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SOFTWARE ACQUISITION MANAGEMENT GUIDEBOOK. REGULATIONS, SPECIFI--ETC(U)

NOV 78 J B GLORE, M P FRIEDMAN, S M GOHEEN

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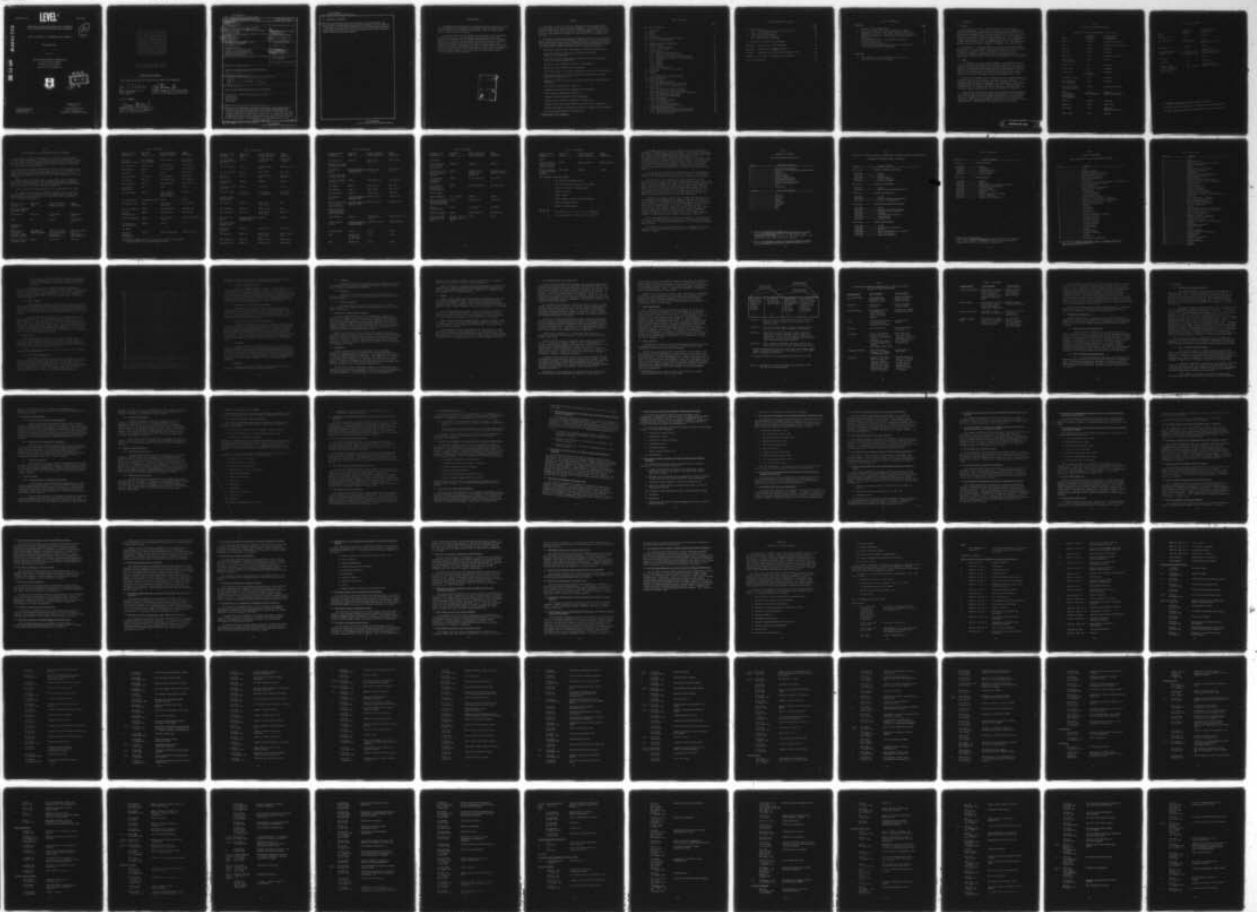
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SOFTWARE ACQUISITION MANAGEMENT GUIDEBOOK REGULATIONS, SPECIFICATIONS, AND STANDARDS

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BY J. B. GLORE, M. P. FRIEDMAN, S. M. GOHEEN

NOVEMBER 1978

Prepared for

DEPUTY FOR TECHNICAL OPERATIONS

ELECTRONIC SYSTEMS DIVISION
AIR FORCE SYSTEMS COMMAND
UNITED STATES AIR FORCE
Hanscom Air Force Base, Massachusetts

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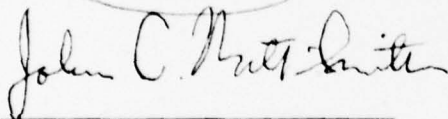
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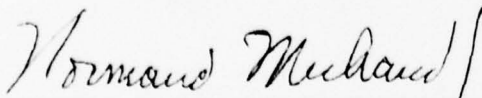


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20. ABSTRACT (concluded)

Other SAM guidebooks plus many other documents considered pertinent. The material has been substantially reorganized and reformatted for easier reference. For example, as an aid to retrieval by subject, the revision includes a Keyword in Context (KWIC) index of the titles and key title phrases of the relevant documents in effect when this revision was prepared.

2

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Several persons besides the authors have contributed to the preparation of this revised report. Joseph Connolly, author of the original RSS guidebook, is responsible for identifying originally most of the documents cited in this revision. He also prepared the original version of Section 3, which appears somewhat condensed in this revision, and of most of the summaries of documents abstracted in Section 4. Special thanks also are due to Patricia McNulty, who identified the indexes to many types of documents, to Arline Smith, who spent much effort updating and cross-checking the master lists of documents, and to Jane McCarthy and Lois Detlefsen for their efficient typing and editing effort.

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PREFACE

This report is one in a series of guidebooks intended to help Program Office personnel in software acquisition management. The guidebooks will be revised periodically to reflect changes in software acquisition policies and practices, and feedback from users. The current guidebook is a major revision of the original guidebook on Regulations, Specifications and Standards, ESD-TR-75-91.

The Software Acquisition Management Guidebooks currently planned are listed below. Except for those titles that begin "An Air Force Guide", the following are actually subtitles that follow "Software Acquisition Management Guidebook:". ESD Technical Report numbers and National Technical Information Service (NTIS) accession numbers for those published to date are shown in parentheses.

Regulations, Specifications and Standards (ESD-TR-75-91; AD-A016401)*

An Air Force Guide to Contracting for Software Acquisition
(ESD-TR-75-365; AD-A020444)

An Air Force Guide for Monitoring and Reporting Software Development
Status (ESD-TR-75-85; AD-A016488)

Statement of Work Preparation (ESD-TR-77-16; AD-A035924)

Reviews and Audits (ESD-TR-78-117; AD-A052567)

An Air Force Guide to Configuration Management (ESD-TR-77-254; AD-A047308)

An Air Force Guide to the Computer Program Development Specification
(ESD-TR-78-139; AD-A055573)

An Air Force Guide to Software Documentation Requirements (ESD-TR-76-159;
AD-A027051)

Verification (ESD-TR-77-263; AD-A048577)

Validation and Certification (ESD-TR-77-326; AD-A053039)

Series Overview (ESD-TR-78-141; AD-A055575)

Software Maintenance (ESD-TR-77-327; AD-A053040)

Software Quality Assurance (ESD-TR-77-255; AD-A047318)

Software Cost Estimation and Measurement (ESD-TR-78-140; AD-A055574)

Software Development and Maintenance Facilities (ESD-TR-77-130; AD-A038234)

Life Cycle Events (ESD-TR-77-22; AD-A037115)

* Superseded by this guidebook.

TABLE OF CONTENTS

	<u>Page</u>
LIST OF ILLUSTRATIONS	5
1. INTRODUCTION	7
1.1 Purpose	7
1.2 Scope	7
1.3 Organization	10
1.4 Comparison with Previous RSS Guidebook	11
1.5 How to Use This Guidebook	11
2. SOFTWARE ACQUISITION DOCUMENTS	25
2.1 Document Sources	25
2.1.1 Air Force Documents	25
2.1.2 Other Documents	26
2.2 Document Types	26
2.2.1 ASPRs and ASPR Supplements	26
2.2.2 Data Item Descriptions (DIDs)	28
2.2.3 Regulations, Directives and Instructions	28
2.2.4 Specifications and Specification Bulletins	28
2.2.5 Standards	28
2.2.6 Manuals	28
2.2.7 Handbooks	29
2.2.8 Pamphlets	29
2.2.9 Technical Reports	29
2.3 Directive vs. Non-Directive Documents	29
2.4 Supplements	29
2.5 Indexes	30
3. DATA AUTOMATION AND SYSTEM ACQUISITION	31
3.1 System Requirements	32
3.2 Scope of Effort	32
3.3 Management Responsibilities	36
3.3.1 AFR 800 Series PM Responsibilities	36
3.3.2 AFR 300 Series PM Responsibilities	36
3.4 Milestones	37
3.4.1 AFR 800 Series Program Milestones	37
3.4.2 AFR 300 Series Program Milestones	37
3.5 Software Requirements and Configuration Management	38
3.5.1 AFR 800 Series Requirements	38
3.5.2 AFR 300 Series Requirements	38
3.6 Software Standards	39
3.6.1 Programming Languages	39
3.6.2 Data Elements	39
3.6.3 Use of Existing Software	39
3.6.4 Software Engineering Practices	39
3.7 Documentation Requirements	40
3.7.1 AFR 800 Series Documentation Requirements	40
3.7.2 AFR 300 Series Documentation Requirements	40
3.7.3 Important Exceptions	40

TABLE OF CONTENTS (Concluded)

	<u>Page</u>
3.8 Software Testing	40
3.8.1 Testing Software in AFR 800 Series Systems	40
3.8.2 Other Testing Guidance	41
3.9 Logistics and Other Matters	41
3.9.1 AFR 800 Series Provisions	41
3.9.2 AFR 300 Series Provisions	41
4. ABSTRACTS OF SELECTED ACTIVE DOCUMENTS	42
APPENDIX A MASTER LIST OF ACTIVE DOCUMENTS	61
APPENDIX B RESCINDED AND SUPERSEDED DOCUMENTS	114
APPENDIX C MARGINALLY RELEVANT DOCUMENTS PREVIOUSLY CITED	120
APPENDIX D KWIC INDEX OF RELEVANT ACTIVE DOCUMENTS	123
LIST OF ABBREVIATIONS	194

LIST OF ILLUSTRATIONS

<u>Table No.</u>		<u>Page</u>
1	Indexes to Listed Publications	8
2	Sources and Types of RSS and Other Relevant Documents	12
3	Department of Defense -- Data Item Description Categories	19
4	Department of Defense -- Directives, Instructions, Handbooks, Manuals and Regulations -- Primary and Secondary Subject Categories	20
5	Air Force Publications -- Series Number and Subject Classification System	22
6	Document Types and Sources	27
7	Distinguishing Management Characteristics of the AFR 300 Series and AFR 300 Series Regulations	34

Figure No.

1	Applicability of Air Force Regulations Pertaining to 800 and 300 Series Managed Programs	33
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1. INTRODUCTION

1.1 Purpose

This guidebook is one of a series intended as aids to software acquisition management. Specifically, it identifies official Regulations, Specifications, and Standards (RSS), and other publications, relevant to the acquisition of Command, Control and Communications (C³) software by the Air Force Electronic Systems Division (ESD). However, much of the guidebook's content should pertain to other Air Force acquisitions. The contents will be revised periodically as a result of feedback from users, and to identify changed, new, and superceded or rescinded documents. Thus, the authors will appreciate hearing of errors, omissions, and suggestions for improvement.

The guidebook is intended primarily as an index of potentially useful publications. It is a reference source in the sense that it lists documents, both by title and subject (i.e., title keyword), and gives a brief introduction to types of documents relevant to software acquisition. Information regarding the pertinence, quality and usefulness of many of the publications listed is mainly discussed in other guidebooks within the series.

1.2 Scope

This guidebook lists and indexes documents of many types from several sources. Preeminent among these are Department of Defense (DoD), Air Force (AF), Air Force Systems Command (AFSC), and ESD regulations, specifications, standards, standard data item descriptions (DIDs), and technical reports. Some of these documents deal specifically with software; others (e.g., those about cost control systems) are concerned with the environment in which software is acquired. Altogether, more than 700 documents are listed.

Generally, the emphasis is on documents relevant to computer systems acquired as parts of major systems. The latter are large systems that perform important operational functions and typically incorporate computers, communications, or sensors as subsystems. More specifically, this guidebook emphasizes documents about the software components of computer systems acquired by ESD. Of somewhat less concern are commercially developed (off-the-shelf) computer programs which may be acquired for Air Force use.

The documents cited have been selected by reviewing the SAM guidebooks, and indexes of appropriate publications, supplemented by personal knowledge and, in a few cases, by specific suggestions from others. The versions of (and latest changes to) these documents are generally those cited in the versions of their appropriate indexes available to us on 30 June 1978. These index versions, listed in Table 1, are not necessarily the latest

Table 1

INDEXES TO LISTED PUBLICATIONS

(Appendix A contains these indexes' full titles.)

<u>INDEX</u>	<u>REFERENCED ISSUE</u>	<u>REVISION PERIOD AND DATE*</u>
AFLCR 0-2	7/31/74	Quarterly (1,4,7,10)
AFR 0-2	4/7/78	Every four months (4,8,12)
AFR 0-4	8/13/76	Irregular
AFR 0-15	9/9/77	Irregular
AFSCR 0-2	4/3/78	Quarterly (1,4,7,10)
ASPR Table of Sections & Parts	7/1/76	Annual (7)
DA PA.1 310-1	3/77	Irregular
DA PA.1 310-3	6/77	Irregular
DA PA.1 310-4	11/74 10/75 Change 3	Irregular
DLA Handbook 5025.1	7/77	Irregular
DoD 5000.19-L, Vol. II (AMSDL)	11/77	Irregular
DoD 5025.1-I (DoD Directives System)	9/30/77	Quarterly (3,6,9,12)
DoDISS (DoD Index of Specifications and Standards)	7/1/77 3/1/78 Supplement	Annual (7) Bimonthly Supplements
ESDR 0-2	12/14/77	Irregular
JANAP 201	10/77	Annual (10)
NASI Index	1/78	Annual (1) Supplements (4,8,12)
NAVSUP 2002	11/77	Unknown

Table 1 (Concluded)

<u>INDEX</u>	<u>REFERENCED ISSUE</u>	<u>REVISION PERIOD AND DATE*</u>
NBS Pub List 84	6/77	Irregular
NBS Spec Pub 305	4/69 6/77 Supplement	Basic** Supplemented Annually
OMB Index	Undated	Varies
Technical Abstracts Bulletin (TAB)	4/76 9/77 Quarterly Sup. 3/3/78 Biweekly Sup.	Annual*** (4) Quarterly (3,6,9,12) Biweekly Supplements
TO 0-1-01	11/77	Monthly
TO 0-4-6-1	6/77	Annual (6)
US Govt. Pubs (Monthly Catalog of U. S. Government Publications)	7/77 12/77 Supplement	Annual*** (1,7) Monthly Supplements

* Numbers in parentheses indicate months of the year.

** Basic index is not revised; it is updated with annual supplements.

*** Annual cumulation does not include documents for preceding years.

published as of that date, because of delays in their distribution. In the few cases where we knew of a later version of a document than that shown in this version of its index, we listed this later version.

1.3 Organization

The remainder of this guidebook explains the different kinds of documents pertinent to software acquisition for Air Force systems, provides various listings of these documents, including a subject index (in Keyword In Context (KWIC) form), and suggests ways to use these listings. It also contains abstracts of selected documents, and an extensive list of abbreviations.

Section 2, Software Acquisition Documents, identifies relevant document sources, including Air Force and other government agencies as well as non-government organizations. Section 2 also describes major types of documents published by these sources, of interest in the management of software development or acquisition.

Section 3, Data Automation and System Acquisition, discusses two series of Air Force regulations, the AFR 300 series and the AFR 800 series, that are applied in the acquisition of software for ESD-managed systems. These two series, their applicability, the major differences between them, and some of their important common characteristics, are treated here extensively because they so strongly affect how ESD acquisition programs involving software are managed.

Section 4 contains over 60 abstracts of selected active documents relevant to software acquisition. These include some, but not all, of the documents most important for ESD-managed C³ systems. The abstracts are presented in the same order as the documents are listed in Appendix A.

Appendices A, B and C, respectively, contain three master lists of documents, each arranged by publishing organization (military or other), document type, and document identifier (ID). Appendix A contains a master list of all documents currently in effect that have been cited in at least one of the existing SAM guidebooks, or that the authors of this guidebook otherwise deem potentially useful in the management of software development or acquisition. Appendices B and C list other documents cited in the previous version of this RSS guidebook (ESD-TR-75-91). Appendix B lists those that have been either superseded, rescinded or otherwise dropped (for reasons we have been unable to determine) from the appropriate index, and which are thus no longer in force. Appendix C lists the documents mentioned in ESD-TR-75-91 that are still in force, but that we deem of little relevance to software development or acquisition.

Appendix D contains a KWIC index of the documents listed in Appendix A. Appendix D contains one entry for each Appendix A title and for each (non-initial) title phrase deemed significant. These entries are sorted by significant phrase to comprise a subject index.

Finally, an extensive List of Abbreviations is provided.

1.4 Comparison with Previous RSS Guidebook

The current version of the RSS guidebook differs from the original in several ways:

- a. The material on document sources, document types, and document supplements in Section I of the original has been revised and incorporated in Sections 2.1, 2.2, and 2.4.
- b. The original Section I information about document indexes and publications programs (e.g., in its Table I) has been replaced by Section 2.3, Table 1, and Table 2.
- c. Section II, Software Development in the System Life Cycle, has been dropped, since its subject matter has since been covered more thoroughly by the Life Cycle Events guidebook (ESD-TR-77-22).
- d. Section III, Data Automation and System Acquisition, has been updated, condensed slightly, and reorganized. It now appears as Section 3.
- e. The lists of documents by category contained in Sections IV and V have been replaced by the master lists in Appendices A-C and by the subject (KWIC) index in Appendix D. The KWIC index also replaces the original Appendix II, Air Force Software Acquisition Management Bibliography.
- f. All summaries of relevant documents still in force that were contained in Appendix I of the original RSS Guidebook now appear in Section 4, with minor editorial changes. Section 4 also includes abstracts of a few additional documents.

1.5 How to Use This Guidebook

The RSS Guidebook can be used to locate information about a particular document or to find documents on a particular subject. To find a particular document given its publishing agency (i.e., its source), the document ID, or type of document, look in the master lists (Appendices A-C). Each of these appendices lists documents first by agency, next by document type, and then alphanumerically by document ID. Table 2 has been designed, in part, as an aid to searching these appendices. Its entries are in the same order as the sources and types of Appendices A-C. Each entry in these appendices also indicates the latest known version's publication date, and the identities and publication dates (if known) of any supplements to the document by lower-echelon commands.

To find a document by title or subject, search the KWIC Index (Appendix D). Appendix D lists alphabetically each Appendix A title and title phrase deemed significant. Each entry consists of the document title (possibly permuted so that all the significant phrases are aligned) followed by the document ID, which can be used as an index into Appendix A.

Table 2

SOURCES AND TYPES OF RSS AND OTHER RELEVANT DOCUMENTS

This table lists the sources and types of the RSS and other documents presented in this guidebook. The name of each source is capitalized in column 1. Each source's name is followed by entries for each type of document that the source issues if that type may include documents relevant to acquisition of software for ESD-managed systems.

For each type of document mentioned in column 1, column 2 identifies the applicable index. The latest issue of this index lists the document's current title, version identification, version date, and current status. These indexes and the publication dates of the latest issues known to us, are listed in Table 1.

Column 3 shows the general format of each document type's document ID. These general formats are depicted in a notation that encodes the variable part of each type's document ID. The KEY TO GENERAL IDENTIFIER FORMAT, which appears at the end of the table, explains this notation.

Column 4 contains an example document ID for each document type listed.

The entries in this table are arranged in the same order as the source and type categories of the documents listed in Appendices A-C (except that these appendices lack instance of a few categories). This is intended to help in searching the appendices.

<u>Document Sources and Types</u>	<u>Applicable Index</u>	<u>General Identifier Format (See Key)</u>	<u>Sample Identifier</u>
OFFICE OF MANAGEMENT AND BUDGET (OMB)			
OMB Circulars	OMB Index	OMB Circular <C-n*>	OMB Circular A-109
Other	None	Various	OFPP Pamphlet No. 1
DEPARTMENT OF DEFENSE			
Armed Services Procurement Regulation (ASPR) Sections and Parts	<u>ASPR Table of Sections & Parts</u>	ASPR Section <r*>, Part <n*> or ASPR <n*-n*[a*> or ASPR Appendix <c>	ASPR Section XVII Part 1 or ASPR 3-104b or ASPR Appendix J
Defense Procurement Circulars (DPCs)	AFR 0-4	DPC <yy-n*>	DPC 74-3

Table 2 (Continued)

<u>Document Sources and Types</u>	<u>Applicable Index</u>	<u>General Identifier Format (See Key)</u>	<u>Sample Identifier</u>
Data Item Descriptions (DIDs)	DoD 5000.19-L, Vol. II (AMSDL)	[U]DI-<c-n*[c]>	DI-E-3120A or UDI-F-20023
DoD Directives	DoD 5025.1-1	DoDD <nnnn.n*>	DoDD 4105.62
DoD Handbooks	AFR 0-4	DoD <nnnn.n*-H>	DoD 4100.39-H
DoD Indexes	None	None	DoD 5025.1-1
DoD Instructions	DoD 5025.1-1	DoDI <nnnn.n*>	DoDI 5125.7
DoD Manuals	AFR 0-4	DoD <nnnn.n*-M>	DoD 5200.18-M
DoD Regulations	AFR 0-4	DoD <nnnn.n*-R>	DoD 4500.32-R
DoD Circulars and Notices	None	Varies	Varies
DLA Publications	AFR 0-15	DIAI <n*-n*[c]> DIAI <n*-n*[c]> DIAR <n*-n*[c]>	DIAI 65-1
DLA Publications	DLA Handbook 5025.1	Varies	Varies
JCS Publications	AFR 0-4	JCSP <n[Vn] [PTn][Cn]>	JCSP 6V2PT1C6
Military Handbooks	DoDISS	MIL-HDBK <n*[c]>	MIL-HDBK 217B
Military Specifications	DoDISS	MIL-<c-n*[c]>	MIL-M-24100B
Military Standards	DoDISS	MIL-STD-<n*[c] [(c*)]>	MIL-STD-499A (USAF)
Miscellaneous DoD Publications	DoDISS	Varies	LCC 1
AIR FORCE			
Air Force Acquisition Documents**	AFR 0-4	AFAD <nn-n*[-(n*)]>	AFAD 71-531-(13)

** Includes documents previously classified as Air Force Procurement Circulars and Air Force Procurement Instructions.

Table 2 (Continued)

<u>Document Sources and Types</u>	<u>Applicable Index</u>	<u>General Identifier Format (See Key)</u>	<u>Sample Identifier</u>
Air Force ASPR Supplement Sections and Parts	AFR 0-4	AF ASPR Sup <n*-n*.n*[a*]>	AF ASPR Sup 1-2100.50
Air Force Manuals	AFR 0-2	AFM <n*-n*[Vol. <p*>]>	AFM 66-1, Vol. 2
Air Force Pamphlets	AFR 0-2	AFP <n*-n*>	AFP 70-19
Air Force Regulations	AFR 0-2	AFR <n*-n*[Vol. <p*>]>	AFR 800-14, Vol. 11
USAF Standard Drawings	Unknown	Unknown	Unknown
USAF Specification Bulletins	DoDISS	BU <n*[c]>	BU 518A
Technical Orders	TO 0-1-01 TO 0-4-6-1	TO <nn-n*-n*> TO <n-n*-n*[-n]>	TO 00-5-15 TO 0-4-6-1
AIR FORCE LOGISTIC COMMAND (AFLC)			
AFLC Manuals	AFLCR 0-2	AFLCM <n*-n*[Vol. <n>]>	TBD
AFLC Pamphlets	AFLCR 0-2	AFLCP <n*-n*>	TBD
AFLC Regulations	AFLCR 0-2	AFLCR <n*-n*[Vol. <n>]>	AFLCR 0-2
AFLC Technical Reports	<u>Technical Abstracts Bulletin (TAB)</u>	Unknown	Unknown
AIR FORCE SYSTEMS COMMAND (AFSC)			
AFSC Design Handbooks	AFSCR 0-2	AFSC DH <n-n>	AFSC DH 4-2
AFSC Manuals	AFSCR 0-2	AFSCM <n*-n*[Vol. <n>]>	AFSCM 171-480, Vol. 1
AFSC Pamphlets	AFSCR 0-2	AFSCP <n*-n*>	AFSCP 800-15
AFSC Periodicals	AFSCR 0-2	AFSCRIP <n*-n>	AFSCRIP 800-1

Table 2 (Continued)

<u>Document Sources and Types</u>	<u>Applicable Index</u>	<u>General Identifier Format (See Key)</u>	<u>Sample Identifier</u>
AFSC Regulations	AFSCR 0-2	AFSCR <n*-n* [Vol. <n>]>	AFSCR 800-18
AERONAUTICAL SYSTEMS DIVISION (AFSC/ASD)			
ASD Technical Reports	<u>Technical Abstracts Bulletin (TAB)</u>	ASD-TR-<yy-n* [, Vol. p*]>	ASD-TR-76-11, Vol. III
ELECTRONIC SYSTEMS DIVISION (AFSC/ESD)			
ESD ASPR Supplement Sections	ESDR 0-2	ESD ASPR Sup <n>	ESD ASPR Sup 1
ESD Manuals	ESDR 0-2	ESDM <n*-n*>	ESDM 70-10
ESD Pamphlets	ESDR 0-2	ESDP <n*-n*>	ESDP 800-4
ESD Regulations	ESDR 0-2	ESDR <n*-n*>	ESDR 80-1
ESD Technical Reports	<u>Technical Abstracts Bulletin (TAB)</u>	ESD-TR-<yy-n*>	ESD-TR-77-16
Rome Air Development Center (RADC) Technical Reports	<u>Technical Abstracts Bulletin (TAB)</u>	RADC-TR-<yy-n*>	RADC-TR-74-300
SPACE AND MISSILE SYSTEMS ORGANIZATION (AFSC/SAMSO)			
SAMSO Exhibits	Unknown	SAMSO Exhibit <yy-n*>	SAMSO Exhibit 73-3
SAMSO Technical Reports	<u>Technical Abstracts Bulletin (TAB)</u>	SAMSO-TR-<yy-nn*>	SAMSO-TR-68-268
OTHER AIR FORCE			
ARMY	DA PAM 310-1 DA PAM 310-3 DA PAM 310-4	Varies	Varies
NAVY	NAVSUP 2002	Varies	Varies

Table 2 (Continued)

<u>Document Sources and Types</u>	<u>Applicable Index</u>	<u>General Identifier Format (See Key)</u>	<u>Sample Identifier</u>
INTERSERVICE			
Joint Army/Navy/ Air Force/DASA Publications	JANAP 201	JANAP <n*>	JANAP 123
Military/Air Force/ Navy Aeronautical Bulletins	DoDISS	MIL-BULL <n*> or ANA-BULL <n* [REV-<n>]>	MIL-BULL 100, or ANA-BULL 107 REV-8
Air Force/Navy Aeronautical Standards	DoDISS	AN <n*[REV-<n>]>	AN 362 REV-6
Air Force/Navy Aeronautical Design Standards	DoDISS	AND <n*[REV-<n>]>	AND 10104 REV-3
OTHER FEDERAL			
Federal Handbooks	US Govt. Pubs	Unknown	Unknown
Federal Information Processing Standards (FIPS) Publications	DoDISS	FIPS Pub <n*>	FIPS Pub 28
Federal Specifications	DoDISS	<c-c-n*[c]>	C-N-200A
Federal Standards	DoDISS	FED-STD-<n*[c]>	FED-STD-356A
Other (e.g., NBS Special Publica- tions)	NBS Pub. List 84 NBS Spec. Pub. 305 Other	Varies	Varies

Table 2 (Concluded)

<u>Document Sources and Types</u>	<u>Applicable Index</u>	<u>General Identifier Format (See Key)</u>	<u>Sample Identifier</u>
OTHER			
American National Standards Institute (ANSI) Standards	DoDISS	ANSI-<cn.n*-19yy>	ANSI-X3.37-1977
National Aerospace Standards Institute Standards	NASI Index	Unknown	Unknown

KEY TO GENERAL IDENTIFIER FORMAT:

- < > = The enclosed information varies
- [] = The enclosed information may not be present
- a = Lower case letter, or Arabic numeral
- c = Upper case letter
- n = Arabic numeral
- p = Arabic numeral or upper case Roman numeral
- q = Lower case Roman numeral
- r = Upper case Roman numeral

- a*, c*, n*, p*, q*, r* = One or more of a, c, n, p, q, or r, respectively
- yy = Last two digits of year (e.g., "77" for "1977")

The document IDs of some types of documents are broadly categorized, providing an additional way to search by subject. Data Item Description (DID) IDs include a variable letter before the number (e.g., DI-A-3023, DI-S-3608) that indicates one of several "functional categories", such as "Administrative/ Management", "System/Subsystem Analysis", and "Test". These are shown in Table 3. In Appendices A-C the DID entries are arranged within these categories to facilitate search by subject. Table 3 also shows the correspondence between the first digit of a DID ID and the DoD Component (e.g., Army, Navy, Air Force) responsible for developing the DID. For example, DI-A-3023 and DI-S-30569 are Air Force DIDs, while DI-R-1732 is an Army DID.

The first two digits of the IDs of DoD Directives and DoD Instructions also represent subject categories, which Table 4 depicts. Although these categories are quite broad, they may help locate related sets of documents.

The document IDs of the regulations, manuals, pamphlets and some periodicals issued by the Air Force and its subordinate commands (e.g., AFSC, ESD) incorporate a somewhat finer subject-matter code, the series number. The numeric part of the document ID consists of a left-most series number (1-3 digits) separated by a dash (-) from a right-most serial number assigned within the series (e.g., AFR 0-2, AFR 5-1, AFSCM 80-5, ESDP 800-4). The series numbers, defined in Table 5, are standard within the Air Force. In Appendices A-C the document entries of each type issued by each Air Force agency are arranged by series to facilitate search by subject.

In addition to providing subject, title, document ID, publication date, and information about supplements, the guidebook identifies the sources of this information. For example, before relying too heavily on a document, one should consult its latest index to see if the document is current. Table 2 identifies the index applicable to each type of document, and Table 1 identifies that index's update frequency (if known), and the index version used to prepare this guidebook. This information makes it possible to determine whether an index has been revised since this version of the guidebook was prepared, and if so, which version of that index should be searched to identify the current version of a document of interest.

Further information about selected active documents is also provided in Section 4. This abstracts those documents still current and pertinent that were summarized in the original RSS guidebook, plus a few especially important additional ones.

In addition, Section 2 (especially Section 2.5, Indexes) and Section 3 should be reviewed for additional explanations that may help to locate documents of interest.

Table 3

DEPARTMENT OF DEFENSE
DATA ITEM DESCRIPTION CATEGORIES

<u>Letter</u>	<u>Functional Category*</u>
A	Administrative/Management
E	Engineering and Configuration Documentation
F	Financial
H	Human Factors
L	Logistic Support
M	Technical Publications
P	Procurement/Production
R	Related Design Requirements
S	System/Sub-system Analysis
T	Test
V	Provisioning

<u>1st Digit</u>	<u>Originating Agency**</u>
1	Army
2	Navy/USMC
3	Air Force
4	ODDR&E
5	OASD(I&L)
6	Unassigned
7	OASD(C)
8	DSA
9	NSA

* Taken from Department of Defense Authorized Data List -- Index of Data Item Descriptions (TD-3). TD-3 has recently been superseded by DoDD 5000.19-L, Vol. II, (see next footnote), which unfortunately omits these functional categories.

** Taken from Department of Defense Acquisition Management Systems and Data Requirements Control List (DoDD 5000.19-L, Vol. II).

Table 4

DEPARTMENT OF DEFENSE DIRECTIVES, INSTRUCTIONS, HANDBOOKS, MANUALS AND REGULATIONS
 PRIMARY AND SECONDARY SUBJECT CATEGORIES*

Series #	Subject Category
1000 Series	MANPOWER, PERSONNEL AND RESERVE
1000-1099	General
1100-1199	Manpower
1200-1299	Reserve Forces
1300-1399	Military Personnel
1400-1499	Civilian Personnel
2000 Series	INTERNATIONAL PROGRAMS
2000-2099	General
2100-2199	Mutual Grant and Reimbursable Aid
3000 Series	PLANNING AND READINESS
3000-3099	General
3100-3199	Military Planning and Readiness
3200-3299	Research and Engineering
4000 Series	LOGISTICS AND RESOURCES MANAGEMENT
4000-4099	General
4100-4199	Property and Supply Management
4200-4299	Production and Requirements
4300-4399	Unassigned
4400-4499	Priorities and Allocations
4500-4599	Transportation
4600-4699	Communications
5000 Series	GENERAL ADMINISTRATION
5000-5099	General
5100-5199	Organization and Functions
5200-5299	Security
5300-5399	Office and Administrative Services
5400-5499	Public Information
5500-5599	Legal and Legislative

Table 4 (Concluded)

Series #	Subject Category
6000 Series	HEALTH AND MEDICAL
6000-6099	General
6100-6199	Unassigned
6200-6299	Preventive Medicine
6300-6399	General Medicine
6400-6499	Special Fields
7000 Series	COMPTROLLERSHIP
7000-7099	General
7100-7199	Budgeting
7200-7299	Appropriations Accounting and Control
7300-7399	Disbursements and Receipts
7400-7499	Revolving Funds
7500-7599	Property Accounting
7600-7699	Auditing
7700-7799	Reports, Statistics and Forms
7800-7899	Contract Financing
7900-7999	Automatic Data Processing

* Taken from the DoD Directive System, "Quarterly Index of DoD Issuances and of Final Opinions, Statements of Policy, Administrative Staff Manuals and Instructions which Affect the Public."

Table 5

AIR FORCE PUBLICATIONS

SERIES NUMBER AND SUBJECT CLASSIFICATION SYSTEM*

Series #	Subject
0	Indexes
1	Aerospace Doctrine
2	Aerospace Operational Doctrine
3	Mission Employment Tactics
4	Administration Management
5	Publications Management
6	Reproduction
7	Publications and Forms Requirements and Distribution
8	Special Publications Systems
9	Forms Management
10	Administrative Communications
11	Administrative Practices
12	Documentation
13	Writing Improvement
18	Energy Conservation
19	Environmental Protection
20	Organization and Mission -- General
21	Organization and Mission -- Departmental
23	Organization and Mission -- Field
25	Management Engineering
26	Manpower
27	Programming
28	War Planning
30	Personnel
31	Military Records
33	Military Personnel Procurement
34	Personnel Services
35	Military Personnel
36	Officer Personnel
39	Enlisted Personnel
40	Civilian Personnel
45	Reserve Forces
46	Civil Air Patrol
50	Training
51	Flying Training
52	Technical Training
53	Schools
55	Operations
57	Operational Requirements

* Taken from the Numerical and Subject Index of Standard Publications and Recurring Periodicals (AFR 0-2).

Table 5 (Continued)

Series #	Subject
60	Flying
64	Search and Rescue
65	Maintenance -- Engineering and Supply
66	Equipment Maintenance
67	Supply
68	Redistribution and Marketing
69	Storage and Warehousing
70	Procurement
71	Packaging and Materials Handling
72	Federal Supply Cataloging
73	Standardization
74	Quality and Reliability Assurance
75	Transportation and Traffic Management
76	Military Airlift
77	Motor Vehicles
78	Industrial Resources
79	Industrial Manpower
80	Research and Development
81	Specifications and Standards
82	Designating and Naming Defense Equipment
84	Production
85	Civil Engineering -- General
86	Civil Engineering Programming
87	Real Property Management
88	Facility Design and Planning
89	Facility Construction
90	Housing
91	Real Property Operation and Maintenance
92	Civil Engineering -- Fire Protection
93	Special Civil Engineering
95	Audio Visual Systems
96	Mapping, Charting, and Geodesy
100	Communications -- Electronics
101	Electronics Systems
102	Command and Control and Communications
105	Weather
110	Judge Advocate General
111	Military Justice
112	Claims
120	Inspector General
121	Special Subjects for Inspection
122	Nuclear Safety
123	Inspection
124	Special Investigations
125	Security Police
126	Natural Resources
127	Safety
136	Armament

Table 5 (Concluded)

Series #	Subject
140	Housekeeping and Non-housekeeping Quarters
143	Graves Registration and Mortuary Affairs
144	Fuels, Propellants and Chemicals
145	Commissaries
146	Food Service
147	Exchange Service
148	Laundry and Dry Cleaning
160	Medical Service
161	Aerospace Medicine
162	Dental Services
163	Veterinary Services
164	Aeromedical Evacuation
165	Automatic Data Processing Systems in Support of Health Care Delivery
167	Medical Material
168	Medical Administration
169	Medical Education and Research
170	Comptroller
171	Automatic Data Processing Systems and Procedures
172	Budget
173	Cost Analysis
175	Auditing
176	Non-appropriated Funds
177	Accounting and Finance
178	Management Analysis
182	Postal and Courier Operations
190	Information
200	Intelligence
205	Security
206	Air Base Defense
207	Aerospace Systems Security
210	Historical Data and Properties
211	Personal Affairs
212	Libraries
213	Educational Services Program
214	Dependents' Education
215	Recreation
216	Oversea Areas
265	Chaplain
300	Data Automation
310	Contractor Data Management
320	Value Engineering
355	Disaster Preparedness
400	Logistics
401	Material Programming
600	Control of Management Systems
800	Acquisition Management
900	Awards, Ceremonies, and Honors

2. SOFTWARE ACQUISITION DOCUMENTS

The documents referenced in this guidebook include all those cited in the previous version of the RSS guidebook (ESD-TR-75-91) or one of the other SAM guidebooks listed in the Preface. In addition, certain new documents have been added because we deemed their titles or contents relevant to C3 software acquisition.

As one general guideline, the documents most important to acquisition of software for C3 systems are those referenced in one of the other guidebooks. Such reference is indicated by the guidebook codes in the documents' entries in Appendices A-C. The software-related documents most frequently developed during a major system's life cycle are spelled out in the Software Acquisition Management Guidebook: Life Cycle Events, ESD-TR-77-22, especially its Tables 1-4. That guidebook also discusses the computer program life cycle for software acquired as part of a major system. ESD-TR-76-159, An Air Force Guide to Software Documentation Requirements, should also be reviewed, especially for its synopses of relevant Data Item Descriptions (DIDs) and discussion of the DID modification process.

2.1 Document Sources

A major set of the documents related to acquisition of software for Air Force C3 systems are naturally issued by Headquarters, USAF and its subordinate commands. In addition to these Air Force publications, relevant documents are issued by or for the Department of Defense, other DoD Components (e.g., the Army, the Navy, the National Security Agency (NSA)), other government agencies, and the American National Standards Institute (ANSI).

2.1.1 Air Force Documents

The policy and procedures for the Air Force Publications System are established in AFR 5-1, Air Force Publications Management Program. This system includes standard publications issued by the Secretary of the Air Force; Chief of Staff, USAF, and by field commanders. Any standard Air Force publication may be issued and maintained by a commander down to the Group or Base level. Within the Air Force Systems Command, standard publications are normally issued at the Command level, and down to the Product Division level (e.g., ESD).

The types of Air Force documents of primary concern in this guidebook are:

- o Headquarters USAF publications, including the Air Force Armed Service Procurement Regulation (ASPR) Supplements, Air Force Manuals (AFMs), Air Force Pamphlets (AFPs), Air Force Regulations (AFRs), and Technical Orders (TOs).
- o Air Force Systems Command (AFSC) publications, including AFSC Design Handbooks (AFSC DHs), AFSC Manuals (AFSCMs), AFSC Pamphlets (AFSCPs), AFSC Regulations (AFSCRs), and AFSC Periodicals (AFSCRPs).

- o AFSC Electronic Systems Division (ESD) publications, including the ESD ASPR Supplements, ESD Manuals (ESDMs), ESD Pamphlets (ESDPS), ESD Regulations (ESDRs), and ESD Technical Reports (ESD-TRs).

In addition, there are a number of relevant regulations, specifications, standards, DIDs, and technical reports issued by the Air Force Logistics Command (AFLC), the AFSC Aeronautical Systems Division (AFSC/ASD), ESD's Rome Air Development Center (RADC), and the AFSC Space and Missile Systems Organization (AFSC/SAMSO), which may be applicable to ESD-managed software acquisition.

2.1.2 Other Documents

Other documents relevant to ESD C³ software acquisition include a large number of Department of Defense (DoD) publications, plus some Federal Information Processing Standards (FIPS), Office of Management and Budget (OMB) publications, and ANSI publications. Documents from other services such as Army, Navy and Joint Army/Navy/Air Force/DASA (JANAP) publications may also be relevant.

DoD Directives and DoD Instructions are implemented in the Air Force through the Air Force Standard Publication System (AFR 5-1). Joint publications with the Army, Navy and Defense Atomic Support Agency, (i.e., JANAP documents) are also considered part of the Air Force Publication System. Publications of the Defense Intelligence Agency (DIA) are implemented by AFR 5-3, Standard Intelligence Publications System, and require the same degree of compliance as standard Air Force publications. Publications of the Defense Logistics Agency (DLA), (formerly the Defense Supply Agency), are presented in AFR 5-9, Defense Supply Agency Publications.

2.2 Document Types

The documents that may be pertinent to software development and acquisition for ESD-managed systems are of many types. Table 6 shows the types of documents identified in this guidebook vs. the organizations that issue them. Table 6 omits sources and types of documents not illustrated in this guidebook, although such documents may exist.

The types usually most relevant to software acquisition for ESD-managed programs are explained below.

2.2.1 ASPRs and ASPR Supplements

All contracts issued by the DoD and its components (e.g., Army, Navy, Air Force) are expected to be consistent with the ASPRs, which reflect Federal law, Executive Orders, and DoD policy. DoD Components and their lower-echelon organizations through the Product Division level (e.g., ESD) may issue ASPR Supplements. These further detail or augment ASPR direction, but must not conflict with the ASPRs. An ASPR Supplement applies to the organization that issues it and to its lower-echelon organizations.

Procurement circulars (e.g., Defense Procurement Circulars) are transient publications used to announce ASPR and ASPR Supplement changes.

2.2.2 Data Item Descriptions (DIDs)

A DID is a standard that prescribes the form and content of data (i.e., documents) to be delivered under a contract. A special (i.e., "unique") DID may be prepared to prescribe a particular deliverable data item, or a standard DID (possibly modified) may define that data item. DIDs used on specific acquisition programs are reviewed for potential standardization, and acquisition program managers are encouraged to use standard DIDs wherever feasible. DIDs may be standardized at the Product Division or higher level. This guidebook lists only standard Air Force, NSA, and ESD DIDs.

