

DOD 4100.39-M
VOLUME 3

**FEDERAL
LOGISTICS
INFORMATION
SYSTEM**



FLIS PROCEDURES MANUAL

**DEVELOPMENT AND MAINTENANCE
OF ITEM LOGISTICS DATA TOOLS**

JANUARY 1995

**DoD 4100.39-M
Volume 3**

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Above volumes are available as a complete set or on an individual basis.



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DLSC-VPH

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FOREWORD

This is one of the volumes (see backside of cover for listing) which comprise the FLIS Procedures Manual. It is published under the authority of Department of Defense Directive 4100.39, Federal Logistics Information System (FLIS), and contains technical and administrative information concerning submittal of data for inclusion in the item naming and classification systems and maintenance of cataloging guidance required for input and processing of Item Identification transactions.

A Table of Contents and Alphabetic Index for the Total Manual are contained in volume 1.

All interface actions between the Defense Logistics Services Center (DLSC) and the Military Services/Agencies will be submitted in accordance with the procedures contained in volume 1, chapter 1.4.

This volume supersedes the previously published C/G letters (72-11, 72-12, 73-24, 75-2, 75-17, 75-36, 75-54, 76-1, 76-9, 79-5, 79-51, 82-12, 82-17, 83-1 and 83-26). See Chapter 3, 3.3.4a.

Changes to this volume will be provided through FLIS Advance Change Notices (ACNs) and/or quarterly numbered changes in accordance with volume 1, section 1.1.4.

This volume is prepared and maintained by the Defense Logistics Services Center, Federal Center, Battle Creek, Michigan 49017-3084. Responsible program manager directorates for all narrative are listed in the Table of Contents for Total Manual in volume 1; program manager directorates for tables are listed in volume 10, section 10.3.1. When a point of contact cannot be determined, technical questions may be directed to the DLSC Customer Service Office in accordance with volume 1, chapter 1.6, or administrative comments and inquiries may be directed to DLSC-VPH.

Service/Agency distribution is handled through established channels; Defense Logistics Agency publication supply officers may direct inquiries concerning requirements for and/or receipt of volumes and changes to DLSC-VPH.

BY ORDER OF THE DIRECTOR

LAURENCE E. SIMPSON
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GLOSSARY
PART I - ACRONYMS

		Volume(s)			Volume(s)
AAC	Acquisition Advice Code	6,14,15	APSN	Association Package Sequence Number	
ACN	Advance Change Notice, FLIS	1,2	AQL	Acceptable Quality Level	2,14
ADC	Air Dimension Code	15	AR	Army Regulation	2,6,13
ADP	Automatic Data Processing	1,3,4,7	ARC	Accounting Requirements Code	15
ADPEC	Automatic Data Processing Equipment Identification Code	6,15	ASCII	American National Standard Code for Information Interchange	2
ADPP	Automatic Data Processing Point	15	ASD	Assistant Secretary of Defense	
ADPS	Automatic Data Processing System	1	ASPR	Armed Services Procurement Regulation	7
AEDA	Ammunition Explosive, and Other Dangerous Articles	10	AUTODIN	Automatic Digital Network	1,2,4,5,6,7
AFFC	Air Force Fund Code		AUTOVON	Automatic Voice Network	1,2,3,4,5,15
AFLC	Air Force Logistics Command	6,13	CAC	Civil Agency Catalog	15
AFM	Air Force Manual	6,13	CAGE	Commercial and Government Entity Code	1,2,4,5,6,7,14,15
AIN	Approved Item Name	3,4,6	CAO	Contract Administration Office	1,15
AINRP	Approved Item Name Reclassification Program	6	CB	Change Bulletin	15
AMC	Acquisition Method Code	6,14	CCAL	Certified Contractor Access List	15
AMSC	Acquisition Method Suffix Code	6,14	CDA	Catalog Data Activity	6
ANSI	American National Standards Institute, Inc.	2,3,7			

		Volume(s)			Volume(s)
CIC	Card Identification Code, Item Management Coding Content Indicator Code	4,6,14	DEMIL	Demilitarization	4,15
	Continuation Indicator Code	2	DESC	Defense Electronics Supply Center	2,14
		2	DFSC	Defense Fuel Supply Center	2,14
CIMM	Commodity Integrated Materiel Manager	1,2,5, 6,13,14	DGSC	Defense General Supply Center	2,14
CIT	Consumable Item Transfer	6	DHCO	Departmental Headquarters Catalog Office	2,14
CMD	Catalog Management Data	1,2,4,5, 6,7,14,15	DIA	Defense Intelligence Agency	13
COM-RI	Communications Routing Identifier	2,6	DIC	Document Identifier Code	1,2,4,6,7, 13,14,15
CSS	Cataloging Statistical Series	2,14	DIPEC	Defense Industrial Plant Equipment Center	1,2,6,7,13
DA	Description Available	15	DISC	Defense Industrial Supply Center	2,14
DAAS	Defense Automatic Addressing System	1,2,6	DLA	Defense Logistics Agency	1,2,4,5,6, 13,14,15
DAASO	Defense Automatic Addressing System Office	1,2,4, 5,6,14	DLAH	Defense Logistics Agency Handbook	
DAC	Document Availability Code	4	DLAR	Defense Logistics Agency Regulation	6,13
DCN	Document Control Number	1,4	DLSC	Defense Logistics Services Center	All
DCSC	Defense Construction Supply Center	2,14	DM	Descriptive Method (Item Identification)	2,14
DCSN	Document Control Serial Number	6	DNA	Defense Nuclear Agency	2,4,6,13,14
DD Form	Department of Defense Form	1,2,3, 4,5,7,15	DNACA	Defense Nuclear Agency Cataloging Activity	4

		Volume(s)			Volume(s)
DoD	Department of Defense	All	ED	Effective Date	2,6,13
			ELCD	Extra Long Characteristic Description	2,3,4
DoDAAC	Department of Defense Activity Address Code		ELRN	Extra Long Reference Number	2,3,4
DoDAAD	Department of Defense Activity Address Dictionary		EOJ	End of Job	
			EOT	End of Transmission	2
DoDAC	Department of Defense Ammunition Code	3	ERRC	Expendability, Recoverability-Reparability Code	
DoDD	Department of Defense Directive	1	ESDC	Electrostatic Discharge Codes	8,9,10,15
DoDI	Department of Defense Instruction	6,14	FAA	Federal Aviation Administration	1,2,4,6,13
DOE	Department of Energy	2,4	FC	Foreign Countries	2,4,6
			FD	Functional Description	1
DRMS	Defense Reutilization and Marketing Service	1,15	FDM	Full Descriptive Method (Item Identification)	2
			FG	Foreign Government	4
DPSC	Defense Personnel Support Center	2,13,14	FII	Federal Item Identification	2,4,6
DRIS	Defense Retail Interservice Support		FIIG	Federal Item Identification Guide	1,2,3,4,5,7,14,15
DRN	Data Record Number	1,2,4,5,6,7,13	FIND	Federal Item Name Directory	4,15
DSC	Defense Supply Center	1,2,4,6	FLIS	Federal Logistics Information System	All
DSOR	Depot Source of Repair	6	FLIS Data Base	Federal Logistics Information System Data Base	1,2,3,4,5,6,7,13,14
EAM	Electronic Accounting Machine	1,2,4,6,7,13	FMS	Foreign Military Sales	2,13

