CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER X
	A	

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
C5 Aircraft/Surface Panels		

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A001	Technical Data Package Review Report	C-5 Galaxy	

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-MISC-80750	SOO Paragraph 2.5	WR-ALC/LTSB	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	See Block 16	See Block 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
A		See Block 16	See Block 16

16. REMARKS

Initial Data Overview results shall be submitted 90 days after contract award. Subsequent detail reviews by National Stock Number shall be due 30 days after acceptance of each individual first article. The government shall have 15 days to review these draft data audits. Each final data audit incorporating government comments shall be due 15 days after receipt of government comments. The final data review incorporating each individual data audit shall be submitted in draft 60 days after acceptance of the last first article on each order. The government shall have 15 days to review final report. The contractor has 15 days after receipt of government comments to prepare and deliver final review.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
WR-ALC/LTSB	2	2	
216 Ocmulgee Ct			
Robins AFB, GA			
31098-1643			
Email Address:			
michael.williamson			
@robins.af.mil			
kelly.lucero@			
robins.af.mil			
15. TOTAL →	2	2	0

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Samanda Matthias	29 Sept 03		9/29/03

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:
	A	TDP _____ TM _____ OTHER X

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
C5 Aircraft/Surface Panels		

16. REMARKS *(Continued)*

INSTRUCTIONS FOR COMPLETING DD FORM 1423

(See DoD 5010.12-M for detailed instructions.)

FOR GOVERNMENT PERSONNEL

Item A. Self-explanatory.

Item B. Self-explanatory.

Item C. Mark (X) appropriate category: TDP - Technical Data Package; TM - Technical Manual; Other - other category of data, such as "Provisioning,""Configuration Management," etc.

Item D. Enter name of system/item being acquired that data will support.

Item E. Self-explanatory (to be filled in after contract award).

Item F. Self-explanatory (to be filled in after contract award).

Item G. Signature of preparer of CDRL.

Item H. Date CDRL was prepared.

Item I. Signature of CDRL approval authority.

Item J. Date CDRL was approved.

Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.

Item 2. Enter title as it appears on data acquisition document cited in Item 4.

Item 3. Enter subtitle of data item for further definition of data item (optional entry).

Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.

Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).

Item 6. Enter technical office responsible for ensuring adequacy of the data item.

Item 7. Specify requirement for inspection/acceptance of the data item by the Government.

Item 8. Specify requirement for approval of a draft before preparation of the final data item.

Item 9. For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoDD 5230.24).

Item 10. Specify number of times data items are to be delivered.

Item 11. Specify as-of date of data item, when applicable.

Item 12. Specify when first submittal is required.

Item 13. Specify when subsequent submittals are required, when applicable.

Item 14. Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.

Item 15. Enter total number of draft/final copies to be delivered.

Item 16. Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14.; Desired medium for delivery of the data item.

FOR THE CONTRACTOR

Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.

a. Group I. Definition - Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

DATA ITEM DESCRIPTION

Form Approved OMB No. 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
Technical Data Package Review Report	DI-MISC-80750

3. DESCRIPTION/PURPOSE

3.1 The Technical Data Package Review Report specifies deficiencies or improvements in technical data packages that must be corrected prior to start of production or prior to release of data for other authorized use.

3.2 The report shall serve as a basis for monitoring the submission of Engineering Change Proposals (ECP).

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
890123	A/AMC-MI		

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 Submission of this report does not waive the requirement for the submission of an ECP.

7.3 This DID supersedes DI-E-1127.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER
		A4621

10. PREPARATION INSTRUCTIONS

10.1 Format. The Technical Data Package Review Report format shall be contractor selected. Unless effective presentation would be degraded, the initially used format arrangement shall be used for all subsequent submissions.

10.2 Content. The Technical Data Package Review Report content shall certify as to the following:

a. Adequacy and accuracy of drawing dimensions, fits and tolerances.

b. Adequacy and accuracy of all mechanical and electrical circuitry.

c. Adequacy of test procedures to assure conformity with requirements.

(Continued on Page 2)

11. DISTRIBUTION STATEMENT

DISTRIBUTION STATENENT A:
Approved for public release; distribution is unlimited.

Licensed by Information Handling Services

Block 10, Preparation Instructions (Continued)

d. Overall completeness and adequacy of all documentation for manufacturing purposes.

e. Adequacy and accuracy of supplementary quality assurance provisions.

10.2.1 Error listing. The report shall list the documentation found to be in error and unsatisfactory for the production and test of the item. When errors are found in the documentation, the report shall list the document by nonmenclature (e.g., number, title, revision level, date), provide a description of the error and specify the reason for the proposed change. When extensive changes are applicable to a drawing/document, a marked up copy of the drawing/document shall be attached.