2.2.3 Regulations, Directives and Instructions

Regulations are documents issued to define the control and organization of a government operation. They essentially announce policies, assign responsibilities, direct actions, and prescribe procedures. DoD Directives and DoD Instructions are in essence regulations issued by the DoD. However, at least within the Air Force, they are implemented by related regulations to which they may be attached.

2.2.4 Specifications and Specification Bulletins

Military and Federal specifications are documents which describe the essential technical requirements of materiel or services to be procured. They do not prescribe government operations. They also include procedures for determining whether requirements have been met. Air Force Specification Bulletins announce important changes in such specifications. Federal and military specifications, or tailored versions of them, are intended to be used in preference to new specifications, or are referenced in system-specific specifications, whenever available and deemed appropriate by the procuring agency.

2.2.5 Standards

Standards (including standard drawings) are a preferred way to establish engineering and technical limitations and applications for acquired materiel, processes, methods, designs, and engineering practices. They are referenced in system-specific specifications to define one or more features of an item in a standard way. Military standards are invoked at the discretion of the procuring agency, in accordance with AFR 73-1, Defense Standardization Program. Like specifications, standards do not prescribe government operations.

2.2.6 Manuals

Manuals serve the same purpose as regulations; they are often identical in appearance, volume, scope and applicability.

2.2.7 Handbooks

Handbooks (including Design Handbooks) define suggested practices. They supplement specifications and standards by bringing together procedural, technical design, and engineering information.

2.2.8 Pamphlets

Pamphlets are intended to provide useful guidance informally. They are usually written in an informal style and are not required to follow a prescribed format.

2.2.9 Technical Reports

Technical reports are issued by various agencies. Technical reports address a wide range of topics, including those covered by most other types of publication.

2.3 Directive vs. Non-Directive Documents

In general, ASPRs, DoD Directives, DoD Instructions, manuals, and regulations are intended to be directive on the government organizations to which they are issued. However, such directives normally do not apply to a specific acquisition program unless specifically identified in its Program Management Directive (PMD) or Program Management Plan (PMP). In contrast, exhibits, handbooks (including AFSC Design Handbooks), periodicals, pamphlets, publications (except for JCS Publications), and technical reports are in general not directive on government organizations.

None of the above is directive on contractors except to the extent referenced in their contracts. Specifications, standards (including standard drawings), and DIDs are specified in the contract(s) or Memoranda of Agreement (MOA) of an acquisition program. Bulletins and circulars may announce new versions of the above. Technical Orders (TOs) describe portions (typically equipment) of specific systems, as they have been built, for use by operations and maintenance personnel.

2.4 Supplements

At least within the Air Force, supplements to existing ASPRs, regulations, and manuals may be issued by lower-echelon organizations to interpret or augment higher-level direction. Such supplements apply only to the issuing organization and its components. Supplements may not contradict the documents they supplement. The statements in a supplement are usually keyed to the specific paragraphs of the basic document that they modify or augment. Consequently a supplement must generally be read concurrently with the basic document, since it is otherwise unintelligible.

DoD Directives and DoD Instructions attached to a standard Air Force document are not considered supplements. Instead, they are considered part of the standard document. Other DoD publications, such as manuals, handbooks and catalogs, publications of the Joint Chiefs of Staff, and Interservice

publications are indexed in AFR 0-4. Each such publication is considered directive unless its text or nature indicates otherwise.

Military and federal specifications, military standards, and DIDs may be supplemented by language included in the individual MOA or contracts (and contract attachments) to which they apply. However, formal supplements to these documents are not normally issued.

2.5 Indexes

Indexes of most standard types of documents are issued by the DoD, Air Force, other DoD Components, Major Commands and their components for the documents each publishes. Table 2 lists by source and type the kinds of documents listed in this guidebook. Table 2 also identifies, where known, the applicable index, a general document ID format, and an example of the document ID.

For each index mentioned in Table 2, Table 1 identifies the issue we referenced to determine the document's exact title, current status, and version date (unless we had more current information). Table 1 also states (if known) how often each index is revised, and the month of revision.

Table 1 should be used to determine whether a specific document's index is current. If not, the current index should be obtained and checked to see if a later version of the document has been published. If so, that later version should be obtained.

To be certain that one has the latest version of a document, one must check with the specific office responsible for its preparation (i.e., its OPR), since no index can reflect new versions issued since the index's latest publication date. The OPRs for most of the documents listed in this guidebook are identified in the appropriate indexes, or in the documents themselves.

3. DATA AUTOMATION AND SYSTEM ACQUISITION

The Air Force has established an Automatic Data Processing (ADP) Program which applies to all Air Force activities with responsibilities for (a) the selection, development, acquisition, management and use of ADP resources, and (b) the design, development, and maintenance of automated data systems. This program is established, and policies and responsibilities are identified, in AFR 300-1. The policy includes central management and control of the acquisition of all computer resources (e.g., software, computers). AFR 300-1 assigns this responsibility to the Director of Data Automation, HQ USAF. This responsibility includes selection, development, standardization and use of all computer equipment and software.

Other regulations and manuals in the AFR 300 series are used to control the ADP resources and data systems. The ADP data systems acquired under the AFR 300 series, together with procedures for using them, are described in individual volumes of the AFM 171 series. All resources of an ADP Program (equipment, performance monitors, software, contractual services, supplies, and automated data systems) are acquired, developed, and managed according to the concepts and policies of AFR 300-2.

One class of exceptions identified are computer resources developed or acquired as part of a DoD-designated major system. These computer resources are to be employed as dedicated elements, subsystems or components of major systems funded under Research, Development, Test, and Evaluation (RDT&E) or procurement appropriations. AFR 800-2 is the Program Management regulation for Air Force acquisition of major systems. The computer resource portion of such a major system is to be managed according to AFR 800-14.

Another class of exceptions are systems whose PMDs direct their management per AFR 800 series regulations. Nearly all ESD-managed systems belong to this class.

Under the AFR 800 series of regulations, major systems assigned to the Air Force, including any necessary software, are the responsibility of HQ USAF. An implementing command, usually the AFSC, is selected and is given maximum authority and responsibility to acquire the system. This responsibility is usually delegated to a Product Division (e.g., ESD). A Program Manager (PM) is appointed and given authority to act on behalf of the implementing command to conduct the acquisition program within approved performance, schedule, and funding parameters.

In general, then, two types of acquisition involving software have been distinguished, to which two basic series of regulations can apply: (a) ADP procurement, management and development, regulated by the AFR 300 series; and (b) acquisition of major systems, including embedded computer resources, regulated by the AFR 800 series. The two terms, "ADP" and "embedded computer resources", are used fairly consistently in recent regulations as distinguishing names.

Furthermore, the two series are not mutually exclusive. The Air Force ADP Program Single Manager established by AFR 300-1 is responsible for

providing ADP technical and managerial expertise to AFR 800 series acquisition programs through HQ USAF coordination. Also, for AFR 800 series programs, several specific regulations and manuals in the AFR 300 series can be employed "to the extent practical" (e.g., for data element, equipment, and computer program standardization). Figure 1, adapted from AFR 800-14, illustrates the major relationships between the two series.

Appendix A lists the current AFR 300 series and AFR 800 series documents, and Section 4 contains abstracts of some of them. The following sections discuss significant differences between the AFR 300 and AFR 800 series regulations, and some important similarities, as they affect software acquisition. Table 7 presents some of the distinguishing characteristics of AFR 300 and AFR 800 series documents.

3.1 System Requirements

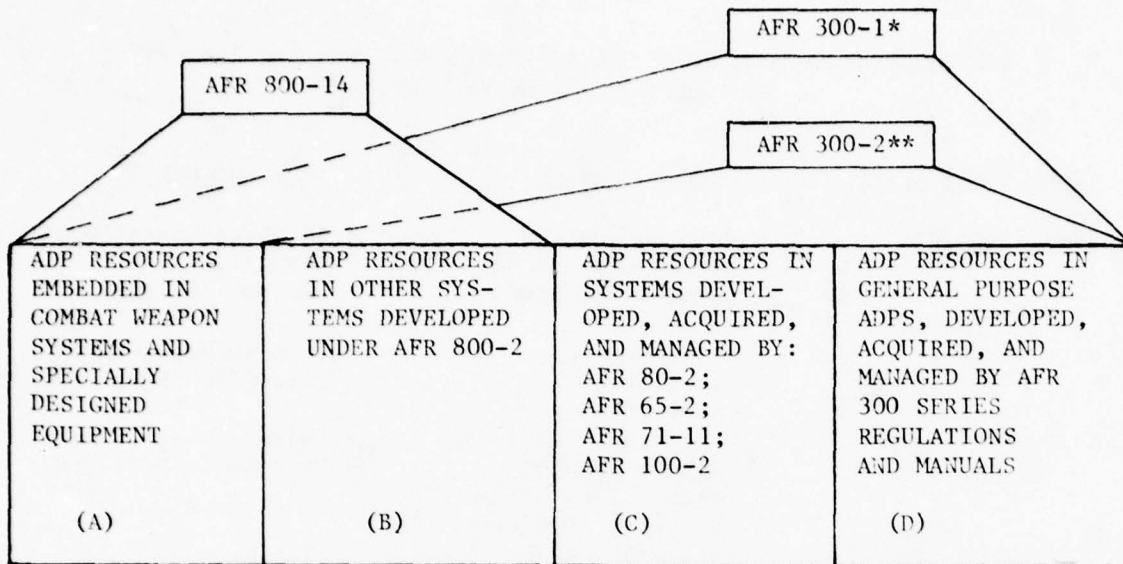
New or improved system requirements may be proposed by any Air Force organization or by higher authority. Such requirements are transmitted by a Major Command (MAJCOM) to HQ USAF in the form of a Required Operational Capability (ROC), as specified by AFR 57-1*, for new or improved operational capabilities which may include computer resources. Alternatively, the computer resource requirements may be expressed in a Data Automation Requirement (DAR), as described in AFM 300-12. In either case HQ USAF will review the requirement statement, and if the requirement is approved, will issue a Project Directive (PD) for Automated Data Processing System (ADPS) acquisitions or a Program Management Directive (PMD) for major system acquisition programs. The PD or PMD establishes the basis and authority for subsequent management of the project. This directive may specifically identify any regulations to be followed or excluded in the acquisition. For software it will identify the management policy and procedures to be used: AFR 300 series, AFR 800 series, a combination of the two series, or perhaps some ad hoc management policy.

3.2 Scope of Effort

The application of AFR 800 series or AFR 300 series regulations may best be distinguished by the scope of the project, as indicated by the time, expenditure, and extent of technical risk involved.

AFR 800 series procurements entail acquisition of entire systems. The implementing command is responsible for such a system at least from the time the requirement is initially approved until the system is available to the operating command. Software and computers may be rather minor portions of the total system in terms of resources expended. Thus, from a management point of view, the software portion of the system may be hidden, simply because other matters are more likely to occupy the PM's attention. AFR 800-14 is intended to highlight the computer equipment and software in such systems, and to insure that those resources are properly planned, developed, documented, employed, and supported.

* A forthcoming revision of AFR 57-1 will replace the ROC by a rather different Statement of Operational Need (SON).



CATEGORY A - These items are excluded from the DoD and Air Force ADP Programs. They are subject to the policies of AFRs 300-1 and 800-14.

CATEGORY B - The ADP resources integral to these systems are subject to policies of AFR 300-1, AFR 800-14, and AFR 300-2.

CATEGORY C - Management of the ADP resources in these systems is subject to AFR 300-1, AFR 300-2, and the other cited regulations. As these ADP resources are dedicated to the systems they support, primary management stems from the basic regulation governing the system.

CATEGORY D - These systems are developed, acquired, operated, and managed using the AFR 300 series regulations and manuals.

* Technical and managerial expertise is provided by ADP Program Single Manager organizations by means of review, consultation, and recommendation via HQ USAF coordination.

** Pertinent AFR 300-2 policy requirements are specified by the PMD.

Figure 1. Applicability of Air Force Regulations Pertaining to 800 and 300 Series Managed Programs

Table 7

DISTINGUISHING MANAGEMENT CHARACTERISTICS OF THE AFR 300 SERIES
AND AFR 800 SERIES REGULATIONS

<u>CHARACTERISTICS</u>	<u>AFR 300 SERIES</u>	<u>AFR 800 SERIES</u>
User Requirements	<ul style="list-style-type: none"> - Data Automation Requirement (DAR) - Economic Analysis 	<ul style="list-style-type: none"> - Required Operational Capability (ROC) - Mission Analysis
Directives	<ul style="list-style-type: none"> - Data Project Directive 	<ul style="list-style-type: none"> - Program Management Directive (PMD)
Responsibilities	<ul style="list-style-type: none"> - Development Activity - Program Manager (also called ADPS Manager or Project Manager) 	<ul style="list-style-type: none"> - Implementing Command - Program Manager (PM)
Scope	<ul style="list-style-type: none"> - Automated Data Processing System (ADPS) - Automated Data Systems 	<ul style="list-style-type: none"> - Any designated system
Planning	<ul style="list-style-type: none"> - Data Project Plan 	<ul style="list-style-type: none"> - Program Management Plan (PMP)
Milestones	<ul style="list-style-type: none"> - Concept Certification - Design Certification - Issuance of solicitation documents - Prototype Test Evaluation and Implementation Approval - Final Operational Review 	<ul style="list-style-type: none"> - Each Acquisition Life Cycle Phase: Conceptual, Validation, Full-Scale Development, Production and Deployment
Management Systems	<ul style="list-style-type: none"> - Milestone Report - Planning, Programming and Budgeting System 	<ul style="list-style-type: none"> - As specified in PMD or PMP
Reporting	<ul style="list-style-type: none"> - Command or Air Force Report at each milestone, at project slippage, and at the end of fiscal years - Specific cost, status and schedule information is required 	<ul style="list-style-type: none"> - Periodic review as directed or planned by AFSC, Air Force or Secretary of Defense (SECDEF) - SECDEF approval required to start a new phase

TABLE 7 (Concluded)

<u>CHARACTERISTICS</u>	<u>AFR 300 SERIES</u>	<u>AFR 800 SERIES</u>
Software Requirement	- Description of requirements, functions, services and capabilities to be provided by the proposed computer program	- System or Segment Specification - CPCI Development Specification
Software Design	- Description of the computer program capabilities, interfaces, capacities, limitations	- Computer Program Product Specification
Software Acceptance	- Procedure for acceptance must be specified	- Criteria for testing contained in specification
Software Documentation	- Provisions for documentation must be stated, explicit, and anticipate future needs	- All data items deemed necessary for the implementing, supporting, and using commands

AFR 300-1 addresses systems that are typically much smaller. It applies to the selection, development, documentation, management and use of ADP resources, and to the design, development and maintenance of automated data systems. In the limited context of an automatic data processing program, software generally consumes a proportionally larger share of system acquisition resources expended, and therefore generally receives more management attention. The greater attention, and resultant software visibility, are indicated by the larger number of AFR 300 series regulations than AFR 800 series regulations that directly impact software. This limited scope of systems normally acquired under AFR 300 series regulations also means that the Air Force command stating the requirements, the implementing command, and the using command are often the same.

AFR 300 series regulations also provide for development of data systems common to more than one installation, and acquisition of software with potential for substantial use elsewhere in the government.

3.3 Management Responsibilities

AFR 300-2 and AFR 800-2, respectively, list the responsibilities for management of AFR 300 series and AFR 800 series programs. To highlight the differences this section concentrates on the responsibilities of the Program Manager (also called ADPS Manager and Project Manager in AFR 300 series documents).

3.3.1 AFR 800 Series PM Responsibilities

An AFR 800 series program PM organizes, plans, directs and controls the entire program. He prepares the Program Management Plan (PMP), which is directive on all participating organizations, and which establishes the scope, cost thresholds, and schedules for all program efforts. Proposed changes in the plan, level of effort, system requirements, expected costs, or schedules are assessed by the PM for HQ USAF. The PM coordinates the activities of the participating organizations and reports to higher headquarters the performance and progress of the program, including recommended changes. For selected programs, the PM may directly communicate problems and recommended solutions to the commander of the implementing command, the Chief of Staff, USAF, and the Secretary of the Air Force.

3.3.2 AFR 300 Series PM Responsibilities

An AFR 300 series program PM accomplishes system development or modification in accordance with the Data Project Directive and Data Project Plan. He establishes configuration management and provides operational support, such as system maintenance and review of proposed system changes. This responsibility continues after development, through operational use of the system.

3.4 Milestones

3.4.1 AFR 800 Series Program Milestones

The principal milestones of an AFR 800 series program are the transition points from one phase to another within the major system acquisition life cycle. In parallel with these transitions, the system's specifications are successively refined and formalized to establish the functional, allocated and product baselines. The establishment of each baseline is a major milestone of the acquisition. The Life Cycle Events Guidebook and the Configuration Management Guidebook discuss these events in some detail.

Successful completion of design reviews, tests, and audits can and should be established as additional milestones. MIL-STD-1521A (USAF) is the single document most used to specify the conduct of technical design reviews and audits for software developed under contract. This standard is normally applied to a system as a whole and to its deliverable parts, called Configuration Items (CIs). These may comprise both equipment CIs and Computer Program Configuration Items (CPCIs). MIL-STD-1521A (USAF) provides for System Requirement Reviews (SRRs) and System Design Reviews (SDRs), and for Preliminary Design Reviews (PDRs), Critical Design Reviews (CDRs), Functional Configuration Audits (FCAs), Physical Configuration Audits (PCAs), and Formal Qualification Reviews (FQRs) for the system's CIs. For milestone definition, MIL-STD-1521A (USAF) is used together with MIL-STD-483 (USAF) (Configuration Management Practices) and MIL-STD-490 (Specification Practices). Among other things these standards, and AFR 800-14, Volume II, define Preliminary Qualification Tests (PQTs) and Formal Qualification Tests (FQTs) for each CI. These tests, and system tests, normally constitute important milestones.

The contracts or Memoranda of Agreement between the government and developers may establish additional milestones. Regardless of the specific milestones, a PM continually assesses progress, performance and costs, and reports appropriate problems and recommended changes to higher headquarters.

3.4.2 AFR 300 Series Program Milestones

AFR 300 series regulations require milestones termed Concept Certification, Design Certification and Final Operational Review. They also suggest other milestones, such as issuance of solicitation documents and approval of prototype test evaluation. Each milestone indicates completion of a program phase that must be specifically approved by the ADPS Manager. Intermediate milestones are identified for the end of each fiscal year.

A milestone report must be prepared for each milestone. AFM 300-12 requires a specific format for reporting current and estimated future costs, and emphasizes that the cost elements and schedules for data submitted in the proposal, milestone reports, economic analysis, and ADP management information system must be reconciled to one another.

Major commands are responsible for monitoring data system development under their control and for initiating any necessary management

action. Management reviews are required whenever a milestone slips 120 days or cost varies 25 percent from that estimated at the prior milestone. Depending upon the source of the original requirement and the amount of effort involved, the Major Command or HQ USAF will conduct the review, and for very large projects the Secretary of the Air Force/Financial Management and Assistant Secretary of Defense/Comptroller will be invited.

3.5 Software Requirements and Configuration Management

3.5.1 AFR 800 Series Requirements

AFR 800 series systems must record the requirements for the entire system in a system specification prepared in accordance with MIL-STD-490 and MIL-STD-483 (USAF). The system specification requirements may be subdivided into system segment specifications, and must be further subdivided into CI specifications. Identification of any segments, and of the CIs in a system, must be included in the system specification. There are no fixed rules governing CI definition, but the Life Cycle Events Guidebook and the Configuration Management Guidebook suggest guidelines.

The PM must employ configuration management (defined in AFR 65-3) that will identify and document the important functional and physical characteristics of all configuration items. The practices defined in MIL-STD-483 (USAF) are a means to identify CIs, and to establish baselines from which future changes can be proposed, assessed and recorded. The data and actions required to implement such a system also establish a sequence of events for product development that makes product control possible and is believed to improve product quality. Although not explicitly required, the procedures used are usually those of MIL-STD-483 (USAF) and AFSCM 375-7. Software requirements are allocated among a system's CPCIs as defined in MIL-STD-490 and MIL-STD-483 (USAF). Per these standards, specifications are prepared for each CPCI: Computer Program Development Specifications describing its functional requirements, and Computer Program Product Specifications describing the resultant computer programs as built.

3.5.2 AFR 300 Series Requirements

The DAR includes objectives, alternatives and an economic analysis comparing development and operating costs with benefits to be accrued. Preparation of the DAR is always prerequisite to the issuance of a Data Project Directive, which is the authority to proceed with the project. An economic analysis, relating elements of effort to cost, is completed prior to issuance of the authority to proceed. This is very similar in principle to the economic analysis conducted for AFR 800 series programs.

AFR 300 series programs also require configuration management, but only as a vehicle to assess and implement future changes. There is no stated requirement to establish baselines and maintain configuration identification as when MIL-STD-483 (USAF) is used.

3.6 Software Standards

3.6.1 Programming Languages

Both AFR 800-14 and AFR 300-10 require use of an appropriate high order programming language (HOL), such as COBOL or JOVIAL, unless specifically exempted in a project directive or project plan.

AFR 300-10 applies to all commands and activities that use programming languages or acquire language compilers in support of ADP Equipment (ADPE), except what is excluded from the provisions of AFR 300-1. AFR 300-10 also identifies situations in which assembly language is permitted. The standard HOLs are:

- (a) JOVIAL (J3) and JOVIAL (J73/I), as specified in MIL-STD-1588 and MIL-STD-1589, respectively, which are the standards for command and control applications.
- (b) FORTRAN, as specified in ANSI X3.9 (FORTRAN) and ANSI X3.10 (Basic FORTRAN), which are the standards for advanced mathematical applications.
- (c) COBOL, as specified in ANSI X3.23 (except the Report Writer module), which is the standard for all other automated data processing applications. Three subsets of the full COBOL language are identified.

3.6.2 Data Elements

AFM 300-4 requires the use of standard data elements and AFR 800-14 requires the use (to the maximum extent possible) of ADP standards, presumably including AFM 300-4. Other than the required use of specific data values, there is no requirement for standardized record format or data base structure.

3.6.3 Use of Existing Software

There is no regulation requiring use of existing software or design techniques; e.g., from software libraries or other sources. Potential use of existing software is presently limited by the personal knowledge of a Project Manager and his staff. However, AFR 800-14 has directed AFSC and AFLC to prepare, and AFLC to maintain an inventory of computer programs.

3.6.4 Software Engineering Practices

SAMSO Exhibit 73-3 describes engineering practices for software design and development. Its use is required by all SAMSO agencies. In essence, this document is a statement of "good" programming and software management practices. It is primarily aimed at large software developments with stringent requirements for software reliability, maintainability, or extensibility. There are no quantitative measures of these qualities. The Rome Air Development Center Structured Programming Series (RADC-TR-74-300)

addresses computer program logic, structure, modularization, and documentation. However, neither of these sources has been mandated for use on ESD-managed programs.

3.7 Documentation Requirements

3.7.1 AFR 800 Series Documentation Requirements

AFR 800 series regulations require identification of computer programs as configuration items. To minimize the number of data items on Contract Data Requirements Lists (CDRLs), it is usual for a PM to use the DIDs required for AFR 800 series configuration management as the basis for software documentation and to add others as necessary. As a result, the MIL-STD-483 (USAF) and MIL-STD-490 system, development, and product specifications usually describe the software; test plans/test procedures and test reports describe the quality of the software; and users' manuals describe how to use the software.

3.7.2 AFR 300 Series Documentation Requirements

AFR 300 series programs are much less likely to use all of the configuration control practices of MIL-STD-483 (USAF) and the documentation that these practices entail. Data automation software developed for a specific Air Force wide usage, such as the Base Level Management Standardization Program, the Standard Base Supply System, and the Military Personnel Automatic Data Processing System, often has system-specific documentation standards, especially for users' manuals.

3.7.3 Important Exceptions

Some systems use alternate documentation standards such as those described in DoD 4120.17-M, SSD Exhibit 61-47B, or Naval Weapons Specification WS 8506. These alternate documentation standards generally emphasize, more than MIL-STD-483 (USAF) and MIL-STD-490, a separate and detailed description of data common to two or more computer programs, and of interfaces among computer programs.

3.8 Software Testing

3.8.1 Testing Software in AFR 800 Series Systems

Systems managed under AFR 800 series regulations that use the configuration management procedures of MIL-STD-483 (USAF) include in each system, segment, and CPCI specification, a section on the testing of each requirement contained in that specification. Frequently, these systems' Statements of Work (SOWs) require preparation of related test plans, test procedures, and test reports.

The Air Force policies and requirements for test and evaluation of all systems acquired under AFR 800-2 are contained in AFR 80-14. This regulation emphasizes the test and evaluation of systems for suitability and effectiveness; it includes testing computer programs to the extent that they

are part of a system. The test and evaluation of these computer programs, to determine the degree of compliance with development specifications, is required. AFR 300-14 also addresses software testing.

3.8.2 Other Testing Guidance

AFSC DH 4-2, Chapter 5, describes guidelines for test and evaluation of computer programs. It suggests iterative testing of subprograms, functional areas, and an entire subsystem. The handbook describes means of testing against specifications, and gives almost equal emphasis to testing for program "validity and excellence". This distinction is very similar to the difference between testing by looking for correct results and by looking for errors. Specification test sections prepared according to MIL-STD-490 or MIL-STD-483 (USAF) describe only what must be tested and the methods to be used.

There are no known general rules for evaluating the results of computer program testing (e.g., the implications of finding different types of errors), or for deciding when enough successful testing has been planned or completed.

3.9 Logistics and Other Matters

3.9.1 AFR 800 Series Provisions

A program managed per AFR 800 series regulations must include an Integrated Logistics Support (ILS) program, and must emphasize system engineering and life-cycle costing throughout all acquisition life cycle phases. It is presumed in AFR 800 series programs that the system will be turned over for deployment to an operating command and for maintenance and modification to a supporting command. (These commands may be the same.) AFR 800-14, Vol. II, Chapters 9 and 10, outline AFR 800 series policy on these matters, and identify related planning documents. Especially important among these are the Computer Resources Integrated Support Plan (CRISP) and the Operational/Support Configuration Management Procedures (O/S CMP).

3.9.2 AFR 300 Series Provisions

The AFR 800 series considerations are not ignored in an AFR 300 series program, but the emphasis is different. The generally smaller program, the likely lack of transition to a separate Air Force command, and the continuing position of a single ADPS Manager in an operating and supporting role, all simplify the process of estimating future volume of effort and cost, and ease, during acquisition, the ability to anticipate future needs, especially data items.

4. ABSTRACTS OF SELECTED ACTIVE DOCUMENTS

Following are abstracts of several documents listed in Appendix A. These abstracts are presented in the same order that the documents are cited there.

4.1 OIB Circular A-109, Major System Acquisitions

This circular establishes policies to be followed by Executive branch agencies in the acquisition of major systems. Major system acquisition programs are those that:

- a. are directed at and critical to fulfilling an agency mission,
- b. entail the allocation of relatively large resources, and
- c. warrant special management attention.

Definition of additional criteria (including establishment of relative dollar thresholds) for the determination of major systems is at the discretion of the Executive agency head. An Executive agency, under the purview of this circular, is an Executive department or an independent establishment within the meaning of Sections 101 and 104(1), respectively, of United States Code, Title 5.

This circular covers and applies to management activities related to the acquisition of major systems. These activities include:

- a. analysis of agency missions;
- b. determination of mission needs;
- c. setting of program objectives;
- d. determination of system requirements;
- e. system program planning;
- f. budgeting and funding;
- g. research;
- h. engineering;
- i. development;
- j. testing and evaluation;
- k. contracting;
- l. production;
- m. program and management control; and

- n. introduction of the system into use or otherwise successful achievement of program objectives.

4.2 DoDD 4105.55, Selection and Acquisition of Automatic Data Processing Resources

This directive applies to activities within the Office of The Secretary of Defense, JCS, Military Departments and Defense Agencies, but not to those of contractors. It implements guidance from the Office of Management and Budget (OMB) and from the General Services Administration (GSA). The policies and guidance defined by this directive cover all areas of ADP resource acquisition (original, upgrade, and replacement), but at a very high level. It stresses the need for competitive selection, planning prior to acquisition, and review of all alternatives before making a selection.

4.3 DoDD 5000.1, Major System Acquisitions

This directive establishes policy for the management of programs designated as major system acquisitions. Major system acquisition programs are so designated by the Secretary of Defense on the basis of: (a) recommendations of the DoD component head and OSD officials; and (b) cost estimates that exceed the stated thresholds.

The directive also provides a guide for management of less-than-major system acquisitions programs. Basically, the policy outlines the system acquisition process including responsibilities of the Secretary of Defense, DoD components, the OSD staff, and the Defense Acquisition Executive. Key decision points and other major aspects of acquisitions program management are defined.

4.4 DoDD 5000.2, Major System Acquisition Process

This directive establishes policies and procedures for DoD activities in support of the Secretary of Defense's decision-making process on major system acquisitions (i.e., those defined in DoDD 5000.1). It directs the establishment of advisory councils (a DSARC and a (S)SARC for each military service) to review major systems, and it makes recommendations to support Secretary of Defense decision-making. The directive prescribes major system program documentation which includes the Mission Element Need Statement (MENS) and the Decision Coordinating Paper (DCP). It further defines the responsibilities of DoD component heads in the identification and analysis of mission needs, and outlines scheduled program reviews.

4.5 DoDD 5000.3, Test and Evaluation

This directive establishes policy for the conduct of test and evaluation of major systems (i.e., those defined by DoDD 5000.1), and its principles apply to the acquisition of other defense systems. It directs that test and evaluation shall be scheduled throughout the acquisition, in an effort to identify and reduce technical risk. Development Test and Evaluation (DT&E) and Operational Test and Evaluation (OT&E) are required for all systems, and special provisions are made for one-of-a-kind systems.

4.6 DoDD 5000.28, Design to Cost

This directive establishes policy and guidance for the application of design-to-cost principles to the acquisition of major systems, subsystems and components. The objectives of the design-to-cost concept are twofold:

- a. to establish cost as a parameter equal in importance to technical requirements throughout design, development, production and operation phases;
- b. to establish cost elements as management goals for achieving the best balance between life cycle cost, acceptable performance and schedule.

In addition to policy, the directive also defines responsibilities for the DoD Components having acquisition authority for defense systems, subsystems, and components.

4.7 DoDD 5000.29, Management of Computer Resources in Major Defense Systems

This directive establishes policy for the management and control of computer resources that are part of major system acquisitions as defined in DoDD 5000.1. These principles may be applied to other systems, with the exception of general purpose, commercially available automatic data processing systems. Computer resources are defined as subsystems of major importance which must be managed with particular emphasis on computer software and its integration with hardware. Policy is defined for the following major areas:

- o Requirements validation and risk analysis.
- o Configuration management of computer resources.
- o Computer resources life cycle planning.
- o Support software deliverables.
- o Milestone definition and attainment criteria.
- o Software language standardization and control.

Responsibilities for establishing a DoD Management Steering Committee for Embedded Computer Resources and DoD component responsibilities are also defined.

4.8 DoDD 5010.19, Configuration Management

This directive establishes policy for configuration management for all Military Departments, DoD Components at all echelons, and all Defense-Industry interfaces. Configuration management must be applied to all configuration items procured, or obtained by agreement between in-house activities. The directive describes responsibilities for initiation, planning, documentation and audit of configuration management, and describes the processes of .

functional and allocated configuration identification, control and status accounting.

4.9 DoDI 4105.65, Acquisition of Automatic Data Processing Computer Program and Related Services

This instruction establishes procedures to be used by DoD Components in defining requirements and developing purchase requests for the selection and acquisition of computer programs and related services. The purpose of these procedures is to assure more reliable and widely useable computer programs of uniform quality at controlled costs. The provisions of this instruction apply to the selection and acquisition of the following computer programs and services:

- a. any collection of computer programs, studies or methods, or techniques primarily for subsequent use by an element of the Department of Defense;
- b. products related primarily to the design and development of such computer programs; or
- c. documentation supporting, describing or extending the use of such computer programs.

4.10 DoDI 5000.31, Interim List of DoD Approved High Order Programming Languages

This instruction specifies High Order Programming Languages (HOLs) approved for use in conjunction with embedded computer resources as defined in DoDD 5000.29. The instruction does not apply to either commercially available software (as defined under DoDD 5100.40) or any application/user-oriented languages (e.g., user requirements languages) which are not within the programming language category. This instruction requires that DoD-approved HOLs will be used throughout a program unless it is demonstrated that none of the approved languages is cost effective or technically practical over the system's acquisition life cycle. It requires that each DoD Component designate one office authorized to approve requests for such exemptions. The DoD-approved HOLs and their defining specification documents and controlling agencies are also listed.

4.11 DoDI 5010.12, Management of Technical Data

This instruction implements a program of Technical Data Management for technical data developed by, or contractually acquired by, DoD or any DoD Component. The instruction identifies planning and continuous monitoring actions, based on current need, for all technical data. The instruction also establishes procurement data packages, data item descriptions, and the contract data requirements list. Attachments give useful guidance on the need and usage of data items, preparation of data requirements (data call), and information on technical data standardization.

4.12 DoDI 5010.21, Configuration Management Implementation Guidance

This instruction provides guidance for DoD Components in the implementation of Department of Defense policies on configuration management. Configuration management applies to all systems, equipment and other designated material items. The process should be tailored to the particular configuration item (CI) whether it is developed at government expense or privately developed and offered for government use.

The instruction addresses and defines guidelines related to the following concepts of configuration management:

- a. configuration identification;
- b. configuration control;
- c. configuration status accounting;
- d. configuration audits;
- e. procurement aspects;
- f. logistic support aspects; and
- g. implementation.

4.13 DoDI 7041.3, Economic Analysis and Program Evaluation for Resource Management

This instruction establishes policy and procedures for consistent application of economic analysis in order to:

- a. identify systematically the benefits and costs so that useful comparisons of alternative methods for accomplishing a task or mission can be made;
- b. highlight the key variables and the assumptions on which investment decisions are based and allow evaluation of these assumptions;
- c. evaluate alternative methods of financing investments; and
- d. compare the relative merits of various alternatives as an aid in selecting the best one.

Also included in this publication are three enclosures which contain:

- a. references;
- b. definitions;
- c. instructions and forms for preparing summaries of project costs and project benefits.

Enclosure 3 is a discussion of discounting techniques.

4.14 DoD 4120.17-II, DoD Automated Data System Documentation Standards Manual

This publication provides a general discussion of automated data system (ADS) documentation, its purposes, authorship requirements, life cycle applicability, and finally the needs of its audience. An attempt is made to correlate project complexity with documentation needs. The documentation types outlined and described in this publication are as follows:

- a. functional description (FD)
- b. data requirements document (RD)
- c. system/subsystem specification (SS)
- d. program specification (PS)
- e. data base specification (DS)
- f. users' manual (UM)
- g. computer operation manual (OM)
- h. program maintenance manual (PM)
- i. test and implementation plan (TP)
- j. test analysis report (TR)

These are intended to be the complete set of ADS documentation which could be added to required standard system planning documentation.

4.15 MIL-II-46855A, Human Engineering Requirements for Military Systems, Equipment and Facilities

This specification defines requirements for applying principles and criteria (MIL-STD-1472B) of human engineering to the development and acquisition of systems. The specification requires a plan and tasks of analysis, design, development, and test and evaluation.

4.16 MIL-Q-9858A, Quality Program Requirements

This specification applies to all supplies or services when referenced in a configuration item specification or contract. It requires a contractor to plan, establish and document a quality program for procedures, processes and products, including purchased data, and for the contractor to make objective evidence of quality conformance available to the Government Representative.

4.17 MIL-S-52779, Software Quality Assurance Program Requirements

This specification establishes the requirements for a definitive, visible, contractor software quality assurance (SQA) program and its associated planning documents. It states that this documentation shall include methods to aid in the identification of software development work packages, to track work progress, to assure configuration management practices are being maintained, to assess the success of software testing efforts, to detect and correct software deficiencies, and to establish software library controls. In addition, it requires the SQA program to address design evaluation, documentation reviews, technical review and audit schedules, and SQA tools and techniques.

4.18 MIL-S-83490, Specifications, Types and Forms

This identifies types of permitted specifications. With reservations for technical society, industry association, and contractor standards and normal practices, all specifications must conform to MIL-STD-490 in format and content. To a large extent, MIL-STD-490 forms a part of this specification by reference. MIL-S-83490 includes provisions for quality assurance of specifications (not of the item described by the specification).

4.19 MIL-T-38804, Time Compliance Technical Orders (TCTOs), Preparation Of

This specification identifies the requirements for preparing TCTOs, including format. TCTOs are used to impose or direct usage restrictions, retrofit changes, or special one-time inspection or replacement requirements on components of systems. TCTOs are a means of changing and ordering the retesting of computer programs.

4.20 MIL-STD-430, Configuration Control-Engineering Changes, Deviations and Waivers

This standard establishes configuration control requirements for the engineering or operational systems development, production and operational life cycle periods of configuration items. Included in this is the provision of requirements for preparation of Engineering Change Proposals (ECPs), Notices of Revision (NORs), facility construction contracts, deviations, and waivers. The standard is intended for use by prime contractors and government activities for:

- a. proposing engineering changes to configuration items under DoD contract,
- b. requesting deviations pertaining to such items, and
- c. requesting waivers.

This standard is also intended to control privately developed items used in configuration items, and may be applied to engineering changes during advanced development, provided such control is limited to functional characteristics and the minimum necessary design constraints.

4.21 MIL-STD-482A, Configuration Status Accounting Data Elements and Related Features

This standard establishes data items and aggregates to be used for configuration status accounting. Provisions are made for the addition of new programs or contractor data items. The standard includes item names, legal coded values, and an explanation of the item meaning.

4.22 MIL-STD-483 (USAF), Configuration Management Practices for Systems, Equipment, Munitions, and Computer Programs

This standard establishes uniform configuration management practices, and requirements for system, development (Part I) and product (Part II) specifications, that can be tailored to all USAF systems and configuration items, including computer programs. It supplements and adds requirements not contained in MIL-STD-480, MIL-STD-481A, MIL-STD-482A and MIL-STD-490. The standard describes the general requirements of configuration management and outlines 15 types of document pertinent to identifying, establishing and controlling system and configuration item baselines.

4.23 MIL-STD-490, Specification Practices

This describes the purposes, formats, and technical content of various types of specifications. The applicable set of specifications relating to the development of computer programs are the type A (system specification), type B5 (computer program development specification), and type C5 (computer program product specification). This material is extensively altered by MIL-STD-483 (USAF).

4.24 MIL-STD-499A (USAF), Engineering Management

This standard contains criteria and guidance for planning, conduct and management of system engineering effort. It emphasizes the tailoring of engineering tasks to each acquisition program, and stresses performing all engineering tasks as a single integrated engineering effort. An appendix includes task statements which can be tailored to a particular program and become specific contractual requirements.

4.25 MIL-STD-881A, Work Breakdown Structures for Defense Materiel Items

This standard prescribes a framework for: planning and assigning technical responsibilities and tasks; providing uniform control over and reporting of progress and status of contractor efforts; and maintaining uniform definitions to improve interpretation and reconciliation of reports. The standard describes Work Breakdown Structure (WBS) preparation and use, and WBS levels that apply to summaries and to individual contracts. The highest three levels of the WBS, i.e., the summary WBS, are specified for seven different categories of systems, including electronic systems which encompass ADP and computer programs. Use of MIL-STD-881A is required by both contractors and DoD components.

4.26 MIL-STD-1472B, Human Engineering Design Criteria for Military Systems, Equipments and Facilities

This standard specifies human engineering criteria for human-equipment interfaces. All of the criteria refer to physical limits. There are no explicit references to qualities of computer programs and their interface with humans.

4.27 MIL-STD-1521A (USAF), Technical Reviews and Audits for Systems, Equipment and Computer Programs

This standard prescribes the detailed requirements for the conduct of the following system milestone events:

- a. system requirements review (SRR)
- b. system design review (SDR)
- c. preliminary design review (PDR)
- d. critical design review (CDR)
- e. functional configuration audit (FCA)
- f. physical configuration audit (PCA)
- g. formal qualification review (FQR)

These reviews and audits are conducted only when specified in the contract. The standard identifies contractor and government responsibilities in the conduct of each type of review or audit, and outlines the minimum information to be presented. The reviews and audits may be used individually or as a set, and may be applied to an entire system, or to individual equipment or computer program CIs, as appropriate.

4.28 MIL-STD-1588, JOVIAL (J3)

This is the standard specification for compilers of JOVIAL (Jules Own Version of the International Algebraic Language)(J3). JOVIAL is a general purpose procedure-oriented programming language similar to FORTRAN (Formula Translation) and COBOL (Common Business Oriented Language). It is largely machine independent, thus providing a common standard for communications between users of many different computers. As a procedure oriented language, it represents a compromise between the general applicability provided by machine-oriented languages and the specific applicability of problem-oriented languages.

4.29 MIL-STD-1589, JOVIAL (J73/1)

This standard describes the Level I subset of the J73 JOVIAL language. J73 is a large, inclusive language with three subsets. Level I is the most restrictive. It is intended to be used in the development of avionics

systems, operating systems, and communications systems. Levels II and III are progressively larger subsets.

The Level I subset is upward compatible with the full language. Compatibility exceptions are noted in this standard.

4.30 AFM 300-6, Automatic Data Processing (ADP) Resource Management

This manual covers all aspects of buying, operating, and disposing of ADPE in considerable detail. A revision of AFM 171-9, it treats general aspects; budgeting for data system automation programs (DSAPs); installation management, evaluation and assistance; contractual matters; ADPE installation, operations, and maintenance; ADP sharing; and supplies, inventory and accountability, reutilization, and disposition.

4.31 AFM 300-12, Procedures for Managing Automatic Data Processing Systems

This manual supplements AFM 300-6. It prescribes additional procedures for managing ADPSs. It provides procedural guidance to implement ADPS management policy established by AFR 300-2. The procedures comprise a comprehensive method for managing an ADPS and ADPS elements throughout the ADPS life cycle. It is Air Force policy to manage all ADP projects using the principles of project management in AFR 300-2 and in this manual. The scope of each project and the value of the resources committed indicate the level of documentation, reports, review, and certification needed. Chapter 5 discusses acquisition of software and related services, such as documentation, maintenance and training.

4.32 AFR 8-2, Air Force Technical Order (TO) System

This regulation establishes and explains the Air Force TO System. Eight types of TOs, including computer cards and tape, are described. Responsibilities are defined for HQ USAF, AFSC, AFLC, Air Training Command (ATC), other major commands and separate operating agencies. TOs are the source of procedures for operating and maintaining virtually all Air Force systems and equipment.

4.33 AFR 57-1, Required Operational Capabilities (ROCs)

This regulation establishes procedures, assigns responsibilities, and outlines documentation by which needs for new or improved operational capabilities are identified and advocated. This process includes recognition and statement of the needs, and directive documentation. Instructions are given for preparing ROCs, the statements of required operational capabilities which initiate the process, and PMDs, which start the acquisition of the capabilities in response to a ROC. Combat-required operational capabilities are treated as a special case.

