A proposed compilation of the technical performance report(s) through which reporting shall be accomplished. This compilation shall denote whether one report shall be used for all reportable parameters or whether separate reports shall be employed on a subsystem or individual parameter basis or combinations thereof.

d. Continuous Technical Risk and Opportunity Management. This section shall describe the specific program technical issues and risks and opportunities as well as the process for continuous technical risk and opportunity management. This section shall specifically identify and prioritize all technical and programmatic risks that affect the design, development, documentation, integration, test, evaluation, certification, production, fielding, or support of the product. The discussion of program technical and programmatic risks shall include the risk mitigation approaches for each risk as well as the trigger points that determine when the mitigation approach would be set in motion in order to preserve or minimize adverse impacts to program cost, schedule, and technical performance. This section shall describe who has responsibility and authority for managing the technical issues and risks as well as the TPMs and TPIs that will be used to measure the progress or success of risk mitigation activities. The technical risks and opportunities as well as mitigation approaches and trigger points shall be updated and reported in the Risk Management Reports.

e. Engineering Program Integration. This section shall describe the contractor's proposed technical program planning and control functions for assuring the conduct of a totally integrated engineering effort.

f. Contract Work Breakdown Structure and Specification Tree. This section shall describe the manner in which the contractor's system engineering management shall develop the technical elements of the contract work breakdown structure (CWBS) and how the inclusion of other contractual tasks required to form a complete CWBS shall be assured. The contractor shall develop a specification tree (not limited to contractual specifications that relates to the CWBS).

g. Assignment of Responsibility and Authority. This section shall identify the proposed organization(s) and key personnel for each of the technical elements of the CWBS, clear definition of their responsibilities, the vehicles or documents used to state these assignments, and their standards or measures of accomplishment. Existing and proposed procedures establishing the authority, lines of communication, and specific functions of these and other organizations associated with engineering policies and their implementation shall be referenced or attached. This section shall include projections of engineering effort, work authorization, and work products required. This section shall also include organizational responsibilities and authorities for systems engineering management as well as the overall decision, control, and review boards or processes. The organizational discussion shall include organizations assigned WBS responsibilities, matrixed organizations and their responsibilities, product line relationships and responsibilities, lines of communication and authorities for all functions (e.g., software) operating across IPTs as well as product lines, etc., and descriptions of interactions of matrix, IPT, and product line teams with the Chief or Project Lead Systems Engineer function.

h. Program Reviews. This section shall describe the manner in which the contractor's program reviews shall assess, re-optimize, and redirect the technical program effort during the course of the contractual effort.

i. Design Reviews. This section shall set forth the contractor's plan and schedule for all design reviews required under terms of the contract. The Design Readiness Review (DRR) shall be used as the opportunity prior to formal Critical Design Review to conduct in-depth technical reviews of the design and development approaches. The design review shall include Government stakeholders as well as independent subject matter experts. The successful completion of design reviews shall be one of the entrance criteria for entering the formal design reviews. Design review entrance and exit criteria shall be included in this SEMP as well as entrance and exit criteria for the formal design reviews. Entrance and exit criteria shall be directly related to product, process, and documentation completion and readiness appropriate for the level of formal design review to be conducted. This section shall describe what kinds of documentation shall be provided prior to and at the various design reviews, how this data relates to other contractually required data (e.g., technical manuals, drawings, specifications, software/firmware documentation, user manuals) and how all these final products relate to each other. The total documentation release system shall be discussed including signoff. Schedule information and items shall be included in the contractors Integrated Master Schedule (IMS).

j. Interface Control. This section shall describe the contractor's procedures for interface control of the contracted segment with other system segments performed by other system participants including the Government agencies who furnish equipment, facilities, software, information, and personnel.

k. Engineering Testing. This section shall identify what engineering efforts shall be accomplished leading to the contractual system test documentation. This section shall also include a discussion of test engineering effort not included in other contractual documentation.

l. Other Technical Program Planning and Control Tasks. This section shall describe the contractor's plans, procedures, and processes for other technical program planning and control tasks to be accomplished in this program. These task shall include any external organization testing as well as all certification type events.

Part III – Engineering Integration. This part of the SEMP shall describe the methods by which the contractor proposes to integrate the engineering efforts. It shall include a summary of each specialty program and cross reference the individual plans covering such specialty programs. Engineering specialty integration shall be discussed as well as the relationship of the engineering with the overall logistic efforts, including fault isolation methods (automatic, semiautomatic, manual) and their documentation, and how support equipment is identified. This integration information may use references or hot links to the IMP to illustrate the relationships and mappings as appropriate.

