

DATA ITEM DESCRIPTION

Title: PRODUCT ENGINEERING DESIGN DATA AND ASSOCIATED LISTS

Number: DI-SESS-81000F

Approval Date: 20190417

AMSC Number: 10017

Limitation:

DTIC Applicable:

GIDEP Applicable:

Preparing Activity: AR

Project Number: SESS-2019-023

Applicable Forms:

Use/relationship: Product Engineering Design Data and Associated Lists provide engineering data adequate to serve as an authoritative and complete technical description of an item. [REDACTED]

[REDACTED] This data represents the highest level of design disclosure.

a. This Data Item Description (DID) contains the format and content preparation instructions for Product Engineering Design Data and Associated Lists [REDACTED]

b. This DID is applicable to acquisitions of military systems, equipment, and components [REDACTED]

d. [REDACTED] This DID supersedes DI-SESS-81000E.

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. General [REDACTED]

[REDACTED] Product Engineering Design Data and Associated Lists shall provide the design disclosure information necessary to serve as a clear, complete and accurate technical description of an item [REDACTED]

[REDACTED] These design data shall:

a. Reflect the end product at its current level of design maturity.

b. Provide the engineering data for logistics support products.

[REDACTED]

3. Format. Product Engineering Design Data and Associated Lists shall be in either the contractor's format [REDACTED]

[REDACTED]

4. Content. Product Engineering Design Data and Associated Lists [REDACTED]

[REDACTED]

[REDACTED] shall document directly or by reference the following, as applicable:

a. Details of unique processes, i.e., not published or generally available to industry, when essential to design and manufacture.

b. Performance ratings.

c. Dimensional and tolerance data

.

[REDACTED]

[REDACTED]

f. Diagrams.

g. Mechanical and electrical connections.

h. Physical characteristics, including form, finishes, and protective coatings.

i. Details of material identification, [REDACTED]

[REDACTED]

j. Inspection, test and evaluation criteria.

[REDACTED]

[REDACTED]

[REDACTED]

n. Requirements for reliability, maintainability, [REDACTED]

[REDACTED]

o. Vendor substantiation data when required by the contract or purchase order.

5. Item definition. All parameters required to define each unit, assembly, subassembly, part or material shall be presented on the applicable design data document. This includes data such as:

a. All necessary mechanical dimensions to fully define fabrication, acceptance, interface or installation of the item depicted.

b. All necessary electrical parameters to fully define fabrication, acceptance, interface or installation of the item depicted.

6. CAGE code and document numbers. Product Engineering Design Data and Associated Lists shall be identified with the contractor's CAGE code and contractor document numbers [REDACTED]

7. Selection of design data. The types of design data (e.g. drawings, models, 3Di viewables, etc.) required shall be as stated in the [REDACTED] purchase order.

7.3. Standard Microcircuit Drawings. Standard Microcircuit Drawings (MIL-HDBK-780) shall be used to specify the requirements of microcircuits.

End of DI-SESS-81000F.

DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0188

1. TITLE Certification/Data Report		2. IDENTIFICATION NUMBER DI-MISC-80678	
3. DESCRIPTION/PURPOSE 3.1 Certification data is required to verify that specific qualifications have been obtained, tests have been performed, parts/assemblies/equipments/systems have been installed, tested, inspected and are ready for operation; that personnel have specific qualifications to perform assignments/operations/inspections; or to certify identifiability, interchangeability. (Continued on page 2.)			
4. APPROVAL DATE (YYMMDD) 880912	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) N/SEA 5523	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
7. APPLICATION/INTERRELATIONSHIP 7.1 Certification may be required for a single event/operation, or may be required for a specified time period, or certification may be required on a continuing basis with periodic re-certification or updating of the original certification. 7.2 The technical content requirements for this item shall be specified in the contract. [REDACTED]			
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS	9b. AMSC NUMBER N4533
10. PREPARATION INSTRUCTIONS 10.1 <u>Format</u> . The report shall be typewritten in narrative format on the contractor's form. The report shall cover the type of certification specified in Block 3, "Subtitle," of the CDRL, DD Form 1423. 10.2 <u>Content</u> . The report shall contain the contract number and data item sequence number, and shall contain a statement that specifically identifies the purpose and applicability of this certification. 10.2.1 <u>Certification of completion</u> . Certification that tests have been performed, inspections made, parts/assemblies/equipments/systems have been installed, tested, inspected, and are ready for operation, or that specific qualifications have been obtained shall provide objective evidence in support of the certification. Objective evidence may include such items as spectographs, radiographs, material sampling, analysis, inspection and testing reports, or any other necessary documentation. [REDACTED]			
(Continued on page 2.)			
11. DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.			

