1.1 SCOPE.

1.1.1 Purpose. This section lists various Government and approved Non-Government documents used in the preparation of engineering drawings. Documents listed herein are applicable only as specified in the contract or DRAWING REQUIREMENTS MANUAL (DRM) sections.

1.2 APPLICABLE DOCUMENTS. Note: DoD Policy Memo 05-3 "Elimination of Waivers to Cite Military Specifications and Standards in Solicitation and Contracts" has eliminated the need for waivers to use MIL-SPECS and MIL-STDS on DoD contracts. (See PREFACE 1, Section 2)

1.2.1 Currency Of Documents. The documents listed below accompanied by their date were current and in effect as of March 2008, the cutoff date for the publication of this Eleventh (11th) edition of the DRM. NOTE: Document's source is listed for each grouping. All documents are available through a single source from IHS. See page ii for source information.

GENERAL SERVICES ADMINISTRATION. (GSA)
DoDSSP Standardization Document Order Desk Bldg 4D,
700 Robbins Ave., Philadelphia, PA 19111-5094
www.dodssp.daps.mil

FEDERAL SPECIFICATIONS

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
A-A-208B VN1	11/19/04	Ink, Marking, Stencil, Opaque (Porous & Non Porous) Surfaces	11
L-F-340B Am2	10/6/76	Film, Sensitized, Wash-off Process; Diazotype	3
L-P-519C RN1	9/1/92	Plastic Sheet Tracing, Glazing and Matte Finish	3, 6, 23
TT-L-50G CN1	3/30/99	Lacquer, Nitrocellulose, Acrylic and Acrylic-Butyrate, Aerosol (In Pressurized Dispensers) (CNCLD: Supsd by: ASTM D 740)	11
TT-I-1795A CN1	9/30/86	(CNCLD: Supsd by: A-A-208)	-
UU-P-561H CN1	9/29/95	Paper, Tracing (CNCLD: Supsd by: A-A-2946 - INACTIVE)	6

FEDERAL STANDARDS

FED-STD-H28A VN1	9/10/01	Screw Thread Standards for Federal Services	12
FED-STD-H28/1A VN1	9/12/90	Nomenclature, Definitions and Letter Symbols for Screw Threads	12
FED-STD-H28/2B VN2	11/28/06	Unified Screw Threads-UN and UNR Thread Forms	12
FED-STD-H28/4 VN4	8/29/06	Controlled Radius Root Screw Threads UNJ Symbol	12
FED-STD-H28/7A VN4	8/29/06	Screw Standards for Federal Services Section 7 Pipe Threads, General Purpose	12
FED-STD-H28/8B VN2	8/29/06	Screw Thread Standards for Federal Services Section 8, Dryseal Pipe Threads	12

1.2 APPLICABLE DOCUMENTS. (Continued)
General Services Administration. (GSA)

FEDERAL STANDARDS (Continued)

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
FED-STD-H28/12A VN3	8/29/06	Acme Threads	12
FED-STD-H28/14A VN4	8/29/06	Buttress Screw Threads 7 Degrees/45 Degrees Flank Angles	12
FED-STD-H28/21B VN4	8/29/06	Metric Screw Threads	12
FED-STD-75C CN1	6/28/93	Glossary of Packing Terms (Supsd by: ANSI MH15.1)	-
FED-STD-376B	1/27/93	Preferred Metric Units for General Use By The Federal Government	2, M1
FED-STD-595C	1/16/08	Color Chips	1, M1

DEPARTMENT of DEFENSE
DoDSSP Standardization Document Order Desk, Bldg 4D,
700 Robbins Ave., Philadelphia, PA 19111-5094
www.dodssp.daps.mil

MILITARY SPECIFICATIONS

DOD-D-1000B CN1	4/20/05	Drawing, Engineering and Associated Lists (Supsd By: MIL-DTL-31000)	ALL
MIL-B-5087B CN1	4/9/97	Bonding, Electrical and Lighting Protection for Aerospace Systems (CNCLD Supsd by: MIL-STD-464)	22
MIL-W-5088L IN1	9/30/98	Wiring, Aerospace Vehicle (Supersedes MIL-W-8160) (INACTIVE FOR NEW DESIGN) (Future Design: Use SAE AS50881)	22
MIL-D-5480F	10/1/94	Data, Engineering and Technical Reproduction, Requirements for (CNCLD Supsd by: MIL-PRF-5480)	ALL
MIL-PRF-5480G	7/1/98	Data, Engineering and Technical Reproduction, Performance Specification	ALL
MIL-E-6051D CN2	4/8/97	Electromagnetic Compatibility Requirements System (CNCLD Supsd by: MIL-STD-464)	22
MIL-P-7105B CN1	7/16/99	Pipe Threads, Taper, Aeronautical National Form, Symbol ANPT, General Requirements (CNCLD: Use SAE AS 71051)	12
MIL-S-7742D CN1	2/17/96	Screw Threads, Standard, Optimum Selected Series, General Specification for (INACTIVE FOR NEW DESIGN after 12-31-91: Use: SAE AS 8879)	12
MIL-B-7838C CN1	6/22/99	Bolt, Internal Wrenching, 160 KSI FTU (CNCLD Supsd by: NASM 7838)	12
MIL-W-8160D CN1	2/4/91	Wiring, Guided Missile, Installation of, General Specification (CNCLD Supsd by MIL-W-5088: Supsd by SAE AS 50881)	-

1.2 APPLICABLE DOCUMENTS. (Continued)
Department of Defense. (DoD) (Continued)

MILITARY SPECIFICATIONS (Continued)

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
MIL-I-8500D RN2	10/10/02	Interchangeability and Replaceability of Component Parts for Aerospace Vehicles	6
MIL-D-8510B CN3	10/1/94	Drawings, Undimensioned, Reproducibles Photographic and Contact, Preparation of (CNCLD Supsd by: MIL-PRF-5480)	2, 6, 22
MIL-S-8879C CN3	2/24/03	Screw Threads, Controlled Radius Root with Increased Minor Diameter, General Specification for (INACTIVE: Use for Reprocurement) (Refer to ASME B1.15)	12
MIL-Q-9858A CN2	10/1/96	Quality Program Requirements (CNCLD: No S/S)	ALL
MIL-M-9868E CN1	6/1/95	Microfilming of Engineering Documents, 35 mm, Requirements for (Inactive for new application after 1/6/95: Use JEDMICS)	6
MIL-M-13231C CN1	11/2/99	Marking of Electronic Items (CNCLD: Supsd by: MIL-STD-13231)	11
MIL-D-28000 Am1	12/14/88	Digital Representation for Communication of Product Data (CNCLD: Supsd by: MIL-PRF-28000)	6
MIL-PRF-28000B	9/30/99	Digital Representation for Communication of Product Data	6
MIL-C-28809B CN1	4/21/95	Circuit Card Assemblies, Rigid, Flexible and Rigid-Flex (CNCLD: No S/S)	4,22
MIL-DTL-31000C	7/9/04	Detail Specification Technical Data Packages (Supersedes MIL-T-31000)	2
MIL-T-31000 RN2	8/9/96	Technical Data Packages, General Specification for (Supersedes: DoD-D-1000, & MIL-T-47500 and /1 thru /6) (Renumbered As MIL-DTL-31000)	2
MIL-M-38761B CN1	6/1/95	Microfilming and Photographing Engineering/Technical Data Documents (INACTIVE FOR NEW DESIGN after 6/1/95: Use JEDMICS)	3,6
MIL-I-45208A CN2	10/1/96	Inspection Systems Requirements (CNCLD: No S/S)	ALL
MIL-T-47500 CN1	10/23/91	Technical Data Package (INACTIVE for new design 10/23/91 Supsd by: MIL-DTL-31000)	2
MIL-PRF-55110G	9/29/95	Printed Wiring Boards, Single, Double and Multilayer (Supsd by MIL- PRF-31032A & Suppl 1)	4, 22
MIL-PRF-31032A-'06 & Suppl 1	03/17/08	Printed Circuit Board/Printed Wiring Board, General Specification for	4, 22
MIL-S-83490 CN1	8/31/95	Specifications, Types and Forms (CNCLD Supsd by: MIL-STD-961)	2