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MMP Upgrade		E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR										
1. DATA ITEM NO. B014	2. TITLE OF DATA ITEM Security Verification Plan and Procedures				3. SUBTITLE		17								
4. AUTHORITY (Data Acquisition Document No.) DI-QCIC-90021B		5. CONTRACT REFERENCE SOW 3.0 / TSRD paragraph 16			6. REQUIRING OFFICE 639 ELSS		18. ESTIMATED TOTAL PRICE								
7. DD 250 REQ DD	9. DISTRIBUTION STATEMENT REQUIRED See Block 16	10. FREQUENCY R/ASR	12. DATE OF FIRST SUBMISSION SEE BLOCK 16		14. DISTRIBUTION										
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MMP Upgrade			E. CONTRACT/PR NO. CONTRACT #		F. CONTRACTOR CONTRACTOR				
1. DATA ITEM NO. B016		2. TITLE OF DATA ITEM TEMPEST Test Plan				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.) DI-EMCS-90000A		5. CONTRACT REFERENCE SOW 3.0 / TSRD paragraph 23b				6. REQUIRING OFFICE 639 ELSS			
7. DD 250 REQ DD		9. DISTRIBUTION STATEMENT REQUIRED See Block 16		10. FREQUENCY R/ASR		12. DATE OF FIRST SUBMISSION SEE BLOCK 16			
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MMP Upgrade		E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR														
1. DATA ITEM NO. B017		2. TITLE OF DATA ITEM TEMPEST Test Report			3. SUBTITLE														
4. AUTHORITY (Data Acquisition Document No.) DI-EMCS-90001A		5. CONTRACT REFERENCE SOW 3.0 / TSRD paragraph 23c			6. REQUIRING OFFICE 639 ELSS														
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1. DATA ITEM NO. B018		2. TITLE OF DATA ITEM Configuration Control Documentation				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-90072		5. CONTRACT REFERENCE SOW 3.0 / TSRD paragraph 18				6. REQUIRING OFFICE 639 ELSS			
7. DD 250 REQ DD		9. DISTRIBUTION STATEMENT REQUIRED See Block 16		10. FREQUENCY R/ASR		12. DATE OF FIRST SUBMISSION SEE BLOCK 16			
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MMP Upgrade		E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR		
1. DATA ITEM NO. B022		2. TITLE OF DATA ITEM Key Management Plan				3. SUBTITLE	
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-90019B		5. CONTRACT REFERENCE SOW 3.0 / TSRD paragraph 14a			6. REQUIRING OFFICE 639 ELSS		17 <small>18. ESTIMATED TOTAL PRICE</small>
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1. DATA ITEM NO. B026		2. TITLE OF DATA ITEM Security Production Assurance				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)		5. CONTRACT REFERENCE SOW 3.0 / TSRD paragraph 28				6. REQUIRING OFFICE 639 ELSS			
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1. DATA ITEM NO. B034		2. TITLE OF DATA ITEM Software Version Description				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.) DI-IPSC-81442A		5. CONTRACT REFERENCE SOW 3.0 / TSRD paragraph 21f				6. REQUIRING OFFICE 639 ELSS			
7. DD 250 REQ DD		9. DISTRIBUTION STATEMENT REQUIRED See Block 16		10. FREQUENCY R/ASR		12. DATE OF FIRST SUBMISSION SEE BLOCK 16			
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1. DATA ITEM NO. B036		2. TITLE OF DATA ITEM Specification Change Notice						3. SUBTITLE SEE BLOCK 16						17
4. AUTHORITY (Data Acquisition Document No.) CMP PRIME 00193				5. CONTRACT REFERENCE SOW 3.0				6. REQUIRING OFFICE 639 ELSS						
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16. REMARKS Block 3: 1. Specification, two part CI Part I Dev/Qual SCN, 2. Specification, two part CI Part II Prod/Accept/Mod SCN, 3. Software Product Specifications SCN and Updates 4. Software Design Document SCN and Updates, 5. Software Requirements Specifications SCN and Updates, 6. Software Version Description Document SCN and Updates. Block 9: Distribution authorized to U.S. Government Agencies only. Other requests for this document shall be referred to 653 ELSG/PK, 5 Eglin Street, Bldg 1624, Hanscom AFB, MA 01731-2100, Attn: MMP Upgrade PCO. The contractor will submit a transmittal letter to 653 ELSG/PK stating the final reports for each CDRL have been submitted to the Government. Contractor format is acceptable. WARNING: This document contains technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C., Sec 2751 et seq.) or Executive Order 12470. Violation of these export-control laws is subject to severe criminal penalties. Dissemination of this document is controlled under DODD 5230.25 and AFI 61-204. DESTRUCTION NOTICE: For classified documents, follow the procedures in DoD 5220.22-M, National Industrial Security Program Operating Manual, Chapter 5, Section 7, pp 5-704, or DoD 5200.1-R, Information Security Program, Chapter 6. For unclassified, limited documents, destroy by any method that will prevent disclosure of contents or reconstruction of the document. Blks 12-13: SCN and Change Page to Part I Specification 30 Days prior to Preliminary Design Review, SCN and change page to Part II Specification 30 days prior to Critical Design Review. As required between Critical Design Review and Functional Configuration Audit/Physical Configuration Audit. Final 30 days after PCA. SCN will be done IAW Prime CMP 00193. Specification Change Pages will be done IAW MIL-STD-490 and the format of the existing specification. (Microsoft Word format) Documents to be available via on-line access to contractor's website. Electronic delivery will be acceptable until website delivery is available. Block 14: Data to be provided electronically in Microsoft Word, or other format as mutually agreed upon.									639 ELSS					
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MMP Upgrade		E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR			
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4. AUTHORITY (Data Acquisition Document No.)		5. CONTRACT REFERENCE SOW 3.0 / TSRD paragraph 14b			6. REQUIRING OFFICE 639 ELSS			18. ESTIMATED TOTAL PRICE
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MMP Upgrade		E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR														
1. DATA ITEM NO. B042		2. TITLE OF DATA ITEM Installation Test Procedures			3. SUBTITLE														
4. AUTHORITY (Data Acquisition Document No.) DI-QCIC-80511		5. CONTRACT REFERENCE SOW 3.0			6. REQUIRING OFFICE 639 ELSS														
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MMP Upgrade			E. CONTRACT/PR NO. CONTRACT #		F. CONTRACTOR CONTRACTOR				
1. DATA ITEM NO. B043		2. TITLE OF DATA ITEM Nuclear Survivability Assurance Plan				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.) DI-NUOR-80926		5. CONTRACT REFERENCE SOW 3.0				6. REQUIRING OFFICE 639 ELSS			
7. DD 250 REQ DD		9. DISTRIBUTION STATEMENT REQUIRED See Block 16		10. FREQUENCY R/ASR		12. DATE OF FIRST SUBMISSION See Block 16			
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						Draft		Reg	
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						639 ELSS			
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MMP Upgrade			E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR					
1. DATA ITEM NO. B044		2. TITLE OF DATA ITEM Provisional Technical Documentation				3. SUBTITLE				17	
4. AUTHORITY (Data Acquisition Document No.) DI-ILSS-81557/T			5. CONTRACT REFERENCE SOW 3.0			6. REQUIRING OFFICE 639 ELSS					
7. DD 250 REQ DD		9. DISTRIBUTION STATEMENT REQUIRED See Block 16		10. FREQUENCY R/ASR		12. DATE OF FIRST SUBMISSION See Block 16		14. DISTRIBUTION			
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MMP Upgrade			E. CONTRACT/PR NO. CONTRACT #		F. CONTRACTOR CONTRACTOR				
1. DATA ITEM NO. B046		2. TITLE OF DATA ITEM Reliability Prediction and Documentation of Supporting Data				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.) DI-RELI-81497		5. CONTRACT REFERENCE SOW 3.0				6. REQUIRING OFFICE 639 ELSS			
7. DD 250 REQ DD		9. DISTRIBUTION STATEMENT REQUIRED See Block 16		10. FREQUENCY R/ASR		12. DATE OF FIRST SUBMISSION See Block 16			
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MMP Upgrade		E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR					
1. DATA ITEM NO. B047	2. TITLE OF DATA ITEM Government Industry Data Exchange Program (GIDEP)				3. SUBTITLE		17			
4. AUTHORITY (Data Acquisition Document No.) DI-QCIC-80125B		5. CONTRACT REFERENCE SOW 3.0			6. REQUIRING OFFICE 639 ELSS					
7. DD 250 REQ DD	9. DISTRIBUTION STATEMENT REQUIRED See Block 16	10. FREQUENCY R/ASR	12. DATE OF FIRST SUBMISSION See Block 16		14. DISTRIBUTION					
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1. DATA ITEM NO. B048		2. TITLE OF DATA ITEM Contract Funds Status Report			3. SUBTITLE				