4.34 AFR 57-4, Retrofit Configuration Changes

This regulation governs initiating system changes after the Production phase of the major system acquisition life cycle begins. It assigns

responsibilities and explains how to get approval for system changes during the Production and Deployment phases. Rules for selecting the right type of change request are presented in tabular form.

4.35 AFR 65-3, Configuration Management

This regulation presents general policies and guidance for configuration management by the Air Force. Configuration management includes identifying, controlling, accounting for, and auditing the functional and physical characteristics of systems under procurement. Considerable attention is paid to the change process. An overview of the procurement process shows the Conceptual, Validation, Full-scale Development, Production, and Deployment phases, marked by the functional, allocated, and product baselines.

4.36 AFR 70-15, Source Selection Policy and Procedures

This regulation establishes policy, assigns authority and responsibilities, and prescribes implementing procedures for formally evaluating competitive proposals and selecting sources for development, production, modification, and service of major system programs or projects competitively procured by the Department of the Air Force. It primarily applies to major systems and other systems whose costs exceed cost thresholds defined in AFR 70-15. It may also be used as a guide to evaluate competitive proposals and to select sources below the prescribed dollar thresholds.

This regulation describes the source selection process from conceptual and validation phase activities to notification and debriefing requirements. It also elaborates on the procedures for developing evaluation criteria, breaks down specific criteria, and outlines the evaluation procedure. It explains the requirement for a risk analysis and discusses the comparative analysis of Source Selection Evaluation Board (SSEB) technical data, including an explanation of the weighting system. Finally, it provides guidance for the preparation of the Source Selection Advisory Council (SSAC) report which presents the SSEB's overall evaluation results.

4.37 AFR 73-1, Defense Standardization Program (DSP)

This regulation describes Air Force activities, responsibilities, channels of communication, and reporting for participation in the Defense Standardization Program. Where industry standards are preferable, they may be used. Standards for new designs will be established for future use. Variety of items will be minimized. The Departmental Standardization Office will be located at HQ USAF, with supporting Command Standardization Offices located within AFLC and AFSC.

4.38 AFR 80-14, Test and Evaluation

This regulation presents Air Force policies for test and evaluation activity. All testing, from basic research to system deployment, is covered, with special emphasis on Operational Test and Evaluation. All Air Force organizations and activities are affected, and the test cycle is described in an attachment. Responsibilities are defined for HQ USAF, the implementing

command, AFLC, operating commands, the Air Force Test and Evaluation Center (AFTEC), and ATC.

4.39 AFR 80-40, The Scientific and Technical Information Program

This regulation explains the DoD Scientific and Technical (S&T) Information Program. It requires Air Force commanders involved with S&T information to implement the program, and explains their responsibilities, particularly those of the S&T information officer. The broad purpose is to expedite and facilitate the transfer of S&T information throughout the Air Force as well as between the Air Force and the scientific community.

4.40 AFR 178-7, Management and Control of Information Requirements

This regulation explains the objectives, establishes the authority, and assigns responsibilities for accomplishing information requirements management in the U.S. Air Force. These regulations implement Joint Army and Air Force Adjustment Regulation 1-25-1, portions of the Federal Property Management Regulations (subpart 101-11.207), and Department of Defense Directive 5000.19. This regulation applies to all Air Force organizations.

In addition to defining the policy and criteria to be followed in performing objective reviews of existing revised and new information requirements, this regulation prescribes the general operating procedures for Air Force reporting requirements.

4.41 AFR 300-1, Automatic Data Processing Program Management

This regulation prescribes policies and responsibilities for the selection, development, acquisition, management, and use of automatic data processing systems (ADPS), and the design and development of automated data systems (ADS), except for ADPE excluded by DoDD 5100.40. Management of ADPS/ADS, other than those used in weapon systems, will be decided on a project-by-project basis by HQ USAF following review of the requirements document. HQ USAF decisions will be reflected in the applicable PMD. Documentation supporting requests for exception or waiver will be forwarded to HQ USAF for necessary action. This regulation stresses:

- a. use of existing facilities; and
- b. use of AF in-house capabilities.

4.42 AFR 300-2, Management of Automatic Data Processing Systems

This regulation prescribes policies and responsibilities for managing ADP systems of the ADP Program. It applies to all Air Force activities with responsibilities for planning, authorizing, designing, developing, selecting, acquiring, using, maintaining, or managing them under AFR 300-1. This regulation provides a framework for ADPS management which permits early identification and analysis of a requirement or concept and preliminary approval before extensive commitment of ADP resources.

4.43 AFR 300-10, Data Automation, Computer Programming Languages

This regulation prescribes policy, identifies procurement and testing requirements, and assigns authority and responsibilities for Air Force activities using computer programming languages, or acquiring computer programming language compilers. It applies to all requests for and use of computer programming languages and associated compilers in support of Air Force systems, whether developed in-house or under contract. It also identifies existing conversion aids, defines waiver procedures, and lists distributors of computer standards documents. Finally, it establishes Air Force Designated Control Agents for each high order programming language and assigns and defines responsibilities to the following: the HQ USAF; Major Commands and separate operating agencies; the Air Force Systems Command; and Air Force Designated Control Agents.

4.44 AFR 310-1, Management of Contractor Data

This regulation defines procedures for managing data (i.e., all documentation and other deliverable information) acquired under contract. It implements DoDD 5010.12. Responsibilities are defined for HQ USAF, major commands, AFSC, and AFLC. Detailed guidance on the preparation, quality evaluation, and management of data standards is provided.

4.45 AFR 800-2, Program Management

This regulation establishes policy, responsibilities and reporting requirements for major systems and for other Air Force acquisition programs that are directed to be managed by this regulation. The regulation implements DoDD 5000.1 and DoDD 5000.2, which are attached to it.

AFR 800-2 delegates maximum authority and responsibility for each program to the implementing command and the Program Manager to plan, organize, and conduct the acquisition, within the Air Force approved limits of system performance, schedule and funding. The Program Manager is the technical and administrative focal point for all program activities, including the participation of all other organizations.

4.46 AFR 800-3, Engineering of Defense Systems

This regulation establishes policy and principles for management of a single totally integrated engineering effort for all AFR 800-2 managed programs. The regulation defines eleven engineering tasks and discusses those generally applied to each of the phases of the acquisition life cycle.

4.47 AFR 800-4, Transfer of Program Management Responsibilities

This regulation states policy and assigns responsibilities for accomplishing Program Management Responsibility Transfer (PMRT). It applies to all programs under the acquisition policy of AFR 800-2.

A PMRT agreement will normally be completed prior to the beginning of the Production Phase, or at a more appropriate point in time, by mutual agreement of the involved commands.

Planning criteria and schedules for PMRT will be established by the Program Manager in conjunction with representatives of participating organizations early in the Full-Scale Development phase. Schedules will be established as program milestones and reflected in the PMP or other management documentation. Revisions must reflect the latest program direction and required actions will be monitored until completed. A working group may be established by the PM to insure that events are completed as scheduled.

4.48 AFR 800-6, Program Control - Financial

This regulation assigns responsibility and provides guidance for using management control techniques to fulfill reporting requirements and to collect financial and other management data for use in financial analysis and program control. The application of specific techniques will be specified in the PMD; they are Cost/Schedule Control Systems Criteria (C/SCSC), WBS, Cost Performance Report, Contract Funds Status Report, and Contractor Cost Data Reports. The latter three reports comprise all the financial information required by the Air Force in a single contract. If they meet C/SCSC criteria, contractors' internal reports may be substituted for the required reports. For C/SCSC, the aim is to satisfy the criteria and not to impose any new management control, procedures or organization upon the contractor. The descriptions of criteria for cost/schedule control and cost reporting are attached to the regulation. These attachments are DoDI 7000.2, DoDI 7000.10, and DoDI 7000.11.

4.49 AFR 800-8, Integrated Logistics Support (ILS) Program for Systems and Equipment

This regulation establishes policy and states criteria for the application of ILS throughout the entire life cycle of Air Force systems. The regulation requires: (a) conducting trade-offs among support logistic alternatives and system design alternatives; (b) performing system and cost effectiveness analysis; and (c) applying logistic support evaluation during contract source selection. A Deputy Program Manager for Logistics is assigned to a Program Office to participate in ILS planning and to implement ILS considerations in engineering, design and production efforts.

4.50 AFR 800-9, Production Management in the Acquisition Life Cycle

This regulation states policy and assigns responsibilities for production management during the acquisition life cycle. The regulation is concerned primarily with influencing system engineering and design for efficient and economical quantity production. Some production considerations can apply to software development; e.g., producibility analysis, readiness reviews, replaceability, maintainability, reliability, and logistic support availability and cost.

4.51 AFR 800-10, Management of Multi-Service Systems, Programs and Projects

This regulation authorizes the commanders of AFLC and AFSC to enter into agreements with their Army and Navy counterparts to develop arrangements concerning the management of Multi-Service systems. Unless altered by mutual agreement, the policies that are applied will be those of the Service that is designated as Executive Agent for a program.

4.52 AFR 800-11, Life Cycle Costing (LCC)

This regulation outlines policies for the utilization of life cycle costing in the development, acquisition and modification of defense systems and subsystems including the procurement of components and parts. The main objective of life cycle costing is to consider ownership (operation maintenance, support, etc.) cost, as well as development and acquisition cost. The use of life cycle costing is not intended to make minimum cost the predominant decision factor, but to insure a proper balance between cost and system effectiveness.

The regulation assigns responsibilities for the implementation of LCC within the Air Force and for reporting actions in which LCC was a decision factor.

4.53 AFR 800-12, Acquisition of Support Equipment

This regulation establishes policies and principles for the acquisition of support equipment; i.e., equipment and computer programs not part of mission equipment and not required to perform mission operational functions. The regulation emphasizes cost-effectiveness of support equipment and standardization within a given system and among other systems. Support computer programs must be planned, identified and controlled using MIL-STD-483 (USAF), as a guide. Testing (AFR 80-14) should demonstrate compatibility with mission equipment, and computer programs should be relatively free of errors.

4.54 AFR 800-14, Vol. I, Management of Computer Resources in Systems

This regulation establishes policy for the acquisition and support of computer equipment and computer programs employed as dedicated elements, subsystems, or components of systems developed or acquired under the program management concept established in AFR 800-2.

The objective of this regulation is to insure that computer resources (e.g., software, computers) in systems are planned, developed, acquired, employed, and supported to effectively, efficiently, and economically accomplish Air Force-assigned missions.

According to Air Force policy, computer resources in systems are managed as elements of major subsystems during all acquisition life cycle phases. System performance requirements are allocated to these subsystems using in-depth trade-off studies and cost-effectiveness analyses.

4.55 AFR 800-14, Vol. II, Acquisition and Support for Computer Resources in Systems

This regulation is meant to be a definitive treatment of the policies, procedures and guidance required to manage computer resource development, as defined by AFR 800-14, Vol. I. The specific areas this manual addresses are as follows:

- a. computer resources in the system acquisition life cycle
- b. initial planning
- c. engineering management
- d. computer program quality assurance
- e. configuration management
- f. documentation
- g. contractual aspects
- h. transition and turnover
- i. support
- j. computer program validation & verification (V&V).

4.56 AFR 800-15, Human Factors Engineering and Management

This regulation establishes policies and responsibilities to incorporate human factors engineering into the engineering and management efforts of all acquisition programs. Some human factors elements can be applied to computer programs; e.g., manning and training considerations, efficient human usage, and determining whether Air Force personnel with training can in fact operate, maintain and support the system in its intended operational environment.

4.57 AFR 800-19, System or Equipment Turnover

This regulation establishes policy and principles for the efficient turnover to an operating command of systems or equipment developed under the program management concept established in AFR 800-2. The regulation also assigns responsibilities to HQ USAF and the implementing command (normally the Air Force Systems Command (AFSC)) and defines documentation requirements.

4.58 TO 00-5-1, AF Technical Order System

The TO System is the official medium for disseminating technical information, instructions and safety procedures pertaining to the operation, installation, maintenance, inspection and modification of Air Force material. One type of TO is Automation Type TOs which are technical instructions furnished as punched tapes, cards, or magnetic tape. These storage media may

contain operational software, operating systems or maintenance programs. The system does not apply to publications for experimental equipment, development programs, or any computerized systems that are not to be maintained by Air Force personnel. All software, i.e., program listings, manuals, handbooks, etc., used in performing administrative tasks are specifically excluded from the TO system.

4.59 AFSC DH 4-2, Electronic Systems Test and Evaluation

The AFSC Design Handbooks are published as a primary means of documenting and applying Air Force technical knowledge in support of system and equipment acquisition programs. General design criteria and guidance suitable for use in the design and development of Air Force systems and equipment are published in these handbooks. The Design Handbooks preserve Air Force technical experience, summarize the lessons learned, and present the user with background data and a basis for technical requirements.

The Electronic Systems Test and Evaluation Handbook has been prepared for use with the technological and engineering disciplines involved in test and evaluation of Air Force command, communications, control, surveillance, and warning systems. Chapter 5 deals with computer program testing. The data contained in this handbook is intended for use with Air Force Systems Programs being conducted under the management concepts established in other regulations. The handbook is directed toward the testing and evaluation processes as set forth in AFR 80-14.

4.60 AFSCP/AFLCP 173-5, Cost/Schedule Control Systems Criteria Joint Implementation Guide

This guide provides procedures for use during planning and implementation of Cost/Schedule Control Systems Criteria and for surveillance of contractor compliance. The guide provides uniform guidance for the military departments and other Defense agencies responsible for implementation of the Cost/Schedule Control Systems Criteria (C/SCSC) consistent with the provisions of DoD Instruction 7000.2, implemented by AFR 800-6. It is a joint effort approved by the Air Force Systems Command (AFSC), the Air Force Logistics Command (AFLC), the Army Development and Readiness Command (DARCOM), the Naval Material Command (NMC), and the Defense Supply Agency (DSA).

4.61 AFSCP 800-3, A Guide for Program Management

This pamphlet covers those general considerations for management of a program which should interest all program management personnel. It provides an overview of program or project activities from conception through deployment. The major emphasis is on management flexibility, cost effectiveness, and reduction of risks through demonstration and hardware proofing prior to a production commitment.

4.62 AFSCP 800-6, Statement of Work Preparation Guide

This pamphlet tells how to define and organize task elements of a Statement of Work (SOW), and applies throughout AFSC's range of research and

system acquisition activities. The description covers all aspects of SOW writing. SOWs for various phases of the acquisition life cycle are described and examples given.

4.63 AFSCP/AFLCP 800-19, Joint Design-to-Cost Guide

This guide offers broad direction for establishing and tracking design-to-cost factors in major system procurements. PM and contractor roles are discussed in detail, particularly with regard to review schedules and subjects. Four types of reports are described: PM report, track estimate, hardware element summary, and design engineer report. Four contractual phases of programs with design-to-cost goals are outlined: Conceptual, Validation, Full-Scale Development, and Production. The need to eliminate requirements is stressed when they are non-essential or not cost-effective.

4.64 AFSCR 74-6, Procurement Quality Assurance for System Programs

This regulation outlines the responsibilities and relationships involved in managing quality assurance aspects of procurements. Responsibilities are divided among ASD/ADTC/ESD/SAMSO, AFCMD, and AFPROs.

4.65 AFSCR 310-1, Management of Contractor Data

This regulation defines policy for AFSC acquisition of contractor-prepared data (generally documentation). It describes how to set up and use a data management office and gives instructions for preparing DD Form 1664 (i.e., the DID), DD Form 1423 (i.e., the CDRL), and AFSC Form 40. The ESD supplement expands on the AFSCR original. Guidelines are given to minimize data volume and the number of data items required.

4.66 AFSCR 800-1, Command Review of Systems Acquisition Programs and Test Resources

This regulation defines three classes of review of system acquisition programs: program assessment, command assessment, and field assessment. Details are given for responsibilities, locations, schedules, attendance, security, and times.

4.67 SAMSO Exhibit 73-3, Standard Engineering Practices for Computer Software Design and Development

This establishes engineering practices and procedures to be followed for large complex software development efforts and may also be applied to smaller efforts. The exhibit requires: (a) a software management procedures manual describing the methods of management control and organization that will be applied to the development; (b) a programming practices, standards, and conventions manual describing guidelines of program and data structure design, programming rules and sequencing, and other conventions to be followed by programmers; and (c) a software accountability system to administer the development activities and resulting products. The exhibit is a means of insuring that the software development process is a planned activity. It is

most applicable to long-term projects during the Full-Scale Development or Production acquisition life cycle phases.

4.68 SSD Exhibit 61-47B, Computer Program Subsystem Development Milestones

This identifies and describes nine milestone documents or products required during development of computer programs. The milestones are documents that establish: design criteria; implementation concepts; a test plan; interface specification; design specification; computer subprograms with supporting documentation and test cases; acceptance specification; operating instructions; and the computer program subsystem (code, tapes, etc.). Special emphasis in the document associates the milestones with tasks of overall system engineering, and of associate and integration contractors.

4.69 NAVY WS-8506, Requirements for Digital Computer Program Documentation

This is a Naval Ordnance Systems Command document establishing a uniform set of requirements for real-time computer programs for weapon control systems. The document claims to apply to any digital computer program documentation. It describes a format and content for eight types of document: computer program performance specification; computer program design specification; computer subprogram design document; common data base design document; computer program package (i.e., all items necessary to produce and maintain the computer program); computer program operator's manual; computer program test plan (including subprogram, program, system integration and acceptance testing); and computer program test procedures. All of these are normally deliverable items.

APPENDIX A

MASTER LIST OF ACTIVE DOCUMENTS

The following is a complete list of all current known RSS, Air Force, NSA and ESD standard DIDs, technical reports, and other government and ANSI publications, believed relevant to software development and acquisition for ESD managed C³ systems. This list effectively replaces Sections IV and V of the original RSS Guidebook (ESD-TR-75-91). Documents are grouped first by their issuing organization, and are subcategorized by type (e.g., DoDD, DoDI). Table 2 has the same arrangement, and may be helpful in locating organizations and types. (See Section 1.5.) Within each type category, the documents are listed alphanumerically by document ID. As Section 1.5 and Table 3-5 state, some document IDs incorporate additional type classification.

The entries for some ESD Technical Reports and RADC Technical Reports include additional identifiers. Where known, such documents' NTIS accession numbers and their source organizations' document numbers are listed in parentheses following each such report's document ID. For example, (TM-5772/002/002) and (AD-A048577) follow ESD-TR-77-263. The former is System Development Corporation's report number; the latter is the NTIS accession number. Similarly, (MTR-3180) and (AD-A027051) following ESD-TR-76-159 are that document's MITRE Technical Report number and NTIS accession number.

The entry for each document referenced in another SAM guidebook begins with one or more code numbers. Each code number is the arbitrary serial number of a referencing guidebook, as follows.

1. Project Guide to Content Requirement and Audience Needs;
2. Regulations, Specifications and Standards;
3. Contracting for Software Acquisition;
4. Monitoring and Reporting Software Development Status;
5. Statement of Work Preparation;
6. Reviews and Audits;
7. Configuration Management;
8. Computer Program Development Specifications;
9. Software Documentation Requirements;
10. Verification;
11. Validation and Certification;

12. Series Overview;
13. Software Maintenance;
14. Software Quality Assurance;
15. Software Cost Estimation and Measurement;
16. Software Development and Maintenance Facilities;
17. Life Cycle Events.

For example, code number 5 indicates the guidebook on Statement of Work Preparation, and code number 16 indicates the guidebook on Software Development and Maintenance Facilities. These codes are not volume numbers, and do not appear on the guidebooks themselves.

In addition to the referencing guidebook code numbers, if any, each entry contains:

- o document ID and date of latest issue,
- o identification of latest change (if any) to this issue,
- o corresponding change date (if known),
- o IDs and dates of known supplements, and
- o document title.

OFFICE OF MANAGEMENT AND BUDGET (OMB)

OMB Circulars

<p>OMB Circular A-76 30 August 1967 Trans. Memo No. 1 30 August 1967 Trans. Memo No. 2 18 October 1976 Trans. Memo No. 3 13 June 1977</p>	<p>Policies for Acquiring Commercial and Industrial Products and Services for Government Use</p>
<p>OMB Circular A-109 5 April 1976</p>	<p>Major System Acquisition</p>
<p>OMB Circular A-171 6 March 1965</p>	<p>Responsibility for the Administration and Management of Automatic Data Processing Activities</p>
<p>(OMB Index)</p>	<p>(Index of OMB Circulars)</p>

Other

OFPP Pamphlet No. 1
August 1976

Major System Acquisition - A Discussion
of the Application of OMB Circular
No. A-109

DEPARTMENT OF DEFENSE

Armed Services Procurement Regulation (ASPR) Sections and Parts

3	ASPR Section I	General Provisions
	ASPR Sec. I, Pt. 1	Introduction
3	ASPR Sec. I, Pt. 2	Definition of Terms
3	ASPR Sec. I, Pt. 3	General Policies
3	ASPR Sec. I, Pt. 10	Publicizing Procurement Actions
	ASPR Sec. I, Pt. 12	Specifications, Plans and Drawings
	ASPR Sec. I, Pt. 20	Limitation of Cost and Funds Under Cost Type Contracts
3	ASPR Sec. I, Pt. 21	Advance Procurement Planning
3	ASPR Section III	Procurement by Negotiation
3	ASPR Sec. III, Pt. 1	Use of Negotiation
3	ASPR Sec. III, Pt. 2	Circumstances Permitting Negotiation
3	ASPR Sec. III, Pt. 3	Determinations and Findings
3	ASPR Sec. III, Pt. 4	Types of Contracts
3	ASPR Sec. III, Pt. 5	Solicitation of Proposals and Quotations
3	ASPR Sec. III, Pt. 8	Price Negotiation Policies and Techniques
3	ASPR Sec. III, Pt. 11	Acquisition of Automatic Data Processing Equipment
	ASPR Sec. III, Pt. 12	Cost Accounting Standards
3	ASPR Section VII	Contract Clauses and Solicitation Provisions

3	ASPR Sec. VII, Pt. 3	Clauses for Fixed-Price Research and Development Contracts
3	ASPR Sec. VII, Pt. 4	Clauses for Cost-Reimbursement Type Research and Development Contracts
3	ASPR Section IX	Patents, Data, and Copyrights
3,9	ASPR Sec. IX, Pt. 2	Rights in Technical and Other Data and Copyrights
3,9	ASPR Sec. IX, Pt. 5	Acquisition of Technical Data and Computer Software
5	ASPR Sec. IX, Pt. 6	Rights in Computer Software Acquired Under Contract
	ASPR Section XV	Contract Cost Principles and Procedures
	ASPR Sec. XV, Pt. 1	Applicability
	ASPR Sec. XV, Pt. 2	Cost Type Contracts with Commercial Organization
5	ASPR Section XX	Administrative Matters
	ASPR Sec. XX, Pt. 3	Uniform Contract Line Item Numbering System
3	ASPR Section XXII	Service Contracts
3	ASPR Sec. XXII, Pt. 1	Service Contracts in General
3	ASPR Sec. XXII, Pt. 2	Procurement of Expert or Consultant Services
3	ASPR Sec. XXII, Pt. 3	Engineering and Technical Services
	ASPR Sec. XXII, Pt. 10	Communication Services
3	ASPR Section XXIII	Subcontracting Policies and Procedures
3	ASPR Sec. XXIII, Pt. 1	Review of Contractors' Procurement Systems
3	ASPR Sec. XXIII, Pt. 2	Requirement for Consent to Subcontracts
	ASPR Section XXVI	Contract Modifications
	ASPR Sec. XXVI, Pt. 1	General

	ASPR Sec. XXVI, Pt. 2	Change Orders
	ASPR Sec. XXVI, Pt. 3	Supplemental Agreements
	ASPR Sec. XXVI, Pt. 7	Other Modifications
	ASPR Sec. XXVI, Pt. 8	Notification of Changes
3	ASPR APPENDIX J	Authorization for Negotiation
3	ASPR APPENDIX K	Pre-Award Survey Procedures

Data Item Descriptions (DIDs)

9	DI-A-3002 21 May 1971	R&D Status Report
4,9	DI-A-3007 1 November 1971	Program Schedule
4,9	DI-A-3009 21 May 1971	Program Milestones (Acquisition Phase)
9	DI-A-3022 7 December 1972	Contract Data Management Plan
4	DI-A-3023 21 May 1971	Contract Work Breakdown Structure
4,5,9	DI-A-3027 26 February 1971	Data Accession List/Internal Data
4,6,7,9, 10	DI-A-3029 21 May 1971	Agenda, Design Reviews, Configuration Audits and Demonstrations
	DI-A-5001A 20 April 1971	Funds Expenditure Chart
	DI-A-5002 1 October 1967	Cost Report (Assignment Type Contract)
	DI-A-5004A 20 May 1977	Project Status Report
	DI-A-5013 1 October 1967	Specifications (Including Purchase Description)
	DI-A-5016 1 October 1967	Project Planning/Actual Progress Chart (Other than Fixed Price Contracts)
	DI-A-5024 1 October 1967	Preliminary Pert/Time Network and Analysis Report

	DI-A-5025 1 October 1967	Periodic Pert/Time Network and Analysis Report
	DI-A-5027 1 October 1967	Commercially Available Computer Data
	DI-A-5303 3 January 1974	Cost Allocation Report
	DI-A-5323 16 August 1972	Computer Software Project Planning Chart
	DI-A-5345 31 July 1973	Design to Cost Data
	DI-A-5398 20 July 1976	Contractor Notification of Changes to Commercial Equipment and Software
	DI-A-30001 10 March 1976	Software Delivery Documentation
	DI-A-30022 1 July 1977	Quarterly Abstract of Computer Programs
	DI-A-30023 1 July 1977	ADPE Systems Configuration Report (Schematics)
	DI(U)-E-730/ESD 17 December 1977	Computer Program Development Plan
6,7,9, 14,17	DI-E-3101 26 February 1971	System Specification
17	DI-E-3102A 17 April 1972	Configuration Item Development Specification
17	DI-E-3103A 17 April 1972	Configuration Item Product Fabrication Specification
7,9	DI-E-3104 26 February 1971	Addendum Specification
7	DI-E-3105 26 February 1971	Inventory Item Specification
7,9	DI-E-3107 26 February 1971	Installation Completion Notification
4,7,9, 10	DI-E-3108 26 February 1971	Configuration Management Plan (CMP)

9	DI-E-3114 1 November 1971	System Modification Design Data and Reports
9	DI-E-3116 26 February 1971	System Allocation Document (SAD)
9	DI-E-3117 26 February 1971	System Segment Specification (Modification Programs)
4,6,7,9, 10,14,17	DI-E-3118 26 February 1971	Minutes of Formal Reviews, Inspections and Audits
6,7,8,9, 10,14,17	DI-E-3119A 17 April 1972	Computer Program Development Specification
7,9,10, 14,17	DI-E-3120A 17 April 1972	Computer Program Product Specification
5,7,9, 14,17	DI-E-3121 26 February 1971	Version Description Document (Computer Programs)
7,9	DI-E-3122 26 February 1971	Configuration Index
7,9	DI-E-3123 26 February 1971	Change Status Report (Computer Program)
9	DI-E-3127 26 February 1971	Advance Change/Study Notice (ACSN)
7,9,14, 17	DI-E-3128 26 February 1971	Engineering Change Proposals (ECPs)
9,14	DI-E-3129 26 February 1971	Request for Deviation/Waiver
	DI-E-3132 26 February 1971	Configuration Item Product Function Specification
	DI-E-3133 26 February 1971	Configuration Management Accounting Reports (Machine or Manually Prepared)
7,9,17	DI-E-3134 26 February 1971	Specification Change Notice (Computer Program)
	DI-E-3138 1 November 1971	AFSC Design Handbook Changes
	DI-E-5037 15 December 1969	Work Breakdown Structures for Defense Material Items

DI-E-5384 29 May 1974	Functional Specification Contractor Developed
DI-E-7013A 9 February 1976	Drawings, Engineering and Associated Lists, Level 1 (Conceptual and Development Design)
DI-E-30102 3 January 1972	Computer Program Detail Specification
DI-E-30104 30 May 1973	Functional Description (FD)
DI-E-30105 30 November 1973	Data Requirements Document (RD)
DI-E-30106 30 November 1973	Data Base Specification (DS)
DI-E-30109 29 January 1969	Computer Programming Documentation (Internal)
DI-E-30110 10 March 1976	Computer Program Product Specification
DI-E-30111 10 March 1976	Computer Program Flowcharts
DI-E-30112 10 March 1976	Computer Program Listings
DI-E-30113 10 March 1976	Computer Program Development Specification
DI-E-30139 14 July 1976	Computer Program Development Specification
DI-E-30140 14 July 1976	Computer Program Product Specification
DI-E-30141 15 October 1973	Interface Specification
DI-E-30145 9 May 1976	Computer Software/Computer Program/Computer Data Base Configuration Item(s)
DI-E-30148 29 September 1969	Engineering Drawings
DI-E-30149 29 September 1969	Research and Development Computer Software

	DI-E-30150 31 May 1977	Visual Data Base Description Document
	DI-F-6000A 15 December 1972	Cost Performance Report (CPR)
	DI-F-6004A 15 December 1972	Contract Funds Status Report (CFSR)
	DI-F-6006 5 November 1973	Cost Data Summary Report (DD Form 1921)
	DI-F-6010 15 July 1974	Cost/Schedule Status Report (C/SSR)
	DI-F-30202 23 September 1976	Automatic Data Processing (ADP) Manpower and Cost
	DI-F-30203 26 January 1977	Design to Cost/Life Cycle Cost Document
	DI-F-30207 16 April 1976	Input Data for Parametric Cost Model
	DI-F-30208 3 February 1977	Cost Estimate Analysis
9	DI-H-3251 1 November 1971	Personnel Subsystem/Human Factors Development Plan (HFDP)
6,14	DI-H-3253 24 August 1970	Qualitative and Quantitative Personnel Requirements Information (QQPRI), Part I: Field and Organization Maintenance
9	DI-H-3258A 4 September 1973	Training Support Data
9	DI-H-3261A 1 November 1971	Human Engineering Design Approach Document
9,14	DI-H-3267 21 May 1971	Evaluation Needs/Exercise Requirements Analysis
9,14	DI-H-3269A 21 May 1971	Training Needs/Exercising Requirements Analysis
6,14	DI-H-3270A 21 May 1971	Exercising Capability Implementation Plan (ECIP)
9	DI-H-3272 24 August 1970	Personnel Subsystem Test and Evaluation (PSTE) Plan

	DI-H-3277 7 December 1972	Training Equipment Computer Program Documentation
	DI-H-5066 1 October 1967	System Monitor-Executive Program (Software)
	DI-H-5067 1 October 1967	Assembly Language (Software)
	DI-H-5068 1 October 1967	Data Processing Packages for Procedural Languages (Software)
	DI-H-5069 1 October 1967	Advanced Program Languages (Software)
	DI-H-5070 1 October 1967	System Maintenance Programs (Software)
	DI-H-5071 1 October 1967	Code Generation Specifications (Software)
	DI-H-5072A 14 August 1972	Computer Software End Item
	DI-H-5074B 14 August 1972	Computer Software Design Plan
	DI-H-5076A 14 August 1972	Computer Software Change Proposal
	DI-H-5077 15 May 1969	Revised Computer Software Supporting Data
	DI-H-5201 14 August 1972	Computer Software Flowchart(s) Standards
	DI-H-5202 14 August 1972	Computer Software Design Plan
	DI-H-5256 15 August 1972	Computer Software Technical Description
9	DI-H-7012 11 August 1975	Human Operator/Critical Tasks Analysis Report
	DI-L-30309 23 September 1976	Automatic Data Processing Equipment (ADPE) Cost and Utilization
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2	AFR 70-16 2 January 1974	Contract Management in Major Program Acquisition
2	AFR 70-17 17 September 1970 incl. Change 1	Implementing Procedures for Purchase of Supplies Assigned to DSA Under the DoD Coordinated Procurement Program (RCS: DD--DSA(AR)599(P))
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2	AFR 80-2 12 May 1969 AFSC Sup. 1 25 June 1975 ESD Sup. 1 25 October 1973	Documents Used in the Management of Air Force Research and Development
2	AFR 80-3 18 February 1971	Management of Air Force In-House Research and Development Labs
	AFR 80-4 2 June 1970	Air Force Policy on the Support of Research
2	AFR 80-5 2 July 1973 AFSC Sup. 1 20 December 1974 ESD Sup. 1 31 July 1975	Reliability and Maintainability Programs for Systems, Subsystems, Equipment, and Munitions
2	AFR 80-7 12 December 1977	(C) Communications Security Research, Development, Test and Evaluation (COMSEC RDT&E) Procedures
	AFR 80-12 10 September 1968 incl. Change 2 AFSC Sup. 1 22 September 1977 ESD Sup. 1 20 December 1976	Work Unit Information System
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2	AFR 80-40 2 March 1970	The Scientific and Technical Information Program

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5	AFR 80-45 26 March 1971 AFSC Sup. 1 4 February 1976 ESD Sup. 1 10 Nov. 1971	Distribution Statements on Technical Documents
2	AFR 80-53 13 March 1974 AFSC Sup. 1 8 August 1974 ESD Sup. 1 25 September 1974	Technical Evaluation of Independent Research and Development
2	AFR 81-6 6 July 1967 AFSC Sup. 1 25 April 1973	International Military Standardization Programs
	AFR 81-10 2 June 1975	Engineering Drawing System
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2	AFR 122-1 15 May 1973 incl. Change 1 AFSC Sup. 1 23 February 1977	The Air Force Nuclear Safety Program
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2	AFR 124-8 12 February 1976	Violations of Public Trust in Contract, Procurement, and Other Matters (PA)
2,15	AFR 173-1 10 October 1975 incl. Change 1 AFSC Sup. 1 3 May 1976	The Air Force Cost Analysis Program

2	AFR 173-11 8 July 1974	Independent Cost Analysis Program
2	AFR 175-2 7 June 1977 AFSC Sup. 1 22 February 1977	Follow-up on Reports of Audit
2	AFR 175-4 16 December 1974 incl. Change 1 AFSC Sup. 1 15 January 1976	Auditing in the Air Force
2	AFR 177-13 8 December 1969	Accounting for Research and Development
2	AFR 178-4 15 March 1971	Air Force Output/Measurement/Management Indicator Systems
2	AFR 178-7 29 November 1976 AFSC Sup. 1 1 April 1977 ESD Sup. 1 11 November 1977	Management and Control of Information Requirements
2,3	AFR 300-1 15 November 1974 AFSC Sup. 1 29 July 1975	Automatic Data Processing Program Management
2,3	AFR 300-2 14 February 1975	Management of Automatic Data Processing Systems
2	AFR 300-3 20 March 1974	Automatic Data Processing, Planning, Programming, and Budgeting Information System
2	AFR 300-5 20 March 1975 incl. Change 1 AFSC Sup. 1 2 September 1977	Standardization of Data Elements and Related Features
2	AFR 300-7 11 February 1977 AFSC Sup. 1 30 September 1977	Automatic Data Processing Planning Concepts
2	AFR 300-8 3 June 1974	Security Requirements for Automatic Data Processing Systems (ADPS)

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	AFR 300-12, V.1 2 September 1977	Documentation, Development, Acquisition and Implementation
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	AFR 300-13 14 May 1976	Safeguarding Personal Data in Automatic Data Processing Systems
	AFR 300-15 16 January 1978	Automated Data System Project Management
2,5,7, 9,15	AFR 310-1 30 June 1969 incl. Change 1 14 June 1971	Management of Contractor Data
2	AFR 310-3 4 November 1968 AFSC Sup. 1 30 June 1977 ESD Sup. 1 15 June 1976	Acquisition and Management of Data for Follow-On Procurements
2	AFR 320-1 15 November 1976 AFSC Sup. 1 30 September 1977 ESD Sup. 1 5 December 1974	Air Force Value Engineering Program
2	AFR 400-27 29 June 1973	Basic Policies and Principles for Interservice, Interdepartmental, and Interagency Support
2	AFR 400-42 28 September 1972	The Defense Integrated Data System (DIDS)
2,15	AFR 600-1 14 July 1969 incl. Change 1 AFSC Sup. 1 11 March 1970	Development, Selection and Application of Management Control Systems

2,4,6, 10,11, 13,16, 17	AFR 800-2 14 November 1977 incl. Change 1 30 April 1975 AFSC Sup. 1 18 October 1974 ESD Sup. 1 25 May 1976	Acquisition Program Management
2,7,14, 17	AFR 800-3 17 June 1977	Engineering of Defense Systems
2,11,13	AFR 800-4 10 March 1975 AFSC Sup. 1 14 August 1975 ESD Sup. 1 10 February 1977	Transfer of Program Management Responsibilities
2	AFR 800-5 19 March 1976 AFSC Sup. 1 24 February 1977	Selected Acquisition Reports (SARs)
2,15	AFR 800-6 7 September 1976 incl. Change 1 AFSC Sup. 1 17 October 1977	Program Control - Financial
2	AFR 800-8 27 July 1972 AFSC Sup. 1 24 November 1975 ESD Sup. 1 15 August 1975	Integrated Logistics Support (ILS) Program for Systems and Equipment
2	AFR 800-9 25 April 1973	Production Management in the Acquisition Life Cycle
2	AFR 800-10 12 September 1973	Management of Multi-Service Systems, Programs and Projects
2	AFR 800-11 22 February 1978	Life Cycle Cost Management Program
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10,11,	AFLC Sup. 1	
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2	AFR 800-15	Human Factors Engineering and Management
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2	TO 00-5-15	Time Compliance Technical Order System
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2 AFSCM 70-1
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28 August 1970

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2 AFSCM/AFLCM 81-1
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2 AFSCM 122-1
30 September 1970

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2 AFSCM 171-265
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2 AFSCM 171-271
16 November 1973
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AFSC Aerospace Resources and
Configuration System (ARCS) (DSD:
G299(RY))

2 AFSCM 171-380
26 February 1973

Configuration Status Accounting
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AFSCM 171-390, V.1-2
15 January 1970

Work Unit Information System, (RCS:
DD-DR&E(AR)636)

2,15 AFSCM 173-1
17 April 1972

Cost Estimating Procedures

2,5,15 AFSCM 173-4
24 November 1972

Program Breakdown Structure and
Codes

2 AFSCM 310-2
14 May 1971

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14 November 1975

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2,15	AFSCP/AFLCP 173-5 1 October 1976	Cost/Schedule Control Systems Criteria (Joint Implementation Guide)
2	AFSCP/AFLCP 173-6 1 July 1974 incl. Change 1 1 October 1976	C/SCSC Joint Surveillance Guide
2	AFSCP 207-1 28 December 1967 incl. Change 2	System Security Engineering
2,4,6, 7,8,10, 11,14, 15,17	AFSCP 800-3 9 April 1976	A Guide for Program Management
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	AFSCP 800-7 December 1977	Configuration Management
2,15	AFSCP/AFLCP 800-15 5 November 1973	Contractor Cost Data Reporting (CCDR) System
2	AFSCP/AFLCP 800-19 11 June 1976	Joint Design-to-Cost Guide
2	AFSCP 800-21 18 June 1974 incl. Change 2	A Guide for Program Managers: Implementing Integrated Logistics Support

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9	AFSCR 800-1 Number 12 June 1975	System Management Newsletter
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2	AFSCR 0-2 3 April 1978	Numerical Index of AFSC Publications
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2	AFSCR 8-4 7 August 1975	AFSC Design Handbooks
	AFSCR 11-17 14 February 1978	Relations with Federal Contract Research Centers and Management Support Contractors
	AFSCR 23-3 2 February 1976	Aeronautical Systems Division
	AFSCR 23-9 31 March 1978	Space and Missile Systems Organization
	AFSCR 23-10 25 August 1976	Electronic Systems Division
	AFSCR 27-7 1 September 1977	Program Action Directive (PAD)
	AFSCR/AFLCR 57-7 30 September 1975 incl. Change 1 ESD Sup. 1 15 June 1976	PR and MIPR Operations
	AFSCR 66-71 30 June 1977 incl. Change 1	Deficiency Reporting, Investigation and Resolution During Systems Acquisition
2	AFSCR 70-2 15 March 1978	AFSC Business Strategy Panel
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2	AFSCR 70-11 24 March 1976	Surveillance of Management Control Systems and Financial Reporting on Selected Acquisitions
2	AFSCR 70-12 3 January 1978	AFSC Procurement Summary Report, (RCS: SYS-PHX(M)7601)
	AFSCR 70-13 2 November 1976 ESD Sup. 1 15 February 1977	AFSC Acquisition Management Information System (AMIS)

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	AFSCR 80-1 2 September 1976	Preparation of Advanced Development Technology Program Plans
	AFSCR 80-2 24 June 1977	Development Planning
	AFSCR 80-8 22 December 1971 ESD Sup. 1 30 March 1977	Unsolicited Proposals
	AFSCR 80-14 26 February 1975 incl. Change 1	AFSC Management and Scientific Information System (MASIS) (DSD: B458) (RCS: SYS-DL(AR)7501)
2,3,5, 17	AFSCR 80-15 31 December 1974 incl. Change 1	R&D Source Selection Policy and Guidance
2,11	AFSCR/AFLCR 80-17 15 July 1977	Air Force Engineering Responsibility for Systems and Equipment
	AFSCR 80-19 31 March 1976 ESD Sup. 1 10 January 1977	Assessments of Advanced Development Technology Programs
	AFSCR 80-20 6 September 1974 ESD Sup. 1 1 November 1974	AFSC Technical Report Program
	AFSCR 80-21 22 December 1975	Exploratory Development Procedures
	AFSCR 80-23 30 December 1975 ESD Sup. 1 20 July 1976	Laboratory Research and Technology Support to AFSC Organizations
	AFSCR 80-25 24 June 1977	Technology Management Reviews
	AFSCR 80-29 23 May 1973 ESD Sup. 1 16 November 1977	Technology Need Program

	AFSCR 172-9 8 February 1978	Research, Development, Test and Evaluation (RDT&E) Forward Financing
2,5,9, 15	AFSCR 310-1 11 March 1974 ESD Sup. 1 10 October 1974	Management of Contractor Data
2,15	AFSCR/AFLCR 310-2 31 January 1969	Deferred Requisitioning of Engineering Data
2	AFSCR 800-1 22 June 1976	Command Review of Systems Acquisition Programs and Test Resources
	AFSCR/AFLCR 800-8 31 July 1973	Acquisition of Engineering Drawings and Associated Lists
	AFSCR 800-9 10 August 1971	Program Office/AFPRO Cadre
15	AFSCR/AFLCR 800-14 10 March 1975	Joint AMC/NMC/AFLC/AFSC List of Authorized Acquisition Management Systems
2	AFSCR 800-18 20 September 1974	Joint Operational and Technical Review (JOTR)
	AFSCR/AFLCR 800-24 24 May 1977	Standard Integrated Support Management System
	AFSCR 800-25 12 June 1975	Application of Military Specifications and Standards to DoD Procurements
	AFSCR 800-27 14 November 1975 ESD Sup. 1 17 August 1977	Management Assessment Review (MAR)/Program Management Review Process