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		Volume(s)			Volume(s)
FMSN	File Maintenance Sequence Number	2,4,6	ILDT	Item Logistics Data Transmittal	4
FMSO	Fleet Material Support Office	6,13	IMC	Item Management Coding	1,2,6,13,14
FRD	Formerly Restricted Data	4	IMCA	Item Management Classification Activity	2,6
FSC	Federal Supply Classification	1,2,3,4,5,6,13,14,15	IMM	Integrated Materiel Manager	1,2,4,6,13,14
FSG	Federal Supply Group	1,5,6,13,14,15	IMMC	Integrated Materiel Management Committee	6
GIM	Gaining Inventory Manager	2,6	IMSS	Item Management Statistical Series	6,14
GIMM	Gaining Inventory Materiel Manager	2,6	INC	Item Name Code	1,3,4,5,6,14,15
GIRDER	Government/Industry Reference Data Edit and Review	4	IOS	International Organization for Standardization	6
GSA	General Services Administration	1,2,3,4,6,7,13,14	IRRC	Issue, Repair and/or Requisitioning Restriction Code	
HMC	Hazardous Materiel Code	15	ISAC	Identified Secondary Address Coding	
HMIC	Hazardous Material Indicator Code	8,9,10,15	ISC	Item Standardization Code	4,5,6,15
I&S	Interchangeability and Substitutability	1,5,6,14	JAIEG	Joint Atomic Information Exchange Group	4
ICP	Inventory Control Point	6,13,14	JAN	Joint Army-Navy	2
II	Item Identification	1,2,3,4,5,6,13	JANAP	Joint Army-Navy-Air Force Publication	2,7
IIM	Item Intelligence Maintenance	2			

		Volume(s)			Volume(s)
LCL	Less Than Carload Rating Code	15	MIL-STAAD	Military Standard Activity Address Directory	
LIM	Losing Inventory Manager	6	MILS-TAMP	Military Standard Transportation and Movement Procedure	6
LMF	Language Media Format	2	MILSTD	Military Standard	2,3,4,7
LOA	Level of Authority	2,6,13,14	MIL-STICCS	Military Standard Item Characteristics Code Structures	3,15
LR	Logistics Reassignment	4,6	MILSTRAP	Military Standard Transaction Reporting and Accounting Procedure	15
LS	Lead Service	6	MILSTRIP	Military Standard Requisitioning and Issue Procedure	6
LTL	Less Than Truckload Rating Code	15	MIM	Military Inventory Manager	14
MAC	Maintenance Action Code	6	MM	Materiel Manager	
MC	Marine Corps	1,2	MMAC	Materiel Management Aggregation Code-AF	1,13
MCC	Materiel Category Code Materiel Condition Code		MMC	Materiel Management Category Code-DoD (Commodity)	13
MCLB	Marine Corps Logistics Base	13	MOE	Major Organizational Entity	1,2,3,4,5,6,13,14
MCO	Marine Corps Order	13	MOWASP	Mechanization of Warehousing and Shipment Processing	6
MCSA	Marine Corps Supply Activity		MRC	Master Requirement code	1,3,4,5,15
MEC	(Marine Corps) Management Echelon Code	13,15			
MFR	Manufacturer	4			
MIL-RI	Military Routing Identifier	6			
MILSCAP	Military Standard Contract Administration Procedure	1,7,15			
MILSPEC	Military Specification	3			

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		Volume(s)			Volume(s)
MRD	Master Requirement Directory	3,15	NSCM	NATO Supply Code for Manufacturers	1,4,5,7,15
MRM	Military Retail Manager	14	NSN	National Stock Number	1,2,3,4,
MTMC	Military Traffic Management Command	1,2,4,6,15	OCR	Optical Character Recognition (Reader)	1,2,7
NADEX	NATO Data Exchange	1	ODRC	Output Data Request Code	1,2,4,5,6
NAIN	Non-Approved Item Name		OE	Organizational Entity	1,4,5,7,15
NATO	North Atlantic Treaty Organization	1,2,,4,5,6,7,13,15	PDM	Partial Descriptive Method (Item Identification)	2,4
NCB	National Codification Bureau	2,4	PIC	Priority Indicator Code	1,2,4,5,14
NDUP	Non-Duplicate	4	PICA	Primary Inventory Control Activity	1,2,4,5,6,13,14
NHCI	Nuclear Hardness Critical Item	2,4	PMIC	Precious Metals Indicator Code	6,15
NIDS	Nuclear Integrated Data System	4	PORM	Plus or Minus	2,3
NIIN	National Item Identification Number	All	PSCN	Permanent System Control Number	1,2,4,5,6,15
NIMSC	Nonconsumable Item Material Support Code	2,6	PSMAT	Provisioning Screening Master Address Table	1,5,7
NMFC	National Motor Freight Classification (Code)	1,2,6,15	PSN	Package Sequence Number	1,2,4,5,7
NOCA	Nuclear Ordnance Cataloging Activity	2,4	PSOS	Pseudo Source of Supply	6
NOCO	Nuclear Ordnance Cataloging Office	2,4	PVC	Price Validation Code	
NSA	National Security Agency	1,2,4,6,13,14	Q/R	Query Response, AUTODIN	
			QUP	Quantity Unit Pack	2,6,15

		Volume(s)			Volume(s)
RCS	Reports Control Symbol	2,14	SAIC	Secondary Address Indicator Code	
RD	Restricted Data	4	SAN	System Advisory Notice (FLIS)	1
RIC	Routing Identifier Code	1,2,6	SCN	System Control Number	1,4
RM	Reference Method (Item Identification)	2,4,14	SCR	System Change Request (FLIS)	1,6,15
	Retail Manager	6	SFM	Simplified File Maintenance	1,2
RNAAC	Reference Number Action Activity Code	1,2,4	SIC	Statistical Indicator Code	
RNCC	Reference Number Category Code	2,4,5,6,15	SICA	Secondary Inventory Control Activity	1,2,5,6,13,14
RNFC	Reference Number Format Code	4,5	SICC	Service Item Control Center	2,6,13,14
RNJC	Reference Number Justification Code	1,4	SIN	Submittal Identification Number	
RNSC	Reference Number Status Code	4	SLC	Shelf Life Code	2,6,15
RNVC	Reference Number Variation Code	5,6,15	SMIC	Special Material Identification code	15
ROFC	Remote Output Format Code	16	SMR	System Management Release, FLIS	1
RPDMRC	Reference/Partial Descriptive Method Reason Code	1,2,4	SNOCA	Service Nuclear Ordnance Cataloging Activity	4
S/A	Military Service/Civil Agency	2,13,14	SoS	Source of Supply Code	1,2,4,6,4,15
SAC	Secondary Address Code	3,4	SoSM	Source of Supply Modifier Code	
SADC	Service/Agency Designator Code	2,4,15	SPSN	Submitted Package Sequence Number	

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		Volume(s)
SR	Standard Requirement	4
SSR	Supply Support Request	1,2,6,13
	System Support Record	1,2,5,6, 7,13,14,15
STDB	Standard Test Data Base	1
STIR	Sequential Total Item Record	2,6
TACOM	U.S. Army Tank-Automotive Command	2,6,13,14
TIC	Terminal Identifier Code	
TSN	Terminal Serial Number	
UFC	Uniform Freight Classification (Code)	1,6,15
U/I	Unit of Issue	2,6,15
U/M	Unit of Measure	
U/P	Unit Price	15
USCG	United States Coast Guard	1,2,6
WIMM	Weapons Integrated Materiel Manager	2,4,5,6, 13,14