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81468		5. CONTRACT REFERENCE SOW 3.0			6. REQUIRING OFFICE 639 ELSS				
7. DD 250 REQ DD		9. DISTRIBUTION STATEMENT REQUIRED See Block 16		10. FREQUENCY QRTLY		12. DATE OF FIRST SUBMISSION See Block 16			
8. APP CODE		11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION See Block 16		14. DISTRIBUTION			
16. REMARKS Block 4: The Contractor shall provide the CFSR using the CLINs and/or SubCLINs in Section B of the contract. The Contractor shall provide a reconciliation to the CPR data. Block 9: Distribution authorized to U.S. Government Agencies only. Other requests for this document shall be referred to 653 ELSG/PK, 5 Eglin Street, Bldg 1624, Hanscom AFB, MA 01731-2100, Attn: MMP Upgrade PCO. The contractor will submit a transmittal letter to 653 ELSG/PK stating the final reports for each CDRL have been submitted to the Government. Contractor format is acceptable. Blks 12-13: First submission is due NLT ninety (90) calendar days after contract award. Subsequent submissions are due quarterly thereafter. Documents to be available via on-line access to contractor's website. Electronic delivery will be acceptable until website delivery is available. Block 14: Data to be provided electronically in Microsoft Word, or other format as mutually agreed upon.						b. COPIES			
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MMP Upgrade			E. CONTRACT/PR NO. CONTRACT #		F. CONTRACTOR CONTRACTOR																		
1. DATA ITEM NO. B050		2. TITLE OF DATA ITEM Manufacturing Quality System			3. SUBTITLE																		
4. AUTHORITY (Data Acquisition Document No.) ASQC-Q9001, DI-QCIC-81379		5. CONTRACT REFERENCE SOW 3.0			6. REQUIRING OFFICE 639 ELSS		17 <small>18. ESTIMATED TOTAL PRICE</small>																
7. DD 250 REQ DD		9. DISTRIBUTION STATEMENT REQUIRED See Block 16		10. FREQUENCY R/ASR		12. DATE OF FIRST SUBMISSION See Block 16																	
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16. REMARKS <p>Block 4: additional industry or equivalent contractor standards: ANSI-J- STD-001C, Class III, Acceptability of soldering, IPC-A-600G, Class III, Acceptability of Printed Boards, IPC-A-610C, Class III, Acceptability of Electronic Assemblies, Contractor shall flow down Quality requirements except MRB to their suppliers & sub-contractors.</p> <p>Block 9: Distribution authorized to U.S. Government Agencies only. Other requests for this document shall be referred to 653 ELSG/PK, 5 Eglin Street, Bldg 1624, Hanscom AFB, MA 01731-2100, Attn: MMP Upgrade PCO. The contractor will submit a transmittal letter to 653 ELSG/PK stating the final reports for each CDRL have been submitted to the Government. Contractor format is acceptable.</p> <p>Blks 12-13: The quality system plans will be submitted NLT 90 days before PRR, with an update to incorporate government comments 30 days before PRR. Drafts of these documents should be submitted 60 days before planned approval to permit 30 days for government review and comment, and 30 days for incorporation of government comments before final submittal. Documents to be available via on-line access to contractor's website. Electronic delivery will be acceptable until website delivery is available.</p> <p>Block 14: Data to be provided electronically in Microsoft Word, or other format as mutually agreed upon.</p>						639 ELSS																	
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MMP Upgrade			E. CONTRACT/PR NO. CONTRACT #		F. CONTRACTOR CONTRACTOR						
1. DATA ITEM NO. B052		2. TITLE OF DATA ITEM Systems Requirement/Design Constraint Analysis (SRA)			3. SUBTITLE Contractors DOORs database						
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE SOW 3.0		6. REQUIRING OFFICE 639 ELSS						
7. DD 250 REQ DD		9. DISTRIBUTION STATEMENT REQUIRED See Block 16		10. FREQUENCY R/ASR		12. DATE OF FIRST SUBMISSION ASREQ					
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MMP Upgrade			E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR																				
1. DATA ITEM NO. B053		2. TITLE OF DATA ITEM Failure Modes Effects & Criticality Analysis (FMECA)				3. SUBTITLE				17																
4. AUTHORITY (Data Acquisition Document No.) DI-RELI-81315			5. CONTRACT REFERENCE SOW 3.0			6. REQUIRING OFFICE 639 ELSS																				
7. DD 250 REQ DD		9. DISTRIBUTION STATEMENT REQUIRED See Block 16		10. FREQUENCY R/ASR		12. DATE OF FIRST SUBMISSION ASREQ		14. DISTRIBUTION																		
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MMP Upgrade			E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR												
1. DATA ITEM NO. B056		2. TITLE OF DATA ITEM Executable Code				3. SUBTITLE				17								
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE SOW 3.0			6. REQUIRING OFFICE 639 ELSS												
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MMP Upgrade		E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR								
1. DATA ITEM NO. B057	2. TITLE OF DATA ITEM NH&S Design Analysis Report (DAR)				3. SUBTITLE		17						
4. AUTHORITY (Data Acquisition Document No.) DI-ENVR-80266/T		5. CONTRACT REFERENCE SOW 3.0		6. REQUIRING OFFICE 639 ELSS		18. ESTIMATED TOTAL PRICE							
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MMP Upgrade			E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR				
1. DATA ITEM NO. B058		2. TITLE OF DATA ITEM NH&S Hardness Data Manual (HDM) SAC/CEM				3. SUBTITLE				
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE SOW 3.0			6. REQUIRING OFFICE 639 ELSS				
7. DD 250 REQ DD		9. DISTRIBUTION STATEMENT REQUIRED See Block 16		10. FREQUENCY R/ASR		12. DATE OF FIRST SUBMISSION SEE BLOCK 16		14. DISTRIBUTION		
8. APP CODE				11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16		b. COPIES		
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MMP Upgrade		E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR								
1. DATA ITEM NO. B060	2. TITLE OF DATA ITEM Parts, Materials, and Process Plan				3. SUBTITLE		17						
4. AUTHORITY (Data Acquisition Document No.) MIL-STD-965/513		5. CONTRACT REFERENCE SOW 3.0			6. REQUIRING OFFICE 639 ELSS		<small>18. ESTIMATED TOTAL PRICE</small>						
7. DD 250 REQ DD	9. DISTRIBUTION STATEMENT REQUIRED	10. FREQUENCY R/ASR	12. DATE OF FIRST SUBMISSION SEE BLOCK 16		14. DISTRIBUTION								
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MMP Upgrade		E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR		
1. DATA ITEM NO. B062		2. TITLE OF DATA ITEM Program Approved Parts List (PAPL)				3. SUBTITLE	
4. AUTHORITY (Data Acquisition Document No.)		5. CONTRACT REFERENCE SOW 3.0			6. REQUIRING OFFICE 639 ELSS		
7. DD 250 REQ DD		9. DISTRIBUTION STATEMENT REQUIRED See Block 16		10. FREQUENCY R/ASR		12. DATE OF FIRST SUBMISSION See Block 16	
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MMP Upgrade		E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR								
1. DATA ITEM NO. B064	2. TITLE OF DATA ITEM System Safety Program Plan				3. SUBTITLE		17						
4. AUTHORITY (Data Acquisition Document No.) MIL-STD 882C, DI-SAFT-80101B		5. CONTRACT REFERENCE SOW 3.0			6. REQUIRING OFFICE 639 ELSS		18. ESTIMATED TOTAL PRICE						
7. DD 250 REQ DD	9. DISTRIBUTION STATEMENT REQUIRED See Block 16	10. FREQUENCY R/ASR	12. DATE OF FIRST SUBMISSION See Block 16		14. DISTRIBUTION								
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MMP Upgrade		E. CONTRACT/PR NO. CONTRACT #		F. CONTRACTOR CONTRACTOR			
1. DATA ITEM NO. B065	2. TITLE OF DATA ITEM Safety Assessment Report with Safety Hazard Analysis Report and Hazard List			3. SUBTITLE			17
4. AUTHORITY (Data Acquisition Document No.) MIL-STD 882C, DI-SAFT-80102B		5. CONTRACT REFERENCE SOW 3.0		6. REQUIRING OFFICE 639 ELSS			18. ESTIMATED TOTAL PRICE
7. DD 250 REQ DD	9. DISTRIBUTION STATEMENT REQUIRED See Block 16	10. FREQUENCY R/ASR	12. DATE OF FIRST SUBMISSION See Block 16		14. DISTRIBUTION		
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MMP Upgrade		E. CONTRACT/PR NO. CONTRACT #			F. CONTRACTOR CONTRACTOR								
1. DATA ITEM NO. B068	2. TITLE OF DATA ITEM Support Equipment Recommendation Data				3. SUBTITLE		17						
4. AUTHORITY (Data Acquisition Document No.) DI-ALSS-81529		5. CONTRACT REFERENCE SOW 3.0			6. REQUIRING OFFICE 639 ELSS		18. ESTIMATED TOTAL PRICE						
7. DD 250 REQ DD	9. DISTRIBUTION STATEMENT REQUIRED See Block 16	10. FREQUENCY R/ASR		12. DATE OF FIRST SUBMISSION ASREQ		14. DISTRIBUTION							
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Air Force Technical Manual Contract Requirements (TMCR)
for
MMP Upgrade Program