10.2.2 Contractor statement. The report shall include a statement that the contractor has ascertained that all of the Technical Data Package documentation, with the proposed changes, are adequate for production.

U.S. GOVERNMENT PRINTING OFFICE: 1989 - 651-072/00010

Licensed by Information Handling Services

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER X
	A	

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
C5 Aircraft/Surface Panels		

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A003	Product Drawings and Associated Lists	Tooling Data Package

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-DRPR-81000A/T	SOO Paragraph 5.2.3	WRACK/LTSB

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
SD	N/A	One/R	See Block 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
A		N/A	See Block 16

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

16. REMARKS

NOTE:AIR FORCE (CAGE CODE 98752) drawing 9579776 latest revision is a part of this CDRL. A copy of the drawings maybe requested through the Procurement Contracting Officer.

NOTE:The contractor shall provide new Level III Technical Data Packages and Associated Lists in conformance with Data Item Description DI-DRPR-81000A/T.

Block :13

Revisions due 200 days after each individual first article.

Drawing Master Native CAD/CAE data shall be as follows:The data file format shall be compatible with CATIA using the native binary format supported by the CATIA CAD system and delivered on CD-ROM. CAD/CAE system media shall be clearly labeled to describe the media format method, content and media density. Data shall be organized as one drawing per file with multiple sheets permitted. All information necessary to open and manipulate the data files, including libraries, logical name definitions and other supporting files, shall be delivered with drawing files. Non - vendor supported "utilities" (i.e. software products) shall not affect the data transfer integrity of the product information delivered under the contract.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
WRACK/LTSB	2	2	
216 Accumulate CT			
Robins AFB, GA			
31098-1643			
Email Address:			
michael.williamson	1	1	
@robins.af.mil			
kelly.lucero@	1	1	
robins.af.mil			
15. TOTAL →	4	4	0

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Jawanda Matthews	29 Sept 03	[signature]	9/29/03

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

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C5 Aircraft/Surface Panels		

16. REMARKS *(Continued)*

INSTRUCTIONS FOR COMPLETING DD FORM 1423

(See DoD 5010.12-M for detailed instructions.)

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CONTINUATION OF DD FORM 1423 (DI-DRPR-81000A/T) Dtd 26 MAR 02

BLOCK 4:

DI-DRPR-81000A is tailored as follows:

a. Paragraph 7.1, delete in its entirety.

b. Paragraph 10.1, delete in its entirety and replace with "10.1 Reference Documents. The applicable documents apply as cited in the DD Form 1423 and continuation sheets."

c. Paragraph 10.2, delete "Product drawings and associated lists shall meet the requirements of MIL-DTL-31000A".

d. Delete Paragraph 10.3 in its entirety and replace with "10.3 Drawing Forms. The contractor shall utilize their own forms for Product Drawings and Associated Lists, which meet the requirements of ANSI Y14.1. (The government does not furnish forms for drawing formats)"

e. Paragraph 10.4, delete "Product Drawings and Associated Lists shall conform to the requirements of ASME Y14.100M, ASME Y14.34M and, where DoD peculiar requirements must be met, MIL-STD-100" and replace with "Product Drawings and Associated Lists shall conform to the requirements of MIL-STD-100F, ASME Y14.24, ASME Y14.35M, ASME Y14.34M and DD Form 1423."

f. Paragraph 10.6, delete "Selection Work Sheet incorporated in the contract or purchase order." and replace with "DD Form 1423."

g. Paragraph 10.7, delete "The Selection Work Sheet incorporated in the contract or purchase order will specify whether the contractor or the Government is responsible for selecting the types of drawings and lists." and replace with "The contractor is responsible for selecting the types of drawings and lists."

BLOCK 9:

DISTRIBUTION STATEMENT. Distribution statements shall be in accordance with DoD Directive 5230.24 and included on the first sheet of each drawing near the title block, and shall be as follows:

"DISTRIBUTION STATEMENT C. Distribution authorized to US Government agencies and their contractors; Critical Technology; XX DATE XX. Other requests shall be referred to WR-ALC/LAES."

Note: Certain types of technical data preclude placing the entire notice on the document. To accommodate this problem an abbreviated version is authorized as follows:

"Statement C, Gov't and contractors, (controlling DoD office)"

EXPORT CONTROL NOTICE. The Export Control Notice shall be in accordance with

DoD Directive 5230.24.

DESTRUCTION NOTICE. Mark documents with one of the following:

a. For unclassified limited documents: "DESTRUCTION NOTICE. Destroy by any method that will prevent disclosure of contents or reconstruction of the document."

b. For classified documents: "DESTRUCTION NOTICE. Follow the procedures in DoD 5220.22-M, *Industrial Security Manual*, section 11-19, or DoD 5200.1R, *Information Security Program Regulation*, chapter IX."