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ASD-TR-76-11, V.III June 1976	Management Guide to Avionics Software Acquisition Volume III - Summary of Software Related Standards and Regulations
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ESD ASPR Sup. 1 October 1976 incl. Change 1	Armed Services Procurement Regulations
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2	ESDM 70-10 1 March 1973 incl. Change 1	Program Management System
2,14	ESDM 74-1 25 February 1974 incl. Change 1	Quality Assurance Management for Electronic Systems
2	ESDM 178-1 15 October 1975	ESD Management Information and Control System

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2,4,5	ESDP 800-4 15 March 1978	Statement of Work Preparation Guide
	ESDP 800-5 5 November 1976	Guide for Selecting, Tailoring, and Applying Specifications and Standards

ESD Regulations

2	ESDR 0-2 14 December 1977	Numerical Index of ESD Publications
	ESDR 0-9 14 December 1977	Numerical and Functional Indexes of ESD Forms
2	ESDR 5-3 25 June 1973	ESD Acquisition Procedures for Scientific and Technical Information
	ESDR 23-4 20 May 1976	Rome Air Development Center
	ESDR 70-4 30 March 1977	Publication of ESD Procurement and Production Directives, Letters, and Forms
	ESDR 70-8 1 June 1977	Small Business, Contractor Relations, and Procurement Source
2	ESDR 74-2 20 March 1974	ESD Quality Assurance Management

	ESDR 80-1 1 June 1976	Utilization of MITRE Support
2	ESDR 81-1 30 December 1974	Processing of Military Specifications
2	ESDR 173-1 31 January 1977	Electronic Systems Division Cost Analysis Program
	ESDR 178-6 16 September 1977	Program Acquisition Visibility Briefings
	ESDR 800-1 22 June 1977	Memorandum of Agreement

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5,7,9, 17	ESD-TR-75-85 (MTR-3051) (AD-A016488) September 1975	An Air Force Guide to Monitoring and Reporting Software Development Status
	ESD-TR-75-308 (AD-A016401) December 1975	Project Guide to Content Requirements and Audience Needs
5,7,9, 16,17	ESD-TR-75-365 (AD-A020444) January 1976	An Air Force Guide to Contracting for Software Acquisition
5,7,16, 17	ESD-TR-76-159 (MTR-3180) (AD-A027051) June 1976	An Air Force Guide to Software Documentation Requirements
5,7,16, 17	ESD-TR-77-16 (AD-A035924) January 1977	Software Acquisition Management Guidebook: Statement of Work Preparation
7,8,16	ESD-TR-77-22 (AD-A037115) February 1977	Software Acquisition Management Guidebook: Life Cycle Events
7,17	ESD-TR-77-130 (AD-A038234) April 1977	Software Acquisition Management Guidebook: Software Development and Maintenance Facilities

8	ESD-TR-77-254 (TM-5772/005/00) (AD-A047308) August 1977	An Air Force Guide to Computer Program Configuration Management
	ESD-TR-77-255 (TM-5772/001/03) (AD-A047318) August 1977	Software Acquisition Management Guidebook: Software Quality Assurance
	ESD-TR-77-263 (TM-5772/002/02) (AD-A048577) August 1977	Software Acquisition Management Guidebook: Verification
	ESD-TR-77-326 (TM-5772/003/02) August 1977	Software Acquisition Management Guidebook: Validation and Certification
	ESD-TR-77-327 (TM-5772/004/02) October 1977	Software Acquisition Management Guidebook: Software Maintenance
	ESD-TR-78-117 (TM-5772/006/02) November 1977	Software Acquisition Management Guidebook: Reviews and Audits
	ESD-TR-78-139 (TM-5772/008/02) March 1978	An Air Force Guide to the Computer Program Development Specification
	ESD-TR-78-140 (TM-5772/007/02) March 1978	Software Acquisition Management Guidebook: Software Cost Estimation and Measurement
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5,9,10, 13,14	RADC-TR-74-300, V.I-XV 1974-1975	Structured Programming Series
	RADC-TR-74-300, V.I (AD-A016771) March 1975	Programming Language Standards
	RADC-TR-74-300, V.II (AD-A018046) May 1975	Pre-Compiler Specifications

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RADC-TR-74-300, V.IV (AD-A015794) April 1975	Data Structuring Study
RADC-TR-74-300, V.V (AD-A003339) July 1974	Program Support Library Functional Requirements
RADC-TR-74-300, V.VI (AD-A007796) July 1974	Program Support Library Program Specification
RADC-TR-74-300, V.VII (AD-A008639) September 1974 Addendum (AD-A016414) April 1975	Documentation Standards
RADC-TR-74-300, V.VIII (AD-A016415) May 1975	Program Design Study
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RADC-TR-74-300, V.XI (AD-A016416) January 1975	Estimating Software Program Resource Requirements
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14 RADC-TR-74-325 Engineering of Quality Software
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January 1975

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SAMSO Exhibits

2 SAMSO Exhibit 73-3 Standard Engineering Practices for
6 October 1973 Computer Software Design and
Development

SAMSO Technical Reports

14 SAMSO-TR-68-268 Definition and Evaluation of
June 1968 Merit in Spaceborne Systems

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SAMSO Technical Reports

DA PAM 310-1 Military Publications, Index of
14 March 1977 Administrative Publications

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1 June 1977 Doctrinal, Training, and Organizational
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DA PAM 310-4 Military Publications, Index of Technical
29 November 1974 Manuals, Technical Bulletins, Supply
incl. Change 3 Manuals (types 7, 8, and 9), Supply
3 October 1975 Bulletins, and Lubrication Orders

NAVY

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NAVSUP 2002 (A Major Index to Navy Publications)
November 1977

9 SECNAVINST 3560.1 Tactical Digital Systems Documentation
8 August 1974 Standards

2,9 WS-8506 Rev. 1 Requirements for Digital Computer
1 November 1971 Program Documentation

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JANAP 128 August 1976	Automatic Digital Network (Autodin) Operating Procedures
JANAP 201(1) October 1977	Status of Noncryptographic JANAPs and ACPs

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FIPS Pub 0 1 November 1968	General Description of the Federal Information Processing Standards Register
2 FIPS Pub 1 1 November 1968	Code for Information Interchange (Usas X3.4-1968)
FIPS Pub 2 1 November 1968	Perforated Tape Code for Information Interchange (Usas X3.6-1965)
FIPS Pub 3-1 30 June 1973	Recorded Magnetic Tape for Information INTERCHANGE (800 Cpi, NRZI, with ANSI X3.22-1973)
FIPS Pub 7 7 March 1969	Implementation of the Code for Information Interchange and Related Media Standards
FIPS Pub 11-1 24 June 1977	Dictionary for Information Processing
FIPS Pub 12-2 1 December 1974	Federal Information Processing Standards Index
2 FIPS Pub 15 1 October 1971	Subsets of the Standard Code for Information Interchange
FIPS Pub 16-1 1 December 1976	Bit Sequencing of the Code for Information Interchange in Serial by Bit Data Transmission
FIPS Pub 17-1 1 October 1971	Character Structure and Character Parity Sense for Serial-by-bit Data Communication in the Code for Information Interchange (ANSI X3.16-1966)

	FIPS Pub 18-1 1 October 1971	Character Structure and Character Parity Sense for Parallel-by-bit Data Communication in the Code for Information Interchange (ANSI X3.25-1968)
2	FIPS Pub 20 1 March 1972	Guidelines for Describing Information Interchange Formats
	FIPS Pub 21-1 1 December 1975	COBOL
	FIPS Pub 22-1 1 November 1972	Synchronous Signaling Rates Between Data Terminal and Data Communication Equipment
	FIPS Pub 23 15 February 1973	Objectives and Requirements of the Information Processing Standards Program
	FIPS Pub 24 30 June 1973	Flowchart Symbols and their Usage in INTERCHANGE (1600 Cpi, Phase Encoded) (ANSI X3.39-1973)
	FIPS Pub 25 30 June 1973	Recorded Magnetic Tape for Information INTERCHANGE (1600 Cpi, Phase Encoded) (ANSI X3.39-1973)
	FIPS Pub 28 5 December 1973	Standardization of Data Elements and Representations
2	FIPS Pub 29 30 June 1974	Interpretation Procedures for Federal Standard COBOL (C13.52.29)
	FIPS Pub 30 30 June 1974	Software Summary for Describing Computer Programs and Automated Data Systems
	FIPS Pub 31 1 June 1974	Guidelines for Automatic Data Processing Physical Security and Risk Management
	FIPS Pub 32 10 December 1974	Optical Character Recognition Character Sets
	FIPS Pub 35 1 June 1975	Code Extension Techniques in 7 or 8 Bits
	FIPS Pub 36 1 June 1975	Graphical Representation of the Control Characters of ASCII (FIPS 1) (With ANSI X3.32-1973)

FIPS Pub 38 15 February 1976	Guidelines for Documentation of Computer Programs and Automated Data Systems
FIPS Pub 40 1 May 1976	Guidelines for Optical Character Recognition Forms, 1975
FIPS Pub 41 30 May 1975	Computer Security Guidelines for Implementing the Privacy Act of 1974
FIPS Pub 42-1 18 February 1977	Guidelines for Benchmarking ASDP Systems in the Competitive Procurement Environment
FIPS Pub 49 11 March 1977	Guidelines on Computer Performance Management, An Introduction

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(US Govt. Pubs) July 1977 Supplement December 1977	Monthly Catalog of United States Government Publications
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NBS Spec. Pub. 500-11 July 1977	Computer Software Management: A Primer for Project Management and Quality Control
NBS Spec. Pub. 305 April 1969 1976 Supplement June 1977	Publications of the National Bureau of Standards

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	ANSI X3.5-1966 10 January 1967	Flowchart Symbols for Information Processing
2	ANSI X3.9-1966 7 March 1966	FORTRAN
2	ANSI X3.10-1966 7 March 1966	Basic FORTRAN
2	ANSI X3.23-1968	COBOL

ANSI X3.37-1977
17 May 1977

Programming Language APT

ANSI X3.56-1976
14 October 1976

Programming Language PL/1

National Aerospace Standards Institute (NASI) Standards

(NASI Index Part I)
1 January 1978

Index of National Aerospace Standards -
Part I, Numerical Listing

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1 January 1978

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Part II, Alphabetical Listing

Miscellaneous

2 SSD Exhibit 61-47B

Computer Program
Subsystem Development Milestones

APPENDIX B

RESCINDED AND SUPERCEDED DOCUMENTS

Appendix B lists the documents mentioned in the original RSS Guidebook (ESD-TR-75-91) that have since been either:

1. superceded by or combined with another (S),
2. rescinded (R), or
3. dropped (D) from the appropriate index of active documents for reasons unknown to us.

Appendix B has the same format as Appendix A, except that (S), (R), or (D) precedes the document ID of each document superceded, rescinded or otherwise dropped.

DEPARTMENT OF DEFENSE

Data Item Descriptions (DIDs)

5,9,14	(S)TD-3 1 June 1976	DoD Authorized Data List, Index of Data Item Descriptions [Superceded by DoDD 5000.19-L, V.11 (AIMSDL)]
5,9,17	(S)DI-E-129	Computer Software/Computer Program/Computer Data Base Configuration Item(s) [Superceded by DI-E-30145]
3,5,9,15,17	(S)DI-E-695/ESD	Computer Program Development Plan [Superceded by DI-E-730/ESD]
9	(S)DI-E-3145	Engineering Drawing (ICDs) [Superceded by DI-E-7013A]
6,14	(S)DI-H-3268A	Human Operator Task Analysis for Information Systems [Superceded by DI-H-7012]
9,14,17	(R)DI-T-3706 24 August 1970	Category II Test Plan Procedures
9,14	(R)DI-T-3719 24 August 1970	Category II Test Reports

DoD Directives

	(D)DoDD 4105.30 11 March 1959 Changes through 18 January 1972	Armed Services Procurement Regulations
2	(D)DoDD 4120.16 27 September 1972	COBOL Compiler Validation
17	(R)DoDD 5000.26 21 January 1975	Defense Systems Acquisition Review Council [Cancelled by DoDD 5000.2]
2	(R)DoDD 5126.34 27 July 1966	Defense Procurement Management Review Program (I&L)

DoD Instructions

17	(R)DoDI 5000.2 21 January 1971	The Decision Coordinating Paper (DCP) and the Defense Systems Acquisition Review Council (DSARC) [Cancelled by DoDD 5000.2]
2	(D)DoDI 7000.8 4 January 1970	Cost Performance Report
2	(D)DoDI 7220.25 15 June 1972	Standard Rates for Casting Military Personnel Services

DoD Manuals

2	(S)DoD 7000.6-M September 1973	Acquisition Management Systems List (AMSL) [Superceded by DoD 5000.19-L, V.II]
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7	(D)MIL-D-100	Engineering Design Practice
2,4	(R)MIL-P-23189A 25 October 1962	Pert/time and Pert/cost Management Information Systems for Planning and Control

Military Standards

2	(S)MIL-STD-1631A 28 September 1973	Procedure for Selection of Electronic and Electrical Parts During Equipment Design [Superceded by MIL-STD-965]
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AIR FORCE

Air Force Manuals

2, 3, 15	(S)AFM 70-6 22 June 1973	Source-Selection Procedures [Superceded by AFR 70-15]
2	(D)AFM 70-9 1 November 1973 ESD Sup. 1 10 June 1974	Technical Representatives of the Contracting Office (TRCO)
2	(S)AFM 100-24 incl. Change 2 21 April 1972	Standard Computer Programing Language for Air Force Command and Control Systems (JOVIAL-J3) [Superceded by MIL-STD-1588]
2	(D)AFM 173-10 1 April 1973	USAF Cost and Planning Factors

Air Force Pamphlets

2	(D)AFP 70-14 1 March 1974	PIECOST (Probability of Incurring Estimated Cost)
2	(D)AFP 205-2 1 August 1967	Communications Security and Transmission Security
2	(D)AFP 207-1	
2	(D)AFP 207-3	
2	(D)AFP 207-21	
2	(R)AFP 400-28 30 August 1974	Air Force Advanced Logistics System Impact on Major Commands and Bases

Air Force Regulations

2	(S)AFR 26-10 24 February 1964	Manpower Utilization [Superceded by AFM 26-1]
2, 16	(S)AFR 26-12 29 June 1974	Use of Contract Services and Operation of Commercial or Industrial Activities [Superceded by AFM 26-1]
2	(D)AFR 80-46 23 September 1970	Management of Personnel Subsystem/Human Factors in System, Subsystem, Equipment and Modification Development

2	(S)AFR 100-51 14 November 1973 ESD Sup. 1 15 August 1974	Control of Compromising Emanations (TEMPEST) [Superceded by AFR 100-45, V.1]
2,13	(R)AFR 102-5 3 May 1972	USAF Management Policies Governing Development, Acquisition and Operation of Command and Control Systems
2,15	(D)AFR 173-2 16 December 1971	USAF Cost Estimating Relationship/Cost Factors Program
2	(D)AFR 205-7 16 April 1973 AFSC Sup. 1 20 December 1973 ESD Sup. 1 15 March 1974	Communications Security
2,4	(S)AFR 300-11 12 April 1973	COBOL Compiler Validation (Superceded by AFR 300-10)
2	(D)AFR 375-8 30 July 1969	Work Breakdown Structure for Defense Materiel Items
2	(D)AFR 400-26 15 July 1971	Logistics Support for Systems/Equipment Test Programs
2	(S)AFR 400-46 18 March 1965	Increased Reliability of Operational Systems (IROS) Program [Superceded by AFR 66-30]

AIR FORCE SYSTEMS COMMAND (AFSC)

AFSC Manuals

2	(R)AFSCM/AFLCM 70-6 9 April 1971	Coordinated Procurement
2	(R)AFSCM 70-375 16 March 1970	Contractor Capability and Performance Evaluation System
2	(R)AFSCM 171-246 15 May 1974	R&D Contract Status Reports
2	(R)AFSCM 171-267 30 March 1972	AFSC Maintenance Performance Monitoring System
2	(R)AFSCM 171-375 15 April 1970	Contractor Capability and Performance Evaluation

2,15	(R)AFSCM 173-2 31 July 1968	Cost Information System
2,6,7, 8,9, 10,14	(S)AFSCM/AFLCM 375-7 31 March 1971 incl. Change 1	Configuration Management for Systems, Equipment, Munitions, and Computer Programs [Superceded by AFSCP 800-7]
2	(S)AFSCM 375-380 1 October 1970	Configuration Status Accounting System [Superceded by AFSCM 800-380]
2	(S)AFSCM 400-4 18 March 1969	Standard Integrated Support Management System [Superceded by AFSCR/AFLCR 800-24]

AFSC Regulations

2	(R)AFSCR 8-2 18 September 1974	AFSC Maintenance Technical Directives
2	(R)AFSCR 70-3 28 June 1974	Acquisition of Automatic Data Processing Equipment
2	(R)AFSCR 70-6 2 February 1970	R&D Source Selection Procedures
2,3,5, 17	(S)AFSCR 70-9 16 August 1974 (R)ESD Sup. 1 20 October 1975	Source Selection Procedures [Superceded by AFSCR 70-15]
2	(R)AFSCR 70-14 31 March 1971	Preparation of Purchase Requests and Military Interdepartmental Procurement Requests
2,11	(S)AFSCR 800-7 31 January 1973	Transition Planning and Agreements [Superceded by AFR 800-4/AFSC Sup. 1]
2	(R)AFSCR 800-10 22 January 1973	Contract Management Support to Program Offices

ELECTRONIC SYSTEMS DIVISION (AFSC/ESD)

ESD Regulations

2	(R)ESDR 66-5 25 October 1972	Maintenance Management
2	(R)ESDR 84-2 25 November 1974	Electronic Systems Production Management

ESD Technical Reports

5,7,9, (S)ESD-TR-75-91
17
(AD-A016401)
October 1975

Software Acquisition Management
Guidebook: Regulations, Specifications,
and Standards [Superceded by this
Guidebook]

APPENDIX C

MARGINALLY RELEVANT DOCUMENTS PREVIOUSLY CITED

This appendix has the same format as Appendix A. It lists the still active documents, cited in the previous version of this guidebook, that the authors of the current version deem only marginally relevant to ESD-managed C³ system software development or acquisition.

DEPARTMENT OF DEFENSE

Military Standards

- | | | |
|---|--------------------------------|--|
| 2 | MIL-STD-1345A
21 March 1975 | Data, Measurement, in Support of
Maintenance, Calibration and Repair
of Electronic Equipment |
| 2 | MIL-STD-1528
1 August 1972 | Production Management |
| 2 | MIL-STD-1602
8 June 1973 | Progress Reports for Research and
Development Equipment, Requirements for |
| 2 | MIL-STD-1641
1 March 1974 | Preparation of Pert/time Networks and
Reports for Training Device Contracts |

AIR FORCE

Air Force Manuals

- | | | |
|---|--|--|
| 2 | AFM 175-118
17 May 1974
incl. Change 2 | Air Force Audit/Management System
(AFA/MS): P090/VL |
|---|--|--|

Air Force Regulations

- | | | |
|---|--|---|
| 2 | AFR 70-1
9 February 1972 | Procurement of AF Assigned Items
Under the DoD Coordinated Program |
| 2 | AFR 70-10
12 August 1969 | Procurement of Electronic Equipment for
Triservice Use Under the DoD Coordinated
Procurement Program F(CONUS) |
| 2 | AFR 70-11
5 December 1968
incl. Change 6 | Implementing Procedures for Army Single
Department Procurement Assignments
F(CONUS) |

2	AFR 70-13 29 October 1969 incl. Change 1	Implementing Procedures for Single Department Procurement of Commodities Assigned to the Department of the Navy
2	AFR 80-38 6 September 1973	Management of the Air Force Survivability Program
2	AFR 80-51 23 July 1971	Management of R&D Requirements in the Personnel, Training and Education Program
2	AFR 100-8 24 March 1972 incl. Change 1 AFSC Sup. 1 20 October 1972	Programming of Major Telecommunication Requirements
2	AFR 100-27 26 February 1973	Release or Disclosure of Unclassified Messages
2	AFR 100-41 8 November 1968	Handling Message Traffic for Other Government Agencies
2	AFR 127-8 19 April 1976 AFSC Sup. 1 27 August 1976	Responsibilities for USAF System Safety Engineering Programs
2	AFR 127-13 15 May 1973 AFSC Sup. 1 12 August 1974	Responsibilities for the USAF Aerospace Safety Program (PA)
2	AFR 178-1 28 December 1973	Economic Analysis and Program Evaluation for Resource Management
2	AFR 205-25 6 August 1976 incl. Change 2	(S) Safeguarding the Single Integrated Operational Plan (SIOP)
2	AFR 205-28 10 August 1973	(S) Communications Security for Nuclear Command and Control Communications

AIR FORCE SYSTEMS COMMAND (AFSC)

AFSC Manuals

2	AFSCM 70-480 15 August 1973	Procurement Action Reporting System
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- | | | |
|---|---|---|
| 2 | AFSCM 84-3
14 May 1971
incl. Change 1 | Production Management |
| 2 | AFSCM 171-480, V.1
15 March 1971
incl. Change 4 | Procurement Action Reporting System
(J001A/JG) |
| 2 | AFSCM 171-490
15 August 1974 | Automated Reports Management System:
P031/KX |

AFSC Regulations

- | | | |
|---|--|---|
| 2 | AFSCR/AFLCR 65-8
15 November 1974 | Utilization of Assets as Government
Furnished Material |
| 2 | AFSCR 70-10
28 May 1976 | Physically Completed Contracts |
| | AFSCR 800-13
16 December 1974
incl. Change 2 | Management Control in the Selection of
Parts in New Equipment Design |

APPENDIX D

KWIC INDEX OF RELEVANT ACTIVE DOCUMENTS

This KWIC (Keyword in Context) Index is a subject index of all documents listed in Appendix A. Each document is listed alphabetically by title and by any key phrases in the title that the authors consider significant. Each KWIC index entry is one line consisting of a document title on the left and the document's ID in the rightmost 24 columns.

The significant phrase (which may be either the first part of the title or some subsequent key phrase in the title) begins in column 33. If an entry's significant phrase is not the title's initial phrase, the title will be shifted left such that the significant phrase for each entry will always begin in the same position (column 33). If the significant phrase is not the first part of the title, the left context of the significant phrase will precede it in columns 1-30. If the entry's entire left context will not fit there, as many as 32 additional left context characters, preceded by a vertical bar (|), will appear, right-justified, in columns 74-105. As many characters of the right context as will fit before any left context will follow the significant phrase in columns 74-105, and (if space permits) in columns 1-30 followed by a vertical bar. Any rightmost right context characters that won't fit will be discarded. The following depicts this KWIC format:

Columns:	1	-	30	33	-	105	107	-	130
Content:	Left Context*			Significant Phrase & Right Context**			Document ID		

To use the KWIC index, scan the significant phrases beginning in column 33 of successive lines to find phrases (subjects) of interest, and examine their left (if any) and right contexts. If document titles appear to be of interest, their document IDs may be used as keys to reference additional information about the documents contained in Appendix A.

As an example, assume that one wants to find all documents on "cost performance". First, one should look in the KWIC Index and find titles with the significant phrase "cost performance" beginning in column 33. There are two. One is entitled Cost Performance Report (CPR) with a document ID of DI-F-6000A. The other is entitled Contract Cost Performance, Funds Status and Cost/Schedule Status Reports (C), with the ID DoDI 7000.10. Both are listed in Appendix A, first by agency (both are listed under Department of Defense) and then by type and document ID.

* If space permits, the left context may be preceded by a vertical bar and right context continuation characters.

** If the left context exceeds 30 characters, its first characters, preceded by a vertical bar, will follow the right context.

Application of OMB Circular No. A-109	Major System Acquisition - A Dis	OFFPP Pamphlet No. 1
Air Force Manual of Quarterly Technical Computer	Abbreviations	AFM 11-2
	Abstract of Computer Programs	DI-A-30022
	Abstracts Bulletin	TAB
	Acceptance Test Procedures	DI-T-3714A
	Acceptance Test Program	DI-T-5139A
	Acceptance Test Reports	DI-T-3721A
ification and Registration for Certification for	Access to DoD Scientific and Technical Information (DOR&E)	AFR 80-39
	Access to Scientific and Technical Information (DOR&E)	DoDI 5200.21
Data	Accession List/Internal Data	DI-M-30414
Data	Accession List/Internal Data	DI-A-3027
and Policies of the Air Force	Accounting and Finance System	AFM 177-100
Acquisition of R&D Services (Configuration Management)	Accounting for R&D - H096/OY	AFSCM 171-265
	Accounting for Research and Development	AFR 177-13
Configuration Status	Accounting Data Elements and Related Features	MIL-STD-462A
Configuration Management	Accounting Reports (Machine or Manually Prepared)	DI-E-3133
	Accounting Standards	ASPR Sec. III, Pt. 12
Configuration Status	Accounting System (CSAS) (DSD: D027)	AFSCM 171-380
Configuration Status	Accounting System (CSAS) (DSD: D027)	AFSCM 800-380
Rights in Computer Software	Acquired Under Contract	ASPR Sec. IX, Pt. 6
Use)	Policies for Acquiring Commercial and Industrial Products and Services for Government	OMB Circular A-76
Major System	Acquisition	OMB Circular A-109
and Resolution During Systems	Acquisition	AFSCR 66-71
Ability Assurance Program During	Acquisition	AFR 74-18
ct Management in Major Program	Acquisition	AFR 70-16
de to Contracting for Software	Acquisition	ESD-TR-75-365
Cycle Costing Guide for System	Acquisition	LCC 3
Major System	Acquisition - A Discussion of the Application of OMB Circular No. A-109	OFFPP Pamphlet No. 1
Documentation, Development,	Acquisition and Implementation	AFR 300-12, V.1
	Acquisition and Management of Data for Follow-On Procurements	AFR 310-3
Program Management of Systems	Acquisition and Support Procedures for Computer Resources in Systems	AFR 800-14, V.11
Selection and	Acquisition for Foreign Military Service	AFR 800-14
ices (C))	Acquisition of Automatic Data Processing Resources (C)	DoDD 4105.55
	Acquisition of Automatic Data Processing Equipment	ASPR Sec. III, Pt. 11
	Acquisition of Automatic Data Processing Computer Program and Related Ser	DoDI 4105.65
	Acquisition of Data from Contractors (I&I)	DoDI 5010.29
	Acquisition of Engineering Drawings and Associated Lists	AFSCR/AFSCR 800-8
	Acquisition of R&D Services (Accounting for R&D) - H096/OY	AFSCM 171-265
	Acquisition of Support Equipment	AFR 800-12
	Acquisition of Technical Data and Computer Software	ASPR Sec. IX, Pt. 5
ice Publications and Air Force	Acquisition Documents	AFR 0-4
Defense	Acquisition Executive (DOR&E)	DoDD 5000.30
Production Management in the	Acquisition Life Cycle	AFR 800-9
Technical Publications	Acquisition Management	AFSCM 310-2
Software	Acquisition Management	ESD-TR-77-22
Software	Acquisition Management Guidebook: Life Cycle Events	ESD-TR-76-141
	Acquisition Management Guidebook: Overview of the Series	

Software Acquisition Management Guidebook: Reviews and Audits	ESD-TR-78-117
Software Acquisition Management Guidebook: Software Maintenance	ESD-TR-77-327
Software Acquisition Management Guidebook: Software Quality Assurance	ESD-TR-77-255
Software Acquisition Management Guidebook: Software Development and Maintenance	ESD-TR-77-130
Software Acquisition Management Guidebook: Software Cost Estimation and Measurement	ESD-TR-78-140
Software Acquisition Management Guidebook: Statement of Work Preparation	ESD-TR-77-16
Software Acquisition Management Guidebook: Validation and Certification	ESD-TR-77-326
Software Acquisition Management Guidebook: Verification	ESD-TR-77-263
AFSC Acquisition Management Information System (AMIS)	AFSCR 70-13
C/AFLC/AFSC List of Authorized Acquisition Management Systems	AFSCR/AFCLR 800-14
DoD Acquisition Management Systems and Data Requirements Control Program (C)	DoDI 5000.32
Department of Defense Acquisition Management Systems and Data Requirements Control List (AMSDL)	DoDD 5000.19-L, V.II
Air Force Computer Acquisition Office (AFCAO)	AFR 23-24
Program Milestones (Acquisition Phase)	DI-A-3009
ESD Acquisition Procedures for Scientific and Technical Information	ESDR 5-3
Major System Acquisition Process (DDR&E)	DoDD 5000.2
Acquisition Program Management	AFR 800-2
Acquisition Programs (I&L)	DoDI 4140.41
Acquisition Programs and Test Resources	AFSCR 800-1
Selected Acquisition Reports (SAR) (C)	DoDI 7000.3
Selected Acquisition Reports (SARs)	AFR 800-5
Program Acquisition Visibility Briefings	ESDR 178-6
ent Guide to Avionics Software Acquisition Volume III - Summary of Software Related Standards and Management	ASD-TR-76-11, V.III
Policies on Selection, Acquisition, and Management of Automatic Data Processing Resources	DIAI 65-1
dards in Naval Weapons Systems Acquisition	MIL-HDBK 248
Financial Reporting on Selected Acquisitions	AFSCR 70-11
Performance Measurement for Selected Acquisitions (C)	DoDI 7000.2
Major System Acquisitions (DDR&E)	DoDD 5000.1
Program Action Directive (PAD)	AFSCR 27-7
Publicizing Procurement Activities	ASPR Sec. I, Pt. 10
t of Automatic Data Processing Addendum Specification	OMB Circular A-171
Responsibility for the Administration and Management of Automatic Data Processing Activities	DI-E-3104
Responsibility for the Administration and Support of Basic Research by the DoD (DDR&E)	OMB Circular A-171
Responsibility for the Administration of the DoD Automatic Data Processing Program (C)	DoDD 3210.1
Military Standard Contract Administrative Matters	DoDD 5100.40
Index of DIA Administrative Publications	DoD 4105.63-M
Publications, Index of Administrative Publications	ASPR Section XX
Advance Change/Study Notice (ACSN)	DIAR 0-2
Advanced Procurement Planning	DA PAM 310-1
Advanced Development	DI-E-3127
Advanced Development Technology Program Plans	ASPR Sec. I, Pt. 21
Assessments of Advanced Development Technology Programs	DI-M-5094
an/Procedures (Exploratory or Advanced Development)	AFSCM 80-5
	AFSCR 80-1
	AFSCR 80-19
	DI-I-30701

The US Air Force Scientific	Advanced Program Languages (Software)	DI-H-5069
Advisory Board	Aeronautical Systems Division	AFR 20-30
Aerospace Resources and Configuration System (ARCS) (DSD: G299(RY))	Aerospace Standards - Part I, Numerical Listing	AFSCM 171-271
Aerospace Standards - Part II, Alphabetical Listing	Agency Publications	(NASI Index Part I)
Agency Publications (I)	Agency Publications System (C)	(NASI Index Part II)
Agency Publications (C)	Agency Publications System (I)	AFR 23-40
Agency Publications (I)	Agency Publications System (I)	DoDD 5105.19
Agency Publications System (I)	Agency Publications System (I)	AFR 0-15
Agency Publications System (I)	Agency Publications System (I)	AFR 5-9
Agency Publications System (I)	Agency Publications System (I)	AFR 0-16
Agency Publications System (I)	Agency Publications System (I)	DoDI 5025.7
Agency Publications System (I)	Agency Publications System (I)	DoDI 5025.10
Agency Publications System (I)	Agency Publications System (I)	DI-A-3029
Agency Publications System (I)	Agency Publications System (I)	ESDR 800-1
Agency Publications System (I)	Agency Publications System (I)	ASPP Sec. XXVI, Pt. 3
Agency Publications System (I)	Agency Publications System (I)	DI-M-5110A
Agency Publications System (I)	Agency Publications System (I)	ESDR 23-4
Agency Publications System (I)	Agency Publications System (I)	AFR 175-4
Agency Publications System (I)	Agency Publications System (I)	AFR 0-16
Agency Publications System (I)	Agency Publications System (I)	AFM 177-100
Agency Publications System (I)	Agency Publications System (I)	AFR 0-4
Agency Publications System (I)	Agency Publications System (I)	AFR 23-32
Agency Publications System (I)	Agency Publications System (I)	AFR 23-24
Agency Publications System (I)	Agency Publications System (I)	AFR 173-1
Agency Publications System (I)	Agency Publications System (I)	AFR 23-40
Agency Publications System (I)	Agency Publications System (I)	AFR 23-41
Agency Publications System (I)	Agency Publications System (I)	AFR 23-42
Agency Publications System (I)	Agency Publications System (I)	AFSCR/AFCLR 80-17
Agency Publications System (I)	Agency Publications System (I)	AFM 11-1, V.2
Agency Publications System (I)	Agency Publications System (I)	AFM 11-1, V.1
Agency Publications System (I)	Agency Publications System (I)	ESD-TR-78-139
Agency Publications System (I)	Agency Publications System (I)	ESD-TR-77-254
Agency Publications System (I)	Agency Publications System (I)	ESD-TR-75-365
Agency Publications System (I)	Agency Publications System (I)	ESD-TR-75-85
Agency Publications System (I)	Agency Publications System (I)	ESD-TR-76-159
Agency Publications System (I)	Agency Publications System (I)	AFR 80-3
Agency Publications System (I)	Agency Publications System (I)	AFP 70-1
Agency Publications System (I)	Agency Publications System (I)	AFR 23-2
Agency Publications System (I)	Agency Publications System (I)	AFM 11-2
Agency Publications System (I)	Agency Publications System (I)	AFR 122-1
Agency Publications System (I)	Agency Publications System (I)	AFR 178-4
Agency Publications System (I)	Agency Publications System (I)	AFR 80-4
Agency Publications System (I)	Agency Publications System (I)	AFM 70-2
Agency Publications System (I)	Agency Publications System (I)	AFR 27-9
Agency Publications System (I)	Agency Publications System (I)	AFR 5-1

ents Used in the Management of The US	Air Force Quality Assurance Program	AFR 74-1
	Air Force Research and Development	AFR 80-1
	Air Force Scientific Advisory Board	AFR 80-2
	Air Force Systems Command (AFSC)	AFR 20-30
	Air Force Technical Order (TO) System	AFR 23-8
	Air Force Test and Evaluation Center (AFTEC)	AFR 23-34
	Air Force Value Engineering Program	AFR 8-2
	Air Training Command	TO 00-5-1
System	Allocation Document (SAD)	AFR 23-6
Cost	Allocation Report	DI-E-3116
Requirements	Allocation Sheets	DI-A-5303
eliability and Maintainability	Allocations, Assessments, and Analysis Report	DI-S-3605
Numerical Index,	Alphabetical Index, and Cross Reference Table Technical Orders	DI-R-3535
ations and Standards - Part I,	Department of Defense Index of S	TO 0-1-01
Aerospace Standards - Part II,	Index of National	(DoDISS Part I)
Commercial Computer &	Ancillary Equipment Programming Aids (Software) & Manuals	(NASI Index Part II)
Modification Program	Approval	DI-M-5110A
	Armed Services Procurement Regulation Committee (I&L)	ASPR Sec. XV, Pt. 1
	Armed Services Procurement Regulations	AFR 57-4
Keyboard	Arrangements	DoDI 5126.3
Reliability/Maintainability	Assembly Language (Software)	ESD ASPR Sup. 1
Management	Assessment and Demonstration Reports	MIL-STD-1280
d Maintainability Allocations,	Assessments of Advanced Development Technology Programs	DI-H-5067
ogf Government-Owned Materiel	Assessments, and Analysis Report	DI-R-3544
Cost Report (	Assets Utilized as Government-Furnished Materiel for Major Acquisition Pr	AFSCR 800-27
de to Content Requirements and	Assistant Secretary of Defense (Comptroller) (C)	AFSCR 80-19
Follow-up on Reports of	Audience Needs	DI-R-3535
	Auditing in the Air Force	DoDI 4140.41
agement Guidebook: Reviews and	Audits	DI-A-5002
ormal Reviews, Inspections and	Audits and Demonstrations	DoDD 5118.3
Design Reviews, Configuration	Audits for Systems, Equipment, and Computer Programs	ESD-TR-75-308
Technical Reviews and	Authorization for Negotiation	AFR 175-2
oint AMC/RMC/AFLC/AFSC List of	Authorized Acquisition Management Systems	AFR 175-4
Automatic Digital Network (	Autodin) Operating Procedures	ESD-TR-78-117
Management of	Automated Data System Development (C)	DI-E-3118
DoD	Automated Data System Documentation Standards Manual	DI-A-3029
DoD	Automated Data System Documentation Standards (C)	MIL-STD-1521A(USAF)
	Automated Data System Project Management	ASPR APPENDIX J
		AFSCR/AFLCR 800-14
		JANAP 128
		DoDI 5010.27
		DoD 4120.17-M
		DoDI 4120.17
		AFR 300-15

ation of Computer Programs and Automated Data Systems
 scribing Computer Programs and Automated Data Systems
 DoD Automated Data Systems Documentation Standards (C)
 Automated Engineering Documentation Preparation System
 Automatic Data Processing (ADP) Manpower and Cost
 Automatic Data Processing (ADP) Resource Management
 Automatic Data Processing (ADP) Systems (C)
 Security Requirements for Automatic Data Processing Activities
 Administration and Management of Automatic Data Processing Computer Program and Related Services (C)
 Acquisition of Automatic Data Processing Equipment
 Acquisition of Automatic Data Processing Equipment (ADPE) Cost and Utilization
 DoD Automatic Data Processing Equipment Reutilization Manual
 DoD Automatic Data Processing Equipment Reutilization Program (C)
 Automatic Data Processing Management Information System (ADP/MIS) (C)
 Automatic Data Processing Physical Security and Risk Management
 Guidelines for Automatic Data Processing Planning Concepts
 the Administration of the DoD Automatic Data Processing Program (C)
 Automatic Data Processing Program Management
 Acquisition, and Management of Automatic Data Processing Resources (C)
 Selection and Acquisition of Automatic Data Processing Resources (C)
 Management of Automatic Data Processing Systems
 Procedures for Managing Automatic Data Processing Systems
 Safeguarding Personal Data in Automatic Data Processing Systems (ADPS)
 Procedures for Managing Automatic Data Processing Systems (ADPS)
 Security Requirements for Automatic Data Processing, Planning, Programming, and Budgeting Informati
 on System
 Automatic Data Systems (ADS) Standards
 Air Force Data Automation Agency
 Commercially Available Computer Data
 Standards for Management Guide to Avionics Software Acquisition Volume III - Summary of Software Related St
 of Noncryptographic JANAPs and ACPs
 Advance Change/Study Notice (ACSN)
 ADP Security Manual
 Government-Wide ADP Sharing Program (C)
 Automatic Data Processing (ADP) Manpower and Cost
 Automatic Data Processing (ADP) Resource Management
 Automatic Data Processing (ADP) Systems (C)
 Automatic Data Processing (ADP/MIS) (C)
 ADPE Performance Management System
 ADPE Systems Configuration Report (Schematics)
 ic Data Processing Equipment (ADPE) Cost and Utilization
 ADPS Management
 atic Data Processing Systems (ADPS)
 atic Data Processing Systems (ADPS)
 Automatic Data Systems (ADS) Standards

[Guidelines for Document
 |Software Summary for De
 FIPS Pub 38
 FIPS Pub 30
 DoDI 7935-1
 MIL-STD-35C
 DI-F-30202
 AFM 300-6
 DoDD 5200.28
 OMB Circular A-171
 DoDI 4105.65
 ASPR Sec. III, Pt. 11
 DI-L-30309
 DoD 4160.19-M
 DoDD 4160.19
 DoDI 4140.38
 FIPS Pub 31
 AFR 300-7
 DoDD 5100.40
 AFR 300-1
 DIAI 65-1
 DoDD 4105.55
 AFR 300-2
 AFR 300-12, V. 1-2
 AFR 300-13
 AFR 300-12, V.1-2
 AFR 300-8
 AFR 300-3
 AFM 171-100, V.1-4
 JANAP 128
 AFR 23-40
 DI-A-5027
 ASD-TR-76-11, V.III
 JANAP 201(1)
 DI-E-3127
 DoD 5200.28-M
 DoDI 5030.40
 DI-F-30202
 AFM 300-6
 DoDD 5200.28
 DoDI 4140.38
 AFM 171-400, V.1-2
 DI-A-30023
 DI-L-30309
 AFR 300-12, V.2
 AFR 300-8
 AFR 300-12, V.1-2
 AFM 171-100, V.1-4

Computer Acquisition Office (AFCAO) | Air Force
 e Data Systems Design Center (AFSDDC) | Air Force
 Numerical Index of AFLC Publications
 Air Force Logistics Command (AFLC)
) | AFSC Acquisition Management Information System (AMIS) (DSD: G299(RY)
 AFSC Aerospace Resources and Configuration System (ARCS) (DSD: G299(RY)
 AFSC Business Strategy Panel
 AFSC Design Handbook Changes
 AFSC Design Handbooks
 AFSC Management and Scientific Information System (MASIS) (DSD: B458) (| Fun
 R-MIPR Control Offices and the AFSC MIPR Liaison Office | Functions and Responsibilities o
 arch and Technology Support to AFSC Organizations | Laboratory Rese
 AFSC Procurement Evaluation Panel
 AFSC Procurement Summary Report, (RCS: SYS-PMX(M)7601)
 AFSC Publications
 AFSC PR-MIPR Control Offices and the AFSC MIPR Liaison Office | Fun
 AFSC Technical Report Program
 Air Force Systems Command (AFSC) | Air Force
 e Test and Evaluation Center (AFTEC)
 Joint
 management Information System (AMIS) | AFSC Acquisition Management Systems
 ta Requirements Control List (AMSDL) | AFSC Acquisition M
 for Information Interchange (ANSI X3.16-1966) | Department of Defense Acquisitio
 EXCHANGE (800 Cpi, NRZI, with ANSI X3.22-1973) | Character Structure and Characte
 For Information Interchange (ANSI X3.25-1968) | Recorded Magnetic Tape for Infor
 ters of ASCII (FIPS 1) (With ANSI X3.32-1973) | Character Structure and Characte
 E (1600 Cpi, Phase Encoded) (ANSI X3.39-1973) | Graphical Representation of the
 E (1600 Cpi, Phase Encoded) (ANSI X3.39-1973) | Recorded Magnetic Tape for Infor
 Programming Language | Flowchart Symbols and their Usag
 ces and Configuration System (ARCS) (DSD: G299(RY)) | AFSC Aerospace Resour
 n of the Control Characters of ASCII (FIPS 1) (With ANSI X3.32-1973) | Graphical Representatio
 Guidelines for Benchmarking ASDP Systems in the Competitive Procurement Environment | Computer Software/
 Computer Program/Computer Data Base Configuration Item(s)
 Visual Data
 Data
 Data
 Data
 Basic FORTRAN
 teragency Support | Basic Policies and Principles for Interservice, Interdepartmental, and In
 Administration and Support of Basic Research by the DoD (DDR&E)
 ation Interchange in Serial by Guidelines for Benchmarking ASDP Systems in the Competitive Procurement Environment
 ata Transmission | Bit Data Transmission | Bit Sequencing of the Code for I
 Extension Techniques in 7 or 8 Bits | Bit Sequencing of the Code for Information Interchange in Serial by Bit D
 Schematic | Code
 Program Acquisition Visibility Block Diagrams
 Briefings
 Budget Guidance for Value Engineering (C)