ATTACHMENT 1, TO CDRL SEQUENCE NUMBER 69, EXHIBIT

REQUEST FOR PROPOSAL/CONTRACT: Solicitation #FA8726-07-R-0018

Date: 13 June 2007

Technical Manual/Technical Order requirements contained herein have been cleared for use by OMB Paperwork
Reduction Project No. 0704-0188.

.751.SECTION 1. TECHNICAL ORDER (TO) PROGRAM REQUIREMENTS

1. **TMCR Tailoring.** Offeror MUST tailor this TMCR document, including the associated tables, matrices and Specification/Standard Interface Records (SIRs). The tailored TMCR shall be attached to the CDRL for TO delivery, and shall be included in the proposal as a separate exhibit, referenced in the proposal SOW. Proposals shall be compatible with the Air Force infrastructure and support the MMP Upgrade Program's Integrated Data System (IDS) requirements located in SOW paragraphs 3.7.5 and 4.2.4. Air Force TO Acquisition procedures, including procedures for tailoring this document, are found in TO 00-5-3, located on the World Wide Web (WWW) at <http://www.ide.wpafb.af.mil/toprac/to-syste.htm>, under the link to "Digital Technical Orders." Any terms or procedures found in this document may be researched there.

2. **TO Program Scope.** The Contractor shall provide TO change pages, new TOs and Time Compliance Technical Orders (TCTOs) as shown in Section 2 using the TO types (Table 1) and source data, and commercial manuals required to support the MMP Upgrade program's objectives.

3. **Commercial Manuals.** The Contractor shall propose the use of existing commercial manuals to the maximum extent possible without impairing program support objectives. The proposal will describe the method used to recommend and submit specific manuals to the government for review and approval.

NOTES: a) The contractors may use Data Item Description (DID) DI-TMSS-80067, *Technical Manual (TM) The contractor Furnished Aeronautical Equipment or The contractor Furnished Equipment (CFAE/CFE) Notices* (located at <http://dodssp.daps.dla.mil/assist.htm>), to provide recommendation data. b) Government activities will use MIL-PRF-32216, *Evaluation of Commercial Off-The-Shelf (COTS) Manuals and Preparation of Supplemental Data*, as a guide for review and acceptance of all recommended commercial manuals, and MIL-DTL-7700, *Detail Specification: Flight Manuals, Air Refueling Procedures, And Abbreviated Checklists*, as an additional guide for commercial Flight Manual contents.

4. **Technical Manual Specifications and Standards (TMSS) Tailoring.** TMSS are tailored by selecting between options offered in para 6.2 of each TMSS. The tailoring is recorded in SIRs and added to Section 3 of this document for each TMSS required. **NOTE:** Tailoring must not change or delete mandatory requirements which are part of the Document Type Definition (DTD) structure.

4.1. AF options in some Joint-Service TMSS have been documented in preliminary SIRs included in Section 3. These preliminary SIRs provide the starting point for further tailoring. Offerors shall complete tailoring of the Joint-Service TMSS SIRs and provide recommended SIRs for other TMSS or NGS as applicable. **NOTE:** TMSS requirements marked "(F)" are specifically for Air Force use; "(A)" is for Army, "(M)" is Marine Corps and "(N)" is Navy. Comply with all unmarked and "(F)" TMSS requirements as modified by the options in paragraph 6.2.

4.2. Questions concerning TMSS requirements may be resolved by written request and justified suggestions for resolution submitted through the PCO and Linda Miller, 526 ICBMSW/ENV, 6054 Dogwood Ave Bldg. 1255, Hill AFB, UT 84056-5816, (801) 775-4297 or Lauri Downey, 526 ICBMSW/ENV, 6054 Dogwood Ave Bldg, 1255, Hill AFB, UT 84056-5816 (801) 775-2231. Deficiencies and suggested improvements shall be submitted to the TMSS Preparing Activity (PA). Approved recommendations, corrections and clarifications will be maintained with contract documentation.

5. Subsequent TO/Data Requirements. The Contractor shall notify the government in writing when additional TO or source data requirements are identified subsequent to contract award. This process shall require government review and approval of recommended additional requirements prior to contractual approval. **NOTE:** The recommended notification process is to use CFAE/CFE Notices (DI-TMSS-80067).

6. TO Development. The Contractor shall adhere TO development practices and procedures that ensure TOs and data are compatible with the Air Force Technical Order Concept of Operations (CONOPS) (<http://www.ide.wpafb.af.mil/toprac/polinfo.htm>) and the Air Force Standard TO Management System. In addition, TOs shall be written to a scope and depth of coverage sufficient to support the operations and maintenance concepts, and to the Reading Grade Level (RGL) specified in MIL-STD-38784, *Standard Practice for Manuals, Technical: General Style and Format Requirements*.

6.1. Page-oriented Military Specification (MILSPEC) TOs shall be formatted with text, graphics and delivery according to the TMSS specified in Section 2, to the maximum extent practical.

7. TO Numbering. The Contractor shall notify the government of manuals which require TO numbers. TO numbers are not required for manuals to be used exclusively by the contractor personnel. (**NOTE:** DI-TMSS-80067 may be used to provide the notification.)

8. Data Rights. Government rights in data are specified in the Defense Federal Acquisition Regulation Supplement (DFARS), paragraphs 227-7102 through 227-7104, located (*enter the RFP location containing the applicable DFARS paragraphs*). The Contractor shall propose Unlimited Rights for all source data and TOs prepared specifically for the contract.

8.1. If some TOs or source data are copyrighted or contain proprietary data or procedures, the contractor may propose Limited Rights or Government Purpose License Rights (GPLR) only. Proposed commercial manuals should be provided with at least GPLR or Limited Rights. Copyrights shall be according to DFARS paragraphs 227-7103, 7105 or 7106.

9. Classification, Distribution, Destruction, Disclosure, and Export Control Notices. The Contractor shall determine the correct markings and controls for classified and restricted distribution data and TOs IAW the program's Security Classification Guide (SCG) and DOD 5200.1-R, DODD 5230.24, AFI 21-303, 31-401 and 61-204, and MIL-STD-38784. The markings and notices shall be reviewed during In-Process Reviews (IPR). **NOTE:** Distribution limitations will be determined on a case-by-case basis as TOs are developed, dependent upon TO content.

10. TO Quality. The Contractor shall conduct TO validation. Validation is a contractor quality assurance program which ensures TOs are prepared IAW this contract. QA methods include actual performance of procedures and use of desk-top analysis for non-procedural data. Simulation (walk-through/talk-through) should be reserved for those procedures which would activate explosive devices or present a hazard to personnel or equipment. The contractor's proposal shall include personnel and equipment support as required to support TO validation. **NOTE:** Quality requirements for the Joint Nuclear Weapons Publications System (JNWPS) and for Non-nuclear Explosive Ordnance Disposal (EOD) Data are contained in TO 11N-1-1 and DOD Directive 5160.62, respectively. The government performance-tests all JNWPS and EOD TOs.

10.1. Conferences and Technical Reviews. The Contractor shall conduct the following required TO conferences and reviews. An initial Technical Order Guidance Conference will be conducted within 60 days of contract award to ensure mutual understanding of TO contract requirements, schedules, points of contact, etc. Periodic In-Process Reviews (IPRs) and Prepublication Reviews (PPR) will be conducted to ensure TOs are being developed according to contract requirements and that open discrepancies are cleared prior to publication. These are normally held at the UTC1 facility in Clearfield, Utah; however, may be held at other locations to facilitate the most cost effective utilization of resources for the government. The IPRs will be held at approximately the 35% and 80% T.O. development milestones. The PPR will be after verification but prior to final delivery to government. The PPR will be the final review prior to delivery to the government and is intended to ensure that all required comments and changes identified at verification are incorporated. Any new technical changes identified at the PPR could result in re-accomplishment of T.O. Verification.