BLOCK 10: Revisions/changes to the final delivered data shall be furnished quarterly, commencing the first quarter after destination acceptance of the final reproducible data and continue until the contract is closed. Quarterly updates shall include an updated IDL, reference A.F. Drawing 9579776. Negative reports shall be submitted to WR-ALC/TILCB.

BLOCK 11: 15 days

BLOCK 12 AND 13:

1. All data submittals shall contain a shipping list prepared to include as a minimum, the document number, revision level, and number of sheets/pages. Part number, noun and drawing size is optional. The data delivered shall be in the same sequence as the shipping list. Unless prior approval is granted by WR-ALC/TILCB, shipments of data must be for complete assemblies, i.e., LRU's and SRU's. Shipping list shall specify whether the shipment is updates, final or make-up.

2. When a specific revision of an engineering document has been previously furnished and approved by a USAF Engineering Data Repository in microfilm or digital form as a result of any government contract, and is required by this DD Form 1423, the same data shall not be resubmitted providing it meets the requirements in the DD Form 1423 for existing data. This data shall be identified as being previously submitted and approved and shall include the document number, revision, and contract number under which the data were submitted. The receiving USAF Engineering Data Repository shall be identified. This action is required concurrent with all submittals.

3. Within 90 days after successful government verification of the prototypes, one set of paper copies of all "final reproducible data" (reference Block 14 of the DD 1423) shall be delivered. Submittal shall be accompanied by a letter of transmittal. Paper copy submittal will be reviewed within 90 days after receipt of data, unless additional time is required, at which time the contractor will be notified.

a. Submittal of programming files, per Air Force (CAGE 98752) drawing 9579776, Software and Firmware Data is not required for this (paper) submission.

b. Concurrent with the paper copies the contractor shall submit four (4) representative samples of each digital data format per Air Force (CAGE 98752) drawing 9579776, (Native, Neutral, HPGL, Drawing Metadata Spreadsheet, etc.).

Standards, specifications and related publications issued by the Government outside the military or federal series for the non-repetitive acquisition of developmental items.

Priority V
Company Specifications

6. ENGINEERING DRAWING PRACTICES: The contractor shall use the practices described in MIL-STD-100F. For clarification the documents listed in paragraph 2 of MIL-STD-100F shall be considered first tier and shall apply. ANSI Y14.1 is tailored as follows: Para 7.1, remove "should", and add "shall". Paragraph 12.2 add, "Sheets shall be numbered beginning with one (1) and continue, using consecutive whole integers." The contractor may find it useful to incorporate the concepts of MIL-HDBK-288 into the preparation of the TDP. MIL-HDBK-288 refers to Engineering Drawing Package (EDP); this term shall be considered synonymous with TDP.

7. Source Control Drawings: Source Control Drawing Approval Requests shall be submitted. The request (letter) shall be submitted to the requiring office in Block 6 of this DD Form 1423 prior to the preparation or use of a Source Control Drawing. The letter shall be marked with Distribution Statement "A" in accordance with DoD-D-5230.24. Preparation instructions are as follows:

a. Format - The Source Control Drawing Approval Request shall be in the contractor's format.

b. Content - The request shall specify the following:

(1) Nomenclature and description of the item.
(2) The critical application (s) for which the item is to used.
(3) Number of applications per end item.
(4) Item status as a repair part.
(5) System performance requirements requiring source qualification.
(6) Procedures and criteria required to qualify a source.
(7) Sources of supply and manufacturers' part numbers.
(8) Cost of the item involved.
(9) Estimated cost to qualify a source.
(10) Impact on contract cost, schedule and performance if use of source control drawing is not permitted.
(11) Copy of the Non-standard part approval request, if the DoD Parts Control Program is applicable under the contract or purchase order.

8. Control Drawings: The contractor shall not identify his own company as a source on control drawings, unless one additional source is also shown. A separate division of the contractor's company, with a different manufacturers code (CAGE) may be shown, if it is actually a source. Control drawings not developed for this contract (existing drawings) shall be updated, to show current information (i.e., performance/qualification requirements, vendors/sources names and part numbers).

9. Existing Data: When existing data meets the following criteria, or will be modified or revised to meet the following criteria, it shall be used in lieu of preparing new data:

a. It is furnished with rights-in-data consistent with the contract stipulations regarding data rights.

b. It is furnished at a cost to the government equal to or less than preparing new data.

c. It meets the highest quality of legibility and reproducibility available in the commercial world. (Reproduced paper copies shall be direct reading and shall not require magnification).

d. It meets the design disclosure requirements of the TDP element of which it is to be a part of.

e. It is identified by a Commercial and Government Entity (CAGE) Code, document number, title and applicable contract number(s).

f. Any nonstandard symbols, drawing or documentation practices used are explained in the document or in a document referenced on the document containing the nonstandard symbol or practice.