AFR 23-24

AFR 23-42

AFLCR 0-2

AFR 23-2

AFSC 70-13

AFSCM 171-271

AFSCR 70-2

DI-E-3'38

AFSCR -4

AFSCR 8 -14

AFSCM -1

AFSCR 80-23

AFSCR 70-7

AFSCR 70-12

AFSCR 0-2

AFSCM 70-1

AFSCR 80-20

AFR 23-8

AFR 23-36

AFSCR/AFLCR 800-14

AFSCR 70-13

DoDD 5000.19-L, V.11

FIPS Pub 17-1

FIPS Pub 3-1

FIPS Pub 18-1

FIPS Pub 36

FIPS Pub 25

FIPS Pub 24

ANSI X3.37-1977

AFSCM 171-271

FIPS Pub 36

FIPS Pub 42-1

DI-E-30145

DI-E-30150

AFR 70-8

DI-E-30106

ANSI X3.10-1966

AFR 400-27

DoDD 3210.1

FIPS Pub 42-1

FIPS Pub 16-1

FIPS Pub 16-1

FIPS Pub 35

DI-S-3607

ESDR 178-6

DoDI 7110.2

USAF	Budget Manual	AFM 172-1, V.1-2
Uniform	Budget/Cost Terms and Definitions	DoDI 5000.33
	Budgeting for Operations	AFM 172-1, V.3
	Budgeting Information System	AFR 300-3
	Bulletin	TAB
	Bulletins, and Lubrication Orders	DA PAM 310-4
	Bulletins, Supply Manuals (types 7, 8, and 9)	DA PAM 310-4
	Bureau of Standards	NBS Spec. Pub. 305
AFSC	Business Strategy Panel	AFSCR 70-2
Small	Business, Contractor Relations, and Procurement Source	ESDR 70-8
	B3500 (Phase II) Data Systems Publications	AFR 5-12
	B458) (RCS: SYS-DL(AR)7501)	AFSCR 80-14
Information System (MASIS) (DSD:	AFSC Management and Scientific I	DoDD 5000.19
of Information Requirements (C)	|Policies for the Management and	DoDI 5000.22
of Information Requirements (C)	|Guide to Estimating Costs	DoDD 5160.49
Computer Institute (DODCI) (C)	|Department of Defense	DoDI 5010.27
ated Data System Development (C)	|Management of Autom	DoDD 5100.40
atic Data Processing Program (C)	|Responsibility for the Administr	DoDI 7000.3
d Acquisition Reports (SAR) (C)	|Selecte	DoDI 5025.7
e Supply Agency Publications (C)	|Defens	DoDI 5030.40
ent-Wide ADP Sharing Program (C)	|Governm	DoDD 4105.55
ic Data Processing Resources (C)	|Selection and Acquisition of Aut	DoDI 7110.2
idance for Value Engineering (C)	|Budget Gu	DoDD 4160.19
iment Reutilization Program (C)	|DoD Automatic Data Processing Eq	DoDD 5000.18
lements and Related Features (C)	|Implementation of Standard Data	DoDI 7900.1
ler Testing Service (FCCTS) (C)	|Federal COBOL Compi	JCSP 10
munications System Standards (C)	|Tactical Command and Control and	DoDI 4140.38
formation System (ADP/MIS) (C)	|Automatic Data Processing Manage	DoDD 5100.1
nse and its Major Components (C)	|Functions of the Department of D	DoDI 7000.2
nt for Selected Acquisitions (C)	|Performance Measureme	DoDD 5000.11
odes Standardization Program (C)	|Data Elements and Data C	DoDD 7000.1
of the Department of Defense (C)	|Resource Management Systems	DoDD 5118.3
ry of Defense (Comptroller) (C)	|Assistant Secreta	DoDD 5000.12
s Standardization Procedures (C)	|Data Elements and Data Code	DoDI 4120.17
tem Documentation Standards (C)	|DoD Automated Data Sy	DoDD 5200.28
ta Processing (ADP) Systems (C)	|Security Requirements for Automa	DoDI 7935.1
tems Documentation Standards (C)	|DoD Automated Data Sys	DoDI 7041.3
tion for Resource Management (C)	|Economic Analysis and Program Ev	DoDD 5000.9
tion of Military Terminology (C)	|Standar diza	DoDI 7000.10
Cost/Schedule Status Reports (C)	|Contract Cost Performance, Funds	DoDI 4105.55
Program and Related Services (C)	|Acquisition of Automatic Data Pr	DoDI 5000.32
Requirements Control Program (C)	|DoD Acquisition Management Syste	AFR 80-7
OMSEC RDT&E) Procedures (C)	|DoD Acquisition Management, Test and Evaluation (C	DoDI 7000.11
Cost Data Reporting (CDDR) (C)	|Contractor	AFSCIP/AFLCP 173-6
		DI-F-6010
Cost/Schedule Status Report (C/SSR)		AFR 57-1
Required Operational Capabilities (ROCs)		

exercising	Capability Implementation Plan (ECIP)	DI-H-3270A
ration of Programmed Tapes and	Cards	MIL-P-83497
Air Force Procurement	Career Management Program	AFM 70-2
nfiguration Item Documentation	Catalog and Glossary	DI-M-30406
	Catalog and Glossary of Computer Program and Programming Documentation	DI-M-3415
	Catalog for Worldwide Military Command and Control System (FOUO)	JCSP 14
	Catalog of United States Government Publications	(US Govt. Pubs)
	Catalogs, and Lists of Departmental Publications	AFR 0-1
Computer System & Program	Center	ESDR 23-4
Monthly	Center	AFR 23-41
Guide to Indexes,	Center	AFR 12-41
Rome Air Development	Center	AFR 23-43
Air Force Data Services	Center	AFR 23-42
Engineering Data Service	Center (AFSDC)	AFR 23-36
ance Evaluation and Simulation	Center (AFTEC)	AFR 80-44
Air Force Data Systems Design	Center for Scientific and Technical Information	DoDI 5100.38
Air Force Test and Evaluation	Centers and Management Support Contractors	AFSCR 11-17
Defense Documentation	Certification	ESD-TR-77-326
Defense Documentation	Certification and Registration for Access to DoD Scientific and Technical	DoDI 5200.21
with Federal Contract Research	Centers for Scientific and Technical Information (DDC) (DDR&E)	AFR 122-9
ment Guidebook: Validation and	Certification Program for Weapon Systems Software	DI-E-3134
Information	Certification (Computer Program)	ASPR Sec. XXVI, Pt. 2
safety Cross-Check Analysis and	Change Notice (Computer Program)	DI-H-5076A
Specification	Change Orders	DI-E-3128
	Change Proposal	DI-E-3123
Computer Software	Change Proposals (ECPs)	AFR 81-11
Engineering	Change Status Report (Computer Program)	DI-E-3127
Engineering Drawing	Change System	DI-E-3138
Advance	Change/Study Notice (ACSN)	DI-A-5398
Notification of	Changes	MIL-STD-481A
AFSC Design Handbook	Changes	MIL-STD-490
Contractor Notification of	Changes to Commercial Equipment and Software	FIPS Pub 18-1
guration Control - Engineering	Changes, Deviations and Waivers (Short Form)	FIPS Pub 17-1
guration Control - Engineering	Changes, Deviations, and Waivers	FIPS Pub 32
for Character Structure and	Character Parity Sense for Parallel-by-bit Data Communication in the Code	FIPS Pub 40
or In Character Structure and	Character Parity Sense for Serial-by-bit Data Communication in the Code	FIPS Pub 32
Optical	Character Recognition Character Sets	FIPS Pub 40
Guidelines for Optical	Character Recognition Forms, 1975	FIPS Pub 32
Optical Character Recognition	Character Sets	FIPS Pub 17-1
munication in the Code for I	Character Structure and Character Parity Sense for Serial-by-bit Data Com	FIPS Pub 18-1
ommunication in the Code for	Character Structure and Character Parity Sense for Parallel-by-bit Data C	FIPS Pub 36
Representation of the Control	Characters of ASCII (FIPS 1) (With ANSI X3.32-1973)	DI-A-5001A
Funds Expenditure	Chart	DI-A-5323
uter Software Project Planning	Chart	DI-A-5016
oject Planning/Actual Progress	Chart (Other than Fixed Price Contracts)	RADC-TR-74-300, V.X
sion of the Application of OMB	Chief Programmer Team Operation Description	OFPP Pamphlet No. 1
	Circular No. A-109	
	|Major System Acquisition - A Dis	

(Index of OMB	(OMB Index)
Contract	ASPR Sec. III, Pt. 2
Subsets of the Standard	DI-R-3528
-bit Data Communication in the	ASPR Section VII
-bit Data Communication in the	ASPR Sec. VII, Pt. 4
Perforated Tape	ASPR Sec. VII, Pt. 3
Implementation of the	FIPS Pub 15
Bit Sequencing of the	FIPS Pub 17-1
Data Elements and	FIPS Pub 18-1
Program Breakdown Structure and	FIPS Pub 2
Data Elements and Data	FIPS Pub 1
Data Elements and Data	FIPS Pub 7
Management Data	FIPS Pub 16-1
Air Training	FIPS Pub 35
Air Force Logistics	DI-H-5071
Air Force Systems	AFM 300-4, V.1-13
Air Force Systems	AFSCM 173-4
Tactical	DoDD 5000.12
Catalog for Worldwide Military	DoDD 5000.11
res for the Worldwide Military	RADC-TR-74-300, V.IX
Worldwide Military	AFR 23-6
Director, Telecommunications and	AFR 23-2
World-Wide Military	AFR 23-8
Equipment for Tactical	AFR 23-34
erical and Functional Index of	JCSP 10
Manuals	JCSP 17
Major	JCSP 7
Policies for Acquiring	DoDD 5135.1
for Notification of Changes to	DoDD 5100.30
Cost Type Contracts with	DoDD 4630.5
ions (DDR&I Compatibility and	AFSCR 0-9
y Sense for Serial-by-bit Data	AFSCR 800-1
Sense for Parallel-by-bit Data	AFM 66-661
Between Data Terminal and Data	OMB Circular A-76
	DI-M-5110A
	DI-M-5085
	DI-A-5398
	DI-M-30424
	ASPR Sec. XV, Pt. 2
	DI-A-5027
	DoDD 4630.5
	FIPS Pub 17-1
	FIPS Pub 18-1
	FIPS Pub 22-1
	ASPR Sec. XXII, Pt. 10

Military USAF Management of Electrical Record tical Command and Control, and Defense	Communication System Technical Standards Communication's Security and Emanations Security Publications Communications Communications Agency (DCA) (DTACCS) Communications Electronics Terminology Communications Security (COMSEC) (U) (DTACCS) Communications Security Research, Development, Test and Evaluation (COMS Communications Service Communications System Standards (C) Compatibility and Commonality of Equipment for Tactical Command and Contr Competitive Procurement Environment Compiler Testing Service (FCCIS) (C) Components (C) Comptroller Terms Comptroller) (C) Computation Systems for Real-time Training Simulators Computer & Ancillary Equipment Programming Aids (Software) & Manuals Computer and Peripheral Equipment Manuals Computer Acceptance Test Program Computer Acquisition Office (AFCAO) Computer Data Computer Institute (DODCI) (C) Computer Operation Manual (OM) Computer Operator's Computer Performance Evaluation and Simulation Center Computer Performance Management, An Introduction Computer Program and Programming Documentation Computer Program and Related Services (C) Computer Program Configuration Item (CPI) Test Plan/Procedures Computer Program Configuration Item (CPI) Development Test and Evaluati Computer Program Configuration Item Documentation Catalog and Glossary Computer Program Configuration Item Maintenance Manual (Operational Soft Computer Program Configuration Item Users Manual (Operational Software) Computer Program Detail Specification Computer Program Development Plan Computer Program Development Plan Computer Program Development Specification Computer Program Development Specification Computer Program Development Specification Computer Program Development Specification Computer Program Documentation Computer Program Documentation Computer Program Documentation Computer Program Flowcharts	Compatibility and Commonality of |Functions of the Depar |AS |Acquisitio	MIL-STD-188C AFR 8-9 AFM 100-20 DoDD 4630.5 DoDD 5105.19 AFM 11-1, V.3 DoDD 5200.5 AFR 80-7 AFR 23-32 JCSF 10 DoDD 4630.5 FIPS Pub 42-1 DoDI 7900.1 DoDD 5100.1 AFM 11-1, V.2 DoDD 5118.3 MIL-STD-876A DI-M-5110A DI-M-5085 DI-T-5139A AFR 23-24 DI-A-5027 DoDD 5160.49 DI-M-30402 DI-M-5205A AFR 23-43 FIPS Pub 49 DI-M-3415 DoDI 4105.65 DI-T-3703A DI-T-3717A DI-M-30406 DI-H-30408 DI-M-30404 ESD-TR-77-254 DI-E-30102 DI-S-30567 DI(U)-E-730/ESD DI-E-3119A DI-E-30113 DI-E-30139 ESD-TR-78-139 DI-T-5380 DI-H-3277 WS-8506 Rev. 1 DI-E-30111
EC RDT&E Procedures| Air Force tical Command and Control and ol, and Communications (DDR)| enchmarking ASDP Systems in the Federal COBOL tment of Defense and its Major Air Force Glossary of sistant Secretary of Defense (C) Digital Commercial Commercial Air Force Commercially Available Department of Defense Software Reference Manual, Federal Guidelines on Catalog and Glossary of n of Automatic Data Processing on Test Report| ware)| An Air Force Guide to Training Equipment Requirements for Digital			

Computer Software Test and Evaluation Report		
Computer Software Test Plan		
Computer Software/Computer Program/Computer Data Base Configuration Item(
Computer System & Program Catalog for Worldwide Military Command and Cont		JCSF 14
Computer System Operational Manual		DI-M-30410
Computer Test Equipment Manual		DI-M-5091
Computer-Aided Design and Computer-Aided Manufacturing |Standards and Spe		MIL-STD-960
Computer-Aided Manufacturing Systems |Standards and Specifications for		MIL-STD-960
Computer-Compatible Publication Text		DI-M-5370
Concepts		AFR 300-7
Conceptual and Development Design)		DI-E-7013A
Configuration Audits and Demonstrations		DI-A-3029
Configuration Control - Engineering Changes, Deviations, and Waivers		MIL-STD-480
Configuration Control - Engineering Changes, Deviations and Waivers (Sho		MIL-STD-481A
Configuration Index		DI-E-3122
Configuration Item (CPCI) Development Test and Evaluation Test Report		DI-T-3717A
Configuration Item (CPCI) Test Plan/Procedures		DI-T-3703A
Configuration Item Development Specification		DI-E-3102A
Configuration Item Documentation Catalog and Glossary		DI-M-30406
Configuration Item Maintenance Manual (Operational Software)		DI-M-30408
Configuration Item Product Fabrication Specification		DI-E-3103A
Configuration Item Product Function Specification		DI-E-3132
Configuration Item Users Manual (Operational Software)		DI-M-30404
Configuration Item(s)		DI-E-30145
Configuration Management		AFSCP 800-7
Configuration Management		AFR 65-3
Configuration Management		ESD-TR-77-254
Configuration Management (DDR&E)		DoDD 5010.19
Configuration Management Accounting Reports (Machine or Manually Prepare		DI-E-3133
Configuration Management Implementation Guidance (DDR&E)		DoDI 5010.21
Configuration Management Plan (CMP)		DI-E-3108
Configuration Management Plans		MIL-STD-1456
Configuration Management Practices for Systems, Equipment, Munitions and		MIL-STD-483(USAF)
Configuration Report (Schematics)		DI-A-30023
Configuration Status Accounting Data Elements and Related Features		MIL-STD-482A
Configuration Status Accounting System (CSAS) (DSD: D027)		AFSCM 171-380
Configuration Status Accounting System (CSAS) (DSD: D027)		AFSCM 800-380
Configuration System (ARCS) (DSD: G299(RY))		AFSCM 171-271
Consultant Services		ASPR Sec. XXII, Pt. 2
Contract		ASPR Sec. IX, Pt. 6
Contract and Documentation of Air Force Programs		AFR 27-9
Contract Administration Procedures (MILSCAP)		DoD 4105.63-M
Contract Clauses and Solicitation Provisions		ASPR Section VII
Contract Cost Performance, Funds Status and Cost/Schedule Status Reports		DoDI 7000.10
Contract Cost Principles and Procedures		ASPR Section XV
Contract Data Management Plan		DI-A-3022

Uniform	Contract Funds Status Report (CFRS)	DI-F-6004A
	Contract Line Item Numbering System	ASPR Sec. XX, Pt. 3
	Contract Management in Major Program Acquisition	AFR 70-16
	Contract Modifications	ASPR Section XXVI
Relations with Federal	Contract Research Centers and Management Support Contractors	AFSCR 11-17
	Contract Work Breakdown Structure	DI-A-3023
	Contract)	DI-A-5002
Cost Report (Assignment Type	Contract, Procurement, and Other Matters (PA)	AFR 124-8
Violations of Public Trust in	Contracting for Operation and Maintenance Services	AFR 70-19
	Contracting for Operation and Maintenance Services	APP 70-19
	Contracting for Software Acquisition	ESD-TR-75-365
An Air Force Guide to	Contracting Officer (TRCO)	AFR 70-9
chnical Representatives of the	Contractor Configuration Management Plans	MIL-STD-1456
	Contractor Cost Data Reporting (CDDR) System	AFSCP/AFLCP 800-15
	Contractor Cost Data Reporting (CDDR) (C/I&L/P&E)	DoDI 7000.11
	Contractor Data	AFR 310-1
	Contractor Data	AFSCR 310-1
Functional Specification	Contractor Developed	DI-E-5384
	Contractor Notification of Changes to Commercial Equipment and Software	DI-A-5398
Small Business,	Contractor Relations, and Procurement Source	ESDR 70-8
	Contractor Standardization Plans and Management	MIL-STD-680
	Contractor Support of Systems and Equipment	AFR 900-21
Interim	Contractor Test Plans/Procedures	DI-T-3702A
	Contractor's Quality Program	MIL-HDBK 50
Evaluation of a	Contractors (I&L)	AFSCR 11-17
Centers and Management Support	Contractors' Facilities (I&L)	DoDI 5010.29
Acquisition of Data from	Contractors' Indirect Cost	DoDI 4105.64
Technical Representation at	Contractors' Procurement Systems	APP 70-21
Guide for Monitoring	Contracts	ASPR Sec. XXIII, Pt. 1
Review of	Contracts	ASPR Sec. III, Pt. 4
Types of	Contracts	ASPR Section XXII
Service	Contracts	ASPR Sec. VII, Pt. 4
Type Research and Development	Contracts	ASPR Sec. I, Pt. 20
Cost and Funds Under Cost Type	Contracts	ASPR Sec. VII, Pt. 3
Price Research and Development	Contracts	ASPR Sec. XXII, Pt. 1
Service	Contracts in General	ASPR Sec. XV, Pt. 2
Cost Type	Contracts with Commercial Organization	DI-A-5016
Chart (Other than Fixed Price	Contracts)	DoDD 4105.62
Selection of	Contractual Sources for Major Defense Systems (DDR&E)	AFM 66-18
nical Services Management and	Control	AFR 67-28
Inserting Data Distribution and	Control	AFR 500-11
Project Management and Quality	Control	NBS Spec. Pub. 500-11
Configuration	Control - Engineering Changes, Deviations, and Waivers	MIL-STD-480
Configuration	Control - Engineering Changes, Deviations and Waivers (Short Form)	MIL-STD-481A
Program	Control - Financial	AFR 800-6
Tactical Command and	Control and Communications System Standards (C)	JCSP 10
Management and	Control of Information Requirements	AFR 178-7

olicies for the Management and	Control of Information Requirements (C )	| P	DoDD 5000.19
raphical Representation of the	Control Characters of ASCII (FIPS 1) (With ANSI X3.32-1973)	| C	FIPS Pub 36
Systems and Data Requirements	Control List (AMSDL)	|	DoDD 5000.19-L, V.11
responsibilities of AFSC PR-MIPR	Control Offices and the AFSC MIPR Liaison Office	| Functions and Re	AFSCM 70-1
Parts	Control Program	|	MIL-STD-865
Systems and Data Requirements	Control Program (C )	| DoD Acquisition Management	DoDI 5000.32
ESD Management Information and	Control System	|	ESDM 173-1
Worldwide Military Command and	Control System (FOUO)	| (Computer System & Program Catalo	JCSP 14
Worldwide Military Command and	Control System Standard Systems (FOUO)	| Management Procedures for the	JCSP 17
Worldwide Military Command and	Control System Standards (WMMCCS) (FOUO)	|	JCSP 7
and Applications of Management	Control Systems	| Development, Selection	AFR 600-1
communications and Command and	Control Systems	| Director, Tele	DoDD 5135.1
orid-wide Military Command and	Control Systems (WMMCCS) (DIACCS)	| W	DoDD 5100.30
Surveillance of Management	Control Systems and Financial Reporting on Selected Acquisitions	|	AFSCM 70-11
Cost/Schedule	Control Systems Criteria (Joint Implementation Guide)	|	AFSCP/AFLCP 173-5
ment for Tactical Command and	Control, and Communications (DDR&E)	| Compatibility and Commonality of	DoDD 4630.5
Assigned to DSA Under the DoD	Coordinated Procurement Program (PCS: D)	| Implementing Procedures for Purc	AFR 70-17
Patents, Data, and	Copyrights	|	ASPR Section IX
n Technical and Other Data and	Copyrights	| Rights i	ASPR Sec. IX, Pt. 2
Should	Cost	|	APP 70-5
onitoring Contractors' Indirect	Cost	| Guide for Mo	APP 70-21
Processing (ADP) Manpower and	Cost	| Automatic Data	DI-F-30202
Design to	Cost (DDR&E)	|	DoDD 5000.28
Limitation of	Cost and Funds Under Cost Type Contracts	|	ASPR Sec. I, Pt. 20
a Processing Equipment (ADPE)	Cost and Utilization	| Automatic Dat	DI-L-30309
	Cost Accounting Standards	|	ASPR Sec. III, Pt. 12
	Cost Allocation Report	|	DI-A-5303
The Air Force	Cost Analysis Program	|	AFR 173-1
Independent	Cost Analysis Program	|	AFR 173-11
Electronic Systems Division	Cost Analysis Program	|	ESDR 173-1
Design to	Cost Data	|	DI-A-5345
Contractor	Cost Data Reporting (CDR) (C/16L/PA&E)	|	DoDI 7000.11
Contractor	Cost Data Reporting (CDR) System	|	AFSCP/AFLCP 800-15
	Cost Data Summary Report (DD Form 1921)	|	DI-F-6006
Design to Cost/Life Cycle	Cost Document	|	DI-F-30203
	Cost Estimate Analysis	|	DI-F-30208
Management Guidebook: Software	Cost Estimating Procedures	| Software Acquisition	AFSCM 173-1
Life Cycle	Cost Estimation and Measurement	|	ESD-TR-78-140
Input Data for Parametric	Cost Management Program	|	AFR 800-11
	Cost Model	|	DI-F-30207
	Cost Performance Report (CPR)	|	DI-F-6000A
Contract	Cost Performance, Funds Status and Cost/Schedule Status Reports (C )	|	DoDI 7000.10
Contract	Cost Principles and Procedures	|	ASPR Section XV
	Cost Report (Assignment Type Contract)	|	DI-A-5002
tation of Cost and Funds Under	Cost Type Contracts	| Limit	ASPR Sec. I, Pt. 20
	Cost Type Contracts with Commercial Organization	|	ASPR Sec. XV, Pt. 2

<p>Clauses for Design to Performance, Funds Status and Life Cycle</p> <p>Life Cycle Costing Guide for System Acquisition</p> <p>Costs of Information Requirements (C)</p> <p>Cpi, NRZI, with ANSI X3.22-1973</p> <p>Cpi, Phase Encoded (ANSI X3.39-1973)</p> <p>Information INTERCHANGE (1600)</p> <p>Cost/Schedule Control Systems Criteria (Joint Implementation Guide)</p> <p>Associated Equipment, Design and Human Engineering Design</p> <p>Numerical Index, Alphabetical Index, and The Nuclear Safety Contractor Cost Data Reporting (C/16L/PASR)</p> <p>Contract Funds Status Report (CFSR)</p> <p>Configuration Management Plan (CMP)</p> <p>COBOL</p> <p>COBOL</p> <p>Procedures for Federal Standard Federal</p> <p>Development, Test and Evaluation (COMSEC RDT&E) Procedures</p> <p>Communications Security (COMSEC) (U) (DTACCS)</p> <p>Program Configuration Item (CPCI) Development Test and Evaluation Test Report</p> <p>Program Configuration Item (CPCI) Test Plan/Procedures</p> <p>Cost Performance Report (CPR)</p> <p>Integrated Support Data (CRISD)</p> <p>ion Status Accounting System (CSAS) (DSD: D027)</p> <p>ion Status Accounting System (CSAS) (DSD: D027)</p> <p>s for Federal Standard COBOL (C13.52.29)</p> <p>Design to Cost Data</p> <p>Training Support Data</p> <p>Management of Contractor Data</p> <p>Management of Contractor Data</p> <p>Data Accession List/Internal Data</p> <p>Data Accession List/Internal Data</p> <p>Evaluation from Demonstration Data</p> <p>Requisitioning of Engineering Data</p> <p>aining Operations and Training Data</p> <p>d Computer Software Supporting Data</p> <p>Reporting of Quality Deficiency Data</p>	<p>Cost-Reimbursement Type Research and Development Contracts</p> <p>Cost/Life Cycle Cost Document</p> <p>Cost/Schedule Control Systems Criteria (Joint Implementation Guide)</p> <p>Cost/Schedule Status Report (C/SSR)</p> <p>Cost/Schedule Status Reports (C)</p> <p>Costing Guide for System Acquisition</p> <p>Costing Procurement Guide (Interim)</p> <p>Costs of Information Requirements (C)</p> <p>Cpi, NRZI, with ANSI X3.22-1973</p> <p>Cpi, Phase Encoded (ANSI X3.39-1973)</p> <p>Information INTERCHANGE (1600)</p> <p>Cost/Schedule Control Systems Criteria (Joint Implementation Guide)</p> <p>Criteria for</p> <p>Criteria for Military Systems, Equipments and Facilities</p> <p>Cross Reference Index, Equipment Numbers to Technical Orders</p> <p>Cross Reference Table Technical Orders</p> <p>Cross-Check Analysis and Certification Program for Weapon Systems Software</p> <p>CCDR (C/16L/PASR)</p> <p>CCDR System</p> <p>CPE vs CPE Selection Process</p> <p>CFSR</p> <p>CMP</p> <p>COBOL</p> <p>COBOL (C13.52.29)</p> <p>COBOL Compiler Testing Service (FCCIS) (C)</p> <p>COMSEC RDT&E Procedures</p> <p>COMSEC (U) (DTACCS)</p> <p>Development Test and Evaluation Test Report</p> <p>Test Plan/Procedures</p> <p>CRISD</p> <p>CSAS (DSD: D027)</p> <p>CSAS (DSD: D027)</p> <p>C13.52.29</p> <p>Cost Data</p> <p>Training Support Data</p> <p>Management of Contractor Data</p> <p>Management of Contractor Data</p> <p>Data Accession List/Internal Data</p> <p>Data Accession List/Internal Data</p> <p>Evaluation from Demonstration Data</p> <p>Requisitioning of Engineering Data</p> <p>aining Operations and Training Data</p> <p>d Computer Software Supporting Data</p> <p>Reporting of Quality Deficiency Data</p>	<p>ASPR Sec. VII, Pt. 4</p> <p>DI-F-30203</p> <p>AFSCP/AFLCP 173-5</p> <p>DI-F-6010</p> <p>DoDI 7000.10</p> <p>LCC 3</p> <p>LCC 1</p> <p>DoDI 5000.22</p> <p>FIPS Pub 3-1</p> <p>FIPS Pub 24</p> <p>FIPS Pub 25</p> <p>AFSCP/AFLCP 173-5</p> <p>MIL-STD-415D</p> <p>MIL-STD-1472B</p> <p>TO 0-4-6-1</p> <p>TO 0-1-01</p> <p>AFR 122-9</p> <p>DoDI 7000.11</p> <p>AFSCP/AFLCP 800-15</p> <p>AFR 800-22</p> <p>DI-F-6004A</p> <p>DI-E-3108</p> <p>ANSI X3.23-1968</p> <p>FIPS Pub 21-1</p> <p>FIPS Pub 29</p> <p>DoDI 7900.1</p> <p>AFR 80-7</p> <p>DoDD 5200.5</p> <p>DI-T-3717A</p> <p>DI-T-3703A</p> <p>DI-F-6000A</p> <p>DI-S-30369</p> <p>AFSCM 171-380</p> <p>AFSCM 800-380</p> <p>FIPS Pub 29</p> <p>DI-A-5345</p> <p>DI-H-3258A</p> <p>AFR 310-1</p> <p>AFSCR 310-1</p> <p>DI-A-3027</p> <p>DI-M-30416</p> <p>MIL-STD-757</p> <p>AFSCR/AFLCR 310-2</p> <p>MIL-STD-1379A</p> <p>DI-H-5077</p> <p>AFR 74-6</p>	<p>(Contract Cost</p> <p> Recorded Magnetic Tape for</p> <p> Flowchart Symbols and the</p> <p> Recorded Magnetic Tape for</p> <p> Test Provisions for Electronic S</p> <p> Equipment and Facilities</p> <p> Technical Orders</p> <p> Numerical</p> <p> Weapon Systems Softwar</p> <p> Co</p> <p> Co</p> <p> C</p> <p> Interpretation P</p> <p> Communications Security Res</p> <p> Compute</p> <p> Compute</p> <p> Computer Resou</p> <p> Configurat</p> <p> Configurat</p> <p> Interpretation Procedure</p> <p> Reliability</p> <p> Deferred</p> <p> Tr</p> <p> Revise</p> <p> R</p>
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Commercially Available Computer Data	C	DI-A-5027
Computer Program Timing and Sizing	Comp	DI-S-30568
Computer Resources Integrated Support	|Compute	DI-S-30569
Management of Technical Data (CRISD)		DoDI 5010.12
Acquisition of Technical Data and Copyrights		ASPR Sec. IX, Pt. 5
Rights in Technical and Other Data and Reports		ASPR Sec. IX, Pt. 2
System Modification Design Data and Reports		DI-E-3114
Acquisition and Management of Data for Follow-On Procurements		AFR 310-3
Input Data for Parametric Cost Model		DI-F-30207
Acquisition of Data from Contractors (I&L)		DoDI 5010.29
Safeguarding Personal Data in Automatic Data Processing Systems		AFR 300-13
Data Accession List/Internal Data		DI-A-3027
Data Accession List/Internal Data		DI-M-30416
Data Automation Agency		AFR 23-40
Air Force Data Base Configuration Item(s)	|Computer Soft	DI-E-30145
Computer Program/Computer Visual		DI-E-30150
Data Base Description Document		DI-E-30106
Data Base Specification (DS)		DoDD 5000.12
Data Elements and Data Codes Standardization Procedures (C)		DoDD 5000.11
Data Elements and Data Codes Standardization Program (C)		RADC-TR-74-300, V.IX
Management Data Collection and Reporting		FIPS Pub 18-1
Parity Sense for Parallel-by-bit Data Communication in the Code for Information Character Structure and Character		FIPS Pub 17-1
Parity Sense for Serial-by-bit Data Communication in the Code for Information Character Structure and Character		FIPS Pub 22-1
Relationships Between Data Terminal and Data Communication Equipment	|Synchronous Signaling R	AFR 67-28
Engineering Data Distribution and Control		MIL-STD-1388/2
Logistic Support Analysis Data Element Definitions		AFM 300-4, V.1-13
Data Elements and Codes		DoDD 5000.12
Data Elements and Data Codes Standardization Procedures (C)		DoDD 5000.11
Data Elements and Data Codes Standardization Program (C)		AFR 300-5
Standardization of Data Elements and Related Features	|C	MIL-STD-482A
Configuration Status Accounting Data Elements and Related Features		DoDD 5000.18
Implementation of Standard Data Elements and Related Features (C)		FIPS Pub 28
Standardization of Data Elements and Representations		DI-A-3022
Contract Data Management Plan		MIL-STD-885B
Procurement Data Packages		DI-F-30202
Automatic Data Processing (ADP) Manpower and Cost		AFM 300-6
Automatic Data Processing (ADP) Resource Management		DoDD 5200.28
Automatic Data Processing (ADP) Systems (C)	|Secur	OMB Circular A-171
Automatic Data Processing Activities	|Responsibility for the Administr	DoDI 4105.65
Automatic Data Processing Computer Program and Related Services (C)		ASPR Sec. III, Pt. 11
Automatic Data Processing Equipment		DI-L-30309
Automatic Data Processing Equipment (ADPE) Cost and Utilization		DoD 4160.19-M
Automatic Data Processing Equipment Reutilization Manual		DoDD 4160.19
Automatic Data Processing Equipment Reutilization Program (C)		DoDI 4140.38
Automatic Data Processing Management Information System (ADP/MIS) (C)		DI-M-5095
Automatic Data Processing Package Manuals		DI-H-5068
Automatic Data Processing Packages for Procedural Languages (Software)		

Guidelines for Automatic	Data Processing Physical Security and Risk Management	FIPS Pub 31
Automatic	Data Processing Planning Concepts	AFR 300-7
Illustration of the DoD Automatic	Data Processing Program (C)	DoDD 5100.40
Automatic	Data Processing Program Management	AFR 300-1
n, and Management of Automatic	Data Processing Resources	DIAI 65-1
n and Acquisition of Automatic	Data Processing Resources (C)	DoDD 4105.55
Management of Automatic	Data Processing Systems	AFR 300-2
cedures for Managing Automatic	Data Processing Systems	AFM 300-12, V. 1-2
ing Personal Data in Automatic	Data Processing Systems	AFR 300-13
cedures for Managing Automatic	Data Processing Systems (ADPS)	AFR 300-12, V. 1-2
ity Requirements for Automatic	Data Processing Systems (ADPS)	AFR 300-8
Automatic	Data Processing, Planning, Programming, and Budgeting Information System	AFR 300-3
Contractor Cost	Data Reporting (CDR) (C/IGL/PA&E)	DoDI 7000.11
Contractor Cost	Data Reporting (CDR) System	AFSCP/AFLCP 800-15
Reliability, Maintainability	Data Reporting and Feedback Failure Summary Reports	DI-R-3537A
Directory of DoD Engineering	Data Repositories	MIL-HDBK 331B
ision Management Systems and	Data Requirements Control List (AMSDL)	DoDD 5000.19-1, V. II
ision Management Systems and	Data Requirements Control Program (C)	DoDI 5000.32
	Data Requirements Document (RD)	DI-F-30105
Engineering	Data Service Center	AFR 12-41
Air Force	Data Services Center	AFR 23-41
	Data Structuring Study	PADC-TR-74-300, V. IV
Cost	Data Summary Report (DD Form 1921)	DI-F-6006
The Defense Integrated	Data System (DIDS)	AFR 400-42
The Defense Integrated	Data System (DIDS) (I&L)	DoDD 4100.39
Management of Automated	Data System (DIDS) Procedures Handbook X	DoD 4100.39-H
DoD Automated	Data System Development (C)	DoDI 5010.27
DoD Automated	Data System Documentation Standards (C)	DoDI 4120.17
Automated	Data System Documentation Standards Manual	DoD 4120.17-M
omputer Programs and Automated	Data System Project Management	AFR 300-15
omputer Programs and Automated	Data Systems	FIPS Pub 30
Automatic	Data Systems	FIPS Pub 38
Air Force	Data Systems (ADS) Standards	AFM 171-100, V. 1-4
DoD Automated	Data Systems Design Center (AFDSDC)	AFR 23-42
B3500 (Phase II)	Data Systems Documentation Standards (C)	DoDI 7935.1
onous Signaling Rates Between	Data Systems Publications	AFR 5-12
n Interchange in Serial by Bit	Data Terminal and Data Communication Equipment	FIPS Pub 22-1
Patents,	Data Transmission	FIPS Pub 16-1
ed by or for the Department of	Data, and Copyrights	ASPR Section IX
t Systems of the Department of	Defense	MIL-STD-847A
Assistant Secretary of	Defense (Comptroller) (C)	DoDD 7000.1
Functions of the Department of	Defense and its Major Components (C)	DoDD 5118.3
(AMSDL)	Defense Acquisition Executive (DDR&E)	DoDD 5100.1
	Defense Acquisition Management Systems and Data Requirements Control List	DoDD 5000.30
	Defense Communications Agency (DCA) (DIACCS)	DoDD 5000.19-1, V. II
		DoDD 5105.19

Department of	Defense Computer Institute (DODCI) (C)	DoDD 5160.49
Department of	Defense Directive System	DoDD 5025.1
	Defense Documentation Center for Scientific and Technical Information	AFR 80-44
DC (DDR&E)	Defense Documentation Center for Scientific and Technical Information (D)	DoDI 5100.38
g |	Defense Index of Specifications and Standards - Part II, Numerical Listin	(DoDISS Part II)
ing |	Defense Index of Specifications and Standards - Part I, Alphabetical List	(DoDISS Part I)
	Defense Integrated Data System (DIDS) Procedures Handbook X	DoD 4100.39-H
	The Defense Integrated Data System (DIDS) (I&L)	DoDD 4100.39
	The Defense Integrated Data System (DIDS)	AFR 400-42
ications |	Defense Intelligence Agency (DIA) and Specialized USAF Intelligence Publ	AFR 0-15
	Defense Intelligence Agency Publications System (I)	DoDI 5025.10
	Defense Management Review and Improvement Program (I&L)	DoDD 5010.28
	Defense Materiel Items	DI-E-5037
Work Breakdown Structures for	Defense Materiel Items	MIL-STD-881A
Work Breakdown Structures for	Defense Materiel Items	AFR 800-17
Breakdown Structure (WBS) for	Defense Materiel Items (DDR&E)	DoDD 5010.20
Work Breakdown Structures for	Defense Procurement Management Review Program	AFR 20-13
	Defense Standardization Program (DSP)	AFR 73-1
Department of	Defense Standardization Program (I&L)	DoDD 4120.3
	Defense Supply Agency Publications	AFR 5-9
	Defense Supply Agency Publications (C)	DoDI 5025.7
	Defense Systems	AFR 800-3
Engineering of	Defense Systems (DDR&E)	DoDD 4105.62
Contractual Sources for Major	Defense Systems (I&L)	DoDD 5000.29
of Computer Resources in Major	Defense, Joint Chiefs of Staff, & Interservice Publications and Air Force	AFR 0-4
Acquisition Do | Department of	Deferred Requisitioning of Engineering Data	AFSCR/AFLCR 310-2
	Deficiency Data	AFR 75-6
Reporting of Quality	Deficiency Reporting, Investigation and Resolution During Systems Acquisi	AFSCR 66-71
	Definition and Evaluation of Merit in Spaceborne Systems	SAMSO-TR-68-268
	Definition of Terms	ASPR Sec. 1, Pt. 2
	Definitions	MIL-STD-109B
Quality Assurance Terms and	Definitions	MIL-STD-1388/2
Support Analysis Data Element	Definitions	DoDI 5000.33
Uniform Budget/Cost Terms and	Definitions of Effectiveness Terms for Reliability, Maintainability, Huma	MIL-STD-721B
n Factors and Safety |	Definitions of Terms for Test, Measurement and Diagnostic Equipment	MIL-STD-1309A
	Delivery Documentation	DI-A-30001
Software	Demonstration	MIL-STD-471A
Maintainability	Demonstration Data	MIL-STD-757
Reliability Evaluation from	Demonstration Plan	DI-R-3538
Reliability/Maintainability	Demonstration Reports	DI-R-3544
Maintainability Assessment and	Demonstrations	DI-A-3029
iews, Configuration Audits and	Department of Defense	MIL-STD-847A
Reports Prepared by or for the	Department of Defense (C)	DoDD 7000.1
urce Management Systems of the	Department of Defense and its Major Components (C)	DoDD 5100.1
	Functions of the	DoDD 5000.19-B, V, II
s Control List (AMSDL ) |	Department of Defense Acquisition Management Systems and Data Requirement	DoDD 5160.49
	Department of Defense Computer Institute (DODCI) (C)	

alphabetical Listing |	Department of Defense Directive System	DoDD 5025.1
alphabetical Listing |	Department of Defense Index of Specifications and Standards - Part I, Alp	(DoDISS Part I)
	Department of Defense Index of Specifications and Standards - Part II, Nu	(DoDISS Part II)
	Department of Defense Management Review and Improvement Program (I&L)	DoDD 5010.28
	Department of Defense Standardization Program (I&L)	DoDD 4120.3
and Air Force Acquisition D |	Department of Defense, Joint Chiefs of Staff, & Interservice Publications	AFR 0-4
	Numerical Index of	AFR 0-9
indexes, Catalogs, and Lists of	Departmental Publications	AFR 0-1
Software Summary for	Describing Computer Programs and Automated Data Systems	FIPS Pub 30
Guidelines for	Describing Information Interchange Formats	FIPS Pub 20
Computer Software Technical	Description	DI-H-5256
Chief Programmer Team Operation	Description	DI-E-30104
Functional	Description (FD)	RADC-TR-74-300, V.X
General	Description of the Federal Information Processing Standards Register	FIPS Pub 0
Visual Data Base	Description Document	DI-E-30150
Version	Description Document (Computer Programs)	DI-E-3121
Applications (Including Purchase	Description)	DI-A-3013
Application in Computer-Aided	Design and Computer-Aided Manufacturing |Standards and Specifications for	MIL-STD-960
practices for Computer Software	Design and Development	SAMSO, Exhibit 73-3
	Design to Cost (DDR&E)	DoDD 5000.28
	Design to Cost Data	DI-A-5345
	Design to Cost/Life Cycle Cost Document	DI-F-30203
	Design Analysis Report	DI-S-3581
	Design Approach Document	DI-H-3261A
	Design Center (AFSDDC)	AFR 23-42
	Design Criteria for	MIL-STD-415D
tems and Associated Equipment,	Design Criteria for Military Systems, Equipments and Facilities	MIL-STD-1472B
Human Engineering,	Design Data and Reports	DI-E-3114
System Modification	Design Disclosure for Systems and Equipment	MIL-HDBK 226
	Design Handbook Changes	DI-E-3138
	Design Handbooks	AFSCR 8-4
	Design Manual	AFSCM 122-1
	Design Plan	DI-H-5074B
	Design Plan	DI-H-5202
	Design Reviews, Configuration Audits and Demonstrations	DI-A-3029
	Design Study	RADC-TR-74-300, V.VIII
	Design (Design)	DI-E-7013A
	Design-to-Cost Guide	AFSCP/AFLCP 800-19
	Detail Specification	DI-E-30102
	Determinations and Findings	ASPR Sec. III, Pt. 3
	Developed	DI-E-5384
ional Specification Contractor	Development	AFSCM 80-5
Guide for Advanced	Development	AFR 80-1
Air Force Research and	Development	AFR 177-13
Accounting for Research and	Development	AFR 80-2
ment of Air Force Research and	Development	AFR 80-53
on of Independent Research and	Development	

r Computer Software Design and	Development	| Standard Engineering Practices f	SAMSO Exhibit 73-3
ement of Automated Data System	Development (C )	| Manag	DodI 5010.27
Management Guidebook: Software	Development and Maintenance Facilities	| Software Acquisition	ESD-TR-77-130
gram for Systems and Equipment	Development and Production	| Reliability Pro	MIL-STD-785A
	Development and Use of Non-Government Specifications and Standards (I&L)		DodI 4120.20
	Development of Space Systems (DDR&E)		Dodd 5160.32
	Development Center		ESDR 23-4
	Development Computer Software		DI-E-30149
	Development Contracts	| Clauses for Cost-R	ASPR Sec. VII, Pt. 4
	Development Contracts	| Clause	ASPR Sec. VII, Pt. 3
	Development Design	| Drawings, Engineering and Associ	DI-E-7013A
	Development Labs	| Management of A	AFR 80-3
	Development Milestones		SSD Exhibit 61-47B
	Development Plan		DI-S-30567
	Development Plan (HFDP)		DI(U)-E-730/ESD
	Development Planning	| Per	DI-H-3251
	Development Procedures		AFSCR 80-2
	Development Programs		AFSCR 80-21
	Development Report		DI-M-3413
	Development Specification		DI-S-3582
	Development Specification		DI-E-3119A
	Development Specification		DI-E-30113
	Development Specification		DI-E-30139
	Development Specification		DI-E-3102A
	Development Status	| An Air Force	ESD-TR-78-139
	Development Technology Program Plans	| An Air Force Guide to Mon	ESD-TR-75-85
	Development Technology Programs		AFSCR 80-1
	Development Test and Evaluation Test Report	| Computer Prog	AFSCR 80-19
	Development Tests	| Test Plan/Proced	DI-T-3717A
	Development (Development)		MIL-STD-2068
	Development, Acquisition and Implementation		DI-T-30701
	Development, Selection and Application of Management Control Systems		AFR 300-12, V.1
	Development, Test and Evaluation (COMSEC RDT&E) Procedures	| ( C) Com	AFR 600-1
	Development, Test and Evaluation (RDT&E) Forward Financing		AFR 80-7
	Deviation/Waiver		AFSCR 172-9
	Deviations and Waivers (Short Form)		DI-E-3129
	Deviations, and Waivers	| Configuration	MIL-STD-481A
	Diagnostic Equipment	| Configuration	MIL-STD-480
	Diagrams	| Definitions of T	MIL-STD-1309A
	Diagrams		DI-S-3604
	Dictionary for Information Processing		DI-S-3607
	Digital Computation Systems for Real-time Training Simulators		FIPS Pub 11-1
	Digital Computer Program Documentation		MIL-STD-876A
	Digital Network (Autodin) Operating Procedures		WS-8506 Rev. 1
	Digital Systems Documentation Standards		JANAP 128
			SECNAVINST 3560.1

ions and Air Force Acquisition Documents |Department of Defense, Joint Chi
 bution Statements on Technical Documents (DDR&E) |Distri
 Do's and Don'ts of Air Force Research and Development
 Interim List of DoD (DDR&E) |Administration and Su
 for the Administration of the DoD Acquisition Management Systems and Data Requirements Control Program
 Lies Assigned to DSA Under the DoD Approved High Order Programming Languages (HOL) (I&L/DDR&E/DIACCS)
 pecifications and Standards to DoD Automated Data System Documentation Standards (C)
 and Registration for Access to DoD Automated Data System Documentation Standards Manual
 pport Implementation Guide for DoD Automated Data Systems Documentation Standards (C)
 Engineering DoD Automatic Data Processing Equipment Reutilization Manual
 Engineering DoD Automatic Data Processing Program (C) |Responsibility
 Specifications, Plans and DoD Automatic Data Processing Program (RC)|Implementing Procedures for Purc
 Acquisition of Engineering DoD Coordinated Procurement Program (RC)|
 Acquisition of Engineering DoD Directives System
 lopment Design) | DoD Engineering Data Repositories
 efense Communications Agency (DoD Procurements |Application of Military S
 ted Procurement Program (RCS: DoD Scientific and Technical Information |Certification
 nit Information System, (RCS: DoD Systems and Equipment |Integrated Logistics Su
 ic and Technical Information (DoD Value Engineering Program (I&L)
 Design to Cost (Drawing Change System
 Test and Evaluation (Drawing Practices
 Configuration Management (Drawing Practices
 Major System Acquisitions (Drawing System
 Control, and Communications (Drawings
 efense Acquisition Executive (Drawings
 es for Major Defense Systems (Drawings
 ic and Technical Information (Drawings
 ment Implementation Guidance (Drawings
 ments on Technical Documents (Drawings
 of Basic Research by the DoD (Drawings
 r System Acquisition Process (Drawings
 s for Defense Materiel Items (Drawings
 Development of Space Systems (Drawings