NOTE: PPRs are required for critical safety and nuclear surety procedures TOs, and may be required for other complex procedures TOs.

10.2. TO Certification. The Contractor will validate new T.O.s and T.O. changes through a formal validation process that will involve as near to 100% hands-on as possible prior to Verification.

10.3. Verification Support. The responsible contractor technical writer or technical lead within the T.O. development team will support T.O. verification as required by the contractor to resolve any T.O. problems and note government comments for incorporation by the contractor before the PPR.

11. TO and Source Data Maintenance. The contractor shall maintain the accuracy, currency and configuration of TOs and source data throughout the contract period of performance. Maintenance includes preparation of TO and source data updates to incorporate corrections, equipment configuration changes, and maintenance and operational concept changes.

12. TO Delivery. The contractor shall provide secure access to or delivery of digital TO files, including those for Preliminary TOs (PTOs), source data, reproduction masters, and program support data. Practices and procedures shall be compatible with the program's IDS (ref SOW paragraphs 3.7.5 and 4.2.4). TO file delivery formats shall be according to applicable CDRLs and the tailored TM Delivery Requirements Matrices included in Section 2 of this document. Paper TO delivery is not acceptable for final delivery of TOs. **EXCEPTION:** For Commercial Manuals not available digitally.

13. Schedules. Delivery dates of all T.O. changes/source data/COTS Manuals shall be in accordance as specified in the contractor Integrated Master Schedule. **NOTE:** AF policy requires delivery of verified TOs prior to or concurrently with delivery of operational equipment to the field (AFI 21-303). This policy will determine TO development and delivery schedules throughout the acquisition phase of a program.

14. Time Compliance Technical Orders (TCTOs). The Contractor shall develop TCTOs and related TO updates when tasked as part of the approval process for Engineering Change Proposals (ECPs) to configured items. Costs for TCTO package development must be included in ECP Costs – not included as direct proposal costs. **NOTE:** ECPs are reviewed and approved by the Government's Configuration Control Board (CCB). When the CCB decides that a TCTO is the appropriate method of implementation, the contractor may be requested to develop the TCTO package for Air Force coordination and approval. See TO 00-5-15 (available under the link to "Digital Technical Orders" at <http://www.ide.wpafb.af.mil/toprac/to-syste.htm>) for a detailed description of TCTO processes.

15. TO Reproduction Management. Deleted

SECTION 2. TM TYPE AND DELIVERY REQUIREMENTS

NOTES:

- Mark the TM Type Selection Tables indicating the applicable TO types and related specifications. For additional interface requirements see the program-specific Government Concept of Operations (GCO).
- All page-based TOs developed under this contract must conform to the general style and format requirements of MIL-STD-38784; IETMs must conform to MIL-PRF-87268 and MIL-PRF-87269.
- Check the ASSIST database, <http://dodssp.daps.dla.mil/assist.htm>, for updated versions of the required TMSS prior to initiating any work on this proposal/ contract.
- Manuals delivered using this table and DI-TMSS-80067, CFAE/CFE Notices, must be reviewed and approved by the Air Force prior to delivery.
- IPBs are developed IAW MIL-PRF-38807, except that MIL-DTL-87929 will also be used for IPBs combined with work packages.
- All checklists, except aircrew and nuclear weapons checklists, are developed IAW MIL-PRF-5096.
- MIL-PRF-83495 requires MIL-HDBK-863 requirements to be levied on engineering data for preparation of end item wiring data and schematic diagrams.
- Delivery requirements are indicated in the TM Delivery Requirements matrices.
- For further information on the Air Force Vision and TO Concept of Operations (CONOPS), see URL <http://www.ide.wpafb.af.mil/toprac/polinfo.htm>.

PART A – TM TYPE SELECTION TABLES.

TABLE 1
TMSS REQUIREMENTS FOR THE MMP UPGRADE Program
AEHF

Title or Type of Manuals	Specification	Required
1. List of Applicable Publications	MIL-PRF-8031	<input checked="" type="checkbox"/>
2. Work Unit Code Manual	MIL-PRF-38769	<input checked="" type="checkbox"/>
3. Time Compliance Technical Orders (TCTOs)	MIL-PRF-38804	<input checked="" type="checkbox"/>
4. Illustrated Parts Breakdown	MIL-PRF-38807	<input checked="" type="checkbox"/>
5. Operation and Maintenance Instructions	MIL-STD-38784	
a. Maintenance Manuals		
(1) Intermediate Maintenance		<input checked="" type="checkbox"/>
(2) Depot Maintenance		<input checked="" type="checkbox"/>
b. Operation & Maintenance Instruction Manuals		<input checked="" type="checkbox"/>
6. Commercial Manuals (Evaluate according to MIL-PRF-32216)		<input checked="" type="checkbox"/>

TABLE 2
ADDITIONAL TM TYPE SELECTIONS

NOTES:

- Check all applicable boxes.
- For commercial manual supplemental data only, under the specification heading, enter “Same style and format,” “MIL-PRF-38807” (for IPB data), or “MIL-STD-38784.”
- For existing MIL-SPEC manuals not being updated to latest specification requirements, enter “Same style and format” under the specification heading.
- For manuals proposed to NGS, list the type of manual in the appropriate column and the NGS in the Specification column. Manuals proposed to an approved NGS shall meet the functional requirements of the approved TMSS for the TO type, e.g., OMMS prepared to S1000D shall meet the requirements of MIL-PRF-83495 (which set the CONTRACTOR as business rules for manual style, format, and content).

TO Number, Title, or Type of Manual	Specification	Com- mercial Manual	Change/ Revision	Supple- ment	Supple- mental TM	Source Data
1. 31R2-2G-01	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. 31R2-2G-402	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. 31R2-2G-403	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. 33A1-15-94-1	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. 33A1-15-94-8-1	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. 33D7-50-1978-1	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. 33D7-50-1978-8-1	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. 21M-LGM30F-01	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. 21M-LGM30F-06-4	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. 21M-LGM30F-1-23	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. 21M-LGM30F-1-23-1	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. 21M-LGM30F-2-5-2	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13. 21M-LGM30F-2-5-5	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14. 21M-LGM30F-2-5-9	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

15.	<u>21M-LGM30F-2-5-13</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16.	<u>21M-LGM30F-4-1</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17.	<u>21M-LGM30F-4-2</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18.	<u>21M-LGM30F-4-3</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
19.	<u>21M-LGM30F-22-14-1</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
20.	<u>21M-LGM30F-22-14-3</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21.	<u>21M-LGM30G-1-1</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22.	<u>21M-LGM30G-1-22</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
23.	<u>21M-LGM30G-1-24</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
24.	<u>21M-LGM30G-1-24-1</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
25.	<u>21M-LGM30G-2-7-8</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
26.	<u>21M-LGM30G-2-7-9</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
27.	<u>21M-LGM30G-2-7-10</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
28.	<u>21M-LGM30G-2-7-11</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
29.	<u>21M-LGM30G-2-7-12</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
30.	<u>21M-LGM30G-2-7-13</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
31.	<u>21M-LGM30G-2-10</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
32.	<u>21M-LGM30G-2-10-1</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
33.	<u>21M-LGM30G-2-11</u>	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