Note: Any revisions to existing Government CAGE non CAD data shall be redrawn in AutoCad and shall meet the contractual requirements for new Air Force drawings.

10. Legibility and Reproducibility: All documents prepared or submitted shall meet the highest legibility and producibility requirements available in the commercial market controlling the media in which the data is to be delivered.

11. Parenthetical Information: Design activity identifying numbers may be referenced parenthetically to identify in-house peculiar documents (documents not necessary for the production and quality of the item). Parenthetically identified documents are not a required deliverable; however, if the government deems this document necessary, it shall be delivered. Engineering drawings and Part Lists (PL) using parenthetical identification shall carry a note thereon indicating parenthetical identities are for reference only.

12. Referenced Documents: Documents referenced in a TDP shall be furnished as an integral part of that TDP except where the documentation meets the requirement of the paragraph titled Existing Data above, and has been furnished and approved under a previous contract in the same revision to any USAF repository. When first tier references do not provide the technical information required by the TDP element, subordinate reference documents shall be provided until the design disclosure requirements are met. Technical manuals/orders, procedural manuals, and maintenance manuals shall not be referenced within the TDP. When information essential to meeting TDP design disclosure requirements (such as default surface finish values) are contained in such documents, that information must be incorporated in a document acceptable for inclusion in the TDP.

13. Protecting Classified Information: TDPs or parts thereof, containing classified information shall be protected and marked in accordance with the Department of Defense Industrial Security Manual for Safeguarding Classified Information, DoD Manual 5220.22-M.

14. Contract Numbers: When a TDP document is prepared under a Government contract, the Government contract number under which it is prepared shall appear on the first sheet of the document original. When a TDP document is delivered under a Government contract other than

the one under which it was prepared, the Government contract number under which it is delivered shall also appear on the first sheet of each copy submitted. If the document is prepared and submitted under the same contract, only the entry for the contract under which it is prepared is required.

15. Application of Contract Numbers: When TDP documents or copies thereof are to be delivered under a subsequent or other contract, cost effective techniques may be used to apply the delivery contract numbers. Examples of such techniques are using a rubber stamp for paper copies, photographic overlays for microfilm, or electronic application to digital data.

16. Application Block: All new and revised drawings shall contain an Application Block. The Application Block is mandatory for all drawings. The Application Block shall be near the Title Block. The Application Block shall show the "Next Assembly" and "Used On". When an item is used in more than three applications, the entry "general usage" may be used.

17. Environmental Stress Screening (ESS): TDP documents shall contain ESS criteria, and the implementation of that criteria, necessary to ensure system performance at design levels directly or by reference on TDP elements.

a. Selected item drawings are required for all items and assemblies that require the application of ESS selection criteria to meet system requirements. The TDP element shall define, directly or by reference, the ESS selection criteria applied to the item or assembly identified.

b. Incoming ESS inspection procedures used on materiel/items which do not require selected item drawing delineation shall be required directly or by reference on the TDP element identifying that materiel/item.

c. Any ESS utilized during manufacturing/production in addition to the selected item ESS or incoming inspection criteria, shall be required either directly or by reference on applicable TDP documents.

18. Traceability: The contractor shall prepare the TDP in such a manner to insure that all applicable documents i.e., Artwork, Schematics, and Test Criteria, etc., are referenced within the TDP for traceability.

19. Preparation Method: American English language shall be used in the preparation of this TDP. All drawings shall be prepared using Third Angle Orthographic Projection method of presentation. The symbol for angle of projection shall be delineated in the Title Block of newly prepared or revised engineering data. (see ANSI Y14.3 figure 2).

20. TDP Validation: The contractor shall validate that the TDP and elements thereof conform to the contractual requirements, and that they accurately depict the item(s) developed, modified, or produced under the contract. Successful use of the TDP in producing, inspecting and testing the item(s) is considered acceptable evidence that the validation requirement has been met.

21. Associated Lists: Parts Lists per ASME Y14.34M-1989 are required. Parts Lists are required at assembly level. Parts Lists for Contractor Activity identifier CAGE code may be an

integral part of a document or it may be a separate document. An Indentured Data List at top assembly/system level is required per Air Force (CAGE 98752) drawing 9579776.

22. Marking: Drawings shall specify requirement for marking part number identification on items as required by MIL-STD-130 and other applicable documents referenced therein. The drawings shall identify the method and location of marking on the part.