GLOSSARY
PART II - TERMS

	Volume(s)
Acceptable Quality Level (AQL). The maximum percent defective that, for purposes of sampling inspection, can be considered satisfactory.	2,4,14
Accounting Requirements Code (ARC). See DRN 2665, volume 12.	15
Acquisition Advice Code (AAC). See DRN 2507, volume 12.	2,6,14,15
Acquisition Method Code (AMC). See DRN 2871, volume 12.	6,14
Acquisition Method Suffix Code (AMSC). See DRN 2876, volume 12.	6,14
Activity Code. A two-character code assigned by DLSC, upon request, for use in the Federal Catalog System to identify an activity for cataloging, standardization, or other management purposes.	2,3,4,5,6
Adopt Coding. Application of the approved IMC criteria by an ICP to items of supply currently managed by a IMM, wherein the ICP or another activity within the same Service is not currently recorded as a user in the FLIS data base and desires to add user interest and obtain supply support from the appropriate IMM.	6
Advance Change Notice - See FLIS Advance Change Notice	
Air Commodity/Special Handling Code. See DRN 9215, volume 12.	1,2,15
Air Dimension Code (ADC). See DRN 9220, volume 12.	1,2,15
Air Force Fund Code. See DRN 2695, chapter 12.2.	
American National Standard Code for Information Interchange (ASCII). The bit configuration standard subset requirement for FLIS and all Government computer systems.	2
Applicability Key. The code used to reference the applicability of a requirement to an item name in a FIIG.	3
Approved Item Name (AIN). The name which is selected (approved by the Directorate of Item Identification, DLSC, as the Official designation for an item of supply), and delimited where necessary, to establish a basic concept of the item of supply to which the item belongs and with which it should be compared. It may be a basic name, or a basic name followed by those modifiers necessary to differentiate between item concepts having the same basic name. Approved item names, basic names, and colloquial names are published in Cataloging Handbook H6. When two or more names are applicable to an item, the name which is most commonly used by the Government and industry shall be selected as the item name. The other name(s) shall be cross-indexed to the selected name.	3,4,6,15

	Volume(s)
Approved Item Name Reclassification Program (AINRP). A DoD-directed program designed to (1) identify item names (by five-digit code) which represent large quantities of consumable items originally classified in FSC classes for the next higher assemblies; (2) take action to reclassify such items from the next higher assembly FSC to the "home" FSC class; and, (3) apply IMC procedures to items migrating from weapons system oriented to commodity oriented FSC classes.	6
Association Code. A code number assigned by DLSC, for internal use, to a corporate complex which has two or more divisions, branches, subsidiaries, etc., each of which has been assigned a different Commercial and Government Entity Code (CAGE). This code number is used by DLSC in screening operations for determining duplication and possible duplication when the reference number is the same but the CAGE Code is different.	1,4,5,14
Association Package Sequence Number (APSN). See DRN 8252, volume 12.	
Authorized Item Identification Collaborator Code. See DRN 2533, chapter 12.2.	2,6
AUTODIN Data Transmission Message Control. A procedure that may be used by interested recorded AUTODIN users to identify and verify receipt of FLIS data transmitted over AUTODIN for a fixed time period. See volume 8, DIC KWA.	2
Automatic Data Processing Equipment Code (ADPEC). See DRN 0801, volume 12.	8,9,10,15
Automatic Digital Network (AUTODIN). The DCS AUTODIN system is a world-wide Department of Defense computerized general purpose communications system which provides for the transmission of narrative and data pattern traffic on a store-and-forward (message switching) basis and subscriber (circuit switching) basis.	1,2,4,5,6,7
Cancelled Federal Item Identification. A Federal item identification which is no longer authorized for use to identify an item of supply.	2,4,6
Card Identification Code, Item Management Coding. See DRN 0099, volume 12.	1,2,6,14
Catalog Management Data (CMD). The total range of information compiled and published in Management Data Lists including requisitioning, stock, and financial management and other management control data; and including various referenced relationships to other items, documents, or materiel management conditions.	1,2,4,5, 6,7,14,15
Cataloging Handbook H2. A handbook containing Federal Supply Classification data in Federal Supply Classification order showing all groups and classes in the four-digit FSC code numbering system. Where appropriate, the main inclusions and exclusions which delimit the coverage of a particular class are shown.	3,4,15
Cataloging Handbook H6. Federal Item Name Directory for Supply Cataloging.	3,4,15
Cataloging Statistical Series (CSS). A series of informational type documents which provide statistical data in support of the Federal Cataloging Program.	2,14

	Volume(s)
Category A Single Submitter. Where management responsibility includes all items of supply in a given FSC class, the IMM is the sole submitter of cataloging actions related to items of supply in the applicable class. This includes proposals for new or revised cataloging tools; new, reinstatement, or revised item identifications; and new or changed data related to existing item identifications such as add, delete, or change MOE Rule data, changes in item status codes, add or delete references, etc.	2,4
Category B Single Submitter. Where management and cataloging responsibility is established on a by item basis within a given FSC class, the IMM is the sole submitter of proposed catalog data changes against existing item identifications representing items of supply under the management cognizance of that activity. This includes add, delete, or change MOE Rule data; changes in item status codes; add or delete references, etc.; but excludes original and reinstatement item identifications and proposed new or revised cataloging tools.	2
Central Catalog File. See FLIS Data Bank.	2,4
Change Bulletin. Publications issued following a basic edition for updating purposes. The data content is cumulative. Change bulletin is synonymous with the terms "advance notice" and "supplement".	15
Change Coding. The method of changing data elements previously furnished as a result of IMC. Excluded are changes from Service management to Integrated Materiel Management or vice versa. Such latter changes shall be accomplished under initial, maintenance, retroactive, or return coding as appropriate.	6
Change Indicator. See DRN 0122, volume 12.	
Characteristics Reply. The total reply to a FIIG requirement in MILSTICCS format. It consists of the primary address code and may consist of a secondary indicator code, along with a secondary address code (if applicable), or it may consist of a double dollar symbol (\$\$) to identify the AND condition or a single dollar symbol (\$) to identify the OR condition. These symbols will be used to chain materials and the like which do not govern other requirements. Also included is the mode code and the item characteristics (either clear text or coded or a combination of the two as specified in the FIIG) followed by the record separator symbol.	3,4
Characteristics Screening. A computer process which identifies potential duplicate items of supply by comparing the characteristics description of items proposed to be added to the system to those already assigned NSNs. This comparison occurs automatically when a new National Stock Number is being requested or when maintenance actions to the FLIS data base are submitted by item managers. The screening criteria is designed so that items matched will be interchangeable in all applications. The results are manually reviewed to verify true duplication.	

Characteristics Search. An interrogation of the FLIS data base to locate existing items of supply. The input contains specific item characteristics. Criteria is applied in the processing to select items which are similar or may be substituted for another item of supply. Items may or may not meet the requirements of interchangeability or substitutability. Characteristic Search is used primarily for standardization studies, item reduction studies, design improvements or to find substitutes for a primary item.