1.2 APPLICABLE DOCUMENTS. (Continued)
Department of Defense. (DOD) (Continued)

MILITARY STANDARDS

DOC. NO.	DATE	TITLE	REFERENCED IN SECTIONS
MIL-STD-8C CN2	3/28/80	Supsd by: ASME Y14.5M	-
MIL-STD-9A CN2	6/12/80	Supsd by: ASME Y14.6	-
MIL-STD-12D CN1	9/25/98	Abbreviations for use on Drawings, and in Specifications, Standards and Technical Documents (CNCLD Supsd by: ASME Y14.38)	24
MIL-STD-14A CN1	9/27/97	Architectural Symbols (CNCLD: No S/S)	18
MIL-STD-15-1A CN1	8/12/68	Graphic Symbols, Electronic-Electric Diagrams (CNCLD Supsd by: ANSI Y32.2 & IEEE Std 315)	-
MIL-STD-15-2 CN2	7/7/95	Electrical Wiring Equipment Symbols for Ships Plans Part 2 (CNCLD: No S/S)	4, 18
MIL-STD-15-3 CN1	6/21/72	Electrical Wiring Symbols/Arch-Elec Layout Drawing (CNCLD Supsd by: ANSI Y32.9)	4, 18
MIL-STD-16C CN1	11/8/65	Electrical and Electronic Reference Designations (CNCLD Supsd by: IEEE Std 200 , ANSI Y32.16)	4, 22
MIL-STD-17/1B CN1	1/30/98	Mechanical Symbols (Non-Aerospace) (CNCLD: Refer to: ASTM F 1000, ASTM F 856, ASME Y32.2.6)	4, 18
MIL-STD-17/2B CN1	12/5/95	Mechanical Symbols for Aeronautical, Aerospace and Spacecraft Use, Part 2 (CNCLD: No S/S)	4, 18
MIL-STD-20 CN2	4/6/71	Welding Terms, Definitions (CNCLD Supsd by: AWS A3.0)	
MIL-STD-25B VN1	12/26/90	Ship Structural Symbols for Use On Ship Drawings	3
MIL-STD-29A CN1	1/30/98	Springs, Mechanical; Drawing Requirements for (CNCLD Supsd by: ASME Y14.13M)	3
MIL-STD-34 CN1	3/28/95	Preparation of Drawings for Optical Elements and Optical Systems, General Requirements (CNCLD Supsd by: ASME Y14.18)	4
MIL-STD-100G CN1	12/14/01	Engineering Drawing Practices (CNCLD: Supsd by: ASME Y14.100 & Appendices A–E, ASME Y14.24, Y14.34M & Y14.35M)	ALL
MIL-STD-129P C4	9/19/07	Marking for Shipment and Storage	6, 11, 20
MIL-STD-130N	12/17/07	Identification Marking of US Military Property	4, 11

1.2 APPLICABLE DOCUMENTS. (Continued)
Department of Defense. (DoD) (Continued)

MILITARY STANDARDS (Continued)

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
MIL-STD-143B CN1	10/1/87	Standards And Specifications, Order of Precedence (CNCLD Supsd by: MIL-STD-970)	2
MIL-STD-171E N1	11/19/01	Finishing of Metal & Wood Surfaces	15
MIL-STD-196E	2/17/98	Joint Electronics Type Designation System	8
MIL-STD-275E CN3	9/30/99	Printed Wiring for Electronic Equipment (CNCLD Supsd by: IPC-2221 and IPC-D-275)	-
MIL-STD-280A CN2	2/12/98	Definitions of Item Levels, Item Exchangeability, Models & Related Items (CNCLD Supsd by: MIL-HDBK-505)	2
MIL-STD-403C N1	10/24/01	Preparation for & Installation of Rivets & Screws, Rocket & Missile Structure (NOTICE OF INACTIVE FOR NEW DESIGN)	21
MIL-STD-429C CN2	10/10/81	Printed Circuit, Terms Definitions (CNCLD Incorporated into IPC-T-50)	22
MIL-STD-454N CN4	5/4/95	Standard General Requirements for Electronic Equipment (CNCLD Supsd by: MIL-HDBK-454)	22
MIL-STD-464A	12/19/02	Electromagnetic Environmental Effects Requirements for Systems (Supersedes: MIL-E-6051)	22
MIL-STD-480B CN1	7/17/92	Configuration Control Engrg. Changes, Deviation & Waivers (CNCLD Supsd by: MIL-STD-973)	11, 23
MIL-STD-481B CN1	7/17/92	Configuration Control Engineering Changes, Deviations and Waivers (Short Form) (CNCLD Supsd by: MIL-STD-973)	11, 23
MIL-STD-482A N1	7/17/92	Configuration Status Accounting Data Elements (CNCLD Supsd by: MIL-STD-973)	11, 23
MIL-STD-490A CN1	8/31/95	Specification Practices (CNCLD: Incorporated into: MIL-STD-961)	1
MIL-STD-498 CN1	5/27/98	Software Development and Documentation (CNCLD Supsd by: IEEE 12207.0, 12207.1 and 12207.2)	2
MIL-STD-681D N1	6/19/00	Identification Coding & Application Hook Up and Lead Wire	22
MIL-STD-804C N2	6/01/95	Formats and Coding of Aperture Cards, Copy and Tabulation Cards (INACTIVE FOR NEW DESIGN after 6/01/95)	10

1.2 APPLICABLE DOCUMENTS. (Continued)
Department of Defense. (DoD) (Continued)

MILITARY STANDARDS (Continued)

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
MIL-STD-806	8/11/65	Graphic Symbols for Logic Diagrams (for Navy use only: See IEEE Std 91)	3, 4, 11, 18, 22
MIL-STD-875A CN2	7/16/93	Type Designation System for Aeronautical and Support Equipment (CNCLD Supsd by: MIL-STD-1812)	8
MIL-STD-882D	2/10/00	System Safety Program Requirements	6
MIL-STD-883G	2/28/06	Test Method and Procedures for Microelectronics	4
MIL-STD-889B N3	5/17/93	Dissimilar Metals	22
MIL-STD-961E N1	4/2/08	Defense and Program – Unique Specifications Format and Content (Supersedes: MIL-STD-490)	2
MIL-STD-962D N1	4/2/08	Department of Defense Standard Practice Defense Standards Format and Content	2
MIL-STD-965B CN1	9/26/96	Military Standards, Parts Control Program (CNCLD Supsd by: MIL-HDBK-965)	4
MIL-STD-970 CN1	10/18/94	Specifications & Standards, Order of Preference for the Selection of (Supersedes : MIL-STD-143) (CNCLD No S/S)	2
MIL-STD-973 CN4	9/30/00	Configuration Management (Supersedes: MIL-STD-480, MIL-STD-481, & MIL-STD-482)	11, 23
MIL-STD-974 CN1	8/14/04	Contractor Integrated Technical Information Service (CITIS)	2
MIL-STD-1189B CN1	6/18/97	Standard Department of Defense Bar Code Symbology (CNCLD Supsd by: AIM BC1)	20
MIL-STD-1285D	9/7/04	Marking of Electrical & Electronic Parts	11
MIL-STD-1306A CN1	5/15/97	Fluerics, Terminology & Symbol (CNCLD: No S/S)	4
MIL-STD-1345B CN1	3/15/95	Test Requirements Document, Preparation of (CNCLD: No S/S)	2
MIL-STD-1353B CN5	9/10/99	Electrical Connectors, Plug-in-Socket and Associated Hardware, Selection and Use of	22
MIL-STD-1464A	5/15/87	Army Nomenclature System	8
MIL-STD-1476C CN1	1/29/96	Metric System, Application in New Design (CNCLD: No S/S)	2

1.2 APPLICABLE DOCUMENTS. (Continued)
Department of Defense. (DoD) (Continued)

MILITARY STANDARDS (Continued)

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
MIL-STD-1519 CN3	4/21/95	Test Requirements Document, Preparation of (CNCLD: No S/S)	2
MIL-STD-1686C	10/25/95	Electrostatic Discharge Control Program for Protection Of Electrical and Electronic Parts, Assemblies and Equipment (Excluding Electrically Initiated Explosive Devices) (Metric)	6
MIL-STD-1806 CN1	6/12/95	Marking Technical Data Prepared for the DoD (CNCLD: No S/S)	6
MIL-STD-1812 CN1	2/14/97	Type Designation, Assignment and Method of Obtaining (Supersedes: MIL-STD-155 and MIL-STD-875) (CNCLD Supsd by: MIL-HDBK-1812)	8
MIL-STD-1840C	6/26/97	Automated Interchange Of Technical Information	6
MIL-STD-2073-1D N1	5/10/02	DoD Standard Practice for Military Packaging	2, 20
MIL-STD-2164 CN1	1/16/96	Environmental Stress Screening Process for Electronic Equipment (CNCLD Supsd by: MIL-HDBK-2164)	22
MIL-STD-13231 CN1	11/2/99	Marking of Electronic Items (Supersedes MIL-M-13231)	11
DOD-STD-2167A CN1	12/5/94	Defense System Software Development (CNCLD Supsd By: MIL-STD-498)	22
MIL-STD-45662A CN2	2/27/95	Calibration Systems Requirements (CNCLD: Supsd by: ISO 10012-1, Pt 1 & ANSI/NCSL Z540.1)	5

