

DATA ITEM DESCRIPTION

Title: FORCE STRUCTURAL MAINTENANCE PLAN (FSMP)

Number: DI-SESS-82039

Approved Date: 20160412

AMSC Number: F9649

Limitation: N/A

DTIC Applicable: No

GIDEP Applicable: No

Preparing Activity: 11 (AFLCMC/EZFS)

Project Number: SESS-2016-013

Applicable Forms: N/A

Use/Relationship: The Force Structural Maintenance Plan (FSMP) will be applicable to any system acquisition that includes a requirement for an aircraft structural integrity program and shall be used to establish budgetary planning, force structure planning, and maintenance planning.

a. The information for the FSMP will be acquired from the technical requirements described in MIL-STD-1530 (USAF), *Aircraft Structural Integrity Program (ASIP)*. The FSMP describes what, when, where, how, and the estimated costs and downtime of required structural maintenance actions.

(Copies of the DID and MIL-STD-1530 are available online at <http://quicksearch.dla.mil>.)

b. This Data Item Description (DID) contains the format, content, and intended use information for the data deliverable resulting from the work task described in the solicitation.

Requirements:

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

2. Format. The FSMP shall be in the contractor's format.

3. Content. The specific approaches used for force structure maintenance planning of the system shall be documented utilizing the requirements specified in MIL-STD-1530 (USAF). The approaches established shall encompass all items procured under the contract and defined in the scope of work, including installation of government-furnished equipment.

a. The contractor shall prepare the report based on the interpretation and evaluation of tests and analyses and shall contain the following:

(1) Background and supporting information.

(2) Derivation of maintenance requirements to include summary of the current durability and damage tolerance (DaDT) analyses results, list and description of the DaDT critical parts, and the time of initial and repeat intervals.

(3) Maintenance requirements to include definition of what, when, where, how, and the estimated costs and downtime of all required structural maintenance actions to include visual inspections, Nondestructive Inspection (NDI), Structural Health Monitoring (SHM), measurements (e.g., control surface free-play), repairs, modifications, and component replacements.

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- (4) Near-term maintenance requirements.
 - (5) Maintenance schedule to include how the Individual Aircraft Tracking (IAT) program will be used to adjust the maintenance requirements for each aircraft based on its actual usage/environment.
 - (6) Cost and downtime estimates.
 - (7) Description of the recurring structural maintenance program (i.e., periodic, minor and major inspections, program depot maintenance (PDM), etc.).
 - (8) Description of the structural maintenance database development/methodology to be used to record all significant damage findings, such as cracks, corrosion, delaminations, disbonds, etc., discovered during field-level maintenance, depot-level maintenance, analytical condition inspections (ACI), technical order (TO) and time compliance TO (TCTO) structural inspections, and teardown inspections and their associated usage statistics at discovery, such as number of flight hours, landings, and/or ground-air-ground (GAG) cycles.
 - (9) Data necessary for budgetary planning, force structure planning, and maintenance planning.
 - (10) Other data, to include detail drawings necessary to develop the Air Force Technical Order Manuals.
- b. Initial FSMP will generally be based on the design loads/environment spectrum.
 - c. Updates to the FSMP are required when there are significant changes in operational usage and/or to incorporate the results of the DADTA, NDI, risk analysis, corrosion assessment, and ACI updates.

End of DI-SESS-82039