CIMM Assignment on a By-Item Basis. For items of supply classified in those FSC classes included in the CIMM assignment but the management assignment for each individual item of supply is determined on a by-item management coding basis. 1,2,6

Codification Project Code. A two-character alphabetic code assigned by the Defense Logistics Services Center (DLSC) to identify catalog data related to a codification project for NATO or other foreign countries. 4

Collaborating Activity. An activity designated by a Military Service or participating agency to review proposed item logistics changes. 2,4

Collaborator Code. See DRN 2533, volume 12. 2,13

Commercial and Government Entity Code (CAGE). Any reference number entered into the Federal Catalog System will have a CAGE Code assigned to it prior to entering the central catalog file. The CAGE Code is a five character data element assigned to establishments which are manufacturers or have design control of items of supply procured by the Federal Government. The first and last positions of a CAGE Code will be numeric. Under certain conditions revision actions shall be initiated by DLSC: When a CAGE Code is cancelled and replaced by a code assigned to a single manufacturer; or when DLSC cannot determine, without collaboration, which items formerly manufactured by a defunct organization are now manufactured by the acquiring organization(s).

Where the applicable CAGE Code cannot be determined under the conditions cited above, recorded cataloging activities shall initiate appropriate action to update the central catalog file. DLSC will not cancel a CAGE Code until all numbers of that manufacturer have been withdrawn.

Commodity Integrated Materiel Manager (CIMM). The activity/agency designated to exercise integrated materiel management for a commodity oriented Federal Supply Classification group/class, commodity, or item on a DoD and/or Civil Agency basis. 1,2,5,6, 13,14

Commodity Materiel Management Category Code - DoD. See DRN 2611, volume 12.

Compiler. A term used to denote the activity responsible for the preparation and maintenance of a catalog.

	Volume(s)
Concept Change. A concept change is determined to exist when the identification characteristics expressed by the proposed revision of a Federal item identification differ in content from those expressed by the Federal item identification, and both item identifications represent possible items of supply.	4
Condition Codes. A condition code is assigned to Approved Item Names to indicate whether the name may be classified in single or multiple FSC(s) as follows:	
Code 1 - The AIN may be classified in only one specific FSC.	
Code 2 - The AIN may be classified in two or more specific classes of the FSC structure.	
Code 3 - The AIN may be classified in any logical class of the FSC structure.	
Consumable Item Transfer (CIT). A special project transferring consumable items now managed by military services to DLA or GSA.	6
Content Indicator Code. The Content Indicator Code (CIC) consists of four alphabetic characters which appear in positions 5 through 8 of an Automatic Digital Network (AUTODIN) message header and End of Transmission (EOT). It is designed primarily for use by the receiving communications terminal as an aid in determining distribution of data messages. All catalog data being transmitted requires a CIC.	2
Continuation Indicator Code (CIC). See DRN 8555, volume 12.	1,4
Contract Administration Office Code (CAO). See DRN 8870, volume 12.	1,15
Controlled Inventory Item Code (CIIC). See DRN 2863, Volume 12.	15
Conversion. The transformation of a value to an equal or equivalent value in a different term or scale.	3
Coordinating Activity. An activity having the responsibility for inter-Service/Agency coordination.	
Criticality Code. See DRN 3843, volume 12.	1,4,5,15
Data Chain. A name given to the use of two or more logically related data elements. For example, the data chain Document Control Number (DRN 1015) is composed of data elements: Originating Activity Code (DRN 4210), Submitting Activity Code (DRN 3720), Date Transaction (DRN 2310), and Document Control Serial Number (DRN 1000).	4,5

	Volume(s)
Data Changes. All transfers between the descriptive method and the reference method; all reference number changes, item status code changes, withdraw or add owner actions, and cancellations regardless of type of item identification; and item (or part) name and FSC changes for type 2 item identifications.	2,4,6
Data Code. A number, letter, character, symbol, or any combination thereof used to represent a data item. For example, the data codes JV, KX, and XB represent the data items: Strategic Systems Project Office; Defense Personnel Support Center; and Field Command, Defense Nuclear Agency, respectively, under the data element: Submitting Activity Code (DRN 3720).	1
Data Element. A grouping of informational units which has a unique meaning and sub-units (data items) of distinct value. Examples of data elements in FLIS are State/U.S. Possession Abbreviation (DRN 0186), Submitting Activity Code (DRN 3720), and DoD Activity Address Code (DRN 3755).	1,4,5,6, 7,15
Data Element Dictionary (DED). An authoritative reference containing the definition and related features of data elements, data chains, and data use identifiers. See volume 12.	1
Data Element Terminator Code. See DRN 8268, volume 12.	1,4
Data Exchange. The submittal of data, not requiring collaboration, through the single submitter to the Defense Logistics Services Center (DLSC).	2
Data Item. A sub-unit of descriptive information or values classified under a data element. For example, the data element Submitting Activity Code (DRN 3720) contains data items such as U.S. Army Electronics Command, Naval Training Device Center, and San Antonio Air Logistics Center.	
Data Range Criteria. Information providing the means (manual or mechanical) for determining item equivalency and substitutability relationships for each item characteristic.	3
Data Record Number (DRN). See DRN 0950, volume 12.	1,2,4,5,6,7,15
Defense Retail Interservice Support (DRIS) Program. A program designed to use inter-Service transfers of material and logistics services to achieve the greatest possible effectiveness and economy in the operations of DoD activities.	
Deletion Reason Code. See DRN 4540, volume 12.	6,14
Demilitarization. The act of destroying the military offensive or defensive advantages inherent in certain types of equipment or materiel. The term comprehends mutilation, dumping at sea, scrapping, melting, burning, or alteration designed to prevent the further use of equipment and materiel for its originally intended military or lethal purpose.	4,15
Department of Defense Activity Address Code (DoDAAC). See DRNs 0395 and 6550, volume 12.	

	Volume(s)
Depot Source of Repair (DSOR). An organic or contract activity designated as the source to provide depot maintenance of equipment. Only each Service's Maintenance Interservice Support Management Office (MISMO) assigns DSOR codes through the PICA Service cataloging function.	6
Department of Defense Activity Address Directory (DoDAAD). The file of all Department of Defense customers clear-text addresses, address codes, and billing codes for use in preparation of bills to customers.	
Department of Defense Ammunition Code (DoDAC). See DRN 3767, volume 12.	3,15
Department of Defense Interchangeability and Substitutability (I&S) Family. A grouping of items which possess such physical and functional characteristics as to provide comparable functional performance for a given requirement Design Control Reference. The primary number used to identify an item of production, or a range of items of production, by the manufacturer (individual company, firm, corporation, or Government activity) which controls the design, characteristics, and production of the item by means of its engineering drawings, specifications, and inspection requirements.	2,4
Design Control Reference. The primary number used to identify an item of production, or a range of items of production, by the manufacturer (individual company, firm, corporation, or Government activity) which controls the design, characteristics, and production of the item by means of its engineering drawings, specifications, and inspection requirements.	2,4
Document Availability Code (DAC). See DRN 2640, volume 12.	
Document Control Number. See DRNs 1015 and 3920, volume 12.	4,5,6,15
Document Control Serial Number. See DRN 1000, volume 12.	1,5,6
Document Identifier Code (DIC). See DRN 3920, volume 12.	1,2,4,5,6,7, 13,14,15
DoD/Federal Functional Manager. The organizational element responsible for specific functions such as the Federal Catalog Program (DLA-MM), Item Management Coding (DLA-OP), Freight Classification Data (MTMC).	1
DOE Controlled Commercial Items. End items, assemblies, components, and parts (including testing and handling equipment) which are standard commercial items used on or with nuclear weapons. Due to the nuclear weapons reliability concept, they require special testing or DOE control for quality assurance. These items are available only from the DOE through DNA and are all of "war-reserve quality" or "single quality". They are not security classified and are not commodity classified in FSC group 11. Item identifications for these items will each reflect a reference number coded with CAGE 87991.	4