MILITARY BULLETINS AND HANDBOOKS

MIL-BUL-103Y CN1	12/22/95	List of Standardized Military Drawings (SMDs) (Superseded by: MIL-HDBK-103)	4
MIL-HDBK-57C	4/5/07	Listing of Fastener Manufacturers' Identification Symbols	11
MIL-HDBK-248B CN1	7/31/03	Acquisition Streamlining (CNCLD: No S/S)	2
MIL-HDBK-263B	7/31/94	Electrostatic Discharge Control Handbook for Protection of Electrical and Electronic Parts, Assemblies and Equipment (Excluding Electrically Initiated Explosive Devices) (Metric)	6
MIL-HDBK-288B	1/14/91	Review and Acceptance of Engineering Drawing Packages	2

1.2 APPLICABLE DOCUMENTS. (Continued)
Department of Defense. (DoD) (Continued)

MILITARY BULLETINS AND HANDBOOKS (Continued)

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
MIL-HDBK-454B C1	4/15/02	General Guidelines for Electronic Equipment (Supersedes MIL-STD-454)	22
MIL-HDBK-505	2/12/98	Definitions of Items, Levels Item Exchangeability, Models and Related Items	2
MIL-HDBK-780-D	5/28/04	Standard Microcircuit Drawings	4
MIL-HDBK-965 CN1	10/4/00	Acquisition Practices for Parts Management (CNCLD: No S/S)	2
MIL-HDBK-1812	2/14/97	Type Designation Assignment and Method of Obtaining	8
MIL-HDBK-2164A	6/19/96	Environmental Stress Screening for Electronic Equipment (Supersedes: MIL-STD-2164)	6, 22

CATALOGING HANDBOOKS

Commander, Defense Logistics Service Center, Battle Creek, MI 49017-3084

H4/H8	Commercial And Government Entity (CAGE)	6, 7 10, 11
Sect A	Name to Code	6, 7, 10, 11
Sect B	Code to Name	6, 7, 10, 11
H6	Federal Item Name Directory (FIND)	8, 11

The H6 Publication is an alphabetic reference to the Federal Item Identification Guide (FIIG) and a numeric index of Item Name Codes (INCs).

MANUALS

Department of Defense Single Stock Point, Commanding Officer, Naval Publications And Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120-5099

DoD 4100.39M Vol 7	7/1/06	Defense Integrated Data Systems Data Procedures Manual Vol. 7 Establish/Maintenance of Organizational Entity and Provisioning	7
DoD 4120.3-M	7/7/93	Defense Standardization and Specification Program, Policies, Procedures and Instructions (INACTIVE: CNCLD by DOD 5010.12-L)	GEN
DoD 5010.12-L	4/1/01	Acquisition Management Systems and Data Requirements Control List (AMSDL)	2

Superintendent of Documents, U.S. Government Printing Office, Washington D.C. 20402-0001

DoD 5220.22-M	2/28/06	National Industrial Security Program Operating Manual (CANCELLING DODD 5220.22-S)	6

1.2 APPLICABLE DOCUMENTS. (Continued)
Department of Defense. (DoD) (Continued)

DoD DIRECTIVES
Superintendent of Documents, U.S. Government Printing Office,
Washington, D.C. 20402-0001

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
DODD 5000.1(D)	5/12/03	Defense Acquisition (INACTIVE)	2
DODD 5230.24(D)	3/18/87	Distribution Statements on Technical Documents	6
DODD 5230.25(D)	11/6/84	Withholding of Unclassified Technical Data From Public Disclosure	6

DATA ITEM DESCRIPTION
Department Of Defense Single Stock Point (DODSSP), Commanding Officer, Naval Publications And Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120-5099

DI-E-1126A	5/1/72	Notice of Revision/Specification Change Notice (INACTIVE: Supsd by: DI-CMAN-80643)	2
DI-L-2162	8/3/76	Input Data for Container Design Retrieval System (CDRS) (INACTIVE: Supsd by: DI-PACK-80684)	2
DI-L-2163	8/3/76	Request Form, Container Design Retrieval Search Search Request (INACTIVE: Supsd by: DI-PACK-80683)	2
DI-T-2181	10/5/81	Test Requirement Documents (INACTIVE: CNCLD by: DOD 5010.12-L)	2
DI-E-3102A	4/17/72	Configuration Item Development Specification (INACTIVE: CNCLD by: DOD 5010.12-L)	2
DI-E-3103A	4/17/72	Configuration Item Product Fabrication Specification (INACTIVE: CNCLD by: DOD 5010.12-L)	2
DI-E-3105	2/26/71	Inventory Item Specification (INACTIVE: CNCLD by: DOD 5010.12-L)	2
DI-E-3128	2/26/71	Engineering Change Proposal (Short Form) (CNCLD Supsd by: DI-CMAN-80639, DI-CMAN-80644)	2
DI-E-3130	2/26/71	Process Specifications (INACTIVE: CNCLD by: DOD 5010.12-L)	2
DI-E-3131	2/26/71	Material Specification (INACTIVE: CNCLD by: DOD 5010.12-L)	2
DI-E-3132	2/26/71	Configuration Item Product Function Specification (INACTIVE: CNCLD by: DOD 5010.12-L)	2
DI-L-7135A	2/22/85	Preservation and Packing Data (INACTIVE: Supsd by: DI-PACK-80120)	2

1.2 APPLICABLE DOCUMENTS. (Continued)
Department of Defense. (DoD) (Continued)

DATA ITEM DESCRIPTION (Continued)

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
DI-L-7136	7/16/84	Special Packaging Instruction (SPI) (INACTIVE: Supsd by: DI-PACK-80121)	2
DI-L-7137	7/16/84	Packaging Kit Contents List (INACTIVE: Superseded by: DI-MISC-81499)	2
DI-E-21430A	5/25/78	Specification Revision Pages (INACTIVE: CNCLD by: DOD 5010.12-L)	2
DI-E-23159A	12/30/81	Changes to General Specifications for Ships of the U.S. Navy (INACTIVE: CNCLD by: DOD 5010.12-L)	2
DI-E-30132	4/14/69	Critical Item Product Fabrication Specification (INACTIVE: CNCLD by: DOD 5010.12-L)	2
DI-SDMP-80001A	5/20/88	Military Specification (INACTIVE)	2
DI-CMAN-80008A	2/29/88	System/Segment Specification (INACTIVE: Supsd by DI-IPSC-81431A)	2
DI-MCCR-80012A	2/29/88	Software Top Level Design Document (SDD) (INACTVIE: Supsd by DI-IPSC-81435A)	2
DI-MCCR-80013A	2/29/88	Version Description Document (VDD) (INACTIVE: Supsd by DI-IPSC-81442A)	2
DI-MCCR-80014A	2/29/88	Software Test Plan (STP) (INACTIVE: Supsd by DI-IPSC-81438A)	2
DI-MCCR-80015A	2/29/88	Software Test Description (STD) (INACTIVE: Supsd by DI-IPSC-81439A)	2
DI-MCCR-80016	6/4/85	Software Test Procedure (INACTIVE: Supsd by: DI-MCCR-80015)	2
DI-MCCR-80017A	2/29/88	Software Test Report (STR) (INACTIVE: Supsd by DI-IPSC-81440A)	2
DI-MCCR-80025A	2/29/88	Software Requirement Specification (SRS) (INACTIVE: Supsd by DI-IPSC-81443A)	2
DI-MCCR-80026A	2/29/88	Interface Requirements Specification (IRS) (INACTIVE: Supsd by DI-IPSC-81434A)	2
DI-MCCR-80027A	2/29/88	Interface Design Document (IDD) (INACTIVE: Supsd by DI-IPSC-81436A)	2

1.2 APPLICABLE DOCUMENTS. (Continued)
Department of Defense. (DoD) (Continued)

DATA ITEM DESCRIPTION (Continued)

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
DI-MCCR-80028	6/4/85	Data Base Design Document (INACTIVE: Supsd by: DI-MCCR-80012)	2
DI-MCCR-80029A	2/29/88	Software Product Specification (SPS) (INACTIVE: Supsd by DI-IPSC-81441A)	2
DI-MCCR-80030A	2/29/88	Software Development Plan (SDP) (INACTIVE: Supsd by DI-IPSC-81427A)	2
DI-MCCR-80031	6/4/85	Software, Detail Design Document (INACTIVE: Supsd by: DI-MCCR-80012)	2
DI-ATTS-80041A	1/24/97	Test Requirements Document (TRD) (INACTIVE)	2
DI-PACK-80120B	4/6/98	Preservation and Packing Data (Supersedes: DI-L-7135)	2
DI-PACK-80121B	4/6/98	Special Packaging Instructions (SPI) (Supersedes: DI-L-7136)	2
DI-CMAN-80534	2/29/88	System/Segment Design Document (SSDD) (INACTIVE: Supsd by DI-IPSC-81432A)	2
DI-SDMP-80578	5/20/88	Supplement to Military Specification (INACTIVE)	2
DI-SDMP-80579	5/20/88	Amendment to Military Specification (INACTIVE)	2
DI-SDMP-80580	5/20/88	Validation Notice (INACTIVE: Superseded by: DI-SDMP-81470)	2
DI-SDMP-80581	5/20/88	Inactive for New Design Notice (INACTIVE: Superseded by: DI-SDMP-81470)	2
DI-SDMP-80582	5/20/88	Cancellation Notice (INACTIVE: Superseded by: DI-SDMP-81470)	2
DI-SDMP-80583	5/20/88	Reinstatement Notice (INACTIVE: Superseded by: DI-SDMP-81470)	2
DI-SDMP-80584	5/20/88	Military Specification Sheet (INACTIVE)	2
DI-CMAN-80643C	9/30/00	Specification Change Notice (SCN) (Supersedes: DI-E-1126)	2
DI-CMAN-80644	7/15/88	Engineering Change Proposal (Short Form) (INACTIVE: CNCLD by: DOD 5010.12-L)	2

