

DATA ITEM DESCRIPTION

Title: UNITED STATES AIR FORCE (USAF) CORROSION PREVENTION AND CONTROL PLAN DOCUMENTATION

Number: DI-MFFP-81972

Approved Date: 20140926

AMSC Number: F9501

Limitation: N/A

DTIC Applicable: No

GIDEP Applicable: No

Office of Primary Responsibility: 11 (AFLCMC/EZFS)

Applicable Forms: N/A

Use/Relationship: The USAF Corrosion Prevention and Control Plan Documentation Data Item Description (DID) is essential to providing the requirements for the system contractor to report specific information related to the selection of corrosion prevention and control.

This DID contains the format, content and intended use information for the data product generated by the specific and discrete task requirements as delineated in the contract.

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 cited in the ASSIST at the time of the solicitation.

2. Format. The contractor's format is acceptable.

3. Content. The contractor shall document specific requirements for the prevention and control of corrosion. The procedures established shall encompass all items procured under the contract and defined in the scope of work. The following document shall result from the implementation of the Corrosion Prevention and Control Program (CPCP).

3.1 Corrosion Prevention and Control Plan: The contractor shall prepare a corrosion prevention and control plan utilizing guidance and requirements as described in the latest versions of the following documents: *DoD Corrosion Prevention and Control Planning Guidebook for Military Systems and Equipment*, MIL-STD-1530 (USAF), *Aircraft Structural Integrity Program (ASIP)*, MIL-STD-1568, *Materials and Processes for Corrosion Prevention and Control in Aerospace Weapons Systems* and MIL-HDBK-1587, *Materials and Process Requirements for Air Force Weapon Systems*. This corrosion prevention and control plan shall address only those materials and processes intended to be used in this specific aerospace weapon system being procured. This includes installation of government furnished equipment.

(Copies of these documents are available online at <http://quicksearch.dla.mil>. Copies of the DoD Corrosion Prevention and Control Planning Guidebook are available at http://corrdefense.nace.org/corrdefense_Spring2014/CPCguidebook.pdf.)

The Corrosion Prevention and Control Plan shall address the following:

a. Corrosion Prevention Advisory Board (CPAB) Membership, Responsibility, and Authority: The board shall be comprised of representatives from engineering, manufacturing, quality assurance, sustainment and others involved in the design, engineering, development, and production of the aircraft structure.

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- b. Corrosion Prevention and Control Requirements: The requirements shall identify the necessary standards for an acceptable corrosion prevention and control program.
- c. Corrosion Prevention and Control Methods Applied: The methods applied shall specify actions to delay the onset of corrosion and minimize corrosion maintenance costs through the selection of materials, fabrication techniques, sealants, protective coatings, design features, and other measures that minimize the potential for corrosion throughout the structure.
- d. Evaluation of Corrosion Susceptibility: The evaluation shall identify locations where the structure might be susceptible to corrosion and the expected type(s) of corrosion (for example, exfoliation, uniform, crevice, intergranular, and stress-corrosion cracking, etc.) that could occur at these locations.
- e. Selection of Materials, Fabrication Technology, Sealant Protective Coating, Design Features and Other Measures to Achieve Corrosion Prevention and Control Requirements: Materials and processes, finishes, coatings, and films which have been qualified to meet specific performance either proven in service or by qualification testing shall be selected to prevent corrosion.
- f. Finish Specification: The finish specification shall follow MIL-STD-7179, *Finishes, Coatings, and Sealants, for the Protection of Aerospace Weapon Systems*. This specification document should identify the specific organic and inorganic surface pretreatments, coatings and other corrosion prevention and control materials and processes intended for use. After it has been approved by the responsible DoD procuring activity, all requirements from the specification document should be included in all applicable production drawings and maintenance documents.

(Copies of this document are available online at <http://quicksearch.dla.mil>.)

4. Schedule for Submission.

4.1 Corrosion Prevention and Control Plan: The initial draft of the Corrosion Prevention and Control Plan shall be submitted 60 days prior to the System Requirements Review (SRR). Revision of this document shall be accomplished to properly record a change to materials and processes being used for corrosion prevention and control. Through design studies, analysis of failure reports, and weapons systems inspections, data shall be collected which shall be analyzed for revisions to this document. Updates to the corrosion prevention and control plan shall be submitted 60 days prior to the System Design Review (SDR), 60 days prior to the Preliminary Design Review (PDR), 60 days prior to the Critical Design Review (CDR) and as required based on the needs to support the programs corrosion prevention and control.

5. End of DI-MFFP-81972.