	Volume(s)
DOE Special Design Items. End items, assemblies, components, and parts (including testing and handling equipment) designed or manufactured by DOE or design controlled by DOE for use specifically in the nuclear ordnance field. These items are available only from the DOE through the Defense Nuclear Agency (DNA) and may be categorized as "war reserve quality", "training quality", or "single quality".	4
Drop Table. Used by DLSC, when requested by Service/Agency activities, to eliminate distribution of unneeded data.	1
Economic Feasibility. The determination of the cost effectiveness of a data system change. Design, development, programming, implementation, and appropriate Automatic Data Processing (ADP) equipment costs (including separate indication of ADP and non-ADP costs) should be related to the value of the automated data system change under development.	1
Effective Date (ED). The year and Julian day denoting the date that a predetermined condition or action becomes effective in the defense logistics system. This date will always be the first day of a month; e.g., 83121 is 1 May 1983. An effective date will be either a "future" effective date or a "standard" effective date.	2,5,6,13
Electrostatic Discharge Code. A code to indicate whether an item is susceptible to electrostatic discharge or electromagnetic interference damage.	8,9,10,15
End of Transmission (EOT). An ADP term indicating the conclusion of a transmission.	
Equivalency Criteria. Criteria contained in section II of the FIIG consisting of data range conversion formulas and decision rules criteria used to determine characteristic equivalency and substitutability. Replies are equivalent when they are identical or become equivalent through the application of section II criteria. Replies NOT RATED and ANY ACCEPTABLE in the data base are not to be considered equivalent with respect to other definitive replies to a specific input requirement. Equivalent items are always "offered" to the processing activity requesting NSN assignment from DLSC for review and possible acceptance.	3
Estimated Demand. See DRN 0727, volume 12.	
Estimated or Actual Price. See DRN 0731, volume 12.	
Expendability, Recoverability-Reparability Code (ERRC). See DRN 2655, volume 12.	
Extra Long Characteristics Description (ELCD). Characteristics description data which consists of 5,000 characters or more.	2,3,4
Extra Long Reference Number (ELRN). A reference which exceeds the allowed field of 32 positions and must be carried forward to additional cards.	2,3,4

	Volume(s)
Federal Catalog System. A Federal program administered by DoD in conjunction with GSA. It shall name, describe, classify, and number each item repetitively used, bought, stocked, or distributed by the Federal Government so that only one distinctive combination of letters or numerals (or both) identifies the same item throughout the Federal Government.	1,3,4,6, 14,15
Federal Cataloging Program Statistical Series. A series of statistics required to reflect information pertaining to all Federal Cataloging Program transactions recorded in FLIS files against items which are managed by DoD activities, Civil Agencies, or foreign countries participating in the Federal Cataloging Program.	14
Federal Item Identification (FII). A description of an item of supply which consists of minimum data essential to establish those characteristics which give an item its unique character, and differentiate it from every other item of supply within the Federal Catalog System, and required related management data.	2,4,6
Federal Item Identification Guide (FIIG). A guide prescribing standard requirements, formats, and machine oriented coding structure for the collection of item characteristics and other item-related logistics data.	1,2,3,4, 5,7,14,15
Federal Item Name Director (FIND). Published as Cataloging Handbook H6 Series; provides item name data to Services/Agencies for use in development of item identifications.	4,15
Federal Logistics Information System (FLIS). An ADP system designed to provide a centralized data bank in support of the Department of Defense, Federal Civil Agencies, and foreign countries participating in the integrated logistics support program.	All
Federal Logistics Information System Data Base . The segment of the FLIS data bank containing the sum total of information (word, codes, and numbers) on an item required for identification and related data necessary to support various logistics functions. The FLIS data base is comprised of the following files: NIIN, Characteristics, Reference Number, and Graphics.	1,2,3,4, 5,6,7, 13,14,15

	Volume(s)
Federal Supply Classification (FSC). Permits the classification of all items of personal property used by participating activities. Groups and classes have been established for the universe of commodities with emphasis on the items known to be in the supply systems of participating activities. This classification system with its present structure of groups and classes represents those groupings and relationships which are based on current, as well as anticipated, management needs. The Federal Supply Classification structure is modified, as the needs of management change, by the addition of newly developed groups and classes, the subdivision of existing classes, and the revision of definitions of classes. The uniform Federal Supply Classification is governed by daily management requirements and provides uniform management categories throughout military activities and Civil Agency organizations, functions, operations, and supply pipelines. It permits greater uniformity within and between Military Services and Civil Agencies in the operations of reporting, accounting, financial management, inventory control, and budgeting.	1,2,3,4, 5,6,13, 14,15
Federal Supply Classification Group 11, Nuclear Ordnance. A Federal Supply Classification group which includes those nuclear ordnance items which are not specifically commodity classified elsewhere.	4
Federal Supply Group (FSG). See DRNs 3994 and 3996, volume 12.	1,5,6, 13,14,15
File Maintenance Sequence Number (FMSN). See DRN 1515, volume 12.	4,6
Financial Inventory Accounting (FIA). Establishment and maintenance of inventory accounts in monetary terms and the rendition of reports thereon. Covers materiel in storage, in process, on hand, in transit, and on consignment.	
FLIS Advance Change Notice. A notification, to users of DoD 4100.39-M, of changes that must be implemented in the period between quarterly publication of changes and revisions.	1
FLIS Data Bank. A totally integrated logistics information repository, including graphics, necessary to support the various logistics functions. The central data is organized in two segments, the FLIS data base segment and the System Support Record segment.	1,2,3,4, 5,6,15
Foreign Countries (FC). (Changed from: Friendly Foreign Governments). A non-NATO nation participating in the Federal Cataloging Program through an agreement which provides for the furnishing of Federal catalog data and cataloging services by the United States on a reimbursable basis.	1,2,4,5, 6,7,15
Freight Classification. The division of articles into groups according to physical characteristics for the purpose of transportation.	1,2,4,5, 6,15

	Volume(s)
Full Descriptive Method of Item Identification. The descriptive method of item identification establishes and delimits the concept of an item of supply by the delineation of the essential characteristics of the item which give the item its unique character and serve to differentiate it from every other item of supply. It may contain other characteristic data not used in the assignment of an NSN as specified in section III of the specific FIIG. The Full Descriptive Method (FDM) technique of item identification is a type 1 item identification which contains all essential characteristics of an item and differentiates it from every other item of supply.	2,4,14
Functional Description (FD). The FLIS FD provides:	1,8,9
a. The system requirements to be satisfied which will serve as a basis for mutual understanding between the user and the developer.	
b. Information on performance requirements, preliminary design, and user impacts including fixed and continuing costs.	
c. A basis for the development of systems tests.	
Functional Manager, DoD/Federal. See DoD/Federal Functional Manager.	
Functional/Operational Index (F/O). An index in grid form designed to assist the user in relating the item identification characteristics with the various logistic functions for data output products.	3,5,15
Gaining Inventory Manager (GIM). The inventory manager responsible for assuming wholesale materiel management functions.	2,6
Guide Number, Federal Item Identification Guide (FIIG). See DRN 4065, volume 12.	2,4
Hazardous Materiel Code (HMC). See DRN 2720, volume 12.	1,6,15
Hazardous Material Indicator Code. A code instructing the user on the type of hazardous material(s) used.	8,9,10,15
Immediate Response. The time elapsed from the point at which DLSC receives the last character of input data until DLSC transmits the first character of output data will not exceed one minute.	16
Industrial Plant Equipment (IPE). IPE is that part of DoD-owned plant equipment with an acquisition cost of \$1000 or more; used for the purpose of cutting, abrading, grinding, shaping, forming, joining, testing, measuring, heating, treating, or otherwise altering the physical, electrical, or chemical properties of materials, components, or end items entailed in manufacturing, maintenance, supply, processing, assembly, or research and development operations. IPE is further identified by noun name in joint DoD Handbooks, DLAH 4215 series.	