1.2 APPLICABLE DOCUMENTS. (Continued)
Department of Defense. (DoD) (Continued)

DATA ITEM DESCRIPTION (Continued)

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
DI-PACK-80683B	9/27/07	Container Design Retrieval System (CDRS) Search Request (Supersedes: DI-L-2136)	2
DI-PACK-80684	9/27/07	Container Design Retrieval System (CDRS) Data Input (Supersedes: DI-L-2162)	2
DI-CMAN-80788	3/8/89	Quality Engineering Planning List	2
DI-DRPR-81000A	5/21/97	Product Drawings and Associated Lists (INACTIVE: Supsd by DI-SESS-81000B)	2
DI-SESS-81000C	9/10/04	Product Drawings/Models and Associated Lists	2
DI-DRPR-81001A	5/21/97	Conceptual Design Drawings and Associated Lists (INACTIVE: Supsd by DI-SESS-81001B)	2
D-SESS-81001C	9/10/04	Conceptual Design Drawings/Models and Associated Lists	2
DI-DRPR-81002A	5/21/97	Developmental Design Drawings and Associated Lists (INACTIVE: Supsd by DI-SESS-81002B)	2
DI-SESS-81002D	2/5/05	Developmental Design Drawings/Models and Associated Lists	2
DI-DRPR-81003A	5/21/97	Commercial Drawings and Associated Lists (INACTIVE: Supsd by DI-SESS-81003B)	2
DI-SESS-81003C	9/10/04	Commercial Drawings/Models and Associated Lists	2
DI-DRPR-81004A	5/21/97	Special Inspection Equipment (SIE) (INACTIVE: Supsd by DI-SESS-81004B)	2
DI-SESS-81004C	9/10/04	Special Inspection Equipment Drawings/Models and Associated Lists (SIE)	2
DI-QCIC-81005	9/11/89	Special Inspection Equipment Operating Instructions (EOIs) (INACTIVE)	2
DI-QCIC-81006	9/11/89	Special Inspection Equipment Descriptive Documentations (EDs)	2
DI-QCIC-81007	9/11/89	Special Inspection Equipment Calibration Procedures (CPs)	2
DI-DRPR-81008A	5/21/97	Special Tooling Drawings and Associated Lists (STs) (INACTIVE: Supsd by DI-SESS-81008B)	2
DI-SESS-81008C	9/10/04	Special Tooling Drawings/Models and Associated Lists	2
DI-QCIC-81009	9/11/89	Technical Data Package (TDP) Quality Control Program Plan	2

1.2 APPLICABLE DOCUMENTS. (Continued)
Department of Defense. (DoD) (Continued)

DATA ITEM DESCRIPTION (Continued)

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
DI-DRPR-81010A	5/21/97	Source Control Drawing Approval Request (INACTIVE: Supsd by DI-SESS-81010B)	2
DI-SESS-81010C	9/10/04	Source Control Drawing Approval Request	2
DI-DRPR-81011A	5/21/97	Drawing Number Assignment Report (INACTIVE: Supsd by DI-SESS-81011B)	2
DI-SESS-81011C	9/10/04	Drawing Number Assignment Report	2
DI-CMAN-81012A	5/21/97	Proposed Critical Manufacturing Process Description (INACTIVE: Supsd by DI-SESS-81012B)	2
DI-SESS-81012C	9/10/04	Proposed Critical Manufacturing Process Description	2
DI-QCIC-81013	9/11/89	Technical Data Package (TDP) Validation Report	2
DI-IPSC-81427A	1/10/00	Software Development Plan (SDP)	2
DI-IPSC-81431A	1/10/00	System/Segment Specification	2
DI- IPSC-81432A	8/10/99	System/Segment Design Document (SSDD)	2
DI-IPSC-81434A	12/15/99	Interface Requirements Specification (IRS)	2
DI-IPSC-81435A	12/15/99	Software Design Document (SDD)	2
DI-IPSC-81436A	12/15/99	Interface Design Document (IDD)	2
DI-IPSC-81438A	12/15/99	Software Test Plan (STP)	2
DI-IPSC-81439A	12/15/99	Software Test Description (STD)	2
DI-IPSC-81440A	12/15/99	Software Test Report (STR)	2
DI-IPSC-81441A	12/15/99	Software Product Specification (SPS)	2
DI-IPSC-81442A	1/11/00	Software Version Description (SVD)	2
DI-IPSC-81443A	1/11/00	Software User Manual (SUM)	2

INDUSTRY STANDARDS

American National Standards Institute (ANSI)
(Formerly: USA Standards Institute (USASI); American Standards Assn (ASA))
11 West 42nd Street, New York, NY 10036

ANSI B1.1	1989	Unified Inch Screw Threads (UN and UNR Thread Form) (Redesignated as ASME B1.1)	12

1.2 APPLICABLE DOCUMENTS. (Continued)
Industry Standards. (Continued)

American National Standards Institute (ANSI) (Continued)

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
ANSI B1.3M	1994	Screw Thread Gaging Systems for Dimensional Acceptability-Inch and Metric (UN, UNR, UNJ, M and MJ) (Redesignated as ASME B1.3M)	12
ANSI B1.13M	1995	Metric Screw Threads-M Profile (Redesignated as ASME B1.13M)	12
ANSI B1.21M	1997	Metric Screw Threads-MJ Profile (Redesignated as ASME B1.21M)	12
ANSI B5.10-'94	R2008	American Standard Self-Holding and Steep Taper Series	5
ANSI B46.1	1995	Surface Texture (Surface Roughness, Waviness & Lay (Supersedes: MIL-STD-10) (Redesignated ASME B46.1) (Also See ASME Y14.36)	5, 13
ASME B94.6-'84	R2003	Knurling	5
ANSI C37.20-'69	1978	Switch Gear Assy, Including Metal Enclosed Bus (Supersedes: MIL-STD-27) (Withdrawn: See: IEEE C37.20.1, C37.20.2 and C37.20.3)	18
ANSI C37.20.1	1987	Metal-Enclosed Low Voltage Power Circuit-Breaker Switchgear (Redesignated as IEEE C37.20.1)	18
ANSI C37.20.2B	1994	Metal-Clad and Station-Type Cubicle Switchgear (Redesignated as IEEE C37.20.2)	18
ANSI C37.20.3	1997	Metal-Enclosed Interrupter Switchgear (Redesignated as IEEE C37.20.3)	18
ANSI MH15.1	1979	Glossary of Packaging Terms (Supersedes FED-STD-75) (CNCLD: No S/S)	20
ANSI N2.1	1989	Radiation Symbol (Inactive)	6
ANSI N12.1	1989	Fissile Material Symbol (Inactive)	6
ANSI X3.17-'81	R1995	Character Set for Optical Character Recognition (OCR-A) (INACTIVE)	11
ANSI Y1.1	1989	Abbreviations (X-Ref ANSI Z32.13) (Redesignated as ASME Y14.38)	24
ANSI Y10.1-'72	R1988	Glossary of Terms Concerning Letter Symbols (CNCLD: No S/S)	3

1.2 APPLICABLE DOCUMENTS. (Continued)
Industry Standards. (Continued)

American National Standards Institute (ANSI) (Continued)