23. Engineering Data Updates and Revisions: The contractor shall (and shall cause subcontractors and vendors to) update and maintain engineering data for the item(s) designed/developed/modified/produced by this contract for the life of this contract and shall incorporate all changes in accordance with the following:

a. All engineering changes shall be incorporated into the applicable engineering data within 90 days after engineering release/Government concurrence or at intervals of five changes, whichever occurs first, except a change involving safety, which shall be incorporated immediately.

b. All engineering changes shall be incorporated into the applicable engineering data prior to delivery of preliminary data for review.

c. All engineering changes shall be incorporated into the applicable engineering data prior to delivery of final media (this includes all EO's generated as a result of the preliminary data review).

24. Contractor Quality Control System: The contractor shall develop and maintain a quality control system for the detailed examination and technical review of the TDP, to be supplied under the terms of the contract or purchase order. The quality control system shall assure conformance of the TDP to all requirements specified herein. The quality control system shall be documented and subject to review by the Government's representative. If the contractor's methods and procedures do not comply with the quality control system or do not attain their objectives, the quality control system shall be subject to disapproval by the Government.

25. TDP Quality Control System Requirements: The contractor's quality control system shall address:

a. The methods and procedures to be used to control the development, maintenance and delivery of the TDP, including the use of electronic approvals or authorizations, if applicable.

b. Assignments of responsibilities and procedures for the detailed examination, review and final approval of the TDP by the contractor.

c. Qualifications of the personnel performing the examinations and reviews of the TDP.

d. Procedural flow of information and documentation within the organization for the development, review and approval processing of the TDP and components thereof.

e. Procedures for ensuring that nonstandard items used in the design have been documented as required for the TDP.

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f. Methods of ensuring that approved engineering changes have been incorporated into the TDP in accordance with contract requirements.

g. Procedures for ensuring that security markings, distribution statements, and right-in-data legends are assigned and applied in accordance with applicable specifications, standards, regulations and public laws.

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26. Inspection of TDP: The TDP components thereof, including data prepared by subcontractors, shall be inspected for the following:

a. Compliance with the requirements of this contract.

b. Inclusion of all documents, including sub-tier references, required to meet the design disclosure requirements of the TDP, except those already furnished to the government as referenced in paragraph above titled "Referenced Documents".

27. In-Process Review (IPR): The contractor shall support, and an IPR of the engineering drawings and associated lists and other documentation to be included in the TDP. The contractor will have a copy of all data available at IPR. The IPR will be conducted only after the contractor's quality assurance personnel have completely reviewed the data and determined that data are of sufficient quality that Government time will be effectively utilized during the review. IPR may be scheduled when data has reached the 50% percent completion point and shall be held, when possible, in conjunction with other reviews (i.e., PDR, CDR). The contractor shall notify WR-ALC/TILCB a minimum of 30 days prior to the anticipated date of completion point. The IPR shall focus on the contractor's progress in the preparation of the TDP. The contractor shall support and provide the necessary resources, i.e., meeting agenda, conference room, applicable data, minutes, and appropriate personnel available to answer any questions to perform the IPR effectively. The contractor shall correct all discrepancies identified in the IPR. All subcontractor/vendor data shall be made available for review. If quantity is sufficient, the Government may schedule a separate IPR at the subcontractor's/vendor's facility.

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER X
	A	

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
C5 Aircraft/Surface Panels		

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A004	Product Drawings and Associated Lists	Computer /Assembly Production Models

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-DRPR-81000A/T	SOO Paragraph .2.3	WRACK/LTSB

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
SD	N/A	One/R	See Block 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
A		N/A	See Block 16

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

16. REMARKS

NOTE:AIR FORCE (CAGE CODE 98752) drawing 9579776 latest revision is a part of this CDRL. A copy of the drawings maybe requested through the Procurement Contracting Officer.

NOTE:The contractor shall provide new Level III Technical Data Packages and Associated Lists in conformance with Data Item Description DI-DRPR-81000A/T.

Block :13

Revisions due 200 days after each individual first article.