Block 3, Description/Purpose (Continued)

compatibility, reliability, or completeness of documentation being prepared or reviewed by a contractor. The technical effort involved will be the result of equipment/procurement specification requirements.

Block 7, Application/Interrelationship (Continued)

7.3 This DID supersedes UDI-A-23264B.

Block 10, Preparation Instructions (Continued)

10.2.4 Certification of compliance. Certification of compliance to specific specification requirements shall be a statement to the effect that the contractor has complied.

10.3 Technical content.

10.3.2 The technical content shall be as specified on the DD Form 1423, Contract Data Requirements List.

10.4 Supplemental information. Additional specific material, drawings, sketches, photographs, etc., in support of these certifications shall be as defined in the DD Form 1423.

10.5 Signature. The certification report shall be signed by the contractor's authorized representative responsible for insuring that the equipment being delivered/service being performed is in accordance with contract requirements.

DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0188

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 comparing 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 this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0180), Washington, DC 20503.

1. TITLE TEST/INSPECTION REPORT		2. IDENTIFICATION NUMBER DI-NDTI-80809B	
3. DESCRIPTION/PURPOSE 3.1 The test/inspection report is used to document test/inspection results, findings, and analyses that will enable the government or contracting agency to evaluate compliance with system requirements, performance objectives, specifications, and test/inspection plans.			
4. APPROVAL DATE (YYMMDD) 970124	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) F/AFMC-DOP	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
7. APPLICATION/INTERRELATIONSHIP 7.1 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. 7.2 This DID is applicable to engineering (developmental), preliminary qualification, qualification, and acceptance testing. 7.3 This DID supersedes DI-NDTI-80809A and DI-MISC-80653.			
8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER F7231	
10. PREPARATION INSTRUCTIONS 10.1 <u>Format</u> . Contractor format is acceptable. Organize the information required by paragraph 10.2 and its subparagraphs in a manner that facilitates presentation and understanding. 10.2 <u>Content</u> . The test/inspection report shall contain the following information, as applicable. 10.2.1 <u>Cover and title page</u> . The following information shall appear on the outside front cover and title page: a. Report date. b. Report number (contractor or government) c. Contractor's name, address, and commercial and government entity code. d. Contract number and contract line item number or sequence number (if applicable). e. Type of test/inspection (for example, first article acceptance test, quality conformance inspection, developmental test, qualification test, environmental test). f. Identification of item tested/inspected. g. Date or period of test/inspection. h. Name and address of requiring government activity.			
(Continued on page 2)			
11. DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.			

Block 10, Preparation Instructions (continued)

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

10.2.3.1 Test/inspection objective(s). The specific test/inspection objective(s) as specified in the contract tasking document.

10.2.3.2 Item(s) tested/inspected. Complete identification of the item(s) tested/inspected including the following:

- a. Nomenclature.
- [REDACTED]
- c. Model number, part number, and serial number
- [REDACTED]
- e. Serial or lot number.
- [REDACTED]
- g. Production item specification, if applicable.
- h. Date of manufacture.

10.2.3.3 Test/inspection requirements. Complete identification of the test/inspection requirements correlated to contractual requirements including the following:

- a. Required test/inspection parameters.
- b. Performance requirements, acceptance or compliance limits.

10.2.4 Summary. Complete test/inspection report summary including the following:

- a. A brief discussion of the significant test/inspection results.

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

10.2.6.4. Test/inspection results and analysis. A copy of all test/inspection results and analysis to include the following:

10.2.6.4.2 Test/inspection results. Identification of all test/inspection results to include the following:

a. Matrices comparing results achieved against test/inspection objectives or requirements.

10.2.6.6 Recommendations. Recommendations appropriate to the test/inspection results and conclusions including the following:

- a. Acceptability of the item tested/inspected (pass or fail).
-
-
-
-
- g. Documentation changes required.