AFR 0-4
 DoDD 5200.20
 AFR 80-2
 AFP 70-1
 DoDD 3210.1
 DoDI 5000.32
 DoDI 5000.31
 DoDI 4120.17
 DoD 4120.17-M
 DoDI 7935.1
 DoD 4160.19-M
 DoDD 4160.19
 DoDD 5100.40
 AFR 70-17
 DoD 5025.1-1
 MIL-HDBK 331B
 AFSCR 800-25
 AFR 80-39
 AFP 800-7
 DoDD 5010.8
 AFR 81-11
 MIL-STD-100B
 AFR 81-10
 DI-E-30148
 DI-E-30148
 ASPR Sec. 1, Pt. 12
 AFSCR/AFSCR 800-8
 DoD-D-1000B
 DI-E-7013A
 DoDD 5105.19
 AFR 70-17
 AFSCM 171-390, V.1-2
 DoDI 5100.38
 DoDD 5000.28
 DoDD 5000.3
 DoDD 5010.19
 DoDD 5000.1
 DoDD 4630.5
 DoDD 5000.30
 DoDD 4105.62
 DoDI 5200.21
 DoDI 5010.21
 DoDD 5200.20
 DoDD 3210.1
 DoDD 5000.2
 DoDD 5010.20
 DoDD 5160.32

Technical Information (DDC) (DDR&E) | Defense Documentation Center for
 Index of DIA Administrative Publications |
 Defense Intelligence Agency (DIA) and Specialized USAF Intelligence Publications |The De
 fense Integrated Data System (DIDS) |The De
 fense Integrated Data System (DIDS) (I&L) |De
 fense Integrated Data System (DIDS) Procedures Handbook X |Department o
 f Defense Computer Institute (DODDCI) (C)
 Data Base Specification (DS)
 Purchase of Supplies Assigned to DSA Under the DoD Coordinated Procurement |Implementing Procedures for Pu
 Information System (MASIS) (DSD: B458) (RCS: SYS-DL(AR)7501) |AFSC Management and Scientific
 us Accounting System (CSAS) (DSD: D027) |Configuration Stat
 us Accounting System (CSAS) (DSD: D027) |Configuration Stat
 Configuration System (ARCS) (DSD: G299(RY)) |AFSC Aerospace Resources and
 ense Standardization Program (DSP) |Def
 ecommunications Requirements (DTACGS) |Programming of Major Tel
 ions Security (COMSEC) (U) (DTACGS) |Communicat
 ad Control Systems (WMMCS) (DTACGS) |World-Wide Military Command a
 Communications Agency (DCA) (DTACGS) |Defense
 counting System (CSAS) (DSD: D027) |Configuration Status Ac
 counting System (CSAS) (DSD: D027) |Configuration Status Ac
 Economic Analysis and Program Evaluation for Resource Management (C)
 Effectiveness Program Plan
 Effectiveness Terms for Reliability, Maintainability, Human Factors and S
 Electrical Record Communications |Qu
 Electronic Equipment
 Electronic Systems
 Electronic Systems and Associated Equipment, Design Criteria for
 Electronic Systems Division
 Electronic Systems Division
 Electronic Systems Test and Evaluation
 Electronics Terminology
 Element Definitions
 Emanations Security Publications |USA
 Encoded) (ANSI X3.39-1973) |Flowchart Symbols and their Usag
 Encoded) (ANSI X3.39-1973) |Recorded Magnetic Tape for Infor
 End Item
 Engineering
 Engineering
 Engineering (C)
 Engineering and Associated Lists
 Engineering and Associated Lists, Level 1 (Conceptual and Development De
 Engineering and Management
 Engineering and Technical Services
 Engineering and Technical Services Management and Control
 Engineering of Defense Systems
 Engineering of Quality Software Systems
 System/Cost
 Definitions of Management of
 Reliability Prediction of
 Reliability Assurance Management for
 Test Provisions for
 Communications
 Logistic Support Analysis Data
 F Communication's Security and
 INTERCHANGE (1600 Cpi, Phase
 INTERCHANGE (1600 Cpi, Phase
 Computer Software
 Value
 System Security
 Budget Guidance for Value
 Drawings,
 Drawings,
 Human Factors
 ASPR Sec. XXII, Pt. 3
 AFM 66-18
 AFR 800-3
 RADG-TR-74-325

Configuration Control -	Engineering Change Proposals (ECPs)	DI-F-3128
Configuration Control -	Engineering Changes, Deviations and Waivers (Short Form)	MIL-STD-481A
Deferred Requisitioning of	Engineering Changes, Deviations, and Waivers	MIL-S-10-480
	Engineering Data	AFSCR/AFLCR 110-2
	Engineering Data Distribution and Control	AFR 67-28
Directory of DoD	Engineering Data Repositories	MIL-HDBK 331B
	Engineering Data Service Center	AFR 12-41
Human	Engineering Design Approach Document	DI-H-3261A
Human	Engineering Design Criteria for Military Systems, Equipments and Facilities	MIL-STD-1472B
Subsystem	Engineering Development Report	DI-S-3582
Automated	Engineering Documentation Preparation System	MIL-STD-35C
	Engineering Drawing Change System	AFR 81-11
	Engineering Drawing Practices	MIL-STD-100B
	Engineering Drawing System	AFR 81-10
	Engineering Drawings	DI-E-30148
Acquisition of	Engineering Drawings and Associated Lists	AFSCR/AFLCR 800-8
	Engineering Management	MIL-STD-499A(USAF)
System	Engineering Management Plan (SEMP)	DI-S-3618
Standard	Engineering Practices for Computer Software Design and Development	SAMSO Exhibit 73-3
Air Force Value	Engineering Program	AFR 320-1
DoD Value	Engineering Program (I&L)	DoDD 5010.8
Value	Engineering Program Requirements	MIL-V-38352
Human	Engineering Requirements for Military Systems, Equipment and Facilities	MIL-H-46855A
Air Force	Engineering Responsibility for Systems and Equipment	AFSCR/AFLCR 80-17
in the Competitive Procurement	Engineering Responsibility for Systems and Equipment	FIPS Pub 42-1
Environment	Guidelines for Benchmarking ASDP	AFR 800-12
Acquisition of Support	Equipment	AFR 800-8
(ILS) Program for Systems and	Equipment	FIPS Pub 22-1
terminal and Data Communication	Equipment	MIL-HDBK 226
Sign Disclosure for Systems and	Equipment	MIL-HDBK 217B
ility Prediction of Electronic	Equipment	ASPR Sec. III, Pt. 11
n of Automatic Data Processing	Equipment	MIL-STD-1309A
st, Measurement and Diagnostic	Equipment	AFR 800-7
tion Guide for DoD Systems and	Equipment	AFR 800-21
tractor Support of Systems and	Equipment	AFSCR/AFLCR 80-17
Responsibility for Systems and	Equipment	DI-L-30309
Automatic Data Processing	Equipment (ADPE) Cost and Utilization	MIL-H-46855A
irements for Military Systems,	Equipment and Facilities	DI-A-5398
ation of Changes to Commercial	Equipment and Software	DoDD 4630.5
mpatibility and Commonality of	Equipment for Tactical Command and Control, and Communications (DDR&E)Co	DI-H-3277
Training	Equipment Computer Program Documentation	MIL-STD-785A
bility Program for Systems and	Equipment Development and Production	DI-M-5091
Computer Test	Equipment Manual	DI-M-5085
ercial Computer and Peripheral	Equipment Manuals	TO 0-4-6-1
merical Cross Reference Index,	Equipment Numbers to Technical Orders	DI-M-5110A
ommerical Computer & Ancillary	Equipment Programming Aids (Software) & Manuals	DoD 4160.19-N
DoD Automatic Data Processing	Equipment Reutilization Manual	

DoD Automatic Data Processing System or	Equipment Reutilization Program (C)	DoDD 4160.19
Reviews and Audits for Systems, Equipment, and Munitions	Equipment Turnover	AFR 800-19
Programs for Systems, Subsystems, Equipment, and Munitions	Equipment, and Computer Programs	MIL-STD-1521A(USAF)
Electronic Systems and Associated Equipment, Design Criteria for	Reliability and Maintainability	AFR 80-5
Management Practices for Systems, Equipment, Munitions and Computer Programs	Test Provisions for Ele	MIL-STD-415D
and Associated Subsystems and Equipment, Requirements for	Configuration Man	MIL-STD-483(USAF)
Criteria for Military Systems, Equipment, Requirements for	Human Engineering Design	MIL-STD-882
Requirements (for Systems and Equipment)	Human Engineering Design	MIL-STD-1472B
Cost Estimate Analysis	Maintainability Program	MIL-STD-470
Guide to Estimating Costs of Information Requirements (C)		DI-F-30208
Estimating Instructions		DoDI 5000.22
Estimating Procedures		AFM 172-1, V.2
Estimating Software Program Resource Requirements		AFSCM 173-1
Estimation and Measurement		RADC-TR-74-300, V.XI
Estimation and Evaluation	Software Acquisition Manag	ESD-TR-78-140
Electronic Systems Test and Evaluation		AFR 80-14
Research, Development, Test and Evaluation (CONSEC RDI&E) Procedures	((C) Communications Security R	AFSC DH 4-2
Test and Evaluation (DDR&E)		AFR 90-7
Personnel Subsystem Test and Evaluation (PSTE) Plan		DoD 5000.3
Research, Development, Test and Evaluation (RDI&E) Forward Financing		DI-H-3272
Federal Computer Performance Evaluation and Simulation Center		AFSCR 172-9
Economic Analysis and Program Evaluation for Resource Management (C)		AFR 23-43
Reliability Evaluation from Demonstration Data		DoDI 7041.3
Technical Evaluation of a Contractor's Quality Program		MIL-STD-757
Definition and Evaluation of Independent Research and Development		MIL-HDBK 50
Air Force Test and Evaluation Center (AFTEC)		AFR 80-53
AFSC Procurement Evaluation Needs/Exercise Requirements Analysis		SAMSO-TR-68-268
Computer Software Test and Evaluation Report		AFR 23-36
Management (CPCI) Development Test and Evaluation Test Report	(Computer Program Configuration I	DI-H-3267
Life Cycle Information Events	Software Acquisition Ma	AFSCR 70-7
Defense Acquisition Executive (DDR&E)		DI-T-51628
Funds Exchange Planning Guidance (FOUO)		DI-T-3717A
Procurement of Expert or Consultant Services		ESD-TR-77-22
Test Plan/Procedures (Reliability Tests Code		JCSP 12, V.I
Reliability Tests Code		DoDD 5000.30
Ability Implementation Plan (ECPs)		DI-H-3270A
Engineering Change Proposals (ECPs)		DI-A-5001A
Local and Functional Indexes of		ASPR Sec. XXII, Pt. 2
		DI-T-30701
		AFSCR 80-21
		MIL-STD-781B
		FIPS Pub 35
		DI-H-3270A
		DI-E-3128
		ESDR 5-3
		ESDR 0-9

Publication of Numerical Index of Configuration Item Product Military Systems, Equipment and Military Systems, Equipments and Development and Maintenance Representation at Contractors' Ability, Maintainability, Human Personnel Subsystem/Human Human ty Data Reporting and Feedback Relations with General Description of the Interpretation Procedures for Maintainability Data Reporting and Information (QOPRI), Part I: f the Air Force Accounting and Program Control - Management Control Systems and Evaluation (RDI&E) Forward Determinations and al Progress Chart (Other than Clauses for Functional Computer Software Computer Program ion and Management of Data for ent of Systems Acquisition for Cost Data Summary Report (DD Deviations and Waivers (Short Minutes of , Technical, General Style and or the Department of Defense)	ESD Management Information and Control System ESD Procurement and Production Directives, Letters, and Forms ESD Publications ESD Quality Assurance Management Fabrication Specification Facilities Facilities Facilities Facilities (I&L) Facilities Requirements Plan Facility Requirements Document (IFRD) Factors and Safety Factors Development Plan (HFDP) Factors Engineering and Management Failure Rate Sampling Plans and Procedures Failure Summary Reports Federal Computer Performance Evaluation and Simulation Center Federal Contract Research Centers and Management Support Contractors Federal COBOL Compiler Testing Service (FCCTS) (C) Federal Information Processing Standards Index Federal Information Processing Standards Register Federal Standard COBOL (C13.52.29) Feedback Failure Summary Reports Field and Organization Maintenance Final Report Final Test Report Finance System Financial Financial Reporting on Selected Acquisitions Financial Reporting on Selected Acquisitions Findings Fixed Price Contracts) Flow Diagrams Flowchart Symbols and their Usage in INTERCHANGE (1600 Cpi, Phase Encode Flowchart Symbols for Information Processing Flowchart(s) Standards Flowcharts Follow-up on Reports of Audit Follow-On Procurements Foreign Military Service Form 1921) Form) Formal Reviews, Inspections and Audits Format Requirements Format Requirements for Scientific and Technical Reports Prepared by or f	ESDM 178-1 ESDR 70-4 ESDR 0-2 ESDR 74-2 DI-E-3103A MIL-H-46855A MIL-STD-1472B ESD-TR-77-130 DoDI 4105.64 DI-S-3553 DI-T-3729A MIL-STD-721B DI-H-3251 AFR 800-15 MIL-STD-690B DI-R-3337A AFR 23-43 AFSCR 11-17 DoDI 7900.1 FIPS Pub 12-2 FIPS Pub 29 DI-R-3337A DI-H-3253 RADC-TR-74-300, V. XIII DI-T-3716A AFM 177-100 AFR 800-6 AFSCR 70-11 AFSCR 172-9 ASPR Sec. III, Pt. 3 DI-A-5016 ASPR Sec. VII, Pt. 3 DI-S-3604 FIPS Pub 24 ANSI X3.5-1966 DI-H-5201 DI-E-30111 AFR 175-2 AFR 310-3 AFR 800-18 DI-F-6006 MIL-STD-481A DI-E-3118 MIL-N-38784A MIL-STD-847A
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Resource Manager's Handbook
 Positional Handbook - Information System Operational Personnel
 AFSC Design Handbook Changes
 Data System (DIDS) Procedures Handbook X
 AFSC Design Handbooks
 Military Standards and Military Handbooks
 (Index of Publications, Handbooks, Manuals, and Regulations)
 Interim List of DoD Approved High Order Programming Languages (HOL) (I&L/DDR&E/DIACCS) (C)
 cilities| Human Engineering Design Approach Document
 ties| Human Engineering Design Criteria for Military Systems, Equipments and Facilities
 Reliability, Maintainability, Human Engineering Requirements for Military Systems, Equipment and Facilities
 Human Factors and Safety |Definitions of Effectiveness Terms
 Human Factors Engineering and Management
 Human Operator/Critical Tasks Analysis Report
 (HFDP)
 Order Programming Languages (HOL) (I&L/DDR&E/DIACCS) (C)
 ractices (Accounting for R&D) - H096/OY
 ces in Major Defense Systems (I&L)
 ense Standardization Program (I&L)
 ical Manual (IM) Management (I&L)
 ion of Data from Contractors (I&L)
 n at Contractors' Facilities (I&L)
 ns and Standards Application (I&L)
 on Single Manager Operations (I&L)
 od Value Engineering Program (I&L)
 r Major Acquisition Programs (I&L)
 tegrated Data System (DIDS) (I&L)
 urement Regulation Committee (I&L)
 view and Improvement Program (I&L)
 Management of Technical Data (I&L)
 Specifications and Standards (I&L)
 Programming Languages (HOL) (I&L/DDR&E/DIACCS) (C)
 Software Tool
 , Development, Acquisition and Implementation
 Standards|
 Configuration Management
 Integrated Logistics Support
 Control Systems Criteria (Joint Implementation Guide for DoD Systems and Equipment
 Exercising Capability Implementation Plan (ECIP)
 Test and Implementation Plan (PT)
 Computer Security Guidelines for Implementing the Privacy Act of 1974
 A Guide for Program Managers: Implementing Integrated Logistics Support
 e DoD Coordinated Procurement| Implementing Procedures for Purchase of Supplies Assigned to DSA Under the
 Defense Management Review and Improvement Program (I&L)

AFM 178-6
 DI-M-3409
 DI-E-3138
 DoD 4100.39-H
 AFSCR 8-4
 MIL-STD-962
 DLA Handbook 5025.1
 DoDI 5000.31
 DI-S-3385
 DI-H-3261A
 MIL-STD-1472B
 MIL-H-46855A
 MIL-STD-721B
 AFR 800-15
 DI-H-7012
 DI-H-3251
 DoDI 5000.31
 AFSCM 171-265
 DoDD 5000.29
 DoDD 4120.3
 DoDI 4151.9
 DoDI 5010.29
 DoDI 4105.64
 DoDD 4120.21
 DoDI 4100.31
 DoDD 5010.8
 DoDI 4140.41
 DoDD 4100.39
 DoDI 5126.3
 DoDD 5010.28
 DoDI 5010.12
 DoDI 4120.20
 DoDI 5000.31
 RADC-TR-74-300, V. XIV
 AFR 300-12, V.1
 FIPS Pub 7
 DoDD 5000.18
 DoDI 5010.21
 AFP 800-7
 AFSCP/AFCLP 173-5
 DI-H-3270A
 DI-T-30703
 FIPS Pub 41
 AFSCP 800-21
 AFR 70-17
 DoDD 5010.28

|Defense Integrated
 |Outline of Forms and Instruction
 | I&L/DDR&E/DIACCS) (C)
 |Personnel Subsystem/Human
 |Interim List of DoD Approved High
 |Acquisition of R&D Services
 |Management of Computer Resources
 |Department of Defense
 |Techn
 |Acquisit
 |Technical Representatio
 |Specificatio
 |Reports
 |D
 |Government-Owned Materiel Assets
 |The Defense In
 |Armed Services Proc
 |Department of Defense Management
 |Development and Use of Non-Gover
 |Interim List of DoD Approved High
 |Documentation
 |Information Interchange and Related Media
 |Related Features (C)
 |Cost/Schedule Co
 |Co
 |Department of
 |Supplies Assigned to DSA Under the
 |Department of

Management of Air Force Specifications (	In-House Research and Development Labs Including Purchase Description) Independent Cost Analysis Program Independent Research and Development Index	AFR 80-3 DI-A-5013 AFR 173-11 AFR 80-53 DI-E-3122
Technical Evaluation of Configuration Standards	Index of Administrative Publications	FIPS Pub 12-2
Formation Processing Standards	Index of AFSC Publications	DA PAM 310-1
Military Publications	Index of AFSC Publications	AFLCR 0-2
Numerical	Index of Command Forms	AFSCR 0-2
Numerical and Functional	Index of Departmental Forms	AFSCR 0-9
Numerical	Index of Doctrinal, Training, and Organizational Publications	AFR 0-9
Military Publications	Index of DIA Administrative Publications	DA PAM 310-3
Numerical	Index of ESD Publications	DIAR 0-2
(	Index of National Aerospace Standards - Part I, Numerical Listing	ESDR 0-2
(	Index of National Aerospace Standards - Part II, Alphabetical Listing	(NASI Index Part I)
Department of Defense	Index of OMB Circulars)	(NASI Index Part II)
Department of Defense	Index of Publications, Handbooks, Manuals, and Regulations)	(OMB Index)
Numerical and Subjective	Index of Specifications and Standards - Part I, Alphabetical Listing	DLA Handbook 5025.1
, 8, a) Military Publications,	Index of Standard Publications and Recurring Periodicals	(DoDISS Part I)
(A Major	Index of Technical Manuals, Technical Bulletins, Supply Manuals (types 7	(DoDISS Part II)
Numerical Index, Alphabetical	Index to Navy Publications)	AFR 0-2
Numerical Cross Reference	Index, and Cross Reference Table Technical Orders	DA PAM 310-4
Numerical and Functional	Index, Alphabetical Index, and Cross Reference Table Technical Orders	NAVSUP 2002
Guide to	Indexes, Equipment Numbers to Technical Orders	TO 0-1-01
Output/Measurement/Management	Indexes of ESD Forms	TO 0-1-01
de for Monitoring Contractors'	Indexes, Catalogs, and Lists of Departmental Publications	TO 0-4-6-1
s for Acquiring Commercial and	Indicator Systems	ESDR 0-9
Do's and Don'ts of Air Force	Indirect Cost	AFR 0-1
o DoD Scientific and Technical	Industry Products and Services for Government Use	AFR 178-4
r for Scientific and Technical	Industry Relations	AFP 70-21
s for Scientific and Technical	Information	OMB Circular A-76
r for Scientific and Technical	Information	AFP 70-1
ss to Scientific and Technical	Information (DD&E)	AFR 80-39
itative Personnel Requirements	Information (DD&E)	AFR 80-44
ESD Management	Information (QOPRI), Part I: Field and Organization	ESDR 5-3
bsets of the Standard Code for	Information and Control System	DoDI 5100.38
Communication in the Code for	Information Exchange Planning Guidance (FOUO)	DoDI 5209.21
Communication in the Code for	Information Interchange	DI-H-3253
Code for	Information Interchange (ANSI X3.16-1961)	ESDM 178-1
Code for	Information Interchange (ANSI X3.25-1961)	JCSP 12, V.1
Perforated Tape Code for	Information Interchange (Usas X3.4-1968)	FIPS Pub 15
Implementation of the Code for	Information Interchange (Usas X3.6-1965)	FIPS Pub 17-1
	Information Interchange and Related Media Standards	FIPS Pub 18-1
		FIPS Pub 1
		FIPS Pub 2
		FIPS Pub 7

Bit Sequencing of the Code for Guidelines for Describing Recorded Magnetic Tape for Recorded Magnetic Tape for Dictionary for Flowchart Symbols for Federal atives and Requirements of the ral Description of the Federal The Scientific and Technical Management and Control of Guide to Estimating Costs of the Management and Control of Work Unit ng, Programming, and Budgeting tic Data Processing Management AFSC Acquisition Management AFSC Management and Scientific Positional Handbook - Work Unit Users Manual (Information Interchange in Serial by Bit Data Transmission Information Interchange Formats Information INTERCHANGE (1600 Cpi, Phase Encoded) (ANSI X3.39-1973) Information INTERCHANGE (800 Cpi, NRZI, with ANSI X3.22-1973) Information Processing Information Processing Information Processing Standards Index Information Processing Standards Program Information Processing Standards Register Information Program Information Requirements Information Requirements (C) Information Requirements (C) Information System Information System (ADP/MIS) (C) Information System (AMIS) Information System (MASIS) (DSD: B458) (RCS: SYS-DL(AR)7501) Information System Operational Personnel Information System, (RCS: DD-DR&E(AR)636) Information Systems) Input Data for Parametric Cost Model Inspections and Audits Installation Completion Notification Institute (DODCI) (C) Instructions Instructions for the Preparation of Military Standards and Military Handb Instructions for the Preparation of Specifications and Associated Document Integrated Data System (DIDS) Integrated Data System (I&L) (I&L) Integrated Data System (DIDS) Procedures Handbook X Integrated Logistics Support Integrated Logistics Support (ILS) Program for Systems and Equipment Integrated Support Data (CRISD) Integrated Support Management System Integration Plan Intelligence Agency (DIA) and Specialized USAF Intelligence Publications Intelligence Agency Publications System (I) Intelligence Publications Intelligence Publications System Interagency Support Interdepartmental, and Interagency Support Interface Specification Interim Contractor Support of Systems and Equipment	FIPS Pub 16-1 FIPS Pub 20 FIPS Pub 25 FIPS Pub 3-1 FIPS Pub 11-1 ANSI X3.5-1966 FIPS Pub 12-2 FIPS Pub 23 FIPS Pub 0 AFR 80-40 AFR 178-7 DoDI 5000.22 DoDD 5000.19 AFR 80-12 AFR 300-3 DoDI 4140.38 AFSCR 70-13 AFSCR 80-14 DI-M-3409 AFSCM 171-390, V.1-2 DI-M-30421 DI-F-30207 DI-E-3118 DI-E-3107 DoDD 5160.49 AFM 172-1, V.2 DoD 4120.3-M MIL-STD-962 MIL-STD-961 AFR 400-42 DoDD 4100.39 DoD 4100.39-H AFSCP 800-21 AFR 800-8 APP 800-7 DI-S-30569 AFSCR/AFLCR 800-24 DI-S-3563 AFR 0-15 DoDI 5025.10 AFR 0-15 AFR 5-3 AFR 400-27 AFR 400-27 DI-E-30141 AFR 800-21
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L/DDR&E/DIAGS) (C)	Interim List of DoD Approved High Order Programming Languages (HOL) (I&	DoDI 5000.31
le Costing Procurement Guide (	Interim)	LCC 1
er Programming Documentation (	Internal)	DI-E-30109
	International Military Standardization Programs	AFR 81-6
ense, Joint Chiefs of Staff, &	Interpretation Procedures for Federal Standard COBOL (C13.52.29)	FIPS Pub 29
ic Policies and Principles for	Interservice Publications and Air Force Acquisition Doc|Department of Def	AFR 0-4
ter Performance Management, An	Interservice, Interdepartmental, and Interagency Support	AFR 400-27
	Introduction	ASPR Sec. I, Pt. 1
	Inventories Item Specification	FIPS Pub 49
	Investigation and Resolution During Systems Acquisition	DI-E-3105
	Item	AFSCR 66-71
	Item (CPCI) Development Test and Evaluation Test Report	DI-H-5072A
	Item (CPCI) Test Plan/Procedures	DI-T-3717A
	Item Development Specification	DI-T-3703A
	Item Documentation Catalog and Glossary	DI-E-3102A
	Item List	DI-M-30406
	Item Maintenance Manual (Operational Software)	DI-S-3585
	Item Numbering System	DI-M-30408
	Item Product Fabrication Specification	ASPR Sec. XX, Pt. 3
	Item Product Function Specification	DI-E-3103A
	Item Specification	DI-E-3132
	Item Users Manual (Operational Software)	DI-E-3105
Computer Program Configuration	[Computer Software/Computer Progr	DI-M-30404
puter Data Base Configuration	[Work Breakdown Structu	DI-E-30145
re (WBS) for Defense Materiel	[Work Breakdown S	AFR 800-17
tructures for Defense Materiel	[Work Breakdown S	MIL-STD-881A
tructures for Defense Materiel	[Work Breakdown S	DI-E-5037
tructures for Defense Materiel	[Work Breakdown S	DoDD 5010.20
Integrated Logistics Support (		AFR 800-8
Magnetic Tape for Information	INTERCHANGE (1600 Cpi, Phase Encoded) (ANSI X3.39-1973)	FIPS Pub 25
art Symbols and their Usage in	INTERCHANGE (1600 Cpi, Phase Encoded) (ANSI X3.39-1973)	FIPS Pub 24
Magnetic Tape for Information	INTERCHANGE (800 Cpi, NRZI, with ANSI X3.22-1973)	FIPS Pub 3-1
	Joint AMC/NMC/AFLC/AFSC List of Authorized Acquisition Management Systems	AFSCR/AFLCR 800-14
ion Do| Department of Defense,	Joint Chiefs of Staff, & Interservice Publications and Air Force Acquisit	AFR 0-4
ule Control Systems Criteria (	Joint Design-to-Cost Guide	AFSOP/AFLCP 800-19
	Joint Implementation and Technical Review (JOIR)	AFSOP/AFLCP 173-5
	Joint Surveillance Guide	AFSOP/AFLCP 173-6
Status of Noncryptographic	JANAPS and ACPs	JANAP 201(1)
ational and Technical Review (	JOVIAL(J3)	AFSCR 800-18
	JOVIAL(J73/I)	MIL-STD-1588
	Keyboard Arrangements	MIL-STD-1589
	Laboratory Research and Technology Support to AFSC Organizations	MIL-STD-1280
House Research and Development	Labs	AFSCR 80-23
Assembly	Language (Software)	AFR 80-3
		DI-H-5067

Advanced Computer Programming	Language APT	ANSI X3.37-1977
Programming	Language Manuals	DI-M-5094
Programming	Language PL/I	ANSI X3.56-1976
Programming	Language Standards	RADC-TR-74-300, V.1
Computer Programming	Languages	AFR 300-10
Approved High Order Programming	Languages (HOL) (I&L/DDR&E/DIACCS) (C)	DoDI 5000.31
Advanced Program	Languages (Software)	DI-H-5069
Pricing Packages for Procedural	Languages (Software)	AFM 110-9
Procurement	Law	DI-S-3585
High Risk and Long	Lead Time Item List	ESDR 70-4
ent and Production Directives,	Letters, and Forms	DI-R-3549
Optimum Repair	Level of Repair	MIL-STD-1390B
ineering and Associated Lists,	Level Analysis Reports (ORLA)	DI-R-3549
trol Offices and the AFSC MIPR	Level 1 (Conceptual and Development Design)	DI-E-7013A
and - Scientific and Technical	Liaison Office	AFSCM 70-1
Program Support	Liaison Offices	AFR 23-34
Program Support	Library Functional Requirements	RADC-TR-74-300, V.V
Management in the Acquisition	Library Program Specification	RADC-TR-74-300, V.VI
Uniform Contract	Life Cycle	AFR 800-9
Time	Life Cycle Cost Management Program	AFR 800-11
gs, Engineering and Associated	Life Cycle Costing Guide for System Acquisition	LCC 3
n Risk and Long Lead Time Item	Life Cycle Costing Procurement Guide (Interim)	LCC 1
and Data Requirements Control	Life Cycle Events	ESD-TR-77-22
Joint AMC/NMC/AFLC/AFSC	Limitation of Cost and Funds Under Cost Type Contracts	ASPR Sec. I, Pt. 20
DIACCS) (C)|	Line Item Numbering System	ASPR Sec. XX, Pt. 3
Interim	Line Sheets	DI-S-3608
MBS Publication	List	DoD-D-1000B
Data Accession	List (AMSDL)	DI-S-3585
Data Accession	List of Authorized Acquisition Management Systems	DoDD 5000.19-B, V.II
Standards - Part I, Numerical	List of DoD Approved High Order Programming Languages (HOL) (I&L/DDR&E/	AFSCR/AFLCR 800-14
Standards - Part I, Alphabetical	List 84 Computer Science and Technology Publications	DoDI 5000.31
Standards - Part II, Alphabetical	List/Internal Data	(NBS Pub. list 84)
Standards - Part II, Numerical	List/Internal Data	DI-A-3027
Computer Program	Listings	DI-N-30416
eering Drawings and Associated	Listings	(NASI Index Part I)
uide to Indexes, Catalogs, and	Listings	(DoDISS Part I)
gs, Engineering and Associated	Listings	(NASI Index Part II)
gs, Engineering and Associated	Listings	(DoDISS Part II)
gs, Engineering and Associated	Listings	DI-E-30112
gs, Engineering and Associated	Listings	AFSCR/AFLCR 800-8
gs, Engineering and Associated	Listings	AFR 0-1
gs, Engineering and Associated	Listings	MIL-STD-1562A
gs, Engineering and Associated	Listings	DI-E-7013A
gs, Engineering and Associated	Listings	AFR 70-18
gs, Engineering and Associated	Listings	MIL-STD-1388/1
gs, Engineering and Associated	Listings	MIL-STD-1388/2

Air Force	Logistics Command (AFLC)	A Guide for Program Man	AFR 23-2
agers: Implementing	Logistics Support	Logistics Support (ILS) Program for Systems and Equipment	AFSCP 800-21
Integrated	Logistics Support Implementation Guide for DoD Systems and Equipment		AFR 800-8
High Risk and	Long Lead Time Item List		AFP 800-7
and 9), Supply Bulletins, and	Lubrication Orders	|Military Publications, Index of	DI-S-3585
management Accounting Reports (	Machine or Manually Prepared)	|Configuration M	DA PAM 310-4
SI X3.39-1973)|	Magnetic Tape for Information INTERCHANGE (1600 Cpi, Phase Encoded) (AM		DI-E-3133
2-1973)|	Magnetic Tape for Information INTERCHANGE (800 Cpi, NRZI, with ANSI X3.2		FIPS Pub 25
Recorded	Maintainability Allocations, Assessments, and Analysis Report		FIPS Pub 3-1
Reliability and	Maintainability Data Reporting and Feedback Failure Summary Reports		DI-R-3535
Reliability,	Maintainability Demonstration		DI-R-3537A
	Maintainability Prediction		MIL-STD-471A
	Maintainability Program Requirements (for Systems and Equipments)		MIL-HDBK 472
s|	Maintainability Programs for Systems, Subsystems, Equipment, and Munition		MIL-STD-470
iveness Terms for Reliability,	Maintainability, Human Factors and Safety	|Definitions of Effect	AFR 80-5
Management Guidebook: Software	Maintenance	|Software Acquisition	MIL-STD-721B
Part I: Field and Organization	Maintenance Facilities	|Qualitative and Quantitative Per	ESD-TR-77-327
book: Software Development and	Maintenance Management	|Software Acquisition Management	DI-H-3253
	Maintenance Manual		ESD-TR-77-130
Computer Software	Maintenance Manual (Computer Program)		AFM 66-1, V.1-12
Functionally Oriented	Maintenance Manual (FOMM) Writer's Guide for MIL-M-24100B		DI-M-5118
Program	Maintenance Manual (MM)		DI-M-30422
ter Program Configuration Item	Maintenance Manual (Operational Software)	|Compu	MIL-HDBK 242
System	Maintenance Programs (Software)		DI-M-30403
Contracting for Operation and	Maintenance Services		DI-M-30408
Contracting for Operation and	Major Acquisition Programs (I&L)	|Government-Owned Materiel Assets	DI-H-5070
ernment-Furnished Materiel for	Major Command Time Compliance Technical Order (ICTO) Reporting System	|Functions of the	AFP 70-19
Department of Defense and its	Major Components (C)	|Select	AFR 70-19
ion of Contractual Sources for	Major Defense Systems (DDR&E)	|Manag	DoDI 4140.41
ement of Computer Resources in	Major Index to Navy Publications)		AFM 66-661
(A	Major Program Acquisition		DoDD 5100.1
Contract Management in	Major System Acquisition		DoDD 4105.62
r No. A-109|	Major System Acquisition - A Discussion of the Application of OMB Circula		DoDD 5000.29
	Major System Acquisition Process (DDR&E)		NAVSUP 2002
	Major System Acquisitions (DDR&F)		AFR 70-16
	Major Telecommunications Requirements (DTACCS)		OMB Circular A-109
Programming of	Management		OFPP Pamphlet No. 1
Maintenance	Management		DoDD 5000.2
Engineering	Management		DoDD 5000.1
Configuration	Management		DoDD 4630.1
ESD Quality Assurance	Management		AFM 66-1, V.1-12
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Configuration	Management		AFR 65-3
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 Acquisition Program Management
 Automated Data System Project Management
 Human Factors Engineering and Management
 Data Processing (ADP) Resource Management
 Standardization Plans and Management
 Physical Security and Risk Management
 Publications Acquisition Management
 Data Processing Program Management
 Computer Program Configuration Management
 Evaluation for Resource Management (C)
 Configuration Management (DDR&E)
 Manual (IM) Management (I&L)
 Technical and Services Management and Control Policies for the Management of Information Requirements (C)
 Management and Control of Information Requirements
 Management and Quality Control
 Management and Scientific Information System (MASIS) (DSD: B458) (RCS: Computer Software Management)
 Assurance Production Contract
 Documents Used in the Management of Information Requirements (C)
 Management of Air Force Research and Development Labs
 Management of Air Force In-House Research and Development
 Management of Air Force Research and Development
 Management of Automated Data System Development (C)
 Management of Automatic Data Processing Systems
 Management of Automatic Data Processing Activities
 Management of Automatic Data Processing Resources
 Management of Computer Resources in Major Defense Systems (I&L)
 Management of Computer Resources in Systems
 Management of Contractor Data
 Management of Contractor Data
 Management of Data for Follow-On Procurements
 Management of Electrical Record Communications
 Management of Multi-Service Systems, Programs and Projects
 Management of Systems Acquisition for Foreign Military Service
 Management of Technical Data (I&L)
 Management Accounting Reports (Machine or Manually Prepared)
 Management Assessment Review (MAR)/Program Management Review Process
 Management Control Systems
 Management Control Systems and Financial Reporting on Selected Acquisition
 Management Data Collection and Reporting
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 Management Guidebook: Life Cycle Events
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 AFM 300-6
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 FIPS Pub 31
 AFSCM 310-2
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 DoDI 7041.3
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 ESDM 74-1
 AFR 800-9
 AFR 79-16
 AFR 80-3
 AFR 80-2
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 AFR 300-2
 OMB Circular A-171
 DIAI 65-1
 DoDD 5000.29
 AFR 800-14, V.1
 AFR 310-1
 AFSCR 310-1
 AFR 310-3
 AFI 100-20
 AFR 800-10
 AFR 800-18
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 DI-E-3133
 AFSCR 800-27
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 AFSCR 70-11
 RADG-TR-74-300, V.IX
 ASD-TR-76-11, V.III
 ESD-TR-77-22
 ESD-TR-78-141
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Software Acquisition	Management Guidebook: Software Development and Maintenance Facilities	ESD-TR-77-130
Software Acquisition	Management Guidebook: Software Maintenance	ESD-TR-77-27
Software Acquisition	Management Guidebook: Software Quality Assurance	ESD-TR-77-255
Software Acquisition	Management Guidebook: Statement of Work Preparation	ESD-TR-77-116
Software Acquisition	Management Guidebook: Validation and Certification	ESD-TR-77-326
Software Acquisition	Management Guidebook: Verification	ESD-TR-77-263
Configuration	Management Implementation Guidance (DDR&E)	DoDI 5010.21
ESD	Management Implementation and Control System	ESDM 178-1
Automatic Data Processing	Management Information System (ADP/MIS) (C)	DoDI 4140.38
AFSC Acquisition	Management Information System (AMIS)	AFSCR 70-13
System	Management Newsletter	AFSCR 800-1
Contract Data	Management Plan	DI-A-3022
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System Engineering	Management Plan (SEMP)	DI-S-3618
Contractor Configuration	Management Plans	MIL-STD-1436
Configuration	Management Practices for Systems, Equipment, Munitions and Computer Progr	MIL-STD-483(USAF)
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Air Force Publications	Management Program	AFR 5-1
Life Cycle Cost	Management Program	AFR 800-11
Air Force Procurement Career	Management Program	AFM 70-2
Procurement	Management Reporting System	AFR 70-12
Transfer of Program	Management Responsibilities	AFR 800-4
Department of Defense	Management Review and Improvement Program (I&I)	DoDD 5010.28
essment Review (.IAK)/Program	Management Review Process	AFSCR 800-27
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Technology	Management Reviews	AFSCR 80-25
Contract Research Centers and	Management Support Contractors	AFSCR 11-17
ADPE Performance	Management Support Contractors	AFM 171-400, V.1-2
Program	Management System	ESDM 70-10
Standard Integrated Support	Management System	AFSCR/AFLCR 800-24
List of Authorized Acquisition	Management System	AFSCR/AFLCR 800-14
DoD Acquisition	Management Systems	DoDI 5000.32
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Resource	Management Systems of the Department of Defense (C)	DoDD 7000.1
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Procedures for	Managing Automatic Data Processing Systems (ADPS)	AFR 300-12, V.1-2
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	Manpower Policies and Procedures	AFM 26-1
Computer Programming	Manual	DI-N-3411
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ADP Security Manual (Computer Program) | DoD Automatic Data Proc
 USAF Budget Manual (Computer Program) | DoD Automated Data
 Computer Test Equipment Manual (Computer Program)
 Operational and Program Manual (Computer Program) | Fun
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 System Documentation Standards Manual (Support Software)
 Users Manual (TH) Management (I&L)
 Users Manual (UM)
 Maintenance User's Manual of Abbreviations
 tionally Oriented Maintenance Users Manual, Computer Operator's
 Users Manual, Technical
 Program Maintenance Manual, Technical
 Configuration Item Users Manual, Technical
 Configuration Item Maintenance Manual, Technical, General Style and Format Requirements
 Computer Operation Users Manual, Technical, Methods and Procedures, Technical Orders, Preparation
 Users/Maintenance Technical Users Manual, Technical, Operator's, Preparation of
 Software Reference Air Force Software Reference | Configuration Management A
 Accounting Reports (Machine or Data Processing Package Manuals | Advanced
 Computer Programming Language Manuals | Commercial Com
 Computer and Peripheral Equipment Programming Aids (Software) & Manuals | Military Publications, Index of
 s, Technical Bulletins, Supply Manuals (types 7, 8, and 9), Supply Bul
 ex of Publications, Handbooks, Manuals, and Regulations) | Military Publications, Index of
 Applications, Index of Technical Manuals, Technical Bulletins, Supply Manuals (types 7, 8, and 9), an
 iled Design and Computer-Aided Manufacturing Systems | Standards and Specifications for
 eakdown Structures for Defense Material Items | Work Br
 Training Materials | Work Br
 ized as Government-Furnished Materiel for Major Acquisition Programs | Government-Owned Materiel Assets
 sition Progr | Government-Owned Materiel Assets Utilized as Government-Furnished Materiel for Major Acqui
 eakdown Structures for Defense Materiel Items | Work Br
 n Structure (WBS) for Defense Materiel Items | Work Breakdown
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DoD 5200.28-M
 AFM 172-1, V.1-2
 DI-M-5091
 DI-M-5090
 DI-M-30424
 AFSCM/AFLCM 81-1
 DI-M-30410
 AFSCM 122-1
 DI-M-5118
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 DI-M-3410
 DI-M-30422
 DI-M-30419
 MIL-HDBK 242
 DI-M-30421
 DI-M-30403
 DI-M-30404
 DI-M-30408
 DI-M-30402
 DI-M-30407
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 DI-M-30401
 AFM 11-2
 DI-M-5205A
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 MIL-M-63030B
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 MIL-M-63036
 DI-E-3133
 DI-M-5095
 DI-M-5094
 DI-M-5085
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 DLA Handbook 5025.1
 DA PAM 310-4
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 RADC-TR-74-300, V.XII
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 MIL-STD-881A
 AFR 800-17
 DoDD 5010.20