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
ANSI Y10.2	1958	Letter Symbols for Hydraulics (CNCLD: No S/S)	-
ANSI Y10.3M	1984	Letter Symbols for Quantities Used in Mechanics of Solids (Partly supersedes: MIL-STD-12 & ANSI Y10.8) (CNCLD: No S/S)	3
ANSI Y10.4-82	R1988	Letter Symbols for Heat and Thermodynamics (CNCLD No S/S)	-
ANSI Y10.5	1985	Letter Symbols for Quantities Used in Electrical (CNCLD Supsd by: IEEE Std 280)	3
ANSI Y10.7	1954	Letter Symbols for Aeronautical Sciences (CNCLD: No S/S)	-
ANSI Y10.8	1962	Letter Symbol for Structural Analysis (CNCLD: Supsd by: ANSI Y10.3M)	-
ANSI Y10.10-'53	R1973	Letter Symbols for Meteorology (CNCLD : No S/S)	3
ANSI Y10.11	1984	Letter Symbols and Abbreviations for Quantities Used in Acoustics (CNCLD: X-Ref: IEEE Std 260.4)	3
ANSI Y10.12-'55	R1988	Letter Symbols for Chemical Engineering (CNCLD: No S/S)	-
ANSI Y10.14	?	Letter Symbols for Rocket Propulsion (CNCLD: No S/S)	-
ANSI Y10.17-'61	R1988	Guide for Selecting Greek Letters Used As Letters (CNCLD: Supsd by: ANSI/IEEE Std 260.3	-
ANSI Y10.18-'67	R1987	Letter Symbols Illumination Engineering (CNCLD: No S/S)	3
ANSI Y10.19	?	Letter Symbols (CNCLD: X-Ref: IEEE Std 260.1)	3
ANSI Y10.20-'75	R1988	Mathematical Signs and Symbols for Use in Physical Sciences and Technology (CNCLD Supsd by: ANSI/IEEE Std 260.3)	-
ANSI Y14.1	1995	Decimal Inch Drawing Sheet Size & Format (Supersedes: MIL-STD-100) (Redesignated as ASME Y14.1)	6, 10
ANSI Y14.1M	1995	Metric Drawing Sheet Size and Format (Redesignated as ASME Y14.1M)	6, 10

1.2 APPLICABLE DOCUMENTS. (Continued)
Industry Standards. (Continued)

American National Standards Institute (ANSI) (Continued)

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
ANSI Y14.2M-'92	R1998	Line Conventions & Lettering (Supersedes: MIL-STD-100) (Redesignated as ASME Y14.2M)	3
ANSI Y14.3M-'94	R1999	Multiview & Sectional View Drawings (Supersedes: MIL-STD-100) (Redesignated as ASME Y14.3M)	3, 4
ANSI Y14.4M-'89	R1999	Pictorial Drawings (Redesignated as ASME Y14.4M)	4
ANSI Y14.5	1973	Dimensioning & Tolerancing (Supersedes: MIL-STD-8) (Redesignated as ASME Y14.5)	5, 15, 21, 22, 23
ANSI Y14.6-'78	R1998	Screen Thread Representation (Supersedes: MIL-STD-9) (Redesignated as ASME Y14.6)	12
ANSI Y14.6M-'81	R1998	Metric Supplement to Y14.6 (Redesignated as ASME Y14.6)	12
ANSI Y14.7.1-'71	R2003	Gear, Drawing Standards-Part 1 for Spur, Helical, Double Helical (Redesignated as ASME Y14.7.1)	3
ANSI Y14.7.2-'78	R2004	Gear and Spline Drawing Standards-Part 2 for Bevel & Hypoid (Redesignated as ASME Y14.7.2)	3
ANSI Y14.8M	1996	Castings and Forgings (Redesignated as ASME Y14.8M)	16, 17
ANSI Y14.13M-'81	R1998	Mechanical Spring Representation (Supersedes MIL-STD-12) (Redesignated as ASME Y14.13M)	3
ANSI Y14.15-'66	R1988	Electrical and Electronics Diagrams (CNCLD : No S/S)	3, 18, 22
ANSI Y14.17-'66	R1987	Fluid Power Diagrams (CNCLD: No S/S)	3, 4
ANSI Y14.18M-'86	R1998	Drawings for Optical Parts (Redesignated as ASME Y14.18M)	4
ANSI Y14.24	1999	Types and Applications of Engineering Drawings (Redesignated as ASME Y14.24)	4
ANSI Y14.26M	1989	Digital Representation for Communication of Product Definition Data (CNCLD: No S/S)	6, 23
ANSI Y14.26.3	1975	Dictionary of Terms for Computer Aided Preparation Of Product Definition Data (Including Engineering Drawings) (CNCLD: No S/S)	6, 23

1.2 APPLICABLE DOCUMENTS. (Continued)
Industry Standards. (Continued)

American National Standards Institute (ANSI) (Continued)

DOC.NO.	DATE	TITLE	REFERENCED IN SECTIONS
ANSI Y14.34M	2008	Engineering Drawings and Related Document Practices – Parts Lists, Data Lists, Index Lists and Indentured Lists (Redesignated as ASME Y14.34M)	10
ANSI Y14.35M	1997	Revision of Engineering Drawings and Associated Documents (Redesignated as ASME Y14 .35M)	23
ANSI Y14.36M	1996	Surface Texture Symbols (Redesignated as ASME Y14.36M)	13
ANSI Y14.38M	1999	Abbreviations for Use on Drawings (Supersedes MIL-STD-12) (Redesignated as: ASME Y14.38M)	ALL
ANSI Y32.2	1975	Graphic Symbols for Electrical and Electronic Diagrams (CNCLD Supsd by: ANSI/IEEE Std 315)	3, 4, 10 18, 22
ANSI Y32.2.6-‘50	R1999	Graphic Symbols for Heat Power Apparatus (Redesignated as ASME Y 32.2.6)	3
ANSI Y32.3	?	Standard Symbols for Welding (CNCLD: Supsd by: AWS A2.4)	-
ANSI Y32.4-’77	R2004	Graphic Symbols for Plumbing Fixtures for Diagrams Used in Architecture and Building Construction (INACTIVE: No S/S)	3, 4, 18
ANSI Y32.14	?	Graphic Symbols for Logic Diagrams (X-Ref: ANSI/IEEE Std 91) (Supersedes: MIL-STD-806)	3
ANSI Y32.16	1975	Electrical Reference Designations (INACTIVE: X-Ref ANSI/IEEE Std 200)	3
ANSI Z210.1	1976	Metric Practice (INACTIVE: X-Ref ASTM/IEEE SI 10)	5 & M Sects
NCSL Z540.3	2006	Calibration Laboratories in Measuring Test Equipment-General Requirements For (Supersedes ANSI/NCSL Z540.1 & MIL-STD-45662)	5
ANSI/IEEE Y32.9-’72	R1989	Graphic Symbols for Electrical Wiring and Layout Diagrams Used in Architecture and Building Construction (Supersedes: MIL-STD-15-3)	3, 18
ANSI/IEEE Std 91/91A	R1994	Graphic Symbols for Logic Circuit Diagrams Including Suppl 91a (X- Ref: IEEE Std 91/91A)	3, 4, 18, 22
ANSI/IEEE Std 200-‘75	R1988	Reference Designations for Electrical, Electronic Parts & Equipment (X-Ref: IEEE Std 200) (Supersedes: MIL-STD-16)	3, 4, 10

1.2 APPLICABLE DOCUMENTS. (Continued)
Industry Standards. (Continued)

American National Standards Institute (ANSI) (Continued)

DOC.NO.	DATE	TITLE	REFERENCED IN SECTIONS
ANSI/IEEE Std 260-'78	R1985	Letter Symbols for Units of Measurement (X-Ref; ANSI Y10.19) (CNCLD Supsd by: IEEE Std 260.1)	3
ANSI/IEEE Std 260.1	2004	American National Standard Letter Symbols for Units of Measurement (SI Units, Customary Inch-Pound Units and Certain other Units (Supersedes IEEE Std 260)	3, 24
ANSI/IEEE Std 260.3	1993 R2006	American National Standard Mathematical Signs and Symbols for Use in Physical Sciences and Technology (Supersedes ANSI Y10.17 and ANSI Y10.20)	3
ANSI/IEEE Std 268	1996	Use of the International System of Units (SI): The Modern Metric System (Withdrawn) (Supsd by: IEEE SI 10 and ASTM SI 10)	ALL
ANSI/IEEE Std 280-'85	R2003	Letter Symbols for Quantities Used in Electrical Science & Electrical Engineering (X-Ref: ANSI Y10.5 and IEEE Std 280)	3, 22
ANSI/IEEE Std 315-'75 Including Supplement 315a	R1993	Graphic Symbols for Electrical and Electronic Diagrams (Supersedes: MIL-STD-15-1) (X-Ref: IEEE Std-315)	3, I0,18, 22
ANSI/IEEE Std 991-'86	R1994	Preparation of Logic Circuit Diagrams (X-Ref: IEEE Std 991)	3, 4
ANSI/IPC-T-50F	7/0/96	Terms & Definitions for Interconnecting and Packaging Electronic Circuits (Supersedes: MIL-STD-429 & IPC-T-50)	4, 22
ANSI/IPC-D-350D	7/0/92	Printed Board Description in Digital Form (X-Ref: IPC-D-350)	4

American Society of Mechanical Engineers (ASME)
22 Law Drive, P.O. Box 2900, Fairfield, NJ 07007-2900
NOTE: Applicable ASME Standards are referenced to ANSI Y14 Series Standard Numbers