Drawing Master Native CAD/CAE data shall be as follows:The data file format shall be compatible with CATIA using the native binary format supported by the CATIA CAD system and delivered on CD-ROM. CAD/CAE system media shall be clearly labeled to describe the media format method, content and media density. Data shall be organized as one drawing per file with multiple sheets permitted. All information necessary to open and manipulate the data files, including libraries, logical name definitions and other supporting files, shall be delivered with drawing files. Non - vendor supported "utilities" (i.e. software products) shall not affect the data transfer integrity of the product information delivered under the contract.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
WRACK/LTSB	2	2	
216 Ocmulgee CT			
Robins AFB, GA			
31098-1643			
Email Address:			
michael.williamson	1	1	
@robins.af.mil			
kelly.lucero@	1	1	
robins.af.mil			
15. TOTAL →	4	4	0

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Jawanda Matthews	29 Sept 03	[signature]	9/29/03

DD FORM 1423-1, FEB 2001 PREVIOUS EDITION MAY BE USED. Page ____ of ____ Pages

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:
	A	TDP _____ TM _____ OTHER X

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
C5 Aircraft/Surface Panels		

16. REMARKS *(Continued)*

INSTRUCTIONS FOR COMPLETING DD FORM 1423

(See DoD 5010.12-M for detailed instructions.)

FOR GOVERNMENT PERSONNEL

Item A. Self-explanatory.

Item B. Self-explanatory.

Item C. Mark (X) appropriate category: TDP - Technical Data Package; TM - Technical Manual; Other - other category of data, such as "Provisioning,""Configuration Management," etc.

Item D. Enter name of system/item being acquired that data will support.

Item E. Self-explanatory (to be filled in after contract award).

Item F. Self-explanatory (to be filled in after contract award).

Item G. Signature of preparer of CDRL.

Item H. Date CDRL was prepared.

Item I. Signature of CDRL approval authority.

Item J. Date CDRL was approved.

Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.

Item 2. Enter title as it appears on data acquisition document cited in Item 4.

Item 3. Enter subtitle of data item for further definition of data item (optional entry).

Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.

Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).

Item 6. Enter technical office responsible for ensuring adequacy of the data item.

Item 7. Specify requirement for inspection/acceptance of the data item by the Government.

Item 8. Specify requirement for approval of a draft before preparation of the final data item.

Item 9. For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoDD 5230.24).

Item 10. Specify number of times data items are to be delivered.

Item 11. Specify as-of date of data item, when applicable.

Item 12. Specify when first submittal is required.

Item 13. Specify when subsequent submittals are required, when applicable.

Item 14. Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.

Item 15. Enter total number of draft/final copies to be delivered.

Item 16. Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14.; Desired medium for delivery of the data item.

FOR THE CONTRACTOR

Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.

a. Group I. Definition - Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

CONTINUATION OF DD FORM 1423 (DI-DRPR-81000A/T) Dtd 26 MAR 02

BLOCK 4:

DI-DRPR-81000A is tailored as follows:

a. Paragraph 7.1, delete in its entirety.

b. Paragraph 10.1, delete in its entirety and replace with "10.1 Reference Documents. The applicable documents apply as cited in the DD Form 1423 and continuation sheets."

c. Paragraph 10.2, delete "Product drawings and associated lists shall meet the requirements of MIL-DTL-31000A".

d. Delete Paragraph 10.3 in its entirety and replace with "10.3 Drawing Forms. The contractor shall utilize their own forms for Product Drawings and Associated Lists, which meet the requirements of ANSI Y14.1. (The government does not furnish forms for drawing formats)"

e. Paragraph 10.4, delete "Product Drawings and Associated Lists shall conform to the requirements of ASME Y14.100M, ASME Y14.34M and, where DoD peculiar requirements must be met, MIL-STD-100" and replace with "Product Drawings and Associated Lists shall conform to the requirements of MIL-STD-100F, ASME Y14.24, ASME Y14.35M, ASME Y14.34M and DD Form 1423."

f. Paragraph 10.6, delete "Selection Work Sheet incorporated in the contract or purchase order." and replace with "DD Form 1423."

g. Paragraph 10.7, delete "The Selection Work Sheet incorporated in the contract or purchase order will specify whether the contractor or the Government is responsible for selecting the types of drawings and lists." and replace with "The contractor is responsible for selecting the types of drawings and lists."

BLOCK 9:

DISTRIBUTION STATEMENT. Distribution statements shall be in accordance with DoD Directive 5230.24 and included on the first sheet of each drawing near the title block, and shall be as follows:

"DISTRIBUTION STATEMENT C. Distribution authorized to US Government agencies and their contractors; Critical Technology; XX DATE XX. Other requests shall be referred to WR-ALC/LAES."

Note: Certain types of technical data preclude placing the entire notice on the document. To accommodate this problem an abbreviated version is authorized as follows:

"Statement C, Gov't and contractors, (controlling DoD office)"

EXPORT CONTROL NOTICE. The Export Control Notice shall be in accordance with

DoD Directive 5230.24.

DESTRUCTION NOTICE. Mark documents with one of the following:

a. For unclassified limited documents: "DESTRUCTION NOTICE. Destroy by any method that will prevent disclosure of contents or reconstruction of the document."

b. For classified documents: "DESTRUCTION NOTICE. Follow the procedures in DoD 5220.22-M, *Industrial Security Manual*, section 11-19, or DoD 5200.1R, *Information Security Program Regulation*, chapter IX."