10.2.7 Authentication. The following certifications shall be included, as applicable:

10.2.7.1 Authentication of test/inspection results. A statement that the test/inspection was performed in accordance with applicable test/inspection plans and procedures, and that the results are true and accurate. The authentication shall include the signature of the contractor personnel that performed the test(s)/inspection(s), a contractor representative authorized to make such certification, and any government witnesses.

10.2.7.2 Authentication of prior validation. A statement identifying those requirements not tested/inspected or measured that were previously validated. Include identification of the data and method employed for such validation (for example, prior test/inspection, analytical verification, equivalent item, and so on). The authentication shall include the signature of a contractor representative authorized to make such authentication and any government witness.

10.2.7.3 Authentication of acceptability. A statement that the item tested/inspected either passed or failed item acceptability requirements. This authentication shall include the signature of a contractor representative authorized to make such authentication and any government witness.



DATA ITEM DESCRIPTION

Title: ANALYTICAL CONDITION INSPECTION (ACI) REPORT

Number: DI-MISC-81391A

Approval Date: 20180326

AMSC Number: F9914

Limitation: N/A

DTIC Applicable: No

GIDEP Applicable: No

Preparing Activity: 11 (AFLCMC/EZFS)

Project Number: MISC-2018-008

Applicable Forms: N/A

Use/Relationship: The Analytical Condition Inspection (ACI) Report will be used to reveal damage (flaw, defect, crack, corrosion, disbond, delamination, discontinuity, or other type that degrades or has the potential to degrade the performance of the affected component) that may not otherwise be detected through normal technical order (TO) [REDACTED]

[REDACTED] inspections and to provide data for engineering and technical evaluations of the relative condition of the mission, design, [REDACTED]

This DID contains the format, content and intended use information for the data deliverable [REDACTED]

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 ACI Report shall be in the contractor's format.

3. Content. The ACI Report shall include the following information:

- 3.1 ACI Work Instructions - for each inspection/inspection location:

- a. Identification number.

- b. Part name/description of article to be inspected.

- e. Area/location of inspection.

DISTRIBUTION STATEMENT A. Approved for public release. Distribution is unlimited.

[REDACTED]
h. Type of inspection.
[REDACTED]
[REDACTED]

3.2 ACI Inspection Results:

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

b. Information for each inspection location:

- (1) ACI work instruction identification number.
- (2) Date of inspection.
- (3) Description of inspected article condition.
- (4) If damage found, damage classification (minor, major, or critical):
 - (a) Detailed description, sketches, drawings, and photographs documenting damage, for damage types, sizes, locations, and orientations.

[REDACTED]
[REDACTED]
[REDACTED]
(e) Engineering and nondestructive inspection records.
[REDACTED]

- (5) Record of inspection:
 - (a) Date and time of inspection.
 - (b) Name and organization of inspector.
 - (c) Location of inspection [REDACTED]

c. Summary of results and recommendations.

- (1) Summary of inspection findings.

(2) Prioritized list of critical and major findings.



End of DI-MISC-81391A.

DATA ITEM DESCRIPTION

Title: STATIC TEST REPORTS

Number: DI-SESS-82038

Approved Date: 20160412

AMSC Number: F9648

Limitation: N/A

DTIC Applicable: No

GIDEP Applicable: No

Preparing Activity: 11 (AFLCMC/EZFS)