ASME B1.1	2003	Unified Inch Screw Threads (UN and UNR Thread Form)	12
ASME B1.3	2007	Screw Thread Gaging systems for Dimensional Acceptability-Inch and Metric Threads (UN, UNR, UNJ, M and MJ)	12
ASME B1.5-'97	R2004	Acme Screw Threads	12
ASME B1.7	2006	Screw Threads: Nomenclature, Definitions, & Letter Symbols	12
ASME B1.8-'88	R2006	Stub Acme Screw Threads	12

1.2 APPLICABLE DOCUMENTS. (Continued)
Industry Standards. (Continued)

American Society of Mechanical Engineers (ASME) (Continued)

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
ASME B1.9	2004	Buttress Inch Screw Threads 7 Degrees/45 Degrees Form with 0.6 Pitch Basic Height of Thread Engagement	12
ASME B1.10M	2004	Unified Miniature Screw Threads	12
ASME B1.11-‘58	R2006	Microscope Objective Thread	12
ASME B1.12-‘87	R2003	Class 5 Interference-Fit Thread	12
ASME B1.13M	2005	Metric Screw Threads-M Profile	12
ASME B1.15	1995	Unified Inch Screw Threads (UNJ Thread Form)	12
ASME B1.15 ERTA	1997	Unified Inch Screw Threads (UNJ Thread Form) Errata	12
ASME B1.20.1-‘83	R2006	Pipe Threads, General Purpose (Inch)	12
ASME B1.20.3-‘76	R2003	Dryseal Pipe Threads (Inch)	12
ASME B1.20.7-‘91	R2003	Hose Coupling Screw Threads (Inch)	12
ASME B1.21M	1997	Metric Screw Threads: MJ Profile	12
ASME B4.1-’67	R2004	Preferred Limits & Fits for Cylindrical Parts (inch)	5
ASME B4.2-‘78	R2004	Preferred Metric Limits and Fits	5
ASME B4.3-‘78	R2004	General Tolerances for Metric Dimensioned Products	5
ASME B5.10-‘94	R2008	American Standard Self-Holding and Steep Taper Series	5
ASME B18.29.1-‘93	R2007	Helical Coil Screw Thread Inserts (Inch Series)	12
ASME B18.29.2M	2005	Helical Coil Screw Thread Inserts (Metric Series)	12
ASME B46.1	2002	Surface Texture (Surface Roughness, Waviness and Lay (X-Ref: ANSI B46.1)	13, 15
ASME Y14.1	2005	Decimal Inch Drawing Sheet Size & Format (X-Ref: ANSI Y14.1)	6, 10, 26
ASME Y14.1M	2005	Metric Drawing Sheet Size & Format (X-Ref: ANSI Y14.1M)	6, 10, 26
ASME Y14.2M-’92	R2008	Line Conventions & Lettering (X-Ref: ANSI Y14.2M)	3, 26
ASME Y14.3-‘03	R2008	Multiview & Sectional View Drawings (X-Ref: ANSI Y14.3M)	3, 4, 26

1.2 APPLICABLE DOCUMENTS (Continued)
Industry Standards. (Continued)

American Society of Mechanical Engineers (ASME) (Continued)

DOC.NO.	DATE	TITLE	REFERENCED IN SECTIONS
ASME Y14.4M-'89	R2004	Pictorial Drawings (X-Ref: ANSI Y14.4M)	4, 26
ASME Y14.5M-'94	R2004	Dimensioning & Tolerancing (X-Ref: ANSI Y14.5)	5, 15, 21 22, 23, 26
ASME Y14.6-'01	R2007	Screw Thread Representation (X-Ref: ANSI Y14.6)	12
ASME Y14.7.1	R2003	Gear, Drawing Standards-Part 1 for Spur, Helical, Double Helical (INACTIVE: No S/S)	3
ASME Y14.7.2	R2004	Gear and Spline Drawing Standards-Part 2 for Bevel & Hypoid (INACTIVE: No S/S)	3
ASME Y14.8M-'96	R2008	Casting & Forgings (X-Ref: ANSI Y14.8M)	16, 17, 26
ASME Y14.13M-'81	R2003	Mechanical Spring Representation (Supersedes MIL-STD-29) (X-Ref: ANSI Y14.13M) (CNCLD: No S/S)	3
ASME Y14.18M-'86	R2003	Drawings for Optical Parts (Supersedes MIL-STD-34) (X-Ref: ANSI Y14.18 M) (INACTIVE: No S/S)	4
ASME Y14.24-'99	R2004	Types & Applications of Engineering Drawings (X-Ref: ANSI Y14.24)	23
ASME Y14.34M-'96	R2008	Parts Lists, Data Lists, Index Lists & Indentured Lists	10
ASME Y14.35M-'97	R2008	Revision of Engineering Drawings and Associated Documents (X-Ref: ANSI Y14.35M)	23
ASME Y14.36M-'96	R2008	Surface Texture Symbols	13
ASME Y14.38-'99	R2006	Abbreviations for Use on Drawings (Supersedes: MIL-STD-12) (X-Ref: ANSI Y14.38M)	ALL
ASME Y14.41-'03	R2008	Digital Product Definition Data Practices 26	
ASME Y14.100	2004	Engineering Drawing Practices (X-Ref: ANSI Y14.100)	ALL
ASME Y32.2.6-'50	R1999	Graphical Symbols for Heat Power Apparatus (INACTIVE: X-Ref: ANSI Y32.2.6)	3
ASME Y32.10-'67	R1999	Graphic Symbols for Fluid Power Diagrams (INACTIVE)	3, 4

1.2 APPLICABLE DOCUMENTS. (Continued)
Industry Standards. (Continued)

American Society For Testing And Materials (ASTM)
100 Barr Harbor Drive, West Conshohocken, PA 19428-2959

DOC.NO.	DATE	TITLE	REFERENCED IN SECTIONS
ASTM SI 10	2002	Standard For Use of the International System of Units (SI): The Modern Metric System (X-Ref: IEEE SI 10)	ALL
ASTM E 380	1993	Standard for Metric Practice (X-Ref: ANSI Z210.1 and IEEE Std 268) (INACTIVE: Supsd by: ASTM SI 10 or IEEE SI 10)	ALL
ASTM D 740	2005	Methyl Ethyl Ketone	11
ASTM F 856-'97	R2004	Standard Practice for Mechanical Symbols Shipboard-Heating, Ventilation and Air Conditioning (HVAC)	3
ASTM F 1000	1995	Standard Practice for Piping System Drawing Symbols (Withdrawn 2004; No Replacement)	3

American Welding Society (AWS)
550 Northwest Le June Road, Miami, FL 33126

AWS A1.1	2001	Metric Practice Guide for the Welding Industry	14
AWS A2.4	2007	Graphic Symbols for Welding and Non-Destructive Testing	14, 19
AWS A3.0	2001	Welding Terms & Definitions (Supersedes: MIL-STD-20)	3, 14
AWS A5.30	1997	Specification for Consumable Inserts (INACTIVE)	3, 14
AWS D1.1/D1.1M	2006	Structural Welding Code-Steel (X-Ref: AISC P61)	3, 14

Association For Information And Image Management (AIIM)
1100 Wayne Ave., Suite #1100, Silver Spring, MD 20910

AIIM MS04	1987	Flowchart Symbols and Their Use in Micrographics	3
AIIM TR01	1992	Guidelines for Metrics	M1 thru M6

Automatic Identification Manufacturers (AIM)
634 Alpha Drive, Pittsburgh, PA 15238-2802

AIM BC-1	1995	Uniform Symbology Specification Code 39 (Supersedes: MIL-STD-1189)	20

Electronic Industries Alliance (EIA)
2500 Wilson Blvd. Arlington, VA 22201-3834

EIA-471-'80	R1996	Symbol and Label for Electrostatic Sensitive Devices	11

1.2 APPLICABLE DOCUMENTS. (Continued)
Industry Standards (Continued)

Institute of Electrical & Electronic Engineers, Inc. (IEEE)
445 Hose Lane, P.O. Box 1331 Piscataway, NJ 08855-1331 Attn: Cust. Service