BLOCK 10: Revisions/changes to the final delivered data shall be furnished quarterly, commencing the first quarter after destination acceptance of the final reproducible data and continue until the contract is closed. Quarterly updates shall include an updated IDL, reference A.F. Drawing 9579776. Negative reports shall be submitted to WR-ALC/TILCB.

BLOCK 11: 15 days

BLOCK 12 AND 13:

1. All data submittals shall contain a shipping list prepared to include as a minimum, the document number, revision level, and number of sheets/pages. Part number, noun and drawing size is optional. The data delivered shall be in the same sequence as the shipping list. Unless prior approval is granted by WR-ALC/TILCB, shipments of data must be for complete assemblies, i.e., LRU's and SRU's. Shipping list shall specify whether the shipment is updates, final or make-up.

2. When a specific revision of an engineering document has been previously furnished and approved by a USAF Engineering Data Repository in microfilm or digital form as a result of any government contract, and is required by this DD Form 1423, the same data shall not be resubmitted providing it meets the requirements in the DD Form 1423 for existing data. This data shall be identified as being previously submitted and approved and shall include the document number, revision, and contract number under which the data were submitted. The receiving USAF Engineering Data Repository shall be identified. This action is required concurrent with all submittals.

3. Within 90 days after successful government verification of the prototypes, one set of paper copies of all "final reproducible data" (reference Block 14 of the DD 1423) shall be delivered. Submittal shall be accompanied by a letter of transmittal. Paper copy submittal will be reviewed within 90 days after receipt of data, unless additional time is required, at which time the contractor will be notified.

a. Submittal of programming files, per Air Force (CAGE 98752) drawing 9579776, Software and Firmware Data is not required for this (paper) submission.

b. Concurrent with the paper copies the contractor shall submit four (4) representative samples of each digital data format per Air Force (CAGE 98752) drawing 9579776, (Native, Neutral, HPGL, Drawing Metadata Spreadsheet, etc.).

Standards, specifications and related publications issued by the Government outside the military or federal series for the non-repetitive acquisition of developmental items.

Priority V
Company Specifications

6. **ENGINEERING DRAWING PRACTICES:** The contractor shall use the practices described in MIL-STD-100F. For clarification the documents listed in paragraph 2 of MIL-STD-100F shall be considered first tier and shall apply. ANSI Y14.1 is tailored as follows: Para 7.1, remove "should", and add "shall". Paragraph 12.2 add, "Sheets shall be numbered beginning with one (1) and continue, using consecutive whole integers." The contractor may find it useful to incorporate the concepts of MIL-HDBK-288 into the preparation of the TDP. MIL-HDBK-288 refers to Engineering Drawing Package (EDP); this term shall be considered synonymous with TDP.

7. **Source Control Drawings:** Source Control Drawing Approval Requests shall be submitted. The request (letter) shall be submitted to the requiring office in Block 6 of this DD Form 1423 prior to the preparation or use of a Source Control Drawing. The letter shall be marked with Distribution Statement "A" in accordance with DoD-D-5230.24. Preparation instructions are as follows:

a. Format - The Source Control Drawing Approval Request shall be in the contractor's format.

b. Content - The request shall specify the following:

(1) Nomenclature and description of the item.
(2) The critical application (s) for which the item is to used.
(3) Number of applications per end item.
(4) Item status as a repair part.
(5) System performance requirements requiring source qualification.
(6) Procedures and criteria required to qualify a source.
(7) Sources of supply and manufacturers' part numbers.
(8) Cost of the item involved.
(9) Estimated cost to qualify a source.
(10) Impact on contract cost, schedule and performance if use of source control drawing is not permitted.
(11) Copy of the Non-standard part approval request, if the DoD Parts Control Program is applicable under the contract or purchase order.

8. **Control Drawings:** The contractor shall not identify his own company as a source on control drawings, unless one additional source is also shown. A separate division of the contractor's company, with a different manufacturers code (CAGE) may be shown, if it is actually a source. Control drawings not developed for this contract (existing drawings) shall be updated, to show current information (i.e., performance/qualification requirements, vendors/sources names and part numbers).

9. **Existing Data:** When existing data meets the following criteria, or will be modified or revised to meet the following criteria, it shall be used in lieu of preparing new data:

a. It is furnished with rights-in-data consistent with the contract stipulations regarding data rights.

b. It is furnished at a cost to the government equal to or less than preparing new data.

c. It meets the highest quality of legibility and reproducibility available in the commercial world. (Reproduced paper copies shall be direct reading and shall not require magnification).

d. It meets the design disclosure requirements of the TDP element of which it is to be a part of.

e. It is identified by a Commercial and Government Entity (CAGE) Code, document number, title and applicable contract number(s).

f. Any nonstandard symbols, drawing or documentation practices used are explained in the document or in a document referenced on the document containing the nonstandard symbol or practice.

Note: Any revisions to existing Government CAGE non CAD data shall be redrawn in AutoCad and shall meet the contractual requirements for new Air Force drawings.

10. Legibility and Reproducibility: All documents prepared or submitted shall meet the highest legibility and producibility requirements available in the commercial market controlling the media in which the data is to be delivered.

11. Parenthetical Information: Design activity identifying numbers may be referenced parenthetically to identify in-house peculiar documents (documents not necessary for the production and quality of the item). Parenthetically identified documents are not a required deliverable; however, if the government deems this document necessary, it shall be delivered. Engineering drawings and Part Lists (PL) using parenthetical identification shall carry a note thereon indicating parenthetical identities are for reference only.

12. Referenced Documents: Documents referenced in a TDP shall be furnished as an integral part of that TDP except where the documentation meets the requirement of the paragraph titled Existing Data above, and has been furnished and approved under a previous contract in the same revision to any USAF repository. When first tier references do not provide the technical information required by the TDP element, subordinate reference documents shall be provided until the design disclosure requirements are met. Technical manuals/orders, procedural manuals, and maintenance manuals shall not be referenced within the TDP. When information essential to meeting TDP design disclosure requirements (such as default surface finish values) are contained in such documents, that information must be incorporated in a document acceptable for inclusion in the TDP.

13. Protecting Classified Information: TDPs or parts thereof, containing classified information shall be protected and marked in accordance with the Department of Defense Industrial Security Manual for Safeguarding Classified Information, DoD Manual 5220.22-M.

14. Contract Numbers: When a TDP document is prepared under a Government contract, the Government contract number under which it is prepared shall appear on the first sheet of the document original. When a TDP document is delivered under a Government contract other than

the one under which it was prepared, the Government contract number under which it is delivered shall also appear on the first sheet of each copy submitted. If the document is prepared and submitted under the same contract, only the entry for the contract under which it is prepared is required.

15. Application of Contract Numbers: When TDP documents or copies thereof are to be delivered under a subsequent or other contract, cost effective techniques may be used to apply the delivery contract numbers. Examples of such techniques are using a rubber stamp for paper copies, photographic overlays for microfilm, or electronic application to digital data.

16. Application Block: All new and revised drawings shall contain an Application Block. The Application Block is mandatory for all drawings. The Application Block shall be near the Title Block. The Application Block shall show the "Next Assembly" and "Used On". When an item is used in more than three applications, the entry "general usage" may be used.

17. Environmental Stress Screening (ESS): TDP documents shall contain ESS criteria, and the implementation of that criteria, necessary to ensure system performance at design levels directly or by reference on TDP elements.

a. Selected item drawings are required for all items and assemblies that require the application of ESS selection criteria to meet system requirements. The TDP element shall define, directly or by reference, the ESS selection criteria applied to the item or assembly identified.

b. Incoming ESS inspection procedures used on materiel/items which do not require selected item drawing delineation shall be required directly or by reference on the TDP element identifying that materiel/item.

c. Any ESS utilized during manufacturing/production in addition to the selected item ESS or incoming inspection criteria, shall be required either directly or by reference on applicable TDP documents.

18. Traceability: The contractor shall prepare the TDP in such a manner to insure that all applicable documents i.e., Artwork, Schematics, and Test Criteria, etc., are referenced within the TDP for traceability.

19. Preparation Method: American English language shall be used in the preparation of this TDP. All drawings shall be prepared using Third Angle Orthographic Projection method of presentation. The symbol for angle of projection shall be delineated in the Title Block of newly prepared or revised engineering data. (see ANSI Y14.3 figure 2).

20. TDP Validation: The contractor shall validate that the TDP and elements thereof conform to the contractual requirements, and that they accurately depict the item(s) developed, modified, or produced under the contract. Successful use of the TDP in producing, inspecting and testing the item(s) is considered acceptable evidence that the validation requirement has been met.

21. Associated Lists: Parts Lists per ASME Y14.34M-1989 are required. Parts Lists are required at assembly level. Parts Lists for Contractor Activity identifier CAGE code may be an

integral part of a document or it may be a separate document. An Indentured Data List at top assembly/system level is required per Air Force (CAGE 98752) drawing 9579776.

22. Marking: Drawings shall specify requirement for marking part number identification on items as required by MIL-STD-130 and other applicable documents referenced therein. The drawings shall identify the method and location of marking on the part.

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