Project Number: SESS-2016-012

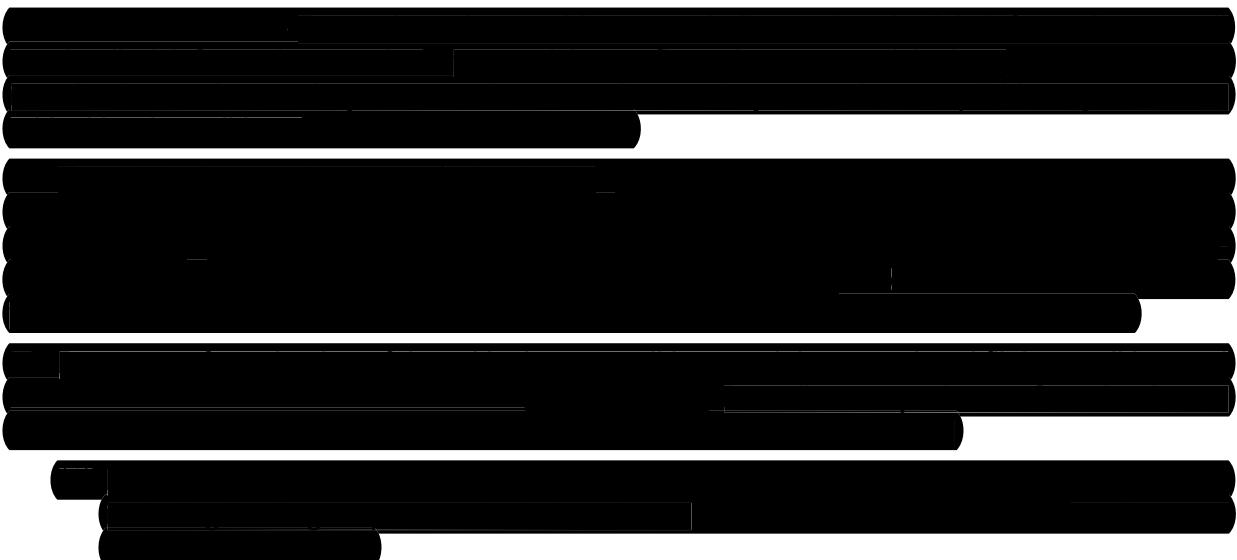
Applicable Forms: N/A

Use/Relationship: The static test reports consist of a static test plan, static test progress and static test final reports. These reports will be used by the procuring agency to evaluate the suitability of the planned static test, to assess static test progress, and to verify the actual static strength as well as to document the data collected to substantiate the contractor's strength analysis.



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 reports shall be in the contractor's format.
3. Content. The Static Test Reports shall contain the following:

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

3.2 Static Test Progress Report - This report shall contain details for static testing progress and include the following:

b. Deviations from the test plan.

e. Inspection results including any elastic buckling, permanent buckling, and failures with photographs for each.

3.3 Final Static Test Report - This report shall describe each test condition and data obtained and shall include the following:

- a. Details of test results and conclusions and necessary changes to production and delivered aircraft.
- b. Load versus deflection plots at locations throughout the test article and any location with permanent deformation.
- c. Instrumentation measurements compared to predictions for each location and condition.
- d. Final inspection results including any elastic buckling, permanent buckling, and failures with photographs for each.

End of DI-SESS-82038

DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0188

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 comparing 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 this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0180), Washington, DC 20503.

1. TITLE TEST/INSPECTION REPORT		2. IDENTIFICATION NUMBER DI-NDTI-80809B	
3. DESCRIPTION/PURPOSE 3.1 The test/inspection report is used to document test/inspection results, findings, and analyses that will enable the government or contracting agency to evaluate compliance with system requirements, performance objectives, specifications, and test/inspection plans.			
4. APPROVAL DATE (YYMMDD) 970124	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) F/AFMC-DOP	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
7. APPLICATION/INTERRELATIONSHIP 7.1 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. 7.2 This DID is applicable to engineering (developmental), preliminary qualification, qualification, and acceptance testing. 7.3 This DID supersedes DI-NDTI-80809A and DI-MISC-80653.			
8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER F7231	
10. PREPARATION INSTRUCTIONS 10.1 <u>Format</u> . Contractor format is acceptable. Organize the information required by paragraph 10.2 and its subparagraphs in a manner that facilitates presentation and understanding. 10.2 <u>Content</u> . The test/inspection report shall contain the following information, as applicable. 10.2.1 <u>Cover and title page</u> . The following information shall appear on the outside front cover and title page: a. Report date. b. Report number (contractor or government) c. Contractor's name, address, and commercial and government entity code. d. Contract number and contract line item number or sequence number (if applicable). e. Type of test/inspection (for example, first article acceptance test, quality conformance inspection, developmental test, qualification test, environmental test). f. Identification of item tested/inspected. g. Date or period of test/inspection. h. Name and address of requiring government activity.			
(Continued on page 2)			
11. DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.			

Block 10, Preparation Instructions (continued)

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

10.2.3.1 Test/inspection objective(s). The specific test/inspection objective(s) as specified in the contract tasking document.