DOC.NO.	DATE	TITLE	REFERENCED IN SECTIONS
IEEE C37.20.1-'02	R2007	Standard for Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear (Supersedes ANSI C37.20.1)	18
IEEE C37.20.2-'99	R2005	Standard for Metal-Clad Switchgear (Supersedes ANSI C37.20.2)	18
IEEE C37.20.3	2001	Metal-Enclosed Interrupter Switchgear (Supersedes ANSI C37.20.3)	18
IEEE SI 10	2002	Standard For Use of the International System of Units (SI); The Modern Metric System (X-Ref ASTM SI 10) (Redesignation of IEEE 268 and ASTM E 380)	ALL
IEEE Std 91-'84 (including Suppl 91a)	R1994	Graphic Symbols for Logic Diagrams (X-Ref: ANSI Y32.14)	3, 4, 11 18, 22
IEEE Std 200-'75	R1988	Reference Designations for Electrical Electronics Parts & Equipments (X-Ref: ANSI Y32.16) (INACTIVE: Supersedes: MIL-STD-16)	3, 4, 10, 22
IEEE Std 260-'78	R1985	Letter Symbols for Units of Measurements (X-Ref: ANSI Y10.19) (INACTIVE: Supsd by: IEEE Std 260.1)	3
IEEE Std 260.1	2004	Standard Letter Symbols for Units of Measurement (SI) Units, Customary Inch-Pound Units and Certain Other Units (Supersedes: IEEE Std 260)	24
IEEE Std 260.3-'93	R2006	American National Standard Mathematical Signs and Symbols for Use in Physical Sciences and Technology (Supersedes: ANSI Y10.17 & ANSI Y10.20)	3
IEEE Std 268	1992	Standard for Metric Practice (X-Ref: ANSI Z210.1, ASTM E 380) (INACTIVE: Replaced by: IEEE SI 10 or ASTM SI 10)	ALL
IEEE Std 280-'85	R2003	Letter Symbols for Quantities Used in Electrical Science & Electrical Engineering (X-Ref: ANSI Y10.5)	3
IEEE Std 315-'75 (Including Suppl 315a)	R1993	Graphic Symbols for Electrical & Electronics Diagrams (X-Ref ANSI/IEEE Std 315 & ANSI Y32.2) (Supersedes: MIL-STD-15-1)	3, 4, 10 18, 22
IEEE Std 991-'86	R1994	Preparation of Logic Circuit Diagrams (X-Ref: ANSI/IEEE Std 991)	4

1.2 APPLICABLE DOCUMENTS. (Continued)
Industry Standards. (Continued)

Institute of Electrical & Electronic Engineers, Inc. (IEEE) (Continued)

DOC.NO.	DATE	TITLE	REFERENCED IN SECTIONS
IEEE 12207.0	1996	Information Technical Software Life Cycle (X-Ref: IEEE/EIA 12207.0)	2
IEEE 12207.1	1997	Guide for Information Technology Software Life Cycle Processes (X-Ref: IEEE/EIA 12207.1)	2
IEEE 12207.2	1997	Guide for Information Technology Software Life Cycle Processes Implementation Considerations (X-Ref: IEEE/EIA 12207.2)	2

Association Connecting Electronic Industries (IPC)
Formerly Institute For Interconnecting and Packaging Electronic Circuits (IPC)
2215 Sanders Road, Suite 200 South, Northbrook, IL 60062-6135

IPC-T-50G	12/1/03	Terms and Definitions for Interconnecting and Packaging Electronic Circuits (X-Ref: ANSI/IPC-T-50) (Supersedes: IPC-T-50F, MIL-STD-429)	3, 6, 22
IPC-D-249	1/1/87	Design Standard for Flexible Single & Doubled Sided Wiring Boards (INACTIVE: Supsd by: IPC-2223)	4
IPC-D-275A1	4/1/96	Rigid Printed Boards and Rigid Printed Board Assemblies (Supersedes MIL-STD-275) (INACTIVE: Supsd By: IPC-2221 & IPC-2222)	6, 22
IPC-D-310C	6/1/91	Guidelines for Phototool Generation & Measurement Techniques Measurement Techniques	4
IPC -D-325A	5/1/95	Documentation Requirements for Printed Boards	4
IPC-D-350D	7/1/92	Printed Board Description in Digital Form	4
IPC-DW-425A W/A1	1990	Design & End Product Requirements for Discrete Wiring Boards	4
IPC-2221A	5/1/03	Generic Standard on Printed Board Design (Supersedes IPC-2221, IPC-D-275 & MIL-STD-275)	3, 6, 22
IPC-2222	2/1/98	Sectional Design Standard for Rigid Organic Printed Boards (Supersedes IPC-D-275 & MIL-STD-275)	3, 6, 22

SAE International (SAE)
400 Commonwealth Dr., Warrendale, PA 15096-0001

SAE HANDBOOK	3/1/98		GEN
SAE AS478N	7/1/07	Identification Marking Methods	11
SAE AS1290A-'86	R1991	Graphic Symbols for Aircraft Hydraulic & Pneumatic Systems	3, 4

1.2 APPLICABLE DOCUMENTS. (Continued)
Industry Standards. (Continued)

SAE International (SAE) (Continued)

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
SAE AS1338-'76	(R2006)	Aerospace Metric 60 Degree Screw Thread Profile and Tolerance Classes	12
SAE MA 1370-'90	(R2006)	Screw Threads - MJ Profile, Metric	12
SAE AS50881C	10/1/06	Wiring, Aerospace Vehicle (Supersedes MIL-W-5088)	22
SAE AS71051B	3/1/08	Pipe Threads, Taper Aeronautical National Form, Symbol ANPT, Design and Inspection Standard	12
SAE J390	5/1/99	Dual Dimensioning Engineering Drawings	M4

Aerospace Industries Association (AIA)
1250 Eye Street N.W., Suite 1200, Washington, D.C. 20005

NAS 523 Rev 29	7/1/07	Fastener Code (for Aerospace)	21
NAS944	4/1/60	Symbols, Hydraulic Test Equipment Drafting	4
NASM7838	8/1/04	Bolt, Internal Wrenching, 160 KSI FTU-Rev 2; FSC 5306	12

U.S. GOVERNMENT AGENCIES

National Bureau Of Standards (NBS)
NTIS National Technical Information Service
Washington, D.C. 20234

NBS Publication 286	1967	Units of Weights & Measure	5, M1
NBS SP 330	1991	The International System of Units (SI) (CNCLD S/S by: NIST SP 330)	5, M1
NIST SP 330	1991	The International System of Units (SI) (Supersedes NBS SP 330)	5, M1

National Aeronautics & Space Administration (NASA)
U.S. Government Printing Office (GPO), Washington, D.C. 20402

NASA SP 7012	1973	Physical Constants and Conversion Factors	5, M2

FOREIGN STANDARDS

German Institute For Standardization (DIN/Beuth)
DIN Deutsches Institut für Normung e. V.
Burggrafenstraße 6
10787 Berlin, Germany

DIN 7168	1991	General Tolerances of Linear and Angular Dimensions and Geometrical Tolerances (Inactive for New Design. Use ISO 2768 Parts 1 and 2)	5

1.2 APPLICABLE DOCUMENTS. (Continued)
Foreign Standards (Continued)

German Institute For Standardization (DIN/Beuth) (Continued)

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
DIN 7172	1991	Tolerances and Limit Deviations for Sizes Above 3150 mm Up to and Including 10 000 mm. Principals, Standard Tolerances, Limit Deviations (Supersedes DIN 7172 P1 & P2)	5

INTERNATIONAL STANDARDS

International Organization for Standardization (ISO)
1, ch. de la Voie-Creuse,
Case postale 56
CH-1211 Geneva 20, Switzerland

ISO 68-1	12/15/98	ISO General Purpose Screw Threads-Basic Profile	12
ISO 128	7/1/82	Technical Drawing – General Principles of Presentation. (Also See: ISO 6410)	3, 14
ISO 261	12/15/98	ISO General Purpose Metric Screw Threads-General Plan	12
ISO 286-1	9/15/88	ISO System of Limits and Fits-Bases of Tolerances, Deviations and Fits (X-Ref: EN 20286-1)	5
ISO 286-2-'88	Corr. 2006	ISO Systems of Limits and Fits (X Ref: EN 20286-2)	5
ISO 468	8/1/82	Surface Roughness – Parameters Their Values and General Rules for Specifying Requirements (INACTIVE: Withdrawn: No S/S)	13
ISO 724	10/15/93	Metric Screw Threads, Basic Dimensions	12
ISO 1000A1-'92	1998 Amd1	SI Units and Recommendations for the Use of Their Multiples and of Certain Other Units (X-Ref: BS 5555)	5, M1 thru M6
ISO 1302	2/1/02	Geometrical Product Specifications (GPS) – Indication of Surface Texture in Technical Product Documentation	13
ISO 2553	10/1/92	Welded, Brazed and Soldered Joints - Symbolic Representation on Drawings (X-Ref: DIN EN 22553)	14
ISO 2768-1	11/15/89	General Tolerances – Part 1: Tolerance for Linear and Angular Dimensions Without Individual Tolerance Indications (Supersedes: DIN 7168) (X-Ref: EN 22768-1)	5
ISO 2768-2	11/15/89	General Tolerances – Part 2: Geometrical Tolerances for Features Without Individual Indications (Supersedes: DIN 7168) (X-Ref: EN 22768-2 & JIS B0419)	5
ISO 3098-1	4/1/74	Technical Drawings – Lettering Part 1: Currently Used Characters (INACTIVE: Supsd by: ISO 3098-2)	3, 6