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Measurement for Selected Acquisitions (C)				MIL-STD-1309A
Measurement Report				DoD 7000.2
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Memorandum of Agreement				FIPS Pub 7
Merit in Spaceborne Systems				ESDR 800-1
Methods and Procedures, Technical Orders, Preparation of Microcircuits				SAMS0-TR-68-268
Milestones (Acquisition Phase)				MIL-M-38811
Milestones (Acquisition Phase)				MIL-STD-1362A
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Military Command and Control System Standard Systems (FOUO)				JCSP 14
Military Command and Control Systems (WMMCCS) (DTACCS)				JCSP 7
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Military Handbooks				DoDD 5100.30
Military Publications, Index of Administrative Publications				MIL-STD-188C
Military Publications, Index of Doctrinal, Training, and Organizational Publications				MIL-STD-962
Military Publications, Index of Technical Manuals, Technical Bulletins, and Military Service				DA PAM 310-1
Military Specifications				DA PAM 310-3
Military Specifications and Standards to DoD Procurements				DA PAI 310-4
Military Standard Contract Administration Procedures (MILSCAP)				AFR 800-18
Military Standardization Programs				ESDR 81-1
Military Standards and Military Handbooks				AFSCR 800-25
Military Systems, Equipment and Facilities				DoD 4105.63-M
Military Terminology (C)				AFR 81-6
Minutes of Formal Reviews, Inspections and Audits				MIL-STD-962
Miscellaneous Air Force and Other Government Agency Publications				MIL-H-46855A
Missile Systems Organization				MIL-STD-1472B
Model				DoDD 5000.9
Modification Design Data and Reports/Modification Program Approval				DI-E-3118
Modification Programs				AFR 0-16
Modifications				AFSCR 23-9
Modifications				DI-F-30207
Monitor-Executive Program (Software)				DI-E-3114
Monitoring and Reporting Software Development Status				AFR 57-4
Monitoring Contractors' Indirect Cost				DI-E-3117
Monthly Catalog of United States Government Publications				ASPR Section XXVI
Multi-Service Systems, Programs and Projects				ASPR Sec. XXVI, Pt. 7
				DI-H-5066
				ESD-TR-75-85
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				AFR 800-10

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. Management Assessment Review (Munitions and Computer Programs	AFSCR 800-27
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ct Administration Procedures (Functionally Oriented Maintenanc	DoD 4105.63-M
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PR and	Functions and Responsibilities o	AFSCR/AFLCR 57-7
Utilization of	MIPR Operations	ESDR 80-1
Program Maintenance Manual (	MITRE Support	DI-M-30403
Index of	(NASI Index Part I)	(NASI Index Part II)
Index of	National Aerospace Standards - Part I, Numerical Listing	(NASI Index Part II)
Publications of the	National Aerospace Standards - Part II, Alphabetical Listing	NBS Spec. Pub. 305
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(A Major Index to	Naval Weapons Systems Acquisitions	NAVSUP 2002
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Requirements and Audience	Need Program	ESD-TR-75-308
Evaluation	Needs	DI-H-3267
Training	Needs/Exercise Requirements Analysis	DI-H-3269A
Authorization for	Needs/Exercising Requirements Analysis	ASPR APPENDIX J
Procurement by	Negotiation	ASPR Section III
Use of	Negotiation	ASPR Sec. III, Pt. 1
Circumstances Permitting	Negotiation	ASPR Sec. III, Pt. 2
Price	Negotiation	ASPR Sec. III, Pt. 8
Automatic Digital	Network (Autodin) Operating Procedures	JANAP 128
Preliminary Pert/Time	Network and Analysis Report	DI-A-5024
Periodic Pert/Time	Network and Analysis Report	DI-A-5025
System Management	Newsletter	AFSCR 800-1
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Status of	Noncryptographic JANAPs and ACPs	JANAP 201(1)
Advance Change/Study	Notice (ACSN)	DI-E-3127
Specification Change	Notification of Changes	DI-E-3134
Installation Completion	Notification of Changes to Commercial Equipment and Software	DI-E-3107
Contractor	Nuclear Safety Cross-Check Analysis and Certification Program for Weapon	ASPR Sec. XXVI, Pt. 8
The	Nuclear Safety Program	DI-A-5398
The Air Force	Nuclear System Safety Design Manual	AFR 122-9
Systems Software	Numbering System	AFR 122-1
Uniform Contract Line Item	Numbering Systems	AFSCM 122-1
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Loss Reference Index, Equipment	Numerical and Functional Index of Command Forms	AFR 5-4
Publications	Numerical and Functional Indexes of ESD Forms	TO 0-4-6-1
Loss Reference Index, Equipment	Numerical and Subjective Index of Standard Publications and Recurring Per	AFSCR 0-9
Publications	Numerical Cross Reference Index, Equipment Numbers to Technical Orders	ESDR 0-9
Loss Reference Index, Equipment	Numerical Index of AFLC Publications	AFR 0-2
Publications		TO 0-4-6-1
Loss Reference Index, Equipment		AFLCR 0-2

Orders | Numerical Index of AFSC Publications | AFSCR 0-2
Aerospace Standards - Part I, | Numerical Index of Departmental Forms | AFR 0-9
tions and Standards - Part II, | Numerical Index of ESD Publications | ESDR 0-2
Information INTERCHANGE (800 Cpi, | Numerical Index, Alphabetical Index, and Cross Reference Table Technical | TO 0-1-01
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| Numerical Listing | (DoDISS Part II)
| MBS Publication List 84 Computer Science and Technology Publications | (MBS Pub, List 84)
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| Off-The-Shelf Manual | DI-M-30424
| Office/APPRO Cadre | AFSCR 800-9
| Operating Procedures | JANAP 128
| Operation and Maintenance Services | AFP 70-19
| Operation and Maintenance Services | AFR 70-19
| Operation Description | RADC-TR-74-300, V.X
| Operation Manual (OM) | DI-M-30402
| Operational and Program Manual | AFSCR 800-18
| Operational and Technical Review (JOTR) | DI-M-5090
| Operational Capabilities (ROCs) | AFR 57-1
| Operational Manual | DI-M-30410
| Operational Personnel | DI-M-3409
| Operational Software | DI-M-30404
| Operational Software | DI-M-30408
| Operations | AFM 172-1, V.3
| Operations | AFSCR/AFPCR 57-7
| Operations (I&L) | DoDI 4100.31
| Operations Analysis | MIL-STD-1379A
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| Operator's | DI-H-7012
| Operator's, Preparation of | DI-M-5203A
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| Optimum Repair Level Analysis Reports (ORLA) | FIPS Pub 40
| Orders, Preparation of | DI-R-3549
| Organization | MIL-M-38811
| Organization | AFSCR 23-9
| Organizational Maintenance | ASPR Sec. XV, Pt. 2
| Organizational Publications | DI-H-3253
| Organizations | DA PAM 310-3
| Oriented Maintenance Manual (FOMM) Writer's Guide for MIL-M-24100B | AFSCR 80-23
| Os) Series | MIL-HDBK 242
| Output/Measurement/Management Indicator Systems | MIL-S-83490/2
| Overview of the Series | AFR 178-4
| OMB Circular No. A-109 | ESD-TR-78-141
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| | OFPP Pamphlet No. 1

Commercial | | Automata
Program | |
Network (Autodin) | |
Contracting for | |
Contracting for | |
Chief Programmer Team | |
Computer | |
Joint | |
Required | |
Computer System | |
Handbook - Information System | |
figuration Item Users Manual (| |
tion Item Maintenance Manual (| |
Budgeting for | |
PR and MIPR | |
Reports on Single Manager | |
Training | |
Human | |
are Reference Manual, Computer | |
Manual, Technical, | |
Guidelines for | |
Manual, Technical, Met | |
Space and Missile Systems | |
Type Contracts with Commercial | |
on (QOPRI), Part I: Field and | |
ex of Doctrinal, Training, and | |
and Technology Support to AFSC | |
Functionally | |
s, Types and Forms, Military (| |
Air Force | |
quisition Management Guidebook: | |
Computer Operation Manual (| |
Discussion of the Application of | |

Repair Level Analysis Reports (Index of)	(OMB Index)	
Data Processing (ORLA)	DI-R-3549	
Procurement Data Packages	DI-M-5095	
Data Processing Packages for Procedural Languages (Software)	MIL-STD-885B	
AFSC Business Strategy Panel	DI-H-5068	
AFSC Procurement Evaluation Panel	AFCOR 70-2	
Character Parity Sense for Input Data for Character Structure and Character Parity Sense for Parallel-bit Data Communication in the Code for I|Character Structure	AFCOR 70-7	
Parameter Cost Model	FIPS Pub 18-1	
Parity Sense for Parallel-bit Data Communication in the Code for I|Character Structure	DI-F-30207	
Parity Sense for Serial-bit Data Communication in the Code for Inf|Character Structure	FIPS Pub 18-1	
Part I, Alphabetical Listing	FIPS Pub 17-1	
Part I, Numerical Listing	(DoDISS Part I)	
Part II, Alphabetical Listing	(DoDISS Part I)	
Part II, Numerical Listing	(NASI Index Part I)	
Parts Control Program	DI-H-3253	
Patents, Data, and Copyrights	(NASI Index Part II)	
Perforated Tape Code for Information Interchange (Usas X3.6-1965)	(DoDISS Part II)	
Performance Evaluation and Simulation Center	MIL-STD-965	
Performance Management System	ASPR Section IX	
Performance Measurement for Selected Acquisitions (C)	FIPS Pub 2	
Performance Measurement Report	AFM 171-400, V.1-2	
Performance Report (CPR)	FIPS Pub 49	
Periodic Pert/Time Network and Analysis Report	DoDI 7000.2	
Periodicals	DI-S-3619	
Peripheral Equipment Manuals	DI-F-6000A	
Permitting Negotiation	DoDI 7000.10	
Personal Data in Automatic Data Processing Systems	DI-A-5025	
Personnel	AFR 0-2	
Personnel Requirements Information (QOPRI), Part I: Field and Organization	DI-M-5095	
Personnel Subsystem Test and Evaluation (PSIE) Plan	ASPR Sec. III, Pt. 2	
Personnel Subsystem/Human Factors Development Plan (HFDP)	AFR 300-13	
Pert/Time Network and Analysis Report	DI-M-3409	
Pert/Time Network and Analysis Report	DI-H-3253	
Phase Encoded) (ANSI X3.39-1973)	DI-H-3272	
Phase Encoded) (ANSI X3.39-1973)	DI-H-3251	
Phase II) Data Systems Publications	DI-A-5024	
Phase)	DI-A-5025	
Physical Security and Risk Management	FIPS Pub 24	
Plan	FIPS Pub 25	
Plan	AFR 5-12	
Plan	DI-A-3009	
Plan	FIPS Pub 31	
Plan	DI-T-5161B	
Plan	DI-S-3563	
Plan	DI-T-30715	
Plan	DI-T-3701A	

System Test Plan	DI-T-30705
Procurement Plan	AF ASPR Supplement
Facilities Requirements Plan	DI-S-3553
Computer Software Design Plan	DI-H-5074B
Computer Software Design Plan	DI-H-5202
Contract Data Management Plan	DI-A-3022
Technical Order Publication Plan	DI-M-3401
Computer Program Development Plan	DI-S-30567
Computer Program Development Plan	DI(U)-E-730/ESD
Maintainability Demonstration Plan	DI-R-3538
Reliability/Maintainability Program Plan	DI-R-3533
Test and Evaluation (PSTE) Plan	DI-H-3272
Item/Cost Effectiveness Program Plan	DI-S-3569
Configuration Management Plan (CMP)	DI-E-3108
Reliability Implementation Plan (ECIP)	DI-H-3270A
Human Factors Development Plan (HFDP)	DI-H-3251
Test and Implementation Plan (PT)	DI-T-30703
Quality Program Plan (QPP)	DI-R-5297A
System Engineering Management Plan (SEMP)	DI-S-3618
System Security Plan (SSP)	DI-R-3527
System Safety Program Plan (SSPP)	DI-R-3531
Configuration Item (CPCI) Test Plan/Procedures (Exploratory or Advanced Development)	DI-T-3703A
Test Plan/Procedures (Exploratory or Advanced Development)	DI-T-30701
Advance Procurement Planning	ASPR Sec. I, Pt. 21
Development Planning	AFSCR 80-2
Computer Software Project Planning Chart	DI-A-5323
Automatic Data Processing Planning Concepts	AFR 300-7
Information Exchange Planning Guidance (FOUO)	JCSP 12, V.1
Project Planning/Actual Progress Chart (Other than Fixed Price Contracts)	DI-A-5016
Automatic Data Processing, Planning, Programming, and Budgeting Information System Plans	AFR 300-3
Actor Configuration Management Plans	MIL-STD-1456
Development Technology Program Plans	AFSCR 80-1
Specifications, Plans and Drawings	ASPR Sec. I, Pt. 12
Contractor Standardization Plans and Management	MIL-STD-680
Failure Rate Sampling Plans and Procedures	MIL-STD-690B
Contractor Test Plans/Procedures	DI-T-3702A
General Policies	ASPR Sec. I, Pt. 3
Basic Policies and Principles for Interservice, Interdepartmental, and Interagency Support	AFR 400-27
Subcontracting Policies and Procedures	ASPR Section XXIII
Manpower Policies and Procedures	AFM 172-1, V.1
Price Negotiation Policies and Techniques	AFM 26-1
Government Use Policies for the Management and Control of Information Requirements (C)	ASPR Sec. III, Pt. 8
General Principles, Standards, and Assessing Resources	DoDD 5000.19
	OMB Circular A-76
	AFM 177-100
	DAI 65-1

Standardization	Policies, Procedures, and Instructions	DoD 4120.3-M
R&D Source Selection	Policy and Guidance	AFSCR 80-15
Source Selection	Policy and Procedures	AFR 70-15
Air Force	Policy on the Support of Research	AFR 80-4
Engineering Drawing	Positional Handbook - Information System Operational Personnel	DI-M-3409
Specification	Practices	MIL-STD-100B
Standard Engineering	Practices for Computer Software Design and Development	MIL-STD-490
Configuration Management	Practices for Systems, Equipment, Munitions and Computer Programs	SAMSO Exhibit 73-3
	Pre-Award Survey Procedures	MIL-STD-483(USAF)
	Pre-Compiler Program Documentation	ASPR APPENDIX K
	Pre-Compiler Specifications	RADC-TR-74-300, V.III
	Precedence for the Selection of	RADC-TR-74-300, V.II
	Prediction	MIL-STD-143B
	Prediction	MIL-HDBK 472
	Prediction of Electronic Equipment	MIL-STD-756A
	Preliminary Pert/Time Network and Analysis Report	MIL-HDBK 217B
	Prepared)	DI-A-5024
	Price Contracts)	DI-E-3133
	Price Negotiation Policies and Techniques	DI-A-5016
	Principles and Procedures	ASPR Sec. III, Pt. 8
	Principles for Interservice, Interdepartmental, and Interagency Support	ASPR Section XV
	Principles, Standards, and Policies of the Air Force Accounting and Finan	AFR 400-27
	Privacy Act of 1974	AFM 177-100
	Procedural Languages (Software)	FIPS Pub 41
	Procedures	DI-H-5068
	Procedures	ASPR APPENDIX K
	Procedures	DI-T-30716
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	Procedures	AFM 172-1, V.1
	Procedures	AFM 26-1
	Procedures	AFSCM 173-1
	Procedures	AFSCR 80-21
	Procedures	AFR 70-15
	Procedures	ASPR Section XXIII
	Procedures	ASPR Section XV
	Procedures (C)	MIL-STD-690B
	Procedures (MILSCAP)	AFR 80-7
	Procedures for the Worldwide Military Command and Control System Standard	JANAP 128
	Procedures for Computer Resources in Systems	DoDD 5000.12
	Procedures for Federal Standard GSBOL (G13.52.29)	DoD 4105.63-M
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	Procedures for Managing Automatic Data Processing Systems (ADPS)	FIPS Pub 29
	Procedures for Preparation of Programmed Tapes and Cards	AFM 300-12, V. 1-2
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ated Procurement Implementing	Procedures for Purchase of Supplies Assigned to DSA Under the DoD Coordin	AFR 70-17
ESD Acquisition	Procedures for Scientific and Technical Information	ESDR 5-3
Integrated Data System (DIDS)	Procedures Handbook X	DoD 4100.39-H
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Manual, Technical, Methods and	Procedures, Technical Orders, Preparation of	MIL-N-38811
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Dictionary for Information	Processing	FIPS Pub 11-1
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Automatic Data	Processing (ADP) Manpower and Cost	DI-F-30202
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Automatic Data	Processing (ADP) Systems (C)	DoDD 5200.28
Automatic Data	Processing of Military Specifications	ESDR 81-1
Automatic Data	Processing Activities	OMB Circular A-171
Automatic Data	Processing Computer Program and Related Services (C)	DoDI 4105.65
Automatic Data	Processing Equipment	ASPR Sec. III, Pt. 11
Automatic Data	Processing Equipment (ADPE) Cost and Utilization	DI-L-30309
Automatic Data	Processing Equipment Reutilization Manual	DoD 4160.19-M
Automatic Data	Processing Equipment Reutilization Program (C)	DoDD 4160.19
Automatic Data	Processing Management Information System (ADP/MIS) (C)	DoDI 4140.38
Automatic Data	Processing Package Manuals	DI-M-5095
Automatic Data	Processing Packages for Procedural Languages (Software)	DI-H-5068
Automatic Data	Processing Physical Security and Risk Management	FIPS Pub 31
Automatic Data	Processing Planning Concepts	AFR 300-7
Automatic Data	Processing Program (C)	DoDD 5100.40
Automatic Data	Processing Program Management	AFR 300-1
Automatic Data	Processing Resources	DIAI 65-1
Automatic Data	Processing Resources (C)	DoDD 4105.55
Federal Information	Processing Standards Index	FIPS Pub 12-2
of the Federal Information	Processing Standards Program	FIPS Pub 23
Management of Automatic Data	Processing Standards Register	FIPS Pub 0
Management of Automatic Data	Processing Systems	AFR 300-2
Management of Automatic Data	Processing Systems	AFR 300-13
Management of Automatic Data	Processing Systems	AFM 300-12, V. 1-2
Management of Automatic Data	Processing Systems (ADPS)	AFR 300-8
Management of Automatic Data	Processing Systems (ADPS)	AFR 300-12, V. 1-2
Management of Automatic Data	Processing, Planning, Programming, and Budgeting Information System	AFR 300-3
Management of Automatic Data	Procurement and Production Directives, Letters, and Forms	ESDR 70-4
Management of ESD	Procurement by Negotiation	ASPR Section III
Management of ESD	Procurement of Expert or Consultant Services	ASPR Sec. XXII, Pt. 2
Management of ESD	Procurement Actions	ASPR Sec. I, Pt. 10
Management of ESD	Procurement Career Management Program	AFM 70-2
Management of ESD	Procurement Data Packages	MIL-STD-885B
Management of ESD	Procurement Environment	FIPS Pub 42-1
Management of ESD	Procurement Evaluation Panel	AFSCR 70-7
Publicizing	| Guidelines for Benchmarking A	
Air Force		
SDP Systems in the Competitive		
AFSC		

Base	Procurement Functions	AFR 70-8
Life Cycle Costing	Procurement Guide (Interim)	LCC 1
	Procurement Law	AFM 110-9
Defense	Procurement Management Reporting System	AFR 70-12
	Procurement Management Review Program	AFR 20-13
	Procurement Plan	AF ASPR Supplement
Advance	Procurement Planning	ASPR Sec. I, Pt. 21
DSA Under the DoD Coordinated	Procurement Program (RCS: DD--DSA(AR)59 | Implementing Procedures for Purc	AFR 70-17
	Procurement Publications	AFR 5-10
	Procurement Quality Assurance	AFR 74-15
Armed Services	Procurement Quality Assurance for System Programs	AFSCR 74-6
Armed Services	Procurement Regulation Committee (I&L)	DoDI 5126.3
	Procurement Regulations	ESD ASPR Sup. 1
	Procurement Research	DoDD 4105.68
	Procurement Source	ESDR 70-8
ess, Contractor Relations, and	Procurement Summary Report, (RCS: SYS-PMX(M)7601)	AFSCR 70-12
AFSC	Procurement Systems	ASPR Sec. XXIII, Pt. 1
Review of Contractors'	Procurement, and Other Matters (PA)	AFR 124-8
s of Public Trust in Contract,	Procurements	AFSCR 800-25
fications and Standards to DoD	Product Fabrication Specification	AFR 310-3
agement of Data for Follow-On	Product Function Specification	DI-E-3103A
Configuration Item	Product Specification	DI-E-3132
Configuration Item	Product Specification	DI-E-3120A
Computer Program	Product Specification	DI-E-30110
Computer Program	Production	DI-E-30140
and Equipment Development and	Production Directives, Letters, and Forms	MIL-STD-785A
ication of ESD Procurement and	Production Management in the Acquisition Life Cycle	ESDR 70-4
	Products and Services for Government Use	AFR 800-9
ring Commercial and Industrial	Program	OMB Circular A-76
Local Purchase	Program	AFR 70-18
Parts Control	Program	MIL-STD-965
AFSC Technical Report	Program	AFSCR 80-20
Technology Need	Program	AFSCR 80-29
Computer Acceptance Test	Program	DI-T-5139A
Independent Cost Analysis	Program	AFR 173-11
Life Cycle Cost Management	Program	AFR 800-11
Air Force Quality Assurance	Program	AFR 74-1
Air Force Value Engineering	Program	AFR 320-1
The Air Force Cost Analysis	Program	AFR 173-1
The Air Force Nuclear Safety	Program	AFR 122-1
Force Publications Management	Program	AFR 5-1
Procurement Career Management	Program	AFM 70-2
Procurement Management Review	Program	AFR 20-13
Formation Processing Standards	Program	FIPS Pub 23
ific and Technical Information	Program	AFR 80-40
tion of a Contractor's Quality	Program	MIL-HDBK 50
	|Small Busin	
	|Violation	
	|Application of Military Speci	
	|Acquisition and Ma	
	|Reliability Program for Systems	
	|Publ	
	|Policies for Acqui	
	|Air Force	
	|Defense	
	|Objectives and Requirements of t	
	|The Scient	
	|Evaluat	

Systems Division Cost Analysis	Program	|Electronic	ESDR 173-1
Government-Wide ADP Sharing	Program (C)		DoDI 5030.40
and Data Requirements Control	Program (C )	|DoD Acquisition Management System	DoDI 5000.32
DoD Automatic Data Processing	Program (C )	|Responsibility for the Administrator	DoDD 5100.40
and Data Codes Standardization	Program (C )	|Data Elements	DoDD 5000.11
essing Equipment Reutilization	Program (C )	|DoD Automatic Data Proc	DoDD 4160.19
Defense Standardization	Program (DSP)		AFR 73-1
DoD Value Engineering	Program (I&L)		DoDD 5010.8
Review and Improvement	Program (I&L )	|Department of Defense Man	DoDD 5010.28
ent of Defense Standardization	Program (I&L )	|Departm	DoDD 4120.3
ne DoD Coordinated Procurement	Program (RCS: DD--DSA(AR)599(P) )	|Implementing Procedures for Purc	AFR 70-17
System Monitor-Executive	Program (Software)		DI-H-5066
atalog and Glossary of Computer	Program and Programming Documentation	|Ca	DI-M-3415
matic Data Processing Computer	Program and Related Services (C )	|Acquisition of Auto	DoDI 4105.65
for| System Safety	Program for Systems and Associated Subsystems and Equipment, Requirements		MIL-STD-882
ated Logistics Support (ILS)	Program for Systems and Equipment	|Integ	AFR 800-8
Reliability	Program for Systems and Equipment Development and Production		MIL-STD-785A
eck Analysis and Certification	Program for Weapon Systems Software	|The Nuclear Safety Cross-Ch	AFR 122-9
Contract Management in Major	Program Acquisition		AFR 70-16
	Program Acquisition Visibility Briefings		ESOR 178-6
	Program Action Directive (PAD)		AFSCR 27-7
	Program Approval		AFR 57-4
	Program Breakdown Structure and Codes		AFSCM 173-4
	Program Catalog for Worldwide Military Command and Control System (FOUO)		JGSP 14
eport|	Program Configuration Item (CPCI) Development Test and Evaluation Test R		DI-T-3717A
	Program Configuration Item (CPCI) Test Plan/Procedures		DI-T-3703A
	Program Configuration Item Documentation Catalog and Glossary		DI-M-30406
	Program Configuration Item Maintenance Manual (Operational Software)		DI-M-30408
	Program Configuration Item Users Manual (Operational Software)		DI-M-30404
An Air Force Guide to Computer	Program Configuration Management		ESD-TR-77-254
	Program Control - Financial		AFR 300-6
	Program Design Study		RADC-TR-74-300, V.VIII
Computer	Program Detail Specification		DI-E-30102
Computer	Program Development Plan	DI(U)-E-730/ESD	
Computer	Program Development Plan	DI-S-30567	
Computer	Program Development Specification	DI-E-3119A	
Computer	Program Development Specification	DI-E-30113	
Computer	Program Development Specification	DI-E-30139	
Computer	Program Development Specification	ESD-TR-78-139	
Computer	Program Documentation	DI-T-5380	
Pre-Compiler	Program Documentation	RADC-TR-74-300, V.III	
Training Equipment Computer	Program Documentation	DI-H-3277	
uirements for Digital Computer	Program Documentation	WS-8506 Rev. 1	
Quality Assurance	Program During Acquisition	AFR 74-18	
Economic Analysis and	Program Evaluation for Resource Management (C)	DoDI 7041.3	
Computer	Program Flowcharts	DI-E-30111	

Advanced Computer	Program Languages (Software)	DI-H-5069
	Program Listings	DI-E-30112
	Program Maintenance Manual (MM)	DI-M-30403
A Guide for Acquisition	Program Management	AFSCP 800-3
Automatic Data Processing	Program Management	AFR 800-2
	Program Management of Systems Acquisition for Foreign Military Service	AFR 300-1
Transfer of	Program Management Responsibilities	AFR 800-18
	Program Management System	AFR 800-4
A Guide for Operational and	Program Managers: Implementing Integrated Logistics Support	ESDM 70-10
	Program Manual	AFSCP 800-21
	Program Milestones (Acquisition Phase)	DI-M-5090
	Program Office/APPRO Cadre	DI-A-3009
	Program Plan	AFSCR 800-9
System/Cost Effectiveness	Program Plan (OPP)	DI-S-3569
Reliability/Maintainability	Program Plan (SSPP)	DI-R-3533
	Program Plans	DI-R-5297A
Advanced Development Technology	Program Product Specification	DI-R-3531
	Program Product Specification	AFSCR 80-1
	Program Requirements	DI-E-3120A
	Program Requirements	DI-E-30110
	Program Requirements	DI-E-30140
Value Engineering	Program Requirements	MIL-O-9858A
Quality Assurance	Program Requirements	MIL-V-38352
Supplier Quality Assurance	Program Requirements (for Systems and Equipments)	MIL-S-52779
Maintainability	Program Resource Requirements	MIL-STD-1535A
Estimating Software	Program Schedule	MIL-STD-470
	Program Specification	RADC-TR-74-300, V.XI
Program Support Library	Program Specification (PS)	DI-A-3007
Reliability/Maintainability	Program Status Report	RADC-TR-74-300, V.VI
Computer	Program Subsystem Development Milestones	DI-S-30552
	Program Support Library Functional Requirements	DI-R-3542
	Program Support Library Program Specification	SSD Exhibit 61-47B
	Program Test Plan	RADC-TR-74-300, V.V
	Program Test Procedures	RADC-TR-74-300, V.VI
	Program Timing and Sizing Data	DI-T-30715
Users Manual (Computer	Program	DI-T-30716
User's Manual (Computer	Program)	DI-S-30568
Maintenance Manual (Computer	Program)	DI-M-3410
ation Change Notice (Computer	Program)	DI-M-30419
ange Status Report (Computer	Program)	DI-M-30432
Computer Software/Computer	Program/Computer Data Base Configuration Item(s)	DI-E-3134
	Program/Subroutine Documentation Computer Software	DI-E-3123
Procedures for Preparation of	Programmed Tapes and Cards	DI-E-30145
Chief	Programmer Team Operation Description	DI-M-5113A
		MIL-P-83497
		RADC-TR-74-300, V.X

|Preparation of A

|Specific
|C

Computer & Ancillary Equipment	Programming of Major Telecommunications Requirements (DTACCS)	DoDD 4630.1
Inventory of Computer Program and Computer	Programming Aids (Software) & Manuals	DI-M-5110A
	Programming Documentation (Internal)	DI-M-3415
	Programming Language APT	DI-E-30109
Advanced Computer	Programming Language Manuals	ANSI X3.37-1977
	Programming Language PL/I	DI-M-5094
	Programming Language Standards	ANSI X3.56-1976
	Programming Languages	RADC-TR-74-300, V. I
Computer	Programming Languages (HOL) (I&L/DDR&E/DTACCS) (C)	AFR 300-10
Computer	Programming Manual	DoDI 5000.31
Computer	Programming Manual	DI-M-3411
Computer	Programming Series	DI-M-30405
Computer	Programming Standards	DI-M-30409
Computer	Programming, and Budgeting Information System	AFR 300-3
Computer	Programs	AFR 27-9
Computer	Programs	AFSCR 80-19
Computer	Programs	AFR 81-6
Computer	Programs	MIL-STD-483(USAF)
Computer	Programs	DI-M-3413
Computer	Programs	MIL-STD-1521A(USAF)
Computer	Programs	AFSCR 74-6
Computer	Programs (I&L)	DI-A-30022
Computer	Programs (Software)	DoDI 4140.41
Computer	Programs and Automated Data Systems	DI-H-5070
Computer	Programs and Automated Data Systems	FIPS Pub 38
Computer	Programs and Projects	FIPS Pub 30
Computer	Programs for Systems, Subsystems, Equipment, and Munitions	AFR 800-10
Computer	Programs (I&L)	AFSCR 800-1
Computer	Programs (Other than Fixed Price Contracts)	AFR 80-5
Computer	Project Guide to Content Requirements and Audience Needs	DI-E-3121
Computer	Project Management	DI-E-3117
Computer	Project Management and Quality Control	DI-A-5016
Computer	Project Planning Chart	ESD-TR-75-308
Computer	Project Planning/Actual Progress Chart (Other than Fixed Price Contracts)	AFR 300-15
Computer	Project Status Report	NBS Spec. Pub. 500-11
Computer	Projects	DI-A-5323
Computer	Proposal	DI-A-5016
Computer	Proposal Preparation Guide	AFR 800-10
Computer	Proposals	DI-H-5076A
Computer	Proposals (ECFs)	AFSCP 70-4
Computer	Proposals and Quotations	AFSCR 80-8
Computer	Proposed	DI-E-3128
Computer	System Security Standard (Proposed)	ASPR Sec. III, Pt. 5
Computer	System Security Standard (Proposed)	DI-R-3529

tract Clauses and Solicitation ia for|	General Provisions	ASPR Section I
Violations of	Provisions for Electronic Systems and Associated Equipment, Design Criter	ASPR Section VII
	Public Trust in Contract, Procurement, and Other Matters (PA)	MIL-STD-415D
rms|	Publication of ESD Procurement and Production Directives, Letters, and Fo	AFR 124-8
	Publication List 84 Computer Science and Technology Publications	ESDR 70-4
	Publication Plan	(NBS Pub. List 84)
	Publication Text	DI-M-3401
	Publications	DI-M-5370
	Publications	ESDR 0-2
	Publications	AFR 5-10
	Publications	AFR 5-9
	Publications	AFSCR 0-2
	Publications	AFLCR 0-2
	Publications	DIAR 0-2
	Publications	AFR 0-15
	Publications	DA PAM 310-3
	Publications	AFR 0-16
	Publications	AFR 8-9
	Publications (C)	(US Govt. Pubs)
	Publications and Air Force Acquisition Doc|Department of Defense, Joint C	AFR 0-1
	Publications and Recurring Periodicals	(NBS Pub. List 84)
	Publications for Development Programs	DA PAM 310-1
	Publications of the National Bureau of Standards	AFR 5-12
	Publications Acquisition Management	DoDI 5025.7
	Publications Numbering Systems	AFR 0-4
	Publications System	AFR 0-2
	Publications System (I)	DI-M-3413
	Publications, Handbooks, Manuals, and Regulations)	NBS Spec. Pub. 305
	Publications, Index of Administrative Publications	AFSCM 310-2
	Publications, Index of Doctrinal, Training, and Organizational Publicatio	AFR 5-1
	Publications, Index of Technical Manuals, Technical Bulletins, Supply Man	AFR 5-4
	Publicizing Procurement Actions	AFR 5-3
	Purchase of Supplies Assigned to DSA Under the DoD Coordinated Procuremen	DoDI 5025.10
	Purchase Description)	NAVSEP 2002
	Purchase Program	DLA Handbook 5025.1
	Publications (PA)	DA PAM 310-1
	Program Action Directive (PAD)	DA PAM 310-3
	PL/I	DA PAM 310-4
	PR and MIPR Operations	ASPR Sec. I, Pt. 10
		AFR 70-17
		DI-A-5013
		AFR 70-18
		AFR 124-8
		AFSCR 27-7
		ANSI X3.56-1976
		AFSCR/AFLCR 57-7

s and Responsibilities of AFSC	PR-MIPR Control Offices and the AFSC MIPR Liaison Office	|Function	AFSCM 70-1
Program Specification (PS)			DI-S-30552
Subsystem Test and Evaluation (PSTE) Plan		|Personnel S	DI-H-3272
Test and Implementation Plan (PT)			DI-T-30703
Part I: Field and Organizational Procurement	Qualitative and Quantitative Personnel Requirements Information (QQPRI), Quality Assurance		DI-H-3253
Management Guidebook: Software Procurement	Quality Assurance for System Programs	|Software Acquisition	AFR 74-15
ESD	Quality Assurance Management		ESD-TR-77-255
Air Force	Quality Assurance Management for Electronic Systems		AFSCR 74-6
Supplier	Quality Assurance Program		ESDR 74-2
Software	Quality Assurance Program During Acquisition		ESDM 74-1
Supplier	Quality Assurance Program Requirements		AFR 74-1
Software	Quality Assurance Program Requirements		AFR 74-18
Management and Reporting of Contractor's Evaluation of a Contractor's Engineering of Qualitative and Quantitative Personnel Requirements Information (QQPRI), Part I: Field and Quarterly Abstract of Computer Programs	Quality Assurance Terms and Definitions		MIL-STD-1535A
Quality Control	Quality Control	|Computer Software Management: A	MIL-S-52779
Quality Deficiency Data	Quality Program		MIL-STD-109B
Quality Program Plan (QPP)	Quality Program Requirements		NBS Spec. Pub. 500-11
Quality Program Requirements	Quality Software Systems		AFR 74-6
Quality Software Systems	Quantitative Personnel Requirements Information (QQPRI), Part I: Field and Quarterly Abstract of Computer Programs		MIL-HDBK 50
Quotations (QPP)			DI-R-5297A
Qualitative and Quantitative Personnel Requirements Information (QQPRI), Part I: Field and Organization M|Qualitative and Quantitative Personnel Requirements (Accounting for R&D) - H096/OY			MIL-Q-9858A
Acquisition of R&D Source Selection Policy and Guidance			RADC-TR-74-325
R&D Status Report			DI-H-3253
Rate Sampling Plans and Procedures			DI-A-30022
Rates Between Data Terminal and Data Communication Equipment			ASPR Sec. III, Pt. 5
Real-time Training Simulators			DI-R-5297A
Recognition Character Sets			DI-H-3253
Recognition Forms, 1975			AFSCM 171-265
Record Communications			AFSCR 80-15
Recorded Magnetic Tape for Information INTERCHANGE (1600 Cpi, Phase Enco			DI-A-3002
Recorded Magnetic Tape for Information INTERCHANGE (800 Cpi, NRZI, with			AFSCY 171-265
Recurring Periodicals			MIL-STD-690B
Reference Index, Equipment Numbers to Technical Orders			FIPS Pub 22-1
Reference Manual, Computer Operator's			MIL-STD-876A
Reference Table Technical Orders			FIPS Pub 32
Register			FIPS Pub 40
Registration for Access to DoD Scientific and Technical Information			AFM 100-20
Regulation Committee (I&L)			FIPS Pub 25
Regulations			FIPS Pub 3-1
			AFR 0-2
			TO 0-4-6-1
			DI-M-5205A
			TO 0-1-01
			FIPS Pub 0
			AFR 80-39
			DoDI 5126.3
			ESD ASPR Sup. 1

Software Related Standards and Regulations
 tions, handbooks, Manuals, and Regulated Features
 rization of Data Elements and Related Features
 s Accounting Data Elements and Related Features (C)
 of Standard Data Elements and Related Media Standards
 or Information Interchange and Related Services (C)
 processing Computer Program and Related Standards and Regulations
 lume III - Summary of Software Relations
 d Don'ts of Air Force Industry Relations with Federal Contract Research Centers and Management Support C
 ontractors] Contractors and Procurement Source
 Small Business, Contractor Relations, and Procurement Source
 port] Reliability and Maintainability Allocations, Assessments, and Analysis Re
 nt, and thinitions] Reliability and Maintainability Programs for Systems, Subsystems, Equipme
 Reliability Development Tests
 Reliability Evaluation from Demonstration Data
 Reliability Prediction
 Reliability Prediction of Electronic Equipment
 Reliability Program for Systems and Equipment Development and Production
 Reliability Report
 Reliability Tests Exponential Distribution
 Reliability/Maintainability Assessment and Demonstration Reports
 Reliability/Maintainability Demonstration Plan
 Reliability/Maintainability Program Plan
 Reliability/Maintainability Program Status Report
 Reliability, Maintainability Data Reporting and Feedback Failure Summary
 Reliability, Maintainability, Human Factors and Safety
 Repair
 Repair Level Analysis Reports (ORLA)
 Project Status Report
 Final Test Report
 R&D Status Report
 Cost Allocation Report
 Final Report
 Reliability Report
 Subsystem Design Analysis Report
 erator/Critical Tasks Analysis Report
 nical Performance Measurement Report
 ons, Assessments, and Analysis Report
 ment Test and Evaluation Test Report
 r Software Test and Evaluation Report
 system Engineering Development Report
 Maintainability Program Status Report
 Pert/Time Network and Analysis Report
 Pert/Time Network and Analysis Report (Assignment Type Contract)
 Cost Report (C/SSR)
 Cost/Schedule Status Report