34.	<u>21M-LGM30G-2-11-1</u>	<u>Same style and format</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
35.	<u>21M-LGM30G-2-12-4</u>	<u>Same style and format</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
36.	<u>21M-LGM30G-2-21-3</u>	<u>Same style and format</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
37.	<u>21M-LGM30G-2-21-5</u>	<u>Same style and format</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
38.	<u>21M-LGM30G-2-21-6</u>	<u>Same style and format</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
39.	<u>43D2-3-100-1</u>	<u>Same style and format</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40.	<u>New User's Guide TO</u>	<u>MIL-STD-38784</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
41.	<u>MAF Hardware Record TCTO</u>	<u>MIL-PRF-38804</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
42.	<u>MAF Software Record TCTO</u>	<u>MIL-PRF-38804</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
43.	<u>Trainer Hardware Record TCTO</u>	<u>MIL-PRF-38804</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
44.	<u>Trainer Software Record TCTO</u>	<u>MIL-STD-38784</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
45.	21M-LGM30F-6	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
46.	21M-LGM30F-6WC-2	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
47.	33D7-59-94-1	Same style and format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
48.			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
49.			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50.			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PART B - TM DELIVERY REQUIREMENTS
FOR MMP UPGRADE PROGRAM
(System/Item)

TM DATA TYPE DELIVERED SOURCE DATA .

Delivery Format Requirements Codes

P - Paper (draft or manuscript only. Cannot be used for final delivery)
M - Mixed paper and digital (G, H or I)

Digital delivery only:

G - Standard Generalized Mark-up Language (SGML).
H - Hyper Text Mark-up Language (HTML)
I - Indexed Portable Document Format (IPDF) File.
X - Extensible Mark-up Language (XML)
A - MS Word or Interleaf or another approved electronic format

EXAMPLE: M(G) / 2 [Paper and SGML / 2 copies]

NOTES:

- Delivery format requirements codes indicate the media/file format to be delivered for each program event.
- TCTO requirements are specified in the contract vehicle approving the TCTO.
- When on-line access is a contractual requirement, copy quantity will normally be Ø (zero).
- For NGS or non-standard TMSS instances, delivery shall include the associated DTDs, FOSIs/Style Sheets, XML schemas, etc.

<u>DELIVERY SCHEDULE</u>				
Event ⇨ Number of days data required prior to event ⇨ Enter Office Symbol and Address⇩ ⇩	Technical Review(s) (30 Days) ⇩	Verification (30 Days) ⇩	Prepublication Review (30 Days) ⇩	Final TO Distribution (60 Days) ⇩
526 ICBMSW/ENV 6054 Dogwood Ave, Bldg 1255 Hill AFB, UT 84056-5816	P(A) / 2	P(A) / 2	P(A) / 2	I / 2
639ELSS 5 Eglin St. Hanscom AFB MA 01731	P(A) / 1	P(A) / 1	P(A) / 1	/
MCSW/OSL 1050 E. Stewart Ave. Peterson AFB CO 80914-2902	P(A) / 1	P(A) / 1	P(A) / 1	/
USER	P(A) / 1	P(A) / 1	/	/
	/	/	/	/
Total Copies Required:	P(A) / 4	P(A) / 4	P(A) / 4	I / 1

SECTION 3. SPECIFICATION/STANDARD INTERFACE RECORDS (SIRs)

NOTES:

- **All TMSS applicable to this contract** shall have an appropriately tailored SIR attached to this section.
- SIRs included in the untailored TMCR format represent the minimum tailoring requirements that must be included in the final contract, **unless the entire SIR is not applicable**; e.g., if MIL-DTL-22202D is not required, the entire SIR can be deleted.
- MIL-STD-38784 must be included in all contracts/proposals for AF TMSS-developed TOs.
- Most specification “Acquisition Requirements” list the same two items for paragraphs 6.2a and 6.2b. For this contract enter:
 - ❖ 6.2a. The title, number and date of each specification will be listed in the heading of the applicable SIR.
 - ❖ 6.2b. The issue of the DODISS used in this contract is *(enter date)*.
- Digital requirements shall not be tailored out. Tailoring shall be limited to the options expressed in paragraphs 6.2. Any requests for tailoring outside of these requirements must be coordinated with the specification Preparing Activity (PA).
- Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the DoD Single Stock Point (DODSSP), Acquisition Streamlining and Standardization Information System (ASSIST) web page, <http://www.dodssp.daps.dla.mil/assist.htm>.
- Non-government Standards (NGS) shall be provided by the offeror. The Government will not be responsible for providing NGS.
- TMSS entries designated with A, F, M or N refer to Army, Air Force, Marine Corps or Navy requirements.
- Beneficial comments, recommendations, additions, data etc. which may be of use in improving any Air Force TMSS should be addressed to “Air Force Technical Manual Specifications and Standards Office, 754 ELSG/ILMT, Wright-Patterson AFB, OH 45433”. Do not include the street address, a building number, or a zip+4.

STANDARDIZATION INTERFACE RECORD FOR MIL-STD-38784,

Notice 1,
Notice 2,

2 July 1995
15 November 2000
1 December 2000

Standard Practice for Manuals, Technical: General Style and Format Requirements

Global: Change references to “MIL-STD-1806” to read “DODD 5230.24.”

3.2.8 Continuous Tone Artwork. Delete paragraph.

3.2.9 Copy Freeze Date. Delete paragraph.

3.2.10 Cutline. Delete paragraph.

3.2.20 Layout Page. Delete paragraph.

4.2.1.2.1 Oversize Reproducible Copy. Delete paragraph.

4.2.7.1 Table Cutline (see 3.2.10). Delete paragraph.

4.2.8.1 Illustration Cutline (see 3.2.10). Delete paragraph.

4.2.8.3 Amend as follows: “4.2.8.3 Illustration legends (see 3.2.23). Legends shall be headed by the word “Legend” followed by the number of the figure to which it is applicable (see Figure 6). The entire legend shall be indented 5 spaces. If the legend is continued, the figure number and title shall be repeated, followed by a dash and the word “Continued.” Only that information which is necessary to clearly identify the items shall be included in the legend. Where methods such as the tabular presentation technique (as in an Illustrated Parts Breakdown/Repair Parts and Special Tools List) are used, no legends are required.”

NOTE: The <figtable> element, if included in the DTD, shall not be used in maintenance manuals.

* 4.5.1.10 Disclosure Notice. Change 1st sentence to read: “...except those with Distribution Statement A, IAW AFI 21-303 (F):”

* 4.5.1.11 Distribution Statement. Replace the last sentence with: “Include both the distribution statement letter (“A,” “B,” etc.) and wording from DODD 5230.24. Include the “Reason,” “Controlling DoD office,” and “Date of Determination” when required. If the reason is “Proprietary Data,” then each TM page containing proprietary data must be marked with the company name and the word “Proprietary” (e.g., “Boeing Proprietary”).”

4.5.1.13 Destruction Notice. Change the existing sentence to read: “...or X shall be marked with Handling and Destruction Notice “a” (below) on the cover/title...” Add a new second sentence as follows: “Unclassified TOs authorized for Public Release (Distribution Statement “A”) shall be marked with disposition notice “b” (below) on the title or T-2 page.”