	Volume(s)
Initial Coding. Application of the established IMC criteria by the ICPs to all National Stock Numbered items existing in FSC classes newly designated as commodity oriented.	6
Initiating Activity. An activity assigned the responsibility for the development, coordination, reconciliation, and submittal to DLSC of a completed FIIG and follow-up maintenance.	3
Integrated Materiel Manager (IMM). See DRN 9090, volume 12.	1,2,4,6,13
Interchangeability and Substitutability (I&S). Conditions which permit the exchange of one item for another without affecting design or performance beyond acceptable limits.	1,5,6,14
Inventory Account Code - Coast Guard. See DRN 0708, volume 12.	1
Inventory Control Point (ICP). An organizational unit within the supply system of a Military Service/Defense Logistics Agency which is assigned the primary responsibility for the management of a group of items, either within a particular Military Service or for the DoD as a whole. Responsibilities include computation of quantitative requirements; the authority to require procurement, repair materiel, or initiate disposal; development of world-wide quantitative and monetary inventory data; and the positioning and repositioning of materiel.	6,13,14
Item Characteristics. Physical, performance, and other item-related logistics data required to describe, differentiate, and manage items of supply.	3,4
Item Identification (II). A collection and compilation of data to describe an item. The minimum data to develop an item identification are a combination of the item name, CAGE Code, manufacturers' identifying part/reference number, Reference Number Category Code (RNCC), and Reference Number Variation Code (RNVC). The maximum data required are the item name, all of the physical and performance characteristics data prescribed by a specific FIIG, and the manufacturers' identifying part/reference number. It may also include additional related reference numbers.	1,2,3,4, 5,6,13, 14,15
Item Intelligence. The sum total of data for a given item.	4
Item Intelligence Maintenance (IIM). A function in FLIS which provides for the processing of adjustments/revisions to established item identifications and characteristics in the FLIS data base.	
Item Logistics Data Transmittal (ILDIT). The medium used for formatting data required to be transmitted to the data bank.	4
Item Management Classification Activity (IMCA). See DRN 4075, volume 12.	2,6

	Volume(s)
Item Management Coding (IMC). The process of determining whether items of supply in FSC classes assigned for integrated materiel management qualify for management by the individual Military Services or other DoD components. Coding is accomplished in accordance with established IMC criteria contained in DoD 4140.26-M, volume I, Defense Integrated Materiel Management for Commodity Oriented Consumable Items.	1,2,6,13,14
Item Management Coding Activity (IMCA). See DRN 2748, volume 12.	2,6,13,14
Item Management Statistical Series (IMSS). A series of informational type documents providing statistical data in support of the Federal Catalog System.	6,14
Item Name. See DRNs 5010 and 5020, volume 12.	1,3,4,5,6,15
Item Name Code (INC). See DRN 4080, volume 12.	1,3,4, 5,6,14,15
Item of Production. Consists of those pieces or objects grouped within a manufacturer's identifying number and conforming to the same engineering drawings, specifications, and inspection.	4
Item of Supply. An item of supply may be a single item of production or two or more items of production that are functionally interchangeable or that may be substituted for the same purpose and that are comparable in terms of use. It is more meticulous (a selection of closer tolerance, specific characteristics, finer quality) than the normal item of production, or may be a modification (accomplished by the user or at request of the user) of a normal item of production.	2,3,4,5,6,7, 14,15
Item Standardization Code (ISC). See DRN 2650, volume 12.	1,4,5,6,14,15
Key Data Element(s). Data element(s) submitted to obtain the desired interrogation/search output as specified by the Output Data Request Code.	5
Language Media Format (LMF). A code used for AUTODIN transmission to the FLIS data bank. The code indicates source media and preferred output media.	2
Less Than Carload Rating Code (LCL). See DRN 2760, volume 12.	1,2,15
Less Than Truckload Rating Code (LTL). See DRN 2770, volume 12.	1,2,15
List. One of the types of catalogs within a series of publications (e.g., Identification List).	4,15
Losing Inventory Manager (LIM). The inventory manager responsible for relinquishing wholesale materiel management functions.	2,6
Maintenance Action Code (MAC). See DRN 0137, volume 12.	6
Maintenance Coding. Application of the approved IMC criteria by the ICPs to all new or existing National Stock Numbered items which enter FSC classes subject to IMC after initial IMC has been accomplished.	6

	Volume(s)
Major Organizational Entity (MOE). The principal subdivision of Government organization under which component organizational entities are identified (e.g., Army, Navy, Air Force, Marine Corps, DLA, GSA, etc.).	1,2,3,4, 5,6,13,14,15
Management Cognizance. The duties and responsibilities of a DSC, a Military Service activity, other DoD activity(ies), FAA, or GSA for management of an item of supply to the extent indicated by the MOE Rule.	2,6
Manufacturer (Mfr). A manufacturer may be an individual, company, firm, corporation, or Government activity that controls the design and production of an item, or produces an item from crude or fabricated materials or components, with or without modification, into more complex items.	4,7
Mass Change Processing. Mass change processing falls into two categories. Pre-programmed mass change is initiated by an SSR transaction which triggers or permits subsequent multiple actions to the DLSC and/or Service/Agency files. Special project mass change will require that original analysis and programming be accomplished to accommodate the requested actions.	1,2,6
Mass Data Retrieval. Mass data retrieval is designed to extract segment data from the FLIS data base or partial or complete files from the SSR based on the input of key data element(s). The content of the segments from the FLIS data base and the content of data elements from the SSR will be controlled through input of the appropriate Output Data Request Code DRN as indicated in volume 10, table 28 (Output Data Request Code/Access Key(s)).	1,5
Master Requirement Code (MRC). See DRN 3445, volume 12.	1,3,4,5,15
Master Requirements Directory (MRD). A publication containing the requirements, reply tables, Military Standard Item Characteristics Coding Structure (MILSTICCS), Master Requirement Codes (MRCs), and mode codes contained in published Federal Item Identification Guides (FIIGs).	1,3,5
Materiel Category Codes (MCC). See DRNs 2680 and 9256, volume 12.	
Materiel Condition Codes (MCC). See DRN 2835, volume 12.	
Materiel Management. Direction and control of those aspects of logistics which deal with materiel, including the functions of identification, cataloging, standardization, requirements determination, procurement, inspections, quality control, packaging, storage, distribution, disposal, maintenance, mobilization planning. Encompasses materiel control, inventory control, inventory management, and supply management.	2,6
Materiel Management Aggregation Code - AF (MMAC). See DRN 2836, volume 12.	1,13
Materiel Manager (MM). The director or organizational component responsible for performing the materiel management functions for assigned items.	1