ASD-TR-76-11, V.III
 DLA Handbook 5025.1
 AFR 300-5
 MIL-STD-482A
 DoDD 5000.18
 FIPS Pub 7
 DoDI 4105.65
 ASD-TR-76-11, V.III
 AFP 70-1
 AFSCR 11-17
 ESDR 70-8
 DI-R-3535
 AFR 80-5
 MIL-STD-2068
 MIL-STD-757
 MIL-STD-756A
 MIL-HDBK 2178
 MIL-STD-785A
 MIL-STD-1304A
 MIL-STD-781B
 DI-R-3544
 DI-P-3538
 DI-R-3533
 DI-R-3542
 DI-R-3537A
 MIL-STD-721B
 MIL-STD-1390B
 DI-R-3549
 DI-A-3004A
 DI-T-3716A
 DI-A-3002
 DI-A-5303
 DI-A-5303
 MIL-STD-1304A
 DI-S-3581
 DI-H-7012
 DI-S-3619
 DI-R-3535
 DI-T-3717A
 DI-T-5162B
 DI-S-3582
 DI-R-3542
 DI-A-5024
 DI-A-5025
 DI-A-5002
 DI-F-6010

Management Guide to Avionics Sof
 // Index of Publica
 |Standards
 |Configuration Statu
 |Implementation
 |Implementation of the Code f
 |Acquisition of Automatic Data P
 |Management Guide to Avionics Sof
 |Do's an
 |Do's an
 |Human Op
 |Tec
 |Reliability and Maintainability
 |Computer Program Configuration I
 |Compute
 |Sub
 |Reliability/
 |Preliminary
 |Periodic

RADC-TR-74-300, V.XIII
 MIL-STD-1304A

Change Status Report (Computer Program)	DI-E-3123
Contract Funds Status Report (CFR)	DI-F-6004A
Cost Performance Report (CPR)	DI-F-6000A
Cost Data Summary Report (DD Form 1921)	DI-F-6006
Test Analysis Report (RT)	DI-T-30704
ADPE Systems Configuration Report (Schematics)	DI-A-30023
AFSC Technical Report Program	AFSCR 80-20
AFSC Procurement Summary Report, (RCS: SYS-PMX(M)7601)	AFSCR 70-12
Management Data Collection and Reporting	RADC-TR-74-300, V.IX
Contractor Cost Data Reporting (C/IDL/PA&E)	DoDI 7000.11
Contractor Cost Data Reporting (CDDR) System	AFSCP/AFLCP 800-15
Reporting and Feedback Failure Summary Reports	DI-R-3537A
Reporting of Quality Deficiency Data	AFR 74-6
Reporting on Selected Acquisitions	AFSCR 70-11
Reporting Software Development Status	ESD-TR-75-85
Reporting System	AFR 70-12
Reporting System	AFI 66-661
Reporting, Investigation and Resolution During Systems Acquisition	AFSCR 66-71
Acceptance Test Reports	DI-T-3721A
Technical Reports	DI-S-3591A
System/Design Trade Study Reports	DI-S-3606
g and Feedback Failure Summary Reports	DI-R-3537A
m Modification Design Data and Reports	DI-E-3114
y Assessment and Demonstration Status Reports (C)	DI-R-3544
gation Management Accounting Reports (Machine or Manually Prepared)	DoDI 7000.10
Optimum Repair Level Analysis Reports (ORLA)	DI-E-3133
Selected Acquisition Reports (SAR) (C)	DI-R-3549
Selected Acquisition Reports (SAKS)	DoDI 7000.3
Test Reports - General	AFR 80-5
Follow-up on Reports of Audit	DI-T-3718A
s for Scientific and Technical Reports Prepared by or for the Department of Defense	AFR 175-2
Test Reports, Preparation of Format Requirement	DoDI 4100.31
actory of DoD Engineering Data Repositories	MIL-STD-847A
Technical Representation of the Control Characters of ASCII (FIPS 1)	MIL-STD-831
Graphical Representations	MIL-HDBK 3318
rdization of Data Elements and Representatives of the Contracting Officer (TRCO)	DoDI 4105.64
Technical Request for Deviation/Waiver	FIPS Pub 36
Request for Proposal Preparation Guide	FIPS Pub 28
Required Operational Capabilities (ROCs)	AFR 70-9.
Requirement for Consent to Subcontracts	DI-E-3129
Requirement Document (TRD)	AFSCP 70-4
Quality Program Requirements	AFR 57-1
Engineering Program Requirements	ASPR Sec. XXIII, Pt. 2
Value Engineering Program Requirements	DI-T-30713
	MIL-0-9858A
	MIL-V-38352

Requirements	(for Systems and Equipments)	|Managem	AFR 178-7
Requirements	(C)	|Manual, Techn	MIL-M-38784A
Requirements	(C)	|Supp	MIL-STD-1535A
Requirements	(DTACCS)	|Prog	RADC-TR-74-300, V.V
Requirements	Requirements and Audience Needs	|Estima	RADC-TR-74-300, V.XI
Requirements	Requirements for	|An Air Force G	ESD-TR-76-159
Requirements	Requirements for Automatic Data Processing Systems (ADPS)	|Soft	MIL-S-52779
Requirements	Requirements for Automatic Data Processing (ADP) Systems (C)	|Policies for the Managem	MIL-STD-470
Requirements	Requirements for Digital Computer Program Documentation	|Guide to E	DoDD 5000.19
Requirements	Requirements for Military Systems, Equipment and Facilities	|Programmi	DoDI 5000.22
Requirements	Requirements for Scientific and Technical Reports Prepared by or for the	|System Safety Program for System	DoDD 4630.1
Requirements	Requirements of the Information Processing Standards Program	|Department of Defense Acquisiti	ESD-TR-75-308
Requirements	Requirements Allocation Sheets	|DoD Acquisiti	MIL-STD-882
Requirements	Requirements Analysis	|Air	AFR 300-8
Requirements	Requirements Analysis	|Techn	DoDD 5200.28
Requirements	Requirements Control List (AHSDL)	|Documents Used	WS-8506 Rev. 1
Requirements	Requirements Control Program (C)	|Claus	MIL-H-46855A
Requirements	Requirements Document (RD)	|Ma	MIL-STD-847A
Requirements	Requirements Document (IFRD)	|Admin	FIPS Pub 23
Requirements	Requirements Information (OOPRI), Part I: Field and Organization	|Deficienc	DI-S-3605
Requirements	Requirements Plan		DI-H-3267
Requirements	Requisitioning of Engineering Data		DI-H-3249A
Research	Research		DoDD 5000.19-L, V.11
Research and Development	Research and Development		DoDI 5000.32
Research and Development	Research and Development		DI-E-30105
Research and Development	Research and Development Computer Software		DI-T-3729A
Research and Development	Research and Development Contracts		MIL-STD-1519
Research and Development	Research and Development Labs		DI-H-3253
Research and Technology Support to AFSC Organizations	Research by the DoD (DDR&E)		DI-S-3553
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Research, Development, Test and Evaluation (RDT&E) Forward Financing	Research, Development, Test and Evaluation (COMSEC RDT&E) Procedures		DoDD 4105.68
Research, Development, Test and Evaluation (COMSEC RDT&E) Procedures	Resolution During Systems Acquisition		AFR 80-4
Resolution During Systems Acquisition			AFR 177-13
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			AFR 80-53
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			DI-E-30149
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			ASPR Sec. VII, Pt. 4
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			AFSCR 80-23
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			AFSCR 172-9
			AFR 80-7
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Transfer of Program Management	Responsibilities of AFSC PR-MIPR Control Offices and the AFSC MIPR Liaiso		AFR 800-4
Functions and	Responsibility for the Administration and Management of Automatic Data Pr		AFSCM 70-1
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Management Assessment	Review and Improvement Program (I&L)		AFSCR 800-27
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	Review of Systems Acquisition Programs and Test Resources		ASPR Sec. XXIII, Pt. 1
Command	Review Process	Management Assessment Re	AFSCR 800-1
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Processing Physical Security and	Risk Management	Guidelines for Automatic Data Pr	ASPR Sec. IX, Pt. 2
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	Schematic Block Diagrams	DI-S-3607
Systems Configuration Report (S Publication List 84 Computer	Science and Technology Publications	DI-A-30023
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	Security Publications	DoD 5200.28-1
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	Selected Acquisition Reports (SAR) (C)	AFR 80-7
	Selected Acquisition Reports (SAKs)	DI-R-3529
	Selected Acquisitions	DI-E-3117
	Selecting, Tailoring, and Applying Specifications and Standards	DoDI 7000.3
Performance Measurement on Guide for	Selection and Acquisition of Automatic Data Processing Resources (C)	AFR 800-5
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Policies on	Selection Process	AFR 800-22
Character Parity	Selection, Acquisition, and Management of Automatic Data Processing Resources for Parallel-by-bit Data Communication in the Code for Inf Character Structure and Character Parity	DIAI 65-1
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Service Center		ASPR Section XVII
Service Contracts		ASPR Sec. XXII, Pt. 1
Service Contracts in General		ASPR Sec. XXII, Pt. 10
Services		ASPR Sec. XXII, Pt. 3
Services	Contracting	AFR 70-19
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Services	Procurement	ASPR Sec. XXII, Pt. 2
Services (Accounting for R&D) - H096/OY		AFSCM 171-265
Services (C)	Acquisition of Automatic Data Pr	DoDI 4105.65
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Services Center		AFR 23-41
Services Management and Control		AFM 66-18
Services Procurement Regulation Committee (I&L)		DoDI 5126.3
Services Procurement Regulations		ESD ASPR Sup. 1
Sets		FIPS Pub 32
Sharing Program (C)	Optical C	DoDI 5030.40
Sheets		DI-S-3608
Sheets		DI-S-3605
Short Form)	Configuration Control - Engineer	MIL-STD-481A
Should Cost		AFP 70-5
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Simulators	Digital Computation	MIL-STD-876A
Single Manager Operations (I&L)		DoDI 4100.31
Sizing Data		DI-S-30568
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Software	Res	DI-E-30149
Software	Contractor Notification of Chang	DI-A-5398
Software	The Nuclear Safety Cross-Check A	AFR 122-9

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	Software Acquisition Management Guidebook: Software Maintenance		ESD-TR-77-327
	Software Acquisition Management Guidebook: Overview of the Series		ESD-TR-78-141
	Software Acquisition Management Guidebook: Validation and Certification		ESD-TR-77-326
	Software Acquisition Management Guidebook: Verification		ESD-TR-77-263
	Software Acquisition Management Guidebook: Life Cycle Events		ESD-TR-77-22
	Software Acquisition Management Guidebook: Reviews and Audits		ESD-TR-78-117
	Software Acquisition Management Guidebook: Statement of Work Preparation		ESD-TR-77-16
	Software Acquisition Management Guidebook: Software Quality Assurance		ESD-TR-77-255
	Software Acquisition Management Guidebook: Software Cost Estimation and M		ESD-TR-79-140
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	Software Acquisition Volume III - Summary of Software Related Standards a		ASD-TR-76-11, V.III
	Software Change Proposal		DI-H-5076A
	Software Cost Estimation and Measurement	|Software Acq	ESD-TR-78-140
	Software Delivery Documentation		DI-A-30001
	Software Design and Development	Standard Engi	SAMSO Exhibit 73-3
	Software Design Plan		DI-H-5074B
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	Software Development and Maintenance Facilities	Software Acq	ESD-TR-77-130
	Software Development Status	|An Air Force Gui	ESD-TR-75-85
	Software Documentation Requirements		ESD-TR-76-159
	Software End Item		DI-H-5072A
	Software Flowchart(s) Standards	|Software Acq	DI-H-5201
	Software Maintenance		ESD-TR-77-327
	Software Maintenance Manual		DI-M-5118
	Software Management: A Primer for Project Management and Quality Control		NBS Spec. Pub. 500-11
	Software Program Resource Requirements		RADC-TR-74-300, V.XI
	Software Project Planning Chart		DI-A-5323
	Software Quality Assurance	|Software Acq	ESD-TR-77-255
	Software Quality Assurance Program Requirements		MIL-S-52779
	Software Reference Manual, Computer Operator's		DI-M-5205A
	Software Related Standards and Regulatory Management Guide to Avionics Sof		ASD-TR-76-11, V.III
	Software Summary for Describing Computer Programs and Automated Data Syst		FIPS Pub 30
	Software Supporting Data		DI-H-5077
	Software Systems		RADC-TR-74-325
	Software Technical Description		DI-H-5256
	Software Test and Evaluation Report		DI-T-5162B
	Software Test Plan		DI-T-5161B
	Software Tool Impact		RADC-TR-74-300, V. XIV
	Software		DI-H-5067
	Software		DI-H-5069
	Software		DI-H-5070
	Software	Co	DI-H-5071

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es for Procedural Languages (Software)	Data Processing Packa	DI-H-5068
Intenance Manual (Operational Software)	Computer Program Configuration I	DI-M-30408
s/Maintenance Manual (Support Software)	|User	DI-M-30407
tem Users Manual (Operational Software)	|Computer Program Configuration I	DI-M-30404
y Equipment Programming Aids (Software) & Manuals	|Commercial Computer & Ancillar	DI-M-5110A
Computer	|Software/Computer Program/Computer Data Base Configuration Item(s)	DI-E-30145
Contract Clauses and	|ASPR Sec. III, Pr. 5	ASPR Section VII
tor Relations, and Procurement	|ASPR Section VII	ESDR 70-8
R&D	|Small Business, Contrac	AFSCR 80-15
Source Selection Policy and Guidance		AFSCR 70-15
Source Selection Policy and Procedures		DoDD 4105.62
Sources for Major Defense Systems (DDR&E)		AFSCR 23-9
Space and Missile Systems Organization		DoDD 5160.32
Space Systems (DDR&E)		SAMSO-TR-68-268
Spaceborne Systems	|Definit	AFR 0-15
Specialized USAF Intelligence Publications	|Defense	DI-E-3104
Specification		DI-E-3101
System Specification		DI-E-30141
Specification		DI-E-3105
Specification		DI-E-30102
Specification		DI-E-3120A
Specification		DI-E-30110
Specification		DI-E-30140
Specification		DI-E-3119A
Specification		DI-E-30113
Specification		DI-E-30139
Specification	|Configur	DI-E-3103A
Specification	|An Air Force Guide to th	ESD-TR-78-139
Specification (DS)	|Confi	DI-E-3132
Specification (Modification Programs)	|P	RADC-TR-74-390, V.VI
Specification (PS)		DI-E-3102A
Specification Change Notice (Computer Program)		DI-E-30106
Specification Contractor Developed		DI-E-3117
Specification Contractor Developed		DI-S-30552
Specification Practices		DI-E-3134
Specifications		DI-E-5384
Specifications (Including Purchase Description)		MIL-STD-490
Specifications (Software)		ESDR 81-1
Specifications & Standards Manual		RADC-TR-74-300, V.II
Specifications and Associated Documents	|Outline of Forms and Instr	DI-A-5013
Specifications and Standards	Guide for Sele	DI-H-5071
		AFSCM/AFLCM 81-1
		MIL-STD-961
		ESDP 800-3

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Department of Defense Index of	Specifications and Standards - Part I, Alphabetical Listing		(DoDISS Part I)
Department of Defense Index of	Specifications and Standards - Part II, Numerical Listing		(DoDISS Part II)
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Application of Military	Specifications and Standards to DoD Procurements		AFSCR 800-25
d Manufacturing Standards and	Specifications and Standards Application (I&L)		DoDD 4120.21
Standards and	Specifications for Application in Computer-Aided Design and Computer-Aide		MIL-STD-960
	Specifications, Order of Precedence for the Selection of		MIL-STD-143B
	Specifications, Plans and Drawings		ASPR Sec. I, Pt. 12
	Specifications, Types and Forms, Military (Os) Series		MIL-S-83490/2
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Subsets of the	Standard Code for Information Interchange		FIPS Pub 15
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Implementation of	Standard Data Elements and Related Features (C)		DoDD 5000.18
	Standard Engineering Practices for Computer Software Design and Developme		SAMSO Exhibit 73-3
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	Standard Intelligence Publications System		AFR 5-3
	Standard Microcircuits		MIL-STD-1562A
	Standard Publications and Recurring Periodicals	Num	AFR 0-2
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ary Command and Control System	Standardization of Data Elements and Representations		FIPS Pub 28
	Standardization of Data Elements and Related Features		AFR 300-5
	Standardization of Military Terminology (C)		DoDD 5000.9
	Standardization Plans and Management		MIL-STD-680
Contractor	Standardization Policies, Procedures, and Instructions		DoD 4120.3-M
Data Elements and Data Codes	Standardization Program (C)		DoDD 5000.12
Data Elements and Data Codes	Standardization Program (DSP)		DoDD 5000.11
Defense	Standardization Programs		AFR 73-1
Department of Defense	Standardized Terms		DoDD 4120.3
International Military	Standards		AFM 11-1, V.1
US Air Force Glossary of	Standards		AFR 81-6
Computer Programming	Standards		DI-M-30409
Cost Accounting	Standards		ASPR Sec. III, Pt. 12
Documentation	Standards		RADC-TR-74-300, V.VII
Programming Language	Standards		RADC-TR-74-300, V.I
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Communication System Technical	Standards	Military	MIL-STD-188C
Computer Software Flowchart(s)	Standards		DI-H-5201
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Control and Communications System	Standards (C)	Tactical Command and Control	JCSP 10
-Government Specifications and	Standards (I&L )	|Development and Use of Non	DoDI 4120.20
ary Command and Control System	Standards (W/MCCS) (FOUO)	|Worldwide Milit	JCSP 7
se Index of Specifications and	Standards - Part I, Alphabetical Listing	|Department of Defense	(DoDISS Part I)
Index of National Aerospace	Standards - Part I, Numerical Listing		(NASI Index Part I)
Index of National Aerospace	Standards - Part II, Alphabetical Listing		(NASI Index Part II)
se Index of Specifications and	Standards - Part II, Numerical Listing	|Department of Defense	(DoDISS Part II)
or the Preparation of Military	Standards and Military Handbooks	|Outline of Forms and Instruction	MIL-STD-962
- Summary of Software Related	Standards and Regulations	|Management Guide to Avionics Sof	ASD-TR-76-11, V.III
Computer-Aided Manufacturing	Standards and Specifications for Application in Computer-Aided Design and		MIL-STD-960
lication of Specifications and	Standards and Specifications, Order of Precedence for the Selection of		MIL-STD-143B
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Specifications and	Standards to DoD Procurements	Application	AFSCR 800-25
Federal Information Processing	Standards Application (I&L)		DoDD 4120.21
Specifications &	Standards Index		FIPS Pub 12-2
ated Data System Documentation	Standards Manual	|DoD Autom	AFSCH/AFLCM 81-1
of the Information Processing	Standards Manual	Objectives and Requirements	DoD 4120.17-M
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General Principles,	Standards Register	Accounting and Finance System	AFM 177-190
quisition Management Guidebook:	Standards, and Policies of the Air Force Accounting and Finance System	Software Acq	ESD-TR-77-16
	Statement of Work Preparation		ESDP 800-4
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	Statement of Work Preparation Guide		AFR 80-45
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	Status of Noncryptographic JANAPs and ACPs		AFSCM 171-380
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	Status Accounting System (CSAS) (DSD: D027)		DI-A-3002
	Status Accounting System (CSAS) (DSD: D027)		DI-A-5004A
	Status Report		DI-R-3542
	Status Report	|Relia	DI-F-6010
	Status Report (C/SSR)		DI-E-3123
	Status Report (Computer Program)		DI-F-6004A
	Status Report (CFSR)		DoDI 7000.10
	Status Reports (C)	Contract Cost Performance,	AFSCR 70-2
	Strategy Panel		DI-A-3023
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	Structure (WBS) for Defense Materiel Items		FIPS Pub 17-1
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	Structure and Character Parity Sense for Parallel-by-bit Data Communication		AFSCM 173-4
	Structure and Codes		

Work Breakdown	Structured Programming Series	RADC-TR-74-300, V. I-XV
Work Breakdown	Structures for Defense Material Items	DI-E-5037
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Data Structuring	Study	RADC-TR-74-300, V. IV
Program Design	Study Reports	RADC-TR-74-300, V. VIII
Validation and Verification	Style and Format Requirements	RADC-TR-74-300, V. XV
System/Design Trade	Subcontracting Policies and Procedures	DI-S-3606
Manual, Technical, General	Subcontracts	MIL-M-38784A
Requirement for Consent to	Subjective Index of Standard Publications and Recurring Periodicals	ASPR Section XXIII
Numerical and	Subsets of the Standard Code for Information Interchange	ASPR Sec. XXIII, Pt. 2
	Subsystem Design Analysis Report	FIPS Pub 15
Computer Program	Subsystem Development Milestones	DI-S-3581
	Subsystem Engineering Development Report	SSD Exhibit 61-47B
	Subsystem Test and Evaluation (PSTE) Plan	DI-S-3582
Personnel	Subsystem/Human Factors Development Plan (HFDP)	DI-H-3272
Personnel	Subsystems and Equipment, Requirements for	DI-H-3251
Program for Systems and Associated	Subsystems, Equipment, and Munitions	MIL-STD-882
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Software	Summary of Software Related Standards and Management Guide to Avionics Sof	FIPS Pub 30
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Cost Data	Summary Report, (RCS: SYS-PMX(M)7601)	DI-F-6006
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Reporting and Feedback Failure	Supplemental Agreements	DI-R-3537A
	Supplier Quality Assurance Program Requirements	ASPR Sec. XXVI, Pt. 3
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Defense	Supply Agency Publications	AFR 70-17
Defense	Supply Agency Publications (C)	AFR 5-9
Manuals (types 7, 8, and 9),	Supply Bulletins, and Lubrication Orders | Military Publications, Index of	DoDI 5025.7
Manuals, Technical Bulletins,	Supply Manuals (types 7, 8, and 9), Sup | Military Publications, Index of	DA PAM 310-4
Utilization of MIRE	Support	DA PAM 310-4
lementing Integrated Logistics	Support	ESDR 80-1
Interagency	Support (ILS) Program for Systems and Equipment	AFSCP 800-21
Integrated Logistics	Support of Basic Research by the DoD (DDR&E)	AFR 400-27
Administration and	Support of Research	AFR 800-8
Air Force Policy on the	Support of Systems and Equipment	DoDD 3210.1
Interim Contractor	Support to AFSC Organizations	AFR 80-4
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Logistic	Support Analysis Data Element Definitions	AFSCR 80-23
Logistic	Support Contractors	MIL-STD-1388/1
Research Centers and Management	Support Data	MIL-STD-1388/2
Training	Support Data (CRISD)	AFSCR 11-17
Computer Resources Integrated		DI-H-3258A
		DI-S-30569

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er Programs and Automated Data Systems	Revi	FIPS Pub 30
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ures for Computer Resources in Systems	Procedures for Mana	AFR 300-2
for Automatic Data Processing Systems	Security Requirements for Au	AFR 800-14, V.II
g Automatic Data Processing Systems	|Selection of Contrac	AFR 300-8
Automatic Data Processing Systems	Management of Compu	AFM 171-100, V.1-4
Systems (ADPS)	World-Wid	DoDD 5200.28
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Systems (ADS) Standards	Department of	DoDD 4105.62
Systems (C)	Requirements for	DoDD 5000.49
Systems (DDR&E)	|Integrated Logist	DoDD 5100.30
Systems (DDR&E)	|Air Force	JCSP 17
Systems (I&I)	|Maintainabil	MIL-STD-415D
Systems (WWMCCS) (DTACCS)	|Surv	MIL-STD-882
Systems (FOUO)	|Integrated Logistics Suppor	MIL-STD-19-L, V.II
Systems and Associated Equipment, Design Criteria for	|Tailoring Guide for Application	DoDI 5000.32
Systems and Associated Subsystems and Equipment, Requirements for	|Deficiency Reporting, Inves	MIL-HDBK 226
Systems and Data Requirements Control List (AMSDL)	|Acquisition Programs and Test Resources	AFR 800-21
Systems and Data Requirements Control Program (C)	|Systems Acquisition Programs and Test Resources	AFR 800-8
Systems and Equipment	|Systems Acquisition Programs and Test Resources	AFR 800-7
Systems and Equipment	|Systems Command (AFSC)	AFSCR/AFCLR 80-17
Systems and Equipment	|Systems Command - Scientific and Technical Liaison Offices	MIL-STD-785A
Systems and Equipment	|Systems Configuration Report (Schematics)	MIL-STD-470
Systems and Equipment	|Systems Criteria (Joint Implementation Guide)	AFSCR 70-11
Systems and Equipment	|Systems Design Center (AFSDDC)	MIL-STD-876A
Systems and Equipment Development and Production	|Systems Division	FIPS Pub 42-1
Systems and Financial Reporting on Selected Acquisitions	|Systems Division	DoDD 7000.1
Systems for Real-time Training Simulators	|Systems Division Cost Analysis Program	AFSCR 66-71
Systems in the Competitive Procurement Environment		AFR 800-18
Systems of the Department of Defense (C)		AFSCR 800-1
Systems Acquisition		MIL-HDBK 248
Systems Acquisition for Foreign Military Service		AFR 23-8
Systems Acquisition Programs and Test Resources		AFR 23-34
Systems Command (AFSC)		DI-A-30023
Systems Command - Scientific and Technical Liaison Offices		AFSCR/AFCLR 173-5
Systems Configuration Report (Schematics)		AFR 23-62
Systems Criteria (Joint Implementation Guide)		AFSCR 23-10
Systems Design Center (AFSDDC)		AFSCR 23-3
Systems Division		ESDR 173-1
Systems Division		
Systems Division Cost Analysis Program		

Tactical Digital Systems Documentation Standards (C)
 DoD Automated Data Systems Documentation Standards (C)
 Systems Manual
 Space and Missile Systems Organization
 33500 (Phase II) Data Systems Publications
 Certification Program for Weapon Systems Software
 Electronic Systems Test and Evaluation
 Users Manual (Information Systems)
 ring Requirements for Military Systems, Equipment and Facilities
 chical Reviews and Audits for Systems, Equipment, and Computer Programs
 ation Management Practices for Systems, Equipment, Munitions and Computer Programs
 g Design Criteria for Military Systems, Equipments and Facilities
 Management of Multi-Service Systems, Programs and Projects
 d Maintainability Programs for Systems, Subsystems, Equipment, and Munitions
 System Allocation Document (SAD)
 Selected Acquisition Reports (SAR) (C)
 Selected Acquisition Reports (SARs)
 Engineering Management Plan (EIMP)
 System Security Plan (SSP)
 System Safety Program Plan (SPPP)
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 Weapons Systems Acquisitions
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 for Preparation of Programmed Tapes and Cards
 Human Operator/Critical Tasks Analysis Report
 Chief Programmer Team Operational Description
 Manual, Technical
 Manual, Technical
 Rights in Technical and Other Data and Copyrights
 s, Index of Technical Manuals, Technical Abstracts Bulletin
 Management of Technical Bulletins, Supply Manuals (types 7, 8, an
 Acquisition of Technical Data (I&L)
 Computer Software Technical Data and Computer Software
 Distribution Statements on Technical Documents
 Distribution Statements on Technical Documents (DDR&E)
 Procedures for Scientific and Technical Evaluation of Independent Research and Development
 and Development
 |ESD Acquisition

|The Nuclear Safety Cross-Check A
 |Human Engineer
 |Human Engineerin
 |Reliability an
 |System
 |AFSC Management and Scientific I
 |AFSC Proc
 |Numerical Index, Alphabati
 |Compatibility an
 |Standards
 |Standards in Naval
 |Standards
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 |Procedures

SECAVINST 3560.1
 DoDI 7935.1
 DI-M-5101
 AFSCR 23-9
 AFR 5-12
 AFR 122-9
 AFSC DH 4-2
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 MIL-H-46853A
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 MIL-STD-1472B
 AFR 800-10
 AFR 80-5
 DI-E-3116
 DoDI 7000.3
 AFR 800-5
 DI-S-3618
 DI-R-3527
 DI-R-3531
 AFSCR 80-14
 AFSCR 70-12
 TO 0-1-01
 JCSP 10
 DoDD 4630.5
 SECAVINST 3560.1
 MIL-HDBK 248
 ESDP 800-5
 FIPS Pub 25
 FIPS Pub 3-1
 FIPS Pub 2
 MIL-P-83497
 DI-H-7012
 RADG-TR-74-300, V.X
 MIL-M-24100B
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 ASPR Sec. IX, Pt. 2
 TAB
 DA PAM 310-4
 DoDI 5010.12
 ASPR Sec. IX, Pt. 5
 DI-H-5256
 AFR 80-45
 DoDD 5200.20
 AFR 80-53
 ESDR 5-3

r Access to DoD Scientific and	Technical Information	| Certification and Registration	AFR 80-39
tion Center for Scientific and	Technical Information	| Defense Documenta	AFR 80-44
tion Center for Scientific and	Technical Information (DDC) (DDR&E)	| Defense Documenta	DoDI 5100.38
n for Access to Scientific and	Technical Information (DDR&E)	| Certification	DoDI 5200.21
The Scientific and	Technical Information Program	| Air Force Sy	AFR 80-40
stems Command - Scientific and	Technical Liaison Offices		AFR 23-34
	Technical Manual (TM) Management (I&L)		DoDI 4151.9
ilitary Publications, Index of	Technical Manuals, Technical Bulletins, Supply Manuals (types 7, 8, an|M		DA PAM 310-4
Major Command Time Compliance	Technical Order (TCTO) Reporting System		AFM 66-661
Time Compliance	Technical Order (TCTO) System: G003A/GC		AFM 171-661
Air Force	Technical Order (TO) System		AFR 8-2
	Technical Order Publication Plan		DI-M-3401
Time Compliance	Technical Order Status and Schedules		DI-M-3402
Air Force	Technical Order System		TO 00-5-15
	Technical Order System		TO 00-5-1
ce Index, Equipment Numbers to	Technical Orders	| Numerical Cross Referen	DI-N-3407A
dex, and Cross Reference Table	Technical Orders	| Numerical Index, Alphabetical In	TO 0-4-6-1
Time Compliance	Technical Orders (TCTOs), Preparation of		TO 0-1-01
nical, Methods and Procedures,	Technical Orders, Preparation of		MIL-T-38804
	Technical Orders, Preparation of		MIL-M-38811
	Technical Performance Measurement Report		DI-S-3619
	Technical Publications for Development Programs		DI-M-3413
	Technical Publications Acquisition Management		AFSCH 310-2
	Technical Report Program		AFSCR 80-20
AFSC	Technical Reports		DI-S-3591A
quirements for Scientific and	Technical Reports Prepared by or for the Department of Defense |Format R		MIL-STD-847A
	Technical Representation at Contractors' Facilities (I&L)		DoDI 4105.64
	Technical Representatives of the Contracting Officer (TRCO)		AFR 70-9
Joint Operational and	Technical Review (JOTR)		AFSCR 800-18
Engineering and	Technical Reviews and Audits for Systems, Equipment, and Computer Program		MIL-STD-1521A(USAF)
Engineering and	Technical Services		ASPR Sec. XXII, Pt. 3
Military Communication System	Technical Services Management and Control		AFM 66-18
Manual,	Technical Standards		MIL-STD-188C
Manual,	Technical, General Style and Format Requirements		MIL-M-38784A
Manual,	Technical, Methods and Procedures, Technical Orders, Preparation of		MIL-N-38811
Price Negotiation Policies and	Technical, Operator's, Preparation of		MIL-M-63036
Code Extension	Techniques		ASPR Sec. III, Pt. 8
	Techniques in 7 or 8 Bits		FIPS Pub 35
	Technology Management Reviews		AFSCR 80-25
	Technology Need Program		AFSCR 80-29
ration of Advanced Development	Technology Program Plans	| Prepa	AFSCR 80-1
sments of Advanced Development	Technology Programs	| Asses	AFSCR 80-19
n List 84 Computer Science and	Technology Publications	| NBS Publicatio	(NBS Pub. List 84)
Laboratory Research and	Technology Support to AFSC Organizations		AFSCR 80-23
Director,	Telecommunications and Command and Control Systems		DoDD 5135.1
Programming of Major	Telecommunications Requirements (DTACCS)		DoDD 4630.1

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SOFTWARE ACQUISITION MANAGEMENT GUIDEBOOK. REGULATIONS, SPECIFI--ETC(U)

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3 OF 3

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computer-Compatible Publication	Text		DI-M-5370
Time Compliance Technical Order (ICTO) System: G003A/GC			AFM 171-661
Time Compliance Technical Order (ICTO) Reporting System			AFM 66-661
Time Compliance Technical Order System			TO 00-5-15
Time Compliance Technical Orders (ICTOs), Preparation of			MIL-T-38804
Time Item List			DI-S-3585
Time Line Sheets			DI-S-3608
Timing and Sizing Data			DI-S-30568
Tool Impact			DI-S-3606
Trade Study Reports			AFR 23-6
Training Command			MIL-STD-1379A
Training Data			DI-H-3277
Training Equipment Computer Program Documentation			RADC-TR-74-300, V. XII
Training Materials			DI-H-3269A
Training Needs/Exercising Requirements Analysis			MIL-STD-1379A
Training Operations and Training Data			MIL-STD-876A
Training Simulators			DI-H-3258A
Training Support Data			DA PAM 310-3
Training, and Organizational Publications			AFR 800-4
Transfer of Program Management Responsibilities			FIPS Pub 16-1
Transmission			AFR 124-8
Trust in Contract, Procurement, and Other Matters (PA)			AFR 800-19
Turnover			AFM 66-661
ICTO Reporting System			AFM 171-661
ICTO System: G003A/GC			MIL-T-38804
ICTOs), Preparation of			DI-T-3729A
IFRD)			DoDI 4151.9
TM Management (I&L)			AFR 8-2
TO System			AFR 70-9
TRCO)			DI-T-30713
TRD)			DoDD 5200.5
U) (DTACCS)			DoDI 5000.33
Uniform Budget/Cost Terms and Definitions			ASPR Sec. XX, Pt. 3
Uniform Contract Line Item Numbering System			(US Govt. Pubs)
United States Government Publications			AFSCR 80-8
Unsolicited Proposals			FIPS Pub 1
Usas X3.4-1968)			FIPS Pub 2
Usas X3.6-1965)			DI-M-30419
User's Manual (Computer Program)			DI-M-3410
Users Manual (Computer Program)			DI-M-30421
Users Manual (Information Systems)			DI-M-30404
Users Manual (Operational Software)			DI-M-30401
Users Manual (UM)			DI-M-30407
Users/Maintenance Manual (Support Software)			DI-M-30401
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FIPS Pub 2

|Graphical Representation of the
|Recorded Magnetic Tape for Infor
|Flowchart Symbols and their Usag
|Code for
|Perforated Tape Code for

FIPS Pub 36
FIPS Pub 25
FIPS Pub 24
FIPS Pub 1

LIST OF ABBREVIATIONS

<u>Abbreviation</u>	<u>Definition</u>
ACSN	Advance Change/Study Notice
ADP	Automatic Data Processing
ADPE	Automatic Data Processing Equipment
ADPS	Automated Data Processing System
ADS	Automated Data Systems
AF	Air Force
AFA/MS	Air Force Audit/Management System
AFCAO	Air Force Computer Acquisition Office
AFCMD	Air Force Contract Management Division
AFCS	Air Force Communications Service
AFSDDC	Air Force Data Systems Design Center
AFLC	Air Force Logistics Command
AFLCM	AFLC Manual
AFLCP	AFLC Pamphlet
AFLCR	AFLC Regulation
AFM	Air Force Manual
AFP	Air Force Pamphlet
AFPRO	Air Force Plant Representation Office
AFR	Air Force Regulation
AFSC	Air Force Systems Command
AFSCM	AFSC Manual
AFSCP	AFSC Pamphlet
AFSCR	AFSC Regulation
AFSCRIP	AFSC Periodical
AFTEC	Air Force Test and Evaluation Center
AMC	Army Materiel Command
AMIS	Acquisition Management Information Systems
AMSDL	DoD Acquisition Management Systems and Data Requirements Control List
AMSL	Acquisition Management Systems List
AN	Army/Navy
ANA	Army/Navy/Air Force
AND	Air Force/Navy Aeronautical Design Standard
ANSI	American National Standards Institute
APT	Automatically Programmed Tool
ARCS	Aerospace Resources and Configuration System
ASCI I	American Standard Code for Information Interchange
ASD	Aeronautical Systems Division
ASPR	Armed Services Procurement Regulation
ATC	Air Training Command
BA/PA	Budget Authorization/Program Authorization
BU	Bulletin
BULL	Bulletin
C	Comptroller
C3	Command, Control, and Communications
CCB	Configuration Control Board
CCDR	Contractor Cost Data Reporting
CDR	Critical Design Review

LIST OF ABBREVIATIONS (Continued)

<u>Abbreviation</u>	<u>Definition</u>
CDRL	Contract Data Requirements List
CFE	Contractor-Furnished Equipment
CFSR	Contract Funds Status Report
CI	Configuration Item
CMP	Configuration Management Plan
COBOL	Common Business-Oriented Language
COMSEC	Communications Security
CONUS	Continental United States
CPC	Computer Program Component
CPCI	Computer Program Configuration Item
CPDP	Computer Program Development Plan
CPR	Cost Performance Report
CRISP	Computer Resources Integrated Support Plan
CRWG	Computer Resource Working Group
CSAS	Configuration Status Accounting System
CWBS	Contract Work Breakdown Structure
C/SCSC	Cost/Schedule Control Systems Criteria
C/SSR	Cost/Schedule Status Report
DAR	Data Automation Requirement
DARCOM	Army Development and Readiness Command
DASA	Defense Atomic Support Agency
DCA	Defense Communications Agency
DCP	Decision Coordinating Paper
DDC	Defense Documentation Center
DDR&E	Director of Defense Research and Evaluation
DH	Design Handbook
DI	Data Item
DIA	Defense Intelligence Agency
DIAI	DIA Instruction
DIAH	DIA Manual
DIAR	DIA Regulation
DID	Data Item Description
DIDS	Defense Integrated Data System
DLA	Defense Logistics Agency
DoD	Department of Defense
DoDD	Department of Defense Directive
DoDI	Department of Defense Instruction
DoDISS	DoD Index of Specifications and Standards
DPC	Defense Procurement Circular
DS	Data Base Specification
DSA	Defense Supply Agency
DSAP	Data System Automation Program
DSARC	Defense Systems Acquisition Review Council
DSP	Defense Standardization Program
DT&E	Development Test and Evaluation
DTACCS	Director of Telecommunications, Command and Control Systems
ECIP	Exercising Capability Implementation Plan
ECO	Engineering Change Order

LIST OF ABBREVIATIONS (Continued)

<u>Abbreviation</u>	<u>Definition</u>
ECP	Engineering Change Proposal
ESD	Electronic Systems Division
ESDM	ESD Manual
ESDP	ESD Pamphlet
ESDR	ESD Regulation
FCA	Functional Configuration Audit
FCCTS	Federal COBOL Compiler Testing Service
FCRC	Federal Contract Research Center
FED	Federal
FD	Functional Description
FIPS	Federal Information Processing Standard
FO.M	Functionally Oriented Maintenance Manual
FORTRAN	Formula Translator
FOT&E	Follow-on Operational Test and Evaluation
FOUO	For Official Use Only
FQR	Formal Qualification Review
FQT	Formal Qualification Test
GFE	Government-Furnished Equipment
GFP	Government-Furnished Property
GSA	General Services Administration
HDBK	Handbook
HFDP	Human Factors Development Plan
HOL	High-Order Language
HQ	Headquarters
I	Intelligence
I&L	Installations and Logistics
ICD	Interface Control Drawing
ICWG	Interface Control Working Group
ID	Identifier
ILS	Integrated Logistics Support
IOC	Initial Operational Capability
IOT&E	Initial Operational Test and Evaluation
JANAP	Joint Army/Navy/Air Force/DASA
JCS	Joint Chiefs of Staff
JCSP	JCS Publication
JOTR	Joint Operational and Technical Review
JOVIAL	Jules' Own Version of the International Algebraic Language
KWIC	Keyword in Context
LCC	Life Cycle Costing
MAJCOM	Major Command
MASIS	AFSC Management and Scientific Information System
MCI	ESD Computer Systems Engineering Directorate
MIL	Military
MILSCAP	Military Standard Contract Administration Procedures
MIPR	Military Interdepartmental Purchase Request
MIS	Management Information System
MM	Program Maintenance Manual
MOA	Memorandum of Agreement

LIST OF ABBREVIATIONS (Continued)

<u>Abbreviation</u>	<u>Definition</u>
NBS	National Bureau of Standards
NMC	Naval Materiel Command
NSA	National Security Agency
NTIS	National Technical Information Service
OM	Computer Operation Manual
OMB	Office of Management and Budget
OPR	Office of Primary Responsibility
ORLA	Optimum Repair Level Analysis
O/S CMP	Operational/Support Configuration Management Procedures
OSD	Office of the Secretary of Defense
OT&E	Operational Test and Evaluation
PA	Procurement Authorization
PA&E	Program Analysis and Evaluation
PBS	Program Breakdown Structure
PCA	Physical Configuration Audit
PCO	Procuring Contracting Officer
PD	Project Directive
PDR	Preliminary Design Review
PERT	Program Evaluation and Review Technique
PL/I	Programming Language/I
PM	Program Manager
PMD	Program Management Directive
PIP	Program Management Plan
PMRT	Program Management Responsibility Transfer
PO	Program Office
PQT	Preliminary Qualification Test
PR	Purchase Request
PS	Program Specification
PSTE	Personnel Subsystem Test and Evaluation
QA	Quality Assurance
QPP	Quality Program Plan
QQPRI	Qualitative and Quantitative Personnel Requirements Information
RADC	Rome Air Development Center
R&D	Research and Development
RD	Data Requirements Document
RDT&E	Research, Development, Test and Evaluation
REV	Revision
RFP	Request for Proposal
ROC	Required Operational Capability
RSS	Regulations, Specifications and Standards
S&T	Scientific and Technical
SA	Supplemental Agreement
SAD	System Allocation Document
SAF	Secretary of the Air Force
SAM	Software Acquisition Management
SAMSO	Space and Missile Systems Organization
SAR	Selected Acquisition Report

LIST OF ABBREVIATIONS (Concluded)

<u>Abbreviation</u>	<u>Definition</u>
SCN	Specification Change Notice
SDR	System Design Review
SECDEF	Secretary of Defense
SEMP	System Engineering Management Plan
SIOP	Single Integrated Operations Plan
SON	Statement of Operational Need
SOW	Statement of Work
SQA	Software Quality Assurance
SRR	System Requirements Review
SS	System/Subsystem Specification
SSD	Special Systems Division
SSP	System Security Plan
SSPP	System Safety Program Plan
STD	Standard
TAB	Technical Abstracts Bulletin
T&E	Test and Evaluation
TBD	To be Determined
TCTO	Time Compliance Technical Order
TEMP	Test & Evaluation Master Plan
TEOA	Test and Evaluation Objectives Annex (of the PMD)
TFRD	Test Facility Requirements Document
TM	Technical Manual
TO	Technical Order
TP	Test and Implementation Plan
TR	Test Analysis Report
TR	Technical Report
TRCO	Technical Representatives of the Contracting Office
UDI	Unique Data Item
UM	User's Manual
US	United States
USAF	United States Air Force
V&V	Validation and Verification
WBS	Work Breakdown Structure
WMCCS	World-Wide Military Command and Control System

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