- 4.5.1.13.a. Designate existing paragraph as "a. HANDLING AND DESTRUCTION NOTICE..." Add:
"See TO 00-5-1 for specific destruction procedures."
- 4.5.1.13.b (Added) b. "DISPOSITION NOTICE - Refer to TO 00-5-1 for disposition instructions."
- * 4.5.1.14 Copyright Credit Line. Add "If a copyright credit line is required, include a statement of government rights to publish, reproduce, and distribute the TM."
- 4.5.3 List of Effective Pages. Change the first sentence to read: "A List of Effective Pages shall be prepared in accordance with Figure 13. Page borders shall be optional."
- 4.6.2 Photographs/line drawings. Delete paragraph.
- 4.6.3.1 Retouching. Delete paragraph.
- 4.6.3.2 Prescreened photographs. Delete paragraph.
- 4.6.4 Continuous Tone Artwork (see 3.2.8). Delete paragraph.
- 4.6.5 Combination Artwork. Delete paragraph.
- 4.6.12 Color in Illustrations. Delete the first sentence: "Unless otherwise specified (see 6.2), color shall not be used."
- 4.6.12.1 Separation of Colors. Delete paragraph.
- 4.6.12.2 Register Marks. Delete paragraph.
- 4.6.20 Crop and Size Marks. Delete.
- 4.6.21 Mounting of Artwork. Delete paragraph.
- 4.6.22 Identifying Artwork. Delete paragraph.
- 4.6.23 Covering of Artwork. Delete paragraph.
- 4.6.24 Review of Illustrations. Delete paragraph.
- 4.7.1 Advanced Change Pages. Delete paragraph.
- 4.7.2 Changes to Cover and Title Page. In the first sentence, delete the phrase "Except for silk screened or otherwise expensive covers".
- 4.7.3.4 Transmittal Cover Sheets. In the last sentence, delete the phrase "i.e. reproducible copy, negatives, magnetic tape, disk, etc.".
- 4.7.3.5 Changes to Illustrations. Delete paragraph.
- 4.9.2 Safety Supplements (see Figure 37). Change first sentence to read: Safety supplement "SS" borders and the words "SAFETY SUPPLEMENT" at the top and bottom of the supplement shall be in red. Other text, lettering, numbering, etc, shall be in black."
- Figure 5, Example Typical RDC Page. Delete.
- Figure 25 Cropping and Sizing of Illustrations. Delete.
- Figure 26, Identification, Marking, and Protective Covering of Artwork. Delete.

STANDARDIZATION INTERFACE RECORD FOR MIL-PRF-38804C,
Amendment 1,

1 March 1996
20 June 1997

Time Compliance Technical Orders – Preparation

NOTE: Entries marked with an asterisk (*) will have to be manually entered and tagged in SGML files until the specification and its associated DTD and FOSI have been updated to incorporate the changes. The rescission date and statement will continue to appear in paragraph 3 of SGML-tagged TCTO files until the DTD and FOSI are updated.

Amendment 1 Delete entirely.

2.2.2 Change "AFM 67-1" to "AFMAN 23-110."

3.5.2g Add new line: "g. Rescission Date (see 3.5.2.6.1)" Renumber following paragraphs to "h" through "l".

3.5.2.4 Change 1st sentence to read: "...supplement thereto (see 3.6) provided by the acquiring activity on an AFMC Form 873 (see 6.5)."

3.5.2.5 Change 1st sentence to read: "...acquiring activity on an AFMC Form 873 (see 6.5)."

3.5.2.6 Change 1st sentence to read: "...acquiring activity on an AFMC Form 873 (see 6.5)." Change last sentence to read: :
"The year, month, and day shall be in the YYYYMMDD format (see Figures 1 through 6)."

3.5.2.6.1 (Added) "Rescission Date. The The contractor shall enter the TCTO rescission date in the upper right corner of the first page immediately below the TCTO issue date. The rescission date will be specified on the AFMC Form 873 (see 6.5). The date will be in the YYYYMMDD format."

3.5.2.8 Add to the end of the paragraph: "See TO 00-5-15 for additional guidance."

3.5.2.9.1d Change to read: "...reinstating and establishing a new rescission date for rescinded TO..."

3.5.2.9.4 Change "AFMC/AFCC" to "AFMC/AFCA/AFSPC"

3.5.3.3 Change "proofing" to "verification" (4 places) Change last sentence to read: "...waived, the office symbol, e-mail address and Defense Switched Network (DSN) phone number of the approving official shall..."

3.5.5.3 Replace "a" through "d" with the following:

a. (Added) Routine Safety Inspection Organizational/Intermediate Level TCTOs. "Not later than (#) days after receipt of this TCTO. Affected system/equipment shall be removed from seTHE CONTRACTORice if this TCTO is not accomplished within the specified number of days, or 60 days prior to the TCTO rescission date, whichever comes first. The specified number of days for accomplishment shall be provided on the AFMC Form 873 (see 6.5).

b. Routine Action, Organizational/Intermediate Level, Safety TCTO. "Not later than ____ days after receipt of (this TCTO) (kits) (parts) (special tools). Failure to accomplish this TCTO by the preceding specified number of days, or 60 days prior to the TCTO rescission date, whichever comes first, shall automatically restrict operations or shall be justification for withdrawing affected system/equipment from seTHE CONTRACTORice until compliance is accomplished. The specified number of days for accomplishment shall be provided on an AFMC Form 873 (see 6.5).

c. Routine Action, Organizational/Intermediate Level TCTO. Organizational/Intermediate level TCTOs having a compliance period in terms of days shall read: "Not later than ____ days after receipt of (this TCTO) (kits) (parts) (special tools). Failure to accomplish the work by expiration of the compliance period, or 60 days prior to the TCTO rescission date, whichever comes first, shall be justification for withdrawing the affected system/equipment from seTHE CONTRACTORice until compliance is accomplished. The specified number of days and requirements for accomplishment shall be provided on an AFMC Form 873 (see 6.5).

d. Routine Action, Organizational/Intermediate Level, Based Upon Maintenance Practice. When the time period for accomplishment cannot be specified as a certain number of days after receipt of the TCTO, kits, parts or special tools, the TCTO may specify compliance at the time a known maintenance event occurs, such as "At the time of removal from Emergency War Order (EWO) status (or During scheduled modernization action). If not complied with by (date), or 60 days prior to the TCTO rescission date, whichever comes first, the system/equipment shall be removed from active seTHE CONTRACTORice until compliance with the TCTO is accomplished. The preceding phrase is an example of the type to be used and may be expanded or worded to the individual requirement as needed. Use of the phrases "upon failure," "upon accumulation" or "when reaching" are not authorized for any TCTO. The required statement shall be provided on an AFMC Form 873 (see 6.5).

e. Routine Action, Depot Level. These modifications require specified accomplishment at a time designated by the acquiring activity by means of the AFMC Form 873 (see 6.5) at overhaul, The contractor team, force modernization, AFMC schedule or whatever other phrase that is most appropriate.

3.5.5.4 Add new sentence as follows: "The required statements shall be provided on an AFMC Form 873 (see 6.5)."

3.5.5.5 (Added in Amendment 1) Delete.

3.5.7.1.1.1 Change 4th and 5th lines to read: "...concept waived by (insert name/rank/office symbol/DSN phone number and e-mail address of the Lead Command POC authorizing a waiver of the complete..."

3.5.7.2 Change "proofing" to "verification" (2 places)

3.5.7.2.1 (Added) "For Inspection TCTOs, the AFSCs and manhours shall be based on Maintenance Data Collection (MDC) records. The equivalent work phases will be:

- a. Equipment preparation.
- b. Access work area.
- c. Perform inspection.
- d. Close work area.
- e. Operational check and documentation."