	Volume(s)
Mechanization of Warehousing and Shipment Processing (MOWASP). A uniform data system designed to maintain consolidated freight location data and shipment handling information.	6
Military Service-Controlled Commercial Items. End items, assemblies, components, and parts (including testing and handling equipment) which, due to the nuclear weapons reliability concept, require special testing or control for quality assurance. The items or the data for the items are available only from the design controlling military activity; they may be categorized as "war-reserve quality" or "single quality". They are not security classified and are not commodity classified in FSC group 11. Item identifications for these items will reflect a reference number coded with CAGE Codes 57991, 67991, or 77991.	4
Military Service Special Design Items. End items, assemblies, components, and parts (including testing and handling equipment), designed or manufactured by a Military Service or design controlled by a Military Service, for use specifically in the nuclear ordnance field. The items or the data for the items are available only from the design controlling military activity; they may be categorized as "war-reserve quality", "training quality", or "single quality". They may be security classified or nonsecurity classified and are not necessarily classified in FSC group 11.	4
Military Specification (MILSPEC). A procurement specification in the military series promulgated by one or more of the military agencies and used for the procurement of military supplies, equipment, or services.	3
Military Standard (MILSTD). An established or accepted level of performance in the military used as a yardstick in evaluating actual progress.	2,3,4,7
Military Standard Contract Administration Procedure (MILSCAP). MILSCAP will provide uniform procedures, rules, formats, time standards, and standard data elements for the interchange of contract related information between and among DoD components and contractors. The provisions of the Armed Services Procurement Regulation are to be implemented in machine processable form, where feasible, in MILSCAP. The system administrator and the chairman of the ASPR Committee will assure compatibility between the two procedures.	1,7,15
Military Standard Item Characteristics Code Structures (MILSTICCS). The coding structure used to code characteristics data for item identifications, transmission, storage, and processing.	3,15
Military Standard Requisitioning and Issue Procedures (MILSTRIP). MILSTRIP will prescribe uniform procedures, codes, formats, documents, and time standards for the interchange of requisitioning and issue information for all materiel commodities (unless specifically exempted by the ASD (MRA&L)) between requisitioners and supply control/distribution systems in DoD and other participating agencies. MILSTRIP will include the applicable provisions of the Uniform Materiel Movement and Issue Priority System (UMMIPS).	6

Military Standard Transaction Reporting and Accounting Procedures (MILSTRAP). MILSTRAP will prescribe uniform procedures, data elements, documents, and time standards for the flow of inventory accounting information pertaining to receipt, issue, and adjustment actions between inventory control points, stock control activities, storage sites/depots, and posts, camps or bases (unless specifically exempted by the ASD (MRA&L)). Card formats and data elements employed in MILSTRAP will be designed to complement the techniques prescribed in MILSTRIP and to provide the means for generating financial inventory data required for management and transaction reports and financial reports.

Military Standard Transportation and Movement Procedure (MILSTAMP). The MILSTAMP DoD Regulation will contain all necessary forms, formats, codes, procedures, rules, and methods required by DoD components in the movement of materiel. It is a complete reference for policy and procedures governing data elements, documentation and information flow. Supplementing procedures are authorized only to the extent of assuring more detailed operating instruction required by action offices or to cover variances in capabilities.

Prescribed address-marking data elements, formats, and requirements are contained in MILSTAMP and will be reflected in MIL-STD-129, Military Standard Marking for Shipment and Storage, which is maintained by the Department of the Army. MILSTAMP will include the applicable provisions of the Uniform Materiel Movement and Issue Priority System (UMMIPS).

Military Traffic Management Command (MTMC). A command under the Department of the Army responsible for procurement, use, cost, and control of commercial transportation services required in the movement of cargo and passengers for the DoD components. 1,2,4,6,15

MINIMIZE. A condition wherein normal message and telephone traffic is drastically reduced in order that messages connected with an actual or simulated emergency shall not be delayed. 2,4

MOE Rule Related Data. Consists of Item Management Status Data and the NIMSC Code, AF Materiel Management Aggregation Code, supplementary data collaborators/receivers, Item Management Code, the IMCA, and effective date. 2,4,6

National Codification Bureau (NCB) Code. See DRN 4130, volume 12. 4

National Item Identification Number (NIIN). See DRN 4000, volume 12. All

National Motor Freight Classification Code (NMFC). See DRN 2850, volume 12. 1,2,6,15

National Stock Number (NSN). See DRNs 3960, 0126, 8525, 4120, 4150, 0260, 2895, 8875, 8869, 8878, and 8977, volume 12. 1,2,3,4, 5,6,13,14,15

	Volume(s)
NATO Stock Number (NSN). An item of supply produced by a NATO member nation other than the U.S. identified by that nation by the assignment of a NATO Stock Number (e.g., 0000-21-000-0000). When such items enter the supply system of the U.S. Government, they will be identified by the NATO Stock Number if codification agreements have been extended to provide for acquisition of foreign item identification data through DLSC. For such items, the NATO Stock Number will be used and recognized as the National Stock Number in internal management of the item in the U.S.	1,4,6
NATO Supply Code for Manufacturers (NSCM). See DRN 4140, volume 12.	1,4,5,7,15
Navy Cognizance Code. See DRN 2608, volume 12.	1,13
Next Higher Classifiable Assembly. This term is understood to mean the next higher assembly on or with which the item is used as a subassembly, part, attachment, or accessory. The term "higher assembly" is used for brevity and may actually include components, sub-assemblies, assemblies, and end items or systems.	4
Nominal Value. A value, excluding tolerance, used for the purpose of general identification usually expressed as a fraction, size number or letter, code number, gage number, or decimal number.	
Non-Approved Item Name (NAIN). See DRN 5020, volume 12.	3
Non-Duplicate (NDUP). When the item identification is sufficiently close to, but not an actual duplicate characteristically of, an existing Federal item identification and there are no matching reference numbers.	4
Normal Source of Procurement. See DRN 0721, volume 12.	
Nuclear Hardness Critical Item (NHCI). As defined in DoD-STD-100C. A hardware item at any assembly that is mission critical and could be designed, repaired, manufactured, installed or maintained for normal operation, and yet degrade system survivability in a nuclear environment if hardness were not considered.	10
On Hand/Due In. See DRN 0722, volume 12.	
Operational Feasibility. The determination of whether a data system change will operate properly and be properly used once developed and implemented.	1
Operational Need Date. See DRN 0726, volume 12.	
Optical Character Recognition (Reader) (OCR). A data processing technique (device) which converts, by optical means, the characters placed on paper into a code suitable for input to a computer.	1,2,7
Organizational Entity (O.E.). An organizational element, segment, or entity for cataloging; DoDAAC, bidders, manufacturing, or nonmanufacturing activity or establishment, etc.; and attribute data ascribed in the entity for the purpose of intensifying its meaning, characteristics, responsibility, eligibility, and area(s) of authority.	1,3,4,5,6,7, 14,15