1.2 APPLICABLE DOCUMENTS. (Continued)
International Standards. (Continued)

International Standards Organization (ISO) (Continued)

DOC NO.	DATE	TITLE	REFERENCED IN SECTIONS
ISO 3098-2	5/1/00	Technical Drawings – Lettering Part 2: Latin Alphabet, Numerals and Marks	3, 6
ISO 5455	2/15/79	Technical Drawings – Scales	3
ISO 6410-1	5/15/93	Technical Drawings – Screw Threads and Threaded Parts-Part 1: General Conventions (X-Ref: BS EN : ISO 6410-1)	12
ISO 6410-2	5/15/93	Technical Drawings – Screw Threads and Threaded Parts-Part 2: Screw Thread Inserts (X-Ref: BS EN ISO 6410-2)	12
ISO 6410-3	5/15/93	Technical Drawings – Screw Threads and Threaded Parts-Part 3: Simplified Representation (X-Ref: BS EN ISO 6410-3)	12
ISO 6433	8/15/81	Technical Drawings – Item References	3, 7
ISO 10012	4/15/03	Measurement Management Systems: Requirements for Measurement Processes and Measuring Equipment (Supersedes: MIL-STD-45662 and ISO 10012-2)	ALL
ISO 10303-1	12/15/94	Industrial Automation Systems and Integration - Product Data Representation and Exchange - Part 1: Overview and Fundamental Principles (STEP)	26
ISO 16792	12/15/06	Technical Product Documentation – Digital Product Definition Data Practices	26
ISO STD HDBK 12	1991	Technical Drawings (Withdrawn: S/S by: ISO HDBK Tech Drawings Vol. 1 and Graphic Symbols Vol. 2)	ALL
ISO HDBK Vol. 1	2002	Technical Drawings: Technical Drawings in General (Supersedes ISO STD HDBK 12)	ALL
ISO HDBK Vol. 2	2002	Technical Drawings: Mechanical Engineering Drawings, Construction Drawings, Drawing Equipment (Supersedes ISO STD HDBK 12)	ALL

***** NOTE ON SECTIONS 1.3 – 1.5.6 *****

The following Sections 1.3 – 1.5.6 and the restrictions therein apply to government-only and defense-related projects only. Purely commercial applications (where the government or its agencies are not the customer) should not be limited by these sections. Purely commercial standards, specifications, and procedures may be structured to adhere to these sections if desired, but it is not mandatory.

1.3 COMPANY STANDARDS, SPECIFICATIONS, AND PROCEDURES (AS USED ON GOVERNMENT AND DEFENSE-RELATED PROJECTS)

1.3.1 Company Standard Requirements. Company Standards shall meet the following requirements;

a. Is identified by name and address of issuing company, CAGE number, document nomenclature and number, and contract number.

b. Does not contain limited rights in technical data.

c Provide the necessary design disclosure information for the level of drawing for which they are furnished.

d. Satisfy the same procurement requirements as for a specification control drawing when it defines a vendor item.

e. Drawing practices and symbols used are such that their intent and interpretation are clear and unambiguous whether of standard or non-standard origin.

f. Have clarity, legibility and reproducibility of MIL-PRF-5480 for the purpose of microfilming.

g. All documents referenced in a company standard shall also be supplied when not covered by a military, government, or non-government standard or specification.

1.3.2 Types Of Company Standard. Standards are of three types: Design Standards, Part Standards, and Book Standards in accordance with MIL-STD-962 and the Company or Corporate Document Standardization Manual is used for their preparation when one exists.

1.3.2.1 Company Standard Design. Standard design is a standardized design feature of an item or process or a specially created shape (extruded, molded, drawn, etc.) having wide utility and use which is described and/or pictured on a "standard drawing" format. This is not a part number in that there is no part to identify. i.e. standard sizes for drilled holes.

1.3.2.2 Company Part Standard. A part or assembly of parts that has wide utility or recurring uses.

1.3.2.3 Company Book Standard. Book Standards are comprehensive presentations of engineering test methods, procedures, criteria symbols and the like.

1.3.3 Types Of Company Specification. Specifications are of five types: System, Development, Product (Commodity) Process, and Material prepared in accordance with MIL-STD-961 and the Company or Corporate Document Standardization Manual when one exists.

1.3.3.1 Company System Specification. A system specification states the technical and mission requirements for a system as an entity, allocates requirements to functional areas and defines the interfaces between or among the functional areas. It establishes the performance, design, development and test requirements for the system.

1.3.3.2 Company Development Specification. .A development specification states the requirements for the design or engineering development of a product during the development period.

1.3.3.3 Company Product (Commodity) Specifications. A product specification is a technical description of the design or performance characteristics of material or component. Performance characteristics should be placed on drawings through the medium of a specification.

1.3.3.4 Company Process Specification. A process specification is a technical description of the processing requirements necessary to produce a product. Such a specification is prepared only when it is not possible to state the requirements for the end product in other documents sufficiently to assure that the product would be satisfactory. If the process applies to more than one product, a Company Standard will be prepared.

1.3.3.5 Company Material Specification. A material specification is applicable to a raw material (e.g. chemical compound, mixtures, (e.g. paints)), or semi-fabricated material (e.g. electrical cable) which are used in the fabrication of a product.

1.3.4 Types Of Company Procedures. Company Procedures are of three types as follows:

1.3.4.1 Corporate. A statement of policy or general instruction establishing company wide uniformity and control.

1.3.4.2 Plant. A policy or procedure governing activities within the responsibility of the Plant Manager.

1.3.4.3. Supplement. .A revision or amendment which does not change the basic content or the company procedure, but clarifies or updates it.

1.4 DEFINITIONS. Not applicable.

1.5 REFERENCES ON DRAWINGS.

1.5.1 Limits Imposed When Specifications and Standards Are Cited. When Government, Non-Government, or Design activity specifications and standards are cited, Unless otherwise specified show only the basic document number, do not list revision, amendment status, dates, etc. on drawings.

1.5.2 Use Of Non Government Standards (NGS) Non-Government Standards (NGS) and Specifications in accordance with ASME Y14.100 should be selected as first choice in the preparation of engineering drawings for a DoD contract. If necessary, government standards and specifications that satisfy the requirements may be used; they will be referenced in the order listed below until NGSs are prepared or revised and approved to satisfy the requirement needed. Note that the need to obtain a waiver to use a MIL-SPEC or MIL-STD initiated under acquisition reform has been rescinded; waivers are no longer required to invoke or use government specifications and standards in government contracts.

1.5.2.1 Order Of Preference For The Selection Of Government Standards And Specifications While the DoD and other government agencies are still trying to reduce costs and to avoid invoking unnecessarily restrictive requirements, government generated standards and specifications (such as MIL-STDS and MIL-SPECS) may now be invoked without obtaining a waiver for their use (See PREFACE 1, SECTION 2 herein).

a. Federal Specifications and Standards.

b. Military Performance and Military Detail Specifications (e.g. MIL-PRF-XXXX and MIL-DTL-XXXX)

c. Military Specifications and Standards and Standardized Military Drawings ((SMD) except Performance Specifications. (e.g. MIL-PRF-XXXX)

d. Interim Federal Specifications and Standards.

e. Interim Military Specifications and Standards.

f. Any type of government or non-government specification or standard that describes management or manufacturing processes in a Major Defense Acquisition Program (MDAP).

1.5.3 Specifications And Standards Cannot Be Altered. Do not cite specifications or standards with exceptions, deletions, additions or extraction of information by paragraph number. Other means are necessary to accomplish this need such as tailoring of specifications. Refer to paragraphs by the paragraph title since paragraph numbers may change.

1.5.4 Specification Tree Application. A program contract should establish the requirements for applicable documents. Suppression or revision of a specified document does not necessarily mean that the document is no longer required on the contract.

1.5.5 Reference To Documents Not Permitted on Engineering Drawings. Do not cite the following types of documents on engineering drawings:

a. **Documents Of**:

(1) Procedure Manuals
(2) Technical Manuals
(3) Catalogs
(4) Pamphlets
(5) Recordings
(6) Manuscripts
(7) Technical Reports
(8) Writings
(9) Policy Making Documents
(10) Maintenance Manuals
(11) Design Activity DRM

b. **Drawings Of:**

(1) Tools and Gages (Except for tools and gages when contractually required for Interface Control between Companies.)

(2) Test Fixtures

c. **Other Documents:**

(1) Any document not subject to design activity change control, other than those released by military, industry societies, or associate contractors.

1.5.6 Reference To Government/Military or Industry Prepared Specifications And Standards. Do not create drawings for items covered by existing Government or nationally recognized industry (NAS, MS, AN, ANSI, ASME, AWS, IEEE, IPC,AMS, ASTM, etc.) specifications or standards, unless those standards fail to assign a uniquely identifying part or identifying number or because of stricter or additional design considerations.

NOTES: