

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 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 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 (0704-0188), Washington, DC 20503.				
1. TITLE  AIRCRAFT TRAINER CRITERIA REPORT			2 IDENTIFICATION NUMBER  DI-MISC-81281	
3. DESCRIPTION/PURPOSE  3.1 The training Criteria Report (TRC) provides criteria and criteria data sources to verify the fidelity of the math model used by the trainer to simulate the physical systems and characteristics of the aircraft and its environment,				
4. APPROVAL DATE (YYMMDD)  92/08/07	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)  N/NTSC-211	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 used in conjunction with DI-T-25594C to describe the criteria data that forms the basis for the quantitative acceptance criteria.  7.3 This DID supersedes UDI-S-25589.				
8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER  N6773		
10. PREPARATION INSTRUCTIONS  10.1 <u>Format</u> . Contractor format is acceptable.  10.2 <u>Content</u> . Content of the report shall consist of the following sections;  10.2.1 Section 1.0 Scope. This section shall include a purpose and introduction. The introduction shall summarize the contents of the report.  10.2.2 Section 2.0 Applicable documents. This section shall identify all documents that are cited in the TCR but not specifically reference as a criteria data source.  10.2.3 Section 3.0 Requirement. This section shall contain the criteria data organized into the following sections:  (a) Aircraft Performance and Flying Qualities (b) Aircraft Systems Criteria				
11. DISTRIBUTION STATEMENT  DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.				

Block 10, Preparation Instructions [Continued]

- c. Tactics Systems and Ownship Weapons Criteria
- d. Simulated Environment

10.2.3.1 Aircraft performance and flying qualities. This section shall contain specific test categories which describe the performance and flying qualities characteristics of the aircraft in terms of the quantities to be measured during the test program. Included in each category shall be a list of the specific tests, description of the test techniques, test criteria data, data sources, and applicable tolerances.

Test criteria data should include a summary of flight conditions, data plots, tables and charts. Data plots and tables may be placed in an appendix if numerous, but data summaries shall be included in the body of the report.

Sources of all criteria data shall be listed including airframe, engine, and equipment manufacturers, and whether Government furnished or otherwise. The data transmittal documents or publications shall be cited. Sources of input data such as aerodynamic coefficients, engine characteristics and the like from airframe and engine manufacturers and other organizations shall be provided. In cases of conflicting data, an explanation shall be provided for the selection and use of one set of data rather than another.

Tolerances shall be listed in accordance with those cited in the contract specifications. The report shall include a description of how the tolerances are to be applied to the trainer criteria data.

10.2.3.2 Aircraft Systems Criteria. This section shall describe the specific system function to be simulated for each onboard aircraft system (i.e., airframe systems, propulsion systems, navigation). The description shall include associated crewstation controls and indicators, sources of design criteria, and malfunction chart(s). A malfunction chart shall list each required malfunction to be simulated, describe how it is to be initiated, describe aircraft indications to the extent observable by the trainee, and corrective action. This section shall contain a list of approved Engineering Change Proposals affecting the aircraft systems included in the simulation.

10.2.3.3 Tactics systems and ownship weapons criteria. This section shall contain a description of specific system functions to be simulated in the device for each onboard tactics system (i.e., sensor systems, electronic warfare, weapons flyout). These descriptions shall include associated crewstation controls and indicators, sources of design criteria, and malfunction chart(s). ownship weapons description shall include specific fidelity verification tests, description of test techniques used to obtain the data, test criteria data and data sources, and applicable tolerances.

Block 10, Preparation Instructions (continued)

10.2.3.4 Simulated environment. This section shall describe associated test and design criteria for all models to simulate the environment in which the aircraft operates. These include atmospheric effects, floating platforms, surface facilities, tactical environment (include both computer driven and crew/instructor operated threats, if applicable), G-cuing, aural cues, visual cues, etc.

10.2.4 Acronyms. This section shall list acronyms used in the report.