- 3.5.7.2.1 (Existing) Renumber as 3.5.7.2.2.
- 3.5.10.1.4 Change last line to read "...with the criteria established in AFI 21-103, Chapter 9 (-21 TOs).
- 3.5.11.1 Change 1st sentence to read: "...the name, organization and office symbol, DSN telephone number, and e-mail address of the POC responsible..."
Change 2nd sentence to read: "...and the information for the POC authorizing..."
- 3.6 Delete the last sentence ("All supplements shall be assigned a new data code number.")
- 3.6.1 Change 1st sentence to read: "...supplement, or it explicitly changes the TCTO rescission date."
- 3.6.6 Delete ", IF APPROVED BY THE MAJCOM," in the NOTE text.
- 4.1 Change title to "The contractor Prototyping."
- 4.1b Change to read: "...perform the prototyping functions specified..."
- 4.1d Change to read: "...review any of the prototyping functions, when..."
- 4.1.1 Change "verification" to "prototyping" (2 places)
- 4.1.1d, e & f (Added) "d. Form, fit and function of TCTO kits and modified components.
e. TO update accuracy.
f. Proper function of the modified equipment."
- 5.2 Replace with: "Bill of Materials. TCTO kits shall contain a Bill of Materials listing all of the items required to accomplish the TCTO. As a minimum, the format of the Bill of Material shall be as follows:"
- 6.2l Change to read: "Issue and Rescission dates (see 3.5.2.6 & 3.5.2.6.1)."
- 6.2x Delete.
- 6.4.8 Change "verification" to "prototyping" (2 places)
- 6.4.8a Add "Includes validating the form, fit, and function of any kits involved, accuracy of associated TO updates, and proper operation of the modified equipment."
- 6.5 Change 1st sentence to read: "...are contained in TO 00-5-15, Air Force Time Compliance Technical Order Process."
- 6.6 Add "prototyping" and "supplement" to key word list.
- Figures 3, 4 & 5 Change "Proofing" to "Verification" in each figure.

CDRL B073 – Integrated Master Plan (IMP) Block 16 Continued

Block 4: Format and content as tailored for MMP Upgrade shall be as follows:

Use/Relationship: The Integrated Master Plan (IMP) is a narrative explaining the overall management of the program. The IMP is an event-based plan consisting of a hierarchy of program events. Each event will occur based on the completion of its predecessor activities and accomplishments (i.e., entrance criteria). Each event will be completed based on specific accomplishments associated with specific criteria to be satisfied for its completion (i.e., exit criteria). Entrance and exit criteria for each event is measurable either quantitatively or qualitatively.

Requirements:

1. Reference Documents.

- a. DoD Guide “Integrated Master Plan and Integrated Master Schedule Preparation and Use Guide”, 21 October 2005, Version 0.9

2. **Format.** The IMP shall be linked to the CWBS and the IMS and show correlation of each event and milestone with the CWBS. The IMP shall be created using Microsoft Word. The IMP shall be delivered electronically.

3.2 Contents. The IMP shall contain the following sections

- a. **Program Overview.**
- b. **Events and Milestones.** This section shall document all plans, events, milestones, accomplishments necessary to design, develop, test, integrate, produce, deploy, support and manage the MMP Upgrade program as defined in the TRD, TSRD, UIC, SOW, and CLIN structure. This section shall include all entrance and exit criteria for every event and milestone. This section shall also identify all Government events that require support of the Contractor including security certification and accreditation as well as installation and operational test events. The IMP shall link to the IMS to describe and integrate all events, milestones, and tasks.
- c. **Measurement.** The IMP shall include measurement criteria for each event. The measurement criteria may be either quantitative or qualitative and shall include TPMs, TPIs, demonstration goals, test results, metrics, and other means of measuring task and event completion as well as product maturity and performance.
- e. **Definitions.**

Event: An event is a program assessment point that occurs at the culmination of significant program activities: accomplishments and criteria.

Accomplishment: An accomplishment is the desired result(s) prior to or at completion of an event that indicates a level of the program’s progress.

Criteria: Criteria provide definitive evidence that a specific accomplishment has been completed. Entry criteria reflect what must be done to be ready to initiate a review, demonstration, or test. Exit criteria reflect what must be done to clearly ascertain the event has been successfully completed.

Task or Activity: An element of work performed during the course of a project. An activity has an expected duration, expected cost and expected resource requirements. Some systems may define tasks or activity at a level below the work package while other systems do not differentiate between the two. It is a time-phased, detailed activity (where work is accomplished and funds are expended) required to support the IMP criteria, accomplishments, and events to meet program or project requirements.

- d. **Control Account:** A management control point at which budgets (resource plans) and
- d. **Process Narratives.** This section shall provide the narratives that describe the Contractor’s critical program management and technical processes. When detailed plans exist outside of the IMP (e.g., SEMP, SDP, FDP), the IMP shall link to those plans as appropriate to describe and integrate all required processes. This section shall contain the Risk and Opportunity Management Program (ROMP) including all risks, mitigation strategies, risk reduction activities, and trigger points as well as linkage to the CWBS and IMS for all risk activities. This section shall also describe the Risk and Opportunity Report (ROMR).
- e. **Plans.** The IMP shall include a Stakeholder Plan and a Communications Plan.

represents the work assigned to one responsible organizational element on one program work breakdown structure element.

Work Package: Natural subdivision of control accounts. A work package is simply a task/activity or grouping of work. A work package is the point at which work is planned, progress is measured, and earned value is computed. Can be translated into different terms in different companies and functions. It can be design job, a tool design package, a build-to package, a shop order, a part number, a purchase order, or any other definable task/activity at whatever level control is normal for program management within the company.

Planning Package: A holding account (within a control account) for budget for future work that is not yet practicable to plan at the work package level. The planning package budget is time-phased in accordance with known schedule requirements (due dates) for resource planning, and the plans are refined as detail requirements become clearer and the time to begin work draws nearer. A company may elect to break the work assigned to a control account into smaller groupings of tasks or activities, i.e., multiple planning packages, for internal planning and control reasons.

Level of Effort (LOE): Effort of a general or supportive nature that does not produce definite end products. It is typically measured through the passing of time.

Discrete Effort: Work packages and planning packages (or lower level tasks or activities) that are related to the completion of specific end products or services and can be directly planned and measured.

Apportioned Effort: Effort that by itself is not readily divisible into short-span work packages (or tasks or activities) but which is related in direct proportion to measured effort.

3.3 Deleted.

3.4 Program Management. The plan shall present an organizational chart and supporting narrative describing the management office, direct lines of control, responsibilities, functional relationships, and authority between program management and all other organizational elements of the program. The plan shall also describe all interfaces between the Contractor and the Government as well as between the Contractor and all other Contractors necessary and pertinent to the accomplishment of contractual tasks.

3.5 Methodology.

- a. **Process Narratives.** This section shall provide the narratives that describe the Contractor's program management and technical processes. When detailed plans exist outside of the IMP (e.g., SEMP, SDP, FDP), the IMP shall link to those plans as appropriate to describe and integrate all required processes. This section shall contain the Risk and Opportunity Management Program (ROMP) including all risks, mitigation strategies, risk reduction activities, and trigger points as well as linkage to the CWBS and IMS for all risk activities. This section shall also describe the Risk and Opportunity Report (ROMR). This section shall also describe the Metrics Program including the relationship between the metrics, measures, and indicators and the EVMS.
- b. **Plans.** The IMP shall include a Stakeholder Plan, a Communications Plan, and a Production Plan. The IMP shall also include the plans for conduct of all events, milestones, and meetings described in the SOW.

3.6 Personnel.

- a. **Staffing Plan.** The IMP shall include the staffing plan as described in the SOW and include a discussion of how many of each required category of staff are currently available and how many new hires or transfers are required to staff fully to accomplish all the tasks described for the contract.

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Dennis Singer	13 Jun 2007	J. Peyton Smith, Capt, USAF	13 Jun 2007
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