**FRONT MATTER THAT IS FILLABLE BY USER**

**WHEN PROGRAM NAMED IS FILLED IN BELOW, IT IS AUTOMATICALLY ADDED TO OTHER AREAS OF THE DOCUMENT THAT REQUIRE PROGRAM NAME.**

**Air Force Technical Manual Contract Requirements (TMCR)**

for

{program\_mod\_system\_name}

(Program/Modification/Military System)

TMCR Date:{TMCRDate}

TYPE OF CONTRACT (i.e., Firm Fixed Price): {type\_of\_contract}

OPTIONAL Fill in the Blank AREAS:

ATTACHMENT , TO CDRL SEQUENCE NUMBER , EXHIBIT

REQUEST FOR PROPOSAL/CONTRACT: , CLIN

**FRONT MATTER THAT IS FILLABLE BY USER**

## Section 1. Technical Order (TO) Program Requirements – TMSS Linear TMs (DROP DOWN MENU with two choices; S1000D (IETM), Proprietary IETM, TMSS Linear TM)

(MOST OF THE following PARAGRAPHS WILL BE standard verbiage for ALL options)

{#include\_stuff}

1. TMCR Tailoring.  Air Force (AF) TO Acquisition procedures, including procedures for tailoring this document, are found in TO 00-5-3, *AF Technical Order Life Cycle Management*, located at <http://www.tinker.af.mil/Home/TechnicalOrders.aspx>.  Any terms or procedures found in this document may be researched at this website. The Contractor may propose and submit, in writing, additional tailoring to the Technical Order Manager Agency/Agent (TOMA), Government Program Manager (PM) and Procuring Contracting Officer (PCO) as required by Section L or the RFP*.*  Modifications to contracts can continue to utilize the existing format until renegotiated/replaced. The acceptance of any contractor tailored TMCR will be at the discretion of the government and is not in effect until accepted in writing by the PCO or specified in the contract.

{/}

2. TO Program Scope. The Contractor shall develop and deliver technical manuals in accordance with (IAW) this TMCR that support the {program\_mod\_system\_name} requirements for technically usable manuals concurrent with the program’s TO CONOPS. The Contractor may propose and submit, in writing to the PCO, additional Section 2 tailoring to propose new TO types (Table 1) and source data and TO updates (Table 2) required to support the {program\_mod\_system\_name} program’s objectives and as defined by the TMSS. The acceptance of any additionally tailored TMCR will be at the discretion of the government and is not in effect until accepted in writing by the PCO.

S1000D ONLY PATHWAY

3. Commercial Manuals. Contractors shall recommend the use of existing commercial manuals to the maximum extent possible without impairing program support objectives. All proposed commercial manuals are subject to Government review and approval. Contractors shall use Data Item Description (DID) DI-TMSS-80067C, *Technical Manual (TM) Contractor Furnished Aeronautical Equipment or Contractor Furnished Equipment (CFAE/CFE) Notices,* to provide recommendation data. A copy is available through ASSIST at <http://quicksearch.dla.mil/qsSearch.aspx>.

Both: S1000D and Linear (small change)

3.1. The Contractor shall provide the ability to electronically store, print, distribute, update and decollate the commercial manual to allow for printing. Commercial manuals shall be delivered as Portable Document Format (PDF) unless otherwise specified.

3.2. Approved Commercial-Off-The-Shelf (COTS) Manuals shall be delivered with an Identifying TO Publication Sheet (ITPS), IAW MIL-PRF-32216, *Performance Specification: Evaluation Of Commercial Off-The-Shelf (COTS) Manuals And Preparation Of Supplemental Data*. All PDF files of commercial data shall be non-password protected to allow the AF to decollate the manual for printing.

3.3. If the proposed COTS data is found to be insufficient after review by the Government, the Contractor shall prepare supplemental data for the COTS manual as required IAW Military Standard (MIL-STD)-38784. If the COTS data cannot be supplemented sufficiently the Contractor will develop new TM data IAW the applicable TMSS listed in Section 2, Table 1.

S1000D Path

4. Technical Manual Specifications and Standards (TMSS) Tailoring. AF TMSS tailoring options and some Joint Service TMSS have been documented in preliminary Specification/Standard Interface Records (SIRS) included in Section 3. These preliminary SIRs provide the starting point for further tailoring. Contractors may recommend additional tailoring of the Joint Service TMSS SIRs and provide recommended SIRs for other TMSS as applicable. Tailoring must not change or delete mandatory requirements which are part of the Document Type Definition (DTD) located in Section 2, Table 1. **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 tailoring options in each TMSS.