10.2.3.2 Item(s) tested/inspected. Complete identification of the item(s) tested/inspected including the following:

a. Nomenclature.

[REDACTED]

[REDACTED]

[REDACTED]

h. Date of manufacture.

10.2.3.3 Test/inspection requirements. Complete identification of the test/inspection requirements correlated to contractual requirements including the following:

a. Required test/inspection parameters.
b. Performance requirements, acceptance or compliance limits, and environmental criteria.

10.2.4 Summary. Complete test/inspection report summary including the following:

a. A brief discussion of the significant test/inspection results.

[REDACTED]

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

10.2.6.4. Test/inspection results and analysis. A copy of all test/inspection results and analysis to include the following:

10.2.6.4.2 Test/inspection results. Identification of all test/inspection results to include the following:

a. Matrices comparing results achieved against test/inspection objectives or requirements.

6. Calculation examples

- b. The success or failure of the item to meet required test/inspection objectives.
- c. The need for repeat, additional, or alternative tests/inspections.
- d. The need for item redesign or further development.

[REDACTED]

[REDACTED]

10.2.6.6 Recommendations. Recommendations appropriate to the test/inspection results and conclusions including the following:

- a. Acceptability of the item tested/inspected (pass or fail).
- b. Additional testing/inspection required.

[REDACTED]

[REDACTED]

- f. Disposition of items tested/inspected.
- g. Documentation changes required.

10.2.7 Authentication. The following certifications shall be included, as applicable:

10.2.7.1 Authentication of test/inspection results. A statement that the test/inspection was performed in accordance with applicable test/inspection plans and procedures, and that the results are true and accurate. The authentication shall include the signature of the contractor personnel that performed the test(s)/inspection(s), a contractor representative authorized to make such certification, and any government witnesses.

10.2.7.2 Authentication of prior validation. A statement identifying those requirements not tested/inspected or measured that were previously validated. Include identification of the data and method employed for such validation (for example, prior test/inspection, analytical verification, equivalent item, and so on). The authentication shall include the signature of a contractor representative authorized to make such authentication and any government witness.

10.2.7.3 Authentication of acceptability. A statement that the item tested/inspected either passed or failed item acceptability requirements. This authentication shall include the signature of a contractor representative authorized to make such authentication and any government witness.

[REDACTED]

[REDACTED]

[REDACTED]

DATA ITEM DESCRIPTION

Title: Equipment Installation Instructions

Number: DI-MISC-81321A

Approval Date: 20130419

AMSC Number: N9364

Limitation: N/A

DTIC Applicable: N/A

GIDEP Applicable: N/A

Office of Primary Responsibility: AS/PMA-207

Applicable Forms: N/A

Use/Relationship:

This Document provides equipment installation, operation, and maintenance instructions.

This Data Item Description (DID) contains the format, content, and intended use information, and content preparation instructions for the data product resulting from the work task described in the contract [REDACTED]
[REDACTED]

This DID supersedes DI-MISC-81321.

Requirements:

1. Format: The data shall be in Contractor format [REDACTED]
[REDACTED]

2. Content: The Equipment Installation Instructions shall have a title page containing the title, date, application, and document number.

Section 1. Installation Instructions. The equipment installation instructions include step-by-step assembly, mounting [REDACTED] procedures, and [REDACTED]
[REDACTED] procedures to demonstrate that the equipment is operating correctly. [REDACTED]
[REDACTED]

[REDACTED] The instruction shall include dimensions of the equipment, [REDACTED]
[REDACTED] and pictures [REDACTED]

[REDACTED] The instructions are in sufficient detail to enable a technician with little or no formal training on the equipment to perform installation functions.

Section 2. Operations Instructions. The operations instructions contain the complete, step-by-step description

of all operating procedures. The instructions are in sufficient detail to enable a technician with little or no formal training on the equipment to perform operational functions.

Section 3. Maintenance Instructions. The maintenance instructions contain the complete, step-by-step description of the following for each subsystem and assembly:

- a. All maintenance procedures and adjustments performed during installation.
- b. All maintenance procedures and actions required to diagnose and locate any fault of any part of the system during and after installation.



3. The instructions are in sufficient detail to enable a technician with little or no formal training on the equipment to perform maintenance functions.

4. END OF DI-MISC-81321A.