4.1. Questions concerning TMSS requirements may be submitted in writing with suggestions for resolution and supporting information to the PCO and (*enter name, office symbol, address and phone number of TO Manager*). Deficiencies and suggested improvements may be submitted to the TMSS Preparing Activity (PA). Recommendations, corrections and clarifications approved by the PCO, if any, will be maintained with contract documentation.

5. Subsequent TO/Data Requirements. When new TO requirements are identified the Contractor shall notify the Government utilizing DI-TMSS-80067C, *Technical Manual (TM) Contractor Furnished Aeronautical Equipment or Contractor Furnished Equipment (CFAE/CFE) Notices,* or approved Contractor formats. This process shall require Government review and approval of recommended additional requirements prior to developing additional data.

6. TO Development. TOs shall be written to a scope and depth of coverage to support the {program\_mod\_system\_name} operations and maintenance concepts.

S1000D ONLY

6.1. Standard Generalized Markup Language (SGML) tagged TO files shall include required illustration (graphics) files in an approved graphics exchange format. Illustration files developed and delivered for other purposes shall be used in lieu of developing special TM illustration files whenever possible. All delivered graphics shall conform to the approved graphic creation and format guidelines listed in Attachment 1, *Graphics Format Guidelines*. For assistance with illustration requirements contact AF TMSS via (e-mail: [SGMLSupport@us.af.mil](mailto:SGMLSupport@us.af.mil)).

6.2. Page-oriented Military Specification (MIL-SPEC) TOs shall be formatted with text, graphics and delivered according to the TMSS specified in Section 2. The Contractor shall develop TO files (tagged instances) using SGML according to the DTDs referenced in the appendix to MIL-STD-38784 and each applicable military detail specification (MIL-DTL). Multiple SGML file instances for a single TO document are not authorized.required

7. TO Numbering. Contractors shall notify the Government, in writing, of manuals which require TO numbers. TO numbers are not required for manuals to be used exclusively by the Contractor’s own personnel. Requests for new TO numbers shall be submitted to the TOMA utilizing the TO numbering worksheet (Attachment 2, *Request for Technical Order Number*).

8. Data Rights. Contractors shall comply with 10 U.S.C. 2320 and Defense Federal Acquisition Regulation Supplement (DFARS) provisions and clauses. The Government’s rights in technical data are specified in DFARS 252.227-7013, *Rights in Technical Data-Noncommercial Items*, 252.227-7014, *Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation*, and 252.227-7015, *Technical Data-Commercial Items* and other applicable provisions and clauses from DFARS 227 and 252.227. In accordance with those clauses and provisions, the Contractor grants the Government Unlimited Rights, as defined therein, in all source data, TO publications, TO updates and TO-related documents prepared specifically for the contract. The Contractor also grants the Government Unlimited Rights in all Government-funded business rules (tailoring, and application methods and procedures) and documented business processes developed under the contract for the purpose of TO development. Contractor shall identify any data to be delivered to the Government with other than Unlimited Rights IAW DFARS 252.227-7017, *Identification and Assertion of Use, Release, or Disclosure Restrictions* and shall mark such data only in accordance with the applicable DFARS clause. The Contractor shall pass through and enforce all requirements in this TMCR to all sub-Contractors.

9. Classification, Distribution, Destruction, Disclosure, Export Control Notices, and Cyber Security. Contractors shall recommend the correct markings and controls for classified and restricted distribution data and TOs IAW the program’s Security Classification Guide (SCG) and Department of Defense Manual (DODM) 5200.01, Department of Defense Instruction (DODI) 5230.24, Department of Defense Directive (DODD) 5230.25, Air Force Instruction (AFI) 16-1404, and MIL-STD-38784 (available at <http://www.e-publishing.af.mil/> or <https://assist.dla.mil/online/start/index.cfm>). The markings and notices shall be reviewed during In-Process Reviews (IPR). The Contractor shall also apply policy and procedures for *Cybersecurity Program Management* IAW AFI 17-130, AFMAN 17-1301, *Computer Security (COMPUSEC)* **NOTE:** Distribution limitations will be determined on a case-by-case basis as TOs are developed, dependent upon TO content.

10. TO Quality The Contractors shall ensure prepared TOs are: a) technically accurate and safe; b) written to a scope and depth of coverage to support the operations and maintenance concepts; c) properly classified and marked with export control and distribution limitation statements. The Contractor shall maintain a Technical Manual Quality Assurance (TMQA) Program Plan for this effort. The TMQA Program Plan shall be available for review at the TO Guidance Conference. The TMQA Program Plan shall be sufficiently detailed to support TO certification to include actual performance of procedures or 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. **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 *Joint Nuclear Weapons Publication System Operating Procedures, Specifications and Standards,* and DODD 5160.62, *Single Manager Responsibility for Military Explosive Ordnance Disposal Technology and Training*, respectively. The Government will conduct performance-tests on all JNWPS and EOD TOs.

10.1. Initial Technical Order Guidance Conference (TOGC). Working through the TOMA, the Contractor shall co-host and participate in a guidance conference for this effort. The TOGC will be held within 60 calendar days after contract award. The Technical Manual Schedule and Status will be formalized at this conference. The Contractor shall present a briefing on their interpretation of the basic contract, SOW/Performance Work Statement (PWS), CDRLs, DIDs, MIL-SPEC, MIL-DTL, MIL-STD, SIRs, this document and the planned preparation and delivery of the TOs and related data.

Standard Verbiage for both

10.2. In-Process Reviews. The Contractor shall participate and co-chair In-Process Reviews (IPR) of the data developed for this effort. In-Process Reviews are to ensure that data being developed as part of this effort is adequate and accurate and IAW contract requirements and cited specifications. The Contractor shall ensure that all appropriate personnel required to execute a successful TO program will either attend or participate in the IPR. IPRs will be held IAW TO 00-5-3 or as defined by the program office. During the IPRs the Contractor will be responsible to maintain a master markup of the document being reviewed. The Contractor shall develop meeting minutes after each review documenting all approved changes and concurrent agreements for Government review and approval. This master markup will be made available at the next scheduled review. A copy of the markup will be provided to the TOMA or designated individual at the conclusion of the review. The Contractor shall ensure all comments from previous IPRs have been incorporated prior to the next scheduled IPR. With prior approval of the TOMA, IPRs may be combined.

10.3. TO Delivery Requirements for In-Process Reviews. IPR TO data shall be technically edited and reviewed according to the TMQA Program Plan. Manuscript (handwritten) data is not acceptable for any data to be reviewed. The TMQA Program Plan checklists shall be available for review by the Government during the IPRs. Delivery requirements are contained in Section 2, Table 3 of the TMCR.

10.4. TO Certification. The Contractor shall certify that new TO procedures and data developed to support the program are accurate, adequate, current, safe, and usable for their intended purpose. The Government may witness the certification activities. The Contractor shall incorporate comments generated by the certification process into the TOs prior to submitting the TOs for verification. At the completion of the certification, the Contractor shall submit a letter to the TOMA through the Government PCO and PM stating that certification has been completed, the certification method used, and that any deficiencies identified during the process have been corrected. The Contractor will ensure all necessary changes and corrections to affected manuals are accomplished in time to meet contract delivery schedule requirements. The Contractor shall notify the Government, as identified in the contract, at least 180 days prior to the need date, of any Government Furnished Property (GFP), Information, and/or Government Furnished Equipment (GFI/GFE) as required, to perform certification tasks. TO 00-5-1 and TO 00-5-3 shall be referenced for additional information on TO Certification requirements.

10.4.1. The Contractor shall propose opportunities to perform TO certification activities in conjunction with Government verification IAW TO 00-5-3, where applicable.

10.5. Verification Support. The Contractor shall support Government verification activities as required by the TOMA and the program Technical Order Life Cycle Verification Plan (TOLCVP). Contractor verification support will consist of on station technical writing and engineering support. The Contractor shall maintain a master mark-up of the document and record minute items during the Government verification process. The Contractor shall also support all post verification reviews and ensure availability until 100% task verification is attained by the Government.

S1000D ONLY

10.6. TO Prepublication Reviews (PPR). PPRs are examinations of TOs that ensure incorporation of agreed upon changes from previous reviews and verification activities. The Contractor shall prepare and deliver copies of TOs and TO updates in MIL-SPEC compliance for the PPR as shown in the delivery matrix. The TOs for PPR shall be approved by the Contractor’s QA, be in compliance with the MIL-SPECs/DTLs/STDs, and incorporate all verification comments and corrections approved by the TOMA or program management office representative.

10.7. Technical Data Assessment (TDA). The Contractor shall submit in-work samples of each specified TM type deliverable to the Government for specification and standardization compliance review. TDAs may be accomplished by using organic TO sustainment environments with the assistance of AFLCMC/HIAM (AF TMSS Office, SGMLSUPPORT@us.af.mil).

10.7.1. MIL-SPEC (SGML) TO Data. The Contractor shall submit an SGML tagged TO file, associated graphics files, a PDF rendition of the SGML tagged TO file composed by the Contractor and any associated companion files necessary for PDF composition. During assessment, the SGML tagged TO file will be parsed against the appropriate TMSS DTD (and optionally run through the Tagging Utilization Tool (TUT)) to determine DTD compliance and correct tag usage. The SGML tagged TO file and associated graphics will be composed by the program office and the rendered PDF will be compared with the submitted PDF to check for completeness, indexing, and MIL-SPEC/DTL/STD compliant formatting.

S1000D ONLY

10.7.2. Error Resolution. The Contractor shall correct any errors found during the TDA prior to each IPR. Additional TDAs may be necessary based on the amount of errors found during the initial TDA. Completion of a TDA in no way relieves the Contractor from the requirement to fix errors found during future reviews.

11. TO Delivery. TO file delivery requirements are located in Section 2, Table 3 of this document.

11.1. MIL-SPEC (SGML) Tagged Files. The Contractor shall parse all SGML files required for the TOs prior to Government delivery and shall verify the SGML is compliant with the appropriate DTD. **NOTE:** The Government will parse the files prior to acceptance using the SGML parser agreed upon prior to submission. Additional resources can be obtained via AFMC AFLCMC/LZP by submitting a request to [AFLCMC.PDSS.TOAPVIPR@us.af.mil](mailto:AFLCMC.PDSS.TOAPVIPR@us.af.mil).

S1000D ONLY

12. Source Data Maintenance. Contractors shall maintain accuracy, currency and configuration of TO source data, to include GFI, throughout the contract period of performance. The Contractor shall provide the Government a Configuration Control Management Plan. The Contractor will provide a minimum of annual updates throughout the life of the contract as directed in writing from the PCO. Maintenance includes preparation of source data updates to incorporate corrections, equipment configuration changes, and maintenance and operational concept changes. Additionally, the Contractor shall ensure the accuracy, currency, and configuration of applicable data provided by their sub-Contractors as it effects the technical baseline.

**NOTE:** Contractors will protect GFI provided for the purposes of TO development IAW DFARS 252.204-7000 *Disclosure of Information* and DFARS 252.227-7025, *Limitations on the Use or Disclosure of Government Furnished Information Marked with Restrictive Legends.*

13. TO Maintenance. Contractors shall maintain TOs by preparing emergency, urgent, routine changes/revisions or supplements and source data updates to incorporate corrections, equipment configuration changes, and maintenance and operational concept changes IAW TO 00-5-3. The Contractor shall assist the Government, where applicable, by incorporating and delivering approved changes to the technical data in the field NLT the specified time limits within TO 00-5-3 for Urgent, Work Stoppage, or Emergency changes originating from an approved Recommended Change (RC) process and/or Publication Change Request (PCR) in the Enhanced Technical Information Management System (ETIMS). In the event of non-ETIMS access AFTO FORM 22, 252 policy or other approved change request forms processes will be adhered to. The specified time limits upon receipt of specified change requests is 40 calendar days for urgent changes/revisions, 72 hours for work stoppage changes/revisions, and 48 hours for emergency changes/revisions.

14. Schedules. The Contractor shall develop and maintain an Integrated Technical Manual Schedule and Status throughout the period of performance for all TO development activities associated with this order for the life of the contract. The schedule shall be to the system/book or TCTO level and cover all major milestones of development. Any changes to the TM Schedule and Status after the TO Guidance Conference shall be coordinated with and approved by program TOMA and PCO.

Program Name to populate automatically

15. Time Compliance Technical Orders (TCTOs). The Contractor shall prepare TCTOs, ITCTOs and resulting TO updates as required in support of {program\_mod\_system\_name} IAW TO 00-5-15 and MIL-DTL-38804 content requirements. TCTOs will be used to document all permanent modifications, initiate special “one time” inspections, or impose temporary restrictions on systems or equipment within specified time limits effecting {program\_mod\_system\_name}. Costs for TCTO package development must be IAW with AFI 65-601Vol.1.

15.1. The Contractor shall deliver certified drafts of Immediate Action TCTOs to meet program office plans to satisfy requirements outlined in TO 00-5-3/00-5-15. The Contractor shall deliver drafts with comments incorporated within 24 hours of receipt of comments.

15.2. The Contractor shall deliver initial certified drafts of Urgent Action TCTOs to meet program office plans to satisfy requirements outlined in TO 00-5-3/00-5-15. The Contractor shall deliver final drafts with “final” customer comments incorporated, within 96 hours of receipt of comments.

15.3. The Contractor shall deliver initial certified drafts of routine safety TCTOs to meet program office plans to satisfy requirements outlined in TO 00-5-3/00-5-15. The Contractor shall deliver final drafts with “final” customer comments incorporated, within 5 business days of receipt of comments.

15.4. The Contractor shall deliver certified drafts of routine TCTOs to meet program office plans to satisfy requirements outlined in TO 00-5-3/00-5-15. The Contractor shall deliver final drafts with “final” customer comments incorporated, within 10 business days of receipt of comments.

S1000D

**Section 2. TM Type and Delivery Requirements**

**NOTES:**

**TABLE APPLIES TO BOTH FLOWS**

1. Mark the TM Type Selection Tables indicating the applicable TO types and related specifications.

***(Delete this note prior to placing TMCR on contract.)***

1. *To use the fill-in boxes in the tables and matrices, double-click next to a box and change the “Default text” or “Default value” in the pop-up dialog box as required.*

**(NEW DEVELOPMENT) LINEAR TM TYPE (PUBLICATION) SELECTION TABLES.**

| **Table 1**  **TMSS Requirements for the (***\_\_\_\_\_***) Program**  *(System/Component)* | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Title or Type of Manuals** | | **Specification** | | | **Required** | |
| 1. Inspection TOs | | MIL-DTL-5096 | | |  | |
| a. Inspection and Maintenance Requirements (-6) Manual | |  | | |  | |
| b. Acceptance and Functional Check Flight (FCF) Procedures (-6CF) Manual | |  | | |  | |
| c. Acceptance and Functional Check Flight (-6CL) Checklist | |  | | |  | |
| d. Inspection Workcards (-6WC) | |  | | |  | |
| e. Maintenance/Operations Checklists | |  | | |  | |
| 2. Cargo Aircraft Loading and Offloading TOs | | MIL-DTL-5288 | | |  | |
| 1. Loading Instructions Manual | |  | | |  | |
| 1. Nuclear Weapon Cargo Loading Manual | |  | | |  | |
| c. Checklists | |  | | |  | |
| 3. Weight and Balance (Aircraft) | | MIL-DTL-5920 | | |  | |
| a. Loading Data Manual | |  | | |  | |
| b. Sample Basic Weight Checklists | |  | | |  | |
| 4. Flight Manuals | | MIL-DTL-7700 | | |  | |
| a. Flight Manual | |  | | |  | |
| b. Performance Data Manual | |  | | |  | |
| c. Mission Crew Manual | |  | | |  | |
| d. Supplemental Manual | |  | | |  | |
| e. Abbreviated Flight Crew Checklist | |  | | |  | |
| 5. List of Applicable Publications | | MIL-DTL-8031 | | |  | |
| 6. Structural Repair Manuals (for Aircraft) | | MIL-DTL-9854 | | |  | |
| 7. Munitions/Weapons Loading Procedures, Non- nuclear and Nuclear TOs | | MIL-DTL-9977 | | |  | |
| a. Nuclear Weapons Basic Information and Loading Procedures | |  | | |  | |
| b. Nuclear Weapons Loading Procedures | |  | | |  | |
| c. Non-nuclear Munitions Basic Information | |  | | |  | |
| d. Non-nuclear Loading Procedures | |  | | |  | |
| e. Non-nuclear Munitions Loading Standard Data Packages (SDPs) | |  | | |  | |
| f. Loading Procedures Checklist | | |  | | |  |
| g. Single Loading Procedures Checklist | | |  | | |  |
| h. Integrated Loading Procedures Checklists | |  | | |  | |
| i. Family Group Loading Procedures Checklist | |  | | |  | |
| j. Nuclear Weapons Loading Procedure Checklists | |  | | |  | |
| k. Functional Check Procedures Checklist | |  | | |  | |
| l. NATO Stage B Cross-Servicing Checklists | |  | | |  | |
| m. End of Runway (EOR) Procedures Checklist | |  | | |  | |
| 8. Space Operations and Support Documentation TOs  -- MIL-SPEC (Intercontinental Ballistic Missiles) | MIL-PRF-38311 | | | | | |
| 9. Nuclear and Non-nuclear Weapon Delivery and Aircrew Procedures  Manuals and Checklists | | MIL-DTL-38384 | | |  | |
| a. Non-nuclear Weapon Delivery Manual | |  | | |  | |
| b. Aircrew Nuclear Bomb Delivery Manual (Strategic Bomber Aircraft) | | | |  |  | |
| c. Aircrew Nuclear Missile Delivery Manual (Strategic Bomber Aircraft) | | | |  |  | |
| d. Aircrew Nuclear Bomb Delivery Manual (Tactical Aircraft) | |  | | |  | |
| e. Non-nuclear Weapon Delivery Checklist | |  | | |  | |
| f. Nuclear Weapon Delivery Checklist (Strategic Bomber Aircraft) | |  | | |  | |
| g. Aircrew Nuclear Bomb Delivery Checklist (Tactical Aircraft) | |  | | |  | |
| h. Non-nuclear Weapon Delivery Source Data Packages | |  | | |  | |
| 10. Work Unit Code Manual  a. Standard WUC Manual  b. Two Chapter Manual  c. Three Chapter Manual | | MIL-DTL-38769 | | |  | |
| 11. Calibration Procedures | | MIL-PRF-38793 | | |  | |
| 12. Time Compliance Technical Orders (TCTOs)  a. TCTO  b. TCTO Supplement | | MIL-DTL-38804 | | |  | |
| 13. Aircraft Battle Damage Assessment and Repair TOs | | MIL-DTL-87158 | | |  | | |
| 14. Illustrated Parts Breakdown | | MIL-DTL-38807 | | |  | | |
| 15. On-Equipment Organizational Maintenance Manual Set | | MIL-DTL-83495 | | |  | | |
| a. General Equipment (GE) Manual | |  | | |  | |
| b. General System (GS) Manuals | |  | | |  | |
| c. Combined GE & GS Manual | |  | | |  | |
| d. Job Guide (JG) Manuals | |  | | |  | |
| e. Fault Reporting (FR) Manual | |  | | |  | |
| f. Fault Isolation (FI) Manual | |  | | |  | |
| g. Wiring Data (WD) Manual | |  | | |  | |
| h. Schematic Diagram (SD) Manual | |  | | |  | |
| 16. Operation and Maintenance Instructions in Work Package Format | | MIL-DTL-87929 | | |  | |
| a. Maintenance Manuals | |  | | |  | |
| (1) Organizational Maintenance | |  | | |  | |
| (2) Intermediate Maintenance | |  | | |  | |
| (3) Depot Maintenance | |  | | |  | |
| (4) Combined (I&D) Maintenance | |  | | |  | |
| (5) On Condition Maintenance | |  | | |  | |
| b. Operation & Maintenance Instruction Manuals | |  | | |  | |
| c. Special Manuals | |  | | |  | |
| (1) Aircraft Engine Testing and Trending Procedures | |  | | |  | |
| (2) Aircraft Power Package Testing Procedures | |  | | |  | |
| (3) Static Firing of Missile Motors | |  | | |  | |
| (4) System Peculiar Corrosion Control | |  | | |  | |
| (5) Nondestructive Inspection (NDI) | |  | | |  | |
| (6) Aircraft Structural Integrity Program (ASIP) | |  | | |  | |
| (7) ATE Operator Test Procedures | |  | | |  | |
| (8) Special Requirements for Storage and Maintenance Procedures; AUR Munitions/Launchers and Associated Support Equipment, Conventional Components and CMBR Agents | |  | | |  | |
| (9) Parachute Packing Procedures | |  | | |  | |
| (10) Operators Instructions (Hand‑Held Flight Computers) | |  | | |  | |
| (11) Installation‑Engineering Facility (Ground C-E Equipment) | |  | | |  | |
| d. Checklists (IAW MIL-DTL-5096) | |  | | |  | |
| e. With Illustrated Parts Breakdown | |  | | |  | |

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| Above option will be on both (Checklists)17. Commercial Manuals (Evaluate according to MIL-PRF-32216) | | | |  |
| 18. Aircraft Cross-servicing Guide | | MIL-DTL-22202 | |  |
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**Table 2**

**Have Two separate Tables for each flowSustainment/Modification Updates TM Type Selections**

**NOTES:**

* Check all applicable boxes.
* For existing manuals not being updated to latest specification requirements, enter “Same style and format” under the specification heading.

| **TO Number, Title, or  Type of Manual or Chapter** | **Specification** | **Change** | **Revision** | **Supple­ment** | **Supple­mental TM** | **Source Data** |
| --- | --- | --- | --- | --- | --- | --- |
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| 20. |  |  |  |  |  |  |



**Table 3 – Linear TM Delivery Requirements**

**For**

*(System/Item)*

**Linear ONLY**

**NOTES:**

* For Paper media delivery indicate required quantity
* For all other media types indicate (Y)es or (N)o
* TCTO requirements are specified in the contract vehicle approving the TCTO.
* All SGML file delivers MUST include ALL graphic files.
* All TO files must not be password protected.

**If “Other” is selected, define media type and quantities: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| DELIVERY SCHEDULE | | | | | |
| Event Number of days data required **prior** to event  | In Process Review(s) (    Days) | Verification  (    Days) | Prepublication Review (    Days) | | Final TO Distribution |
| Enter physical mailing address, electronic delivery location or web access point (MAYBE BASE/OFFICE SYMBOL)  |  | | | | |
|  | Paper/  SGML/  IPDF /  XML /  Other (i.e., CGM Graphics)/ | Paper/  SGML/  IPDF /  XML /  Other/ | Paper/  SGML/  IPDF /  XML /  Other/ | Paper/  SGML/  IPDF /  XML /  Other/ | |
|  | Paper/  SGML/  IPDF /  XML /  Other/ | Paper/  SGML/  IPDF /  XML /  Other/ | Paper/  SGML/  IPDF /  XML /  Other/ | Paper/  SGML/  IPDF /  XML /  Other/ | |
|  | Paper/  SGML/  IPDF /  XML /  Other/ | Paper/  SGML/  IPDF /  XML /  Other/ | Paper/  SGML/  IPDF /  XML /  Other/ | Paper/  SGML/  IPDF /  XML /  Other/ | |
|  | Paper/  SGML/  IPDF /  XML /  Other/ | Paper/  SGML/  IPDF /  XML /  Other/ | Paper/  SGML/  IPDF /  XML /  Other/ | Paper/  SGML/  IPDF /  XML /  Other/ | |
| **Total Copies Required:** |  |  |  |  | |

**S1000D ONLY**



**Section 3. Specification/Standard Interface Records (SIRs)**

**TWO SEPARATE SECTION 3**

**NOTES:**

1. **All** **TMSS applicable to this contract** shall have an appropriately tailored SIR attached to this section.
2. 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.
3. Utilize the TMSS Tailoring Tool located at <https://techdata.wpafb.af.mil/tmss/index.html> by selecting all applicable TMSS requirements, and the desired tailoring options expressed in paragraphs 6.2. Attach the TMSS Tailoring Tool spreadsheet output in the specified section listed below.
4. Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from Acquisition Streamlining and Standardization Information System (ASSIST) web page, <https://assist.dla.mil/online/start/index.cfm>.
5. TMSS entries designated with A, F, M or N refer to Army, Air Force, Marine Corps or Navy requirements.
6. Comments (recommendations, additions, deletions) and any pertinent data which may be in use in improving Air Force TMSS documents should be submitted to AFLCMC/HIS, 4170 Hebble Creek Road, Bldg. 280, Door 15, Area A, Wright-Patterson AFB, Oh 45433-5653 or by email to; [SGMLsupport@us.af.mil](mailto:SGMLsupport@us.af.mil). Do not include the street address, a building number or a zip+4.

**Specification/Standard Interface Record for MIL-DTL-22202D**, 31 March 1999  
Supplement 1, 31 March 1999

**Manual, Technical, Aircraft Cross-Servicing Guide,**

**Preparation of**

The requirements of 6.2 are met in this SIR (see below).

1.1 In addition to paper delivery, when this specification is used to develop digital delivery files (document type definitions – DTDs) contact the PA for additional instructions.

2.3 Ensure the listing for STANAG/ASCC Air Standard Documents is current. List applicable STANAG/ASCC Air Standards below.

(List STANAG/ASCC Air Standard Documents here.)

2.2.1 (Added) “Other Government documents, drawings, and publications.”

DEPARTMENT OF DEFENSE

DODM 5200.1 DOD Information Security Program

DOD 5220.22-M National Industrial Security Program Operating Manual

4. Replace with: “4. **VERIFICATION.”**“All cross-servicing guides shall meet the requirements of sections 3 and 5 of this specification, as required by the acquiring activity. The requirements set forth in this specification shall become a part of the Contractor’s overall inspection system or quality program. The absence of any requirements in this specification shall not relieve the Contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Use of sampling inspections shall be at the discretion of the Contractor, and in accordance with commercially acceptable quality assurance procedures. However, use of sampling in QA procedures does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material.”

1. Replace with: “5. **PACKAGING.”**“5.1 Packaging Requirements. For acquisition purposes, the packaging requirements shall be as specified in the contract or order. When the actual packaging of material is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to determine packaging requirements. Packaging requirements are maintained by the Inventory Control Point’s packaging activity within the Military Department’s System Command. Packaging data retrieval is available from the Military Department’s or Defense Agency’s automated packaging files, CD-ROM products, or the responsible packaging activity.”  
   “5.1.1 Encoded Computer Products. Packaging of encoded computer products for delivery shall be in accordance with the requirements of MIL-STD-1840C, Automated Interchange of Technical Information.”  
   “5.1.2 Classified Material. Classified material shall be packaged and identified in accordance with DODM 5200.1, DOD 5220.22-M, and the implementing Service regulations.”

6.2a Title, number, and date of the specification are listed above.

6.2b Issue of DODISS: (*fill in issue of DODISS applicable to this contract*)

6.2c Packaging requirements (see above).

6.2d Verification requirements (see above).

**Specification/Standard Interface Record for {program\_mod\_system\_name}**

***The TMSS Tailoring Tool will be used to specify all Project SIR 6.2 options. It can be accessed utilizing the following URL*** <https://techdata.wpafb.af.mil/tmss/index.html>.  ***The user will attach the output of the tailoring tool under the Project SIR Requirements heading listed below.***

**Project SIR Requirements**

**Attachment 1**

**Graphics Format Guidelines**

***(Tailor this Attachment to acceptable Program Formats)***

**MAKE THIS SECTION AS DROP-DOWN Selections**

**GENERAL GUIDELINES**

* Single column graphics should not exceed 51 Picas High by 20 Picas Wide. (Paper only)
* Full page graphics should not exceed 51 Picas High by 42 picas Wide. (Paper only)
* Fold Out graphics should not exceed 51 Picas High (width on foldouts is not important). (Paper only)
* PNG graphics will not run with the Air Force software utilized to parse SGML files.
* Avoid creating art as PNG and saving in various formats which will fail.
* Compatible with the current government software and viewers.

**Encapsulated Post Script (EPS):**

* Raster based images will not be saved as EPS.
* EPS files shall not be a mix of vector and raster images. Vector only.
* Any source data (photos used for tracing etc.); used in aiding of creation of EPS (templates, etc.) will be deleted from illustration prior to saving/exporting.
* If multiple layers are used, then image is to be flattened into 1 single layer before exporting to minimize file size and reduce possible printing issues.

**Tagged Image File Format (TIFF):**

* Black and white raster images should only be saved as Bitmap and not Grayscale, RGB or CMYK.
* Grayscale or Color images (screenshots, etc.) will be saved as such (Grayscale, RGB or CMYK) and will not be bitmap converted using a halftone screen.
* To further aid in file size reduction for storage purposes, images should be compressed using Group 4 compression when saving/exporting.

**Computer Graphics Metafile (CGM):**

* Raster based images will not be saved as CGM.
* Any source data used in aiding of creation of CGM (templates, etc.) will be deleted from illustration prior to saving/exporting.
* CGM files shall not be a mix of vector and raster images. Vector only.
* If multiple layers are used, then image is to be flattened into 1 single layer before exporting to minimize file size and reduce possible printing issues.
* Unless Version 4 is specifically required for hotspots and/or hyper linking, CGMs should be exported as version 3 to increase cross platform compatibility.

**DWG File Format:**

* Raster based images will not be saved as DWG.
* DWG files shall not be a mix of vector and raster images. Vector only.
* Any source data used in aiding of creation of DWG (templates, etc.) will be deleted from illustration prior to saving/exporting.
* If multiple layers are used, then image is to be flattened into 1 single layer before exporting to minimize file size and reduce possible printing issues.

**Joint Photographic Expert Group (JPEG):**

* JPEG File format should be used as last resort. Color screenshots/photos should be saved as TIFFs due to possible system compatibility issues.
* B&W Bitmaps should not be saved as JPEGs.

**Portable Network Graphics (PNG):**

* Used for raster graphics
* Supports lossless data compression
* PNG files do not run thru the parser for the SGML files.

**Bitmap (BMP):**

* Used for raster graphics

**Scalable Vector Graphic (SVG)**

* Two-dimensional vector and mixed vector/raster graphics

**Attachment 2**

**BOTH FLOWS**

**REQUEST FOR TECHNICAL ORDER NUMBER**

1. **\*PRIME SYSTEM APPLICATION** (If Applicable or N/A)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. **\*CONTRACT NUMBER/PURCHASE REQUEST (PR) NUMBER:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. **\*MISSION DESIGN SERIES/NOMENCLATURE** (Name Of Equipment) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. **\*FEDERAL STOCK CLASS:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
5. **\*PART NUMBER**(s):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. **\*NSN/FSN:** (or temp NSN) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. **\*PUBLICATION TYPE** (Opn & Maint with IPB, Overhaul, WUC, IPB, LOAP, etc.) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. **\*SUGGESTED TECHNICAL ORDER NUMBER**:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. **\*RECOMMENDED TITLE OF MANUAL (Leave Blank if Classified)** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **\*CLASSIFICATION OF MANUAL**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. **\*CLASSIFICATION OF TITLE:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. **\*KIND OF EQUIPMENT** (Airborne / Ground / Not Applicable):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. **\*TEST EQUIPMENT? Yes / No**
5. PROGRAM ELEMENT CODE (PEC): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. LEAD COMMAND: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. DOES MANUAL EXIST FOR SAME/SIMILAR EQUIPMENT? **Yes / No**
8. EXISTING MANUAL TO NUMBER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. COMMERCIAL OFF THE SHELF (COTS) ITEM: **Yes / No**
10. CONTRACTOR INFORMATION: (If Applicable)
11. NAME OF VENDOR: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
12. ADDRESS: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
13. MANUFACTURER'S CODE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
14. POINT OF CONTACT: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
15. FOREIGN MILITARY SALES (FMS) YES \_\_\_ NO \_\_\_\_ (If YES, complete item 21)
16. COUNTRY CODES (For CSTO/FMS manuals): (See TO 00-5-19) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
17. COMMENTS:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**\* = Mandatory Field**