	Volume(s)
Original Federal Item Identification. An item identification which has been approved by the Defense Logistics Services Center and assigned a National Stock Number, but which has not been revised, transferred, or cancelled.	4
Originating Activity. Any participating activity which originates proposed new or revised cataloging tools and/or proposed new or revised item identifications and related data for submittal directly or indirectly to DLSC for approval. It may be a managing activity which prepares its own catalog data for submittal or may be another activity functioning as a catalog agent for the managing activity. In those cases where the originating activity is authorized to submit proposals directly to DLSC rather than through an intermediate monitoring activity (e.g., Defense Supply Center; Defense Nuclear Agency), the originating activity assumes the status also of a submitting activity.	2,4,5,6
Originating Activity Code. See DRN 4210, volume 12.	1,4,5,6,15
Output Data Request Code (ODRC). See DRN 4690, volume 12.	1,2,4,5,6
Package Sequence Number (PSN). See DRN 1070, volume 12.	1,2,4,5,7,14
Partial Descriptive Method Item Identification (PDM). A Partial Descriptive Method (PDM) of item identification is a type 4 item identification which contains one or more characteristics in addition to the item name but does not contain all characteristics required for an FDM.	2,4,14
Permanent System Control Number (PSCN). See DRN 4250, volume 12.	1,2,4,5,6,15
Physical Security/Arms, Ammunition and Explosives Security Risk/Pilferage Codes. See DRN 2863, volume 12.	15
Possible Duplicate Item-of-Supply Concepts. An item-of-supply concept expressed by an existing item identification shall be considered a possible duplicate of a concept expressed by a proposed item identification or another existing item identification when (1) there is enough similarity in descriptive data and/or (2) there is one or more common reference number(s) related to each item to indicate that the same item of production is involved, or that the one single concept is adequate or may be established to identify the item of supply. Such cases warrant reference to the managing activity(ies) for verification of descriptive and/or reference data. Reconciliation of such data normally will result in revision of one or both concepts to more clearly differentiate the items or in a proposal to cancel one of the item identifications as an actual duplicate, as invalid, or to use the other item identification (cancel-use).	4
Precious Metal Indicator Code (PMIC). A code indicating the presence of precious metals (Gold, Silver, Platinum or a combination).	8,9,10,15
Price Validation Code, Air Force (PVC). See DRN 0858, volume 12.	

	Volume(s)
Primary Inventory Control Activity (PICA). See DRN 2866, volume 12.	1,2,4,5, 6,13,14
Primary Reference Number. The number used to identify an item of production or a range of items of production by the manufacturer (individual company, firm, corporation, or Government activity) which controls the design, characteristics, and production of the item through its engineering drawings, specifications, and inspection requirements. The number is the "design control reference".	4
Priority Indicator Code (PIC). See DRN 2867, volume 12.	2,4,5,14
Procurement Method Code (PIC). See DRN 2871, volume 12.	6,14
Procurement Method Suffix Code (PMSC). See DRN 2876, volume 12.	6,14
Production Lead Time. See DRN 0730, volume 12.	
Proposed Original Item Identification. An item identification for an item in or entering a supply system which has not yet been approved by the Defense Logistics Services Center (DLSC) as a Federal item identification assigned a National Stock Number.	2,4
Provisioning Screening Master Address Table (PSMAT). See DRN 0232, volume 12.	1,5,7
Provisioning Supply Support Request. Indicated by Card Identification Code P to show that a Supply Support Request received by the IMM from an ICP is the origin of the request when the item is in an FSC class subject to IMC.	2,6
Qualitative Value. The portion of a reply that expresses quality such as color, shape, material, condition, etc.	3
Quantitative Value. The portion of a reply which expresses a numeric value for such characteristics as dimensions, measure, magnitude, electrical rating, etc.	3
Quantity Unit Pack (QUP). See DRN 6106, volume 12.	6,15
Rail Variation Code. See DRN 4760, volume 12.	1,2,6,15
Reactivation Coding. Application of the approved IMC criteria by the ICPs to inactivated NSNs for which a IMM was the last manager, and the ICP is not currently recorded as a user.	6
Receiver Code. See DRN 2534, volume 12.	
Record Separator. The symbol used to indicate the completion of a characteristic reply or to indicate end of record.	16

	Volume(s)
Reference Method of Item Identification (RM). The reference method of item identification establishes and delimits the concept of an item of supply by reference(s) to the item-identifying number(s) of one or more manufacturers denoting the item or items of production included under the concept. Thus, under the reference method the essential characteristics of the item of supply are not delineated in the item identification but are ascertainable by research of the data represented by the manufacturers item-identifying number(s).	2,4,6,14
Reference Number. A reference number is any number, other than an activity stock number, used to identify an item of production or, either by itself or in conjunction with other reference numbers, to identify an item of supply. Reference numbers include manufacturers part, drawing, model, type, source-controlling, or specification-controlling numbers and the manufacturers trade name, when the manufacturer identifies the item by trade name only; NATO Stock Numbers; specification or standard part, drawing, or type numbers. The submittal of all known reference numbers related to an item of production or an item of supply, with the applicable Reference Number Category Code, the applicable Document Availability Code, and the applicable Reference Number Variation Code, is mandatory.	2,4,5,14,15
Reference Number Action Activity Code (RNAAC). See DRN 2900, chapter 12.2.	1,4
Reference Number Category Code (RNCC). See DRN 2910, chapter 12.2.	2,4,5,6,15
Reference Number Category Code Combination. Consists of the Reference Number Category Code (RNCC), Reference Number Variation Code (RNVC), and Document Availability Code (DAC) as expressed in volume 10, table 8.	
Reference Number Format Code (RNFC). See DRN 2920, chapter 12.2.	4,5
Reference Number Justification Code (RNJC). See DRN 2750, chapter 12.2.	1,4
Reference Number Status Code (RNSC). See DRN 2923, chapter 12.2.	
Reference Number Variation Code (RNVC). See DRN 4780, chapter 12.2.	2,4,5,15
Reference/Partial Descriptive Method Reason Code (RPDMRC). See DRN 4765, chapter 12.2.	1,2,4
Reinstated Federal Item Identification. A Federal item identification which has been cancelled but which has subsequently been reauthorized for use to identify an item of supply.	4,6
Remote Output Format Code. See DRN 0841, chapter 12.2.	16
Reparability Code - Coast Guard. See DRN 0709, chapter 12.2.	1
Reply. A reply (data item) is the answer to a specific requirement.	3,4
Reply Code. A code that represents an established reply to an approved requirement.	3,4

	Volume(s)
Reply Table. A listing of replies (data items) applicable to a requirement or group of requirements derived from a single data element. Each reply in the table is assigned a different reply code.	3,4
Report Control Symbol (RCS). Set of letters and numbers which identifies an approved report and authorizes its initiation and preparation.	2,14
Reports Generator. Designed to produce one-time listings or reports from the FLIS files.	1,5
Requirement. A definition of a required characteristic.	3,4
Requirement, Lead-In. A general requirement identifying and providing guidance for reply to a specific range of following requirements. A lead-in requirement is never assigned a MRC, nor does it ever require a reply.	3
Requirement, Major. A requirement which, in addition to requiring a reply, may necessitate replies to succeeding subordinate requirements (subrequirements) dependent upon the specific reply given to the major requirement (see definition of Requirement, Lead-In and Requirement, Subordinate).	3
Requirement, Subordinate. A requirement for which the reply is dependent on a lead-in requirement or major requirement (also termed "subrequirement").	3
Retail Manager (RM). A materiel manager or another designated activity within a Military Service/Agency having retail responsibility for an item of supply where the wholesale materiel management functions are performed by a IMM, including DNA, NSA, and TACOM.	6
Retroactive Coding. Scheduled application of the approved IMC criteria by the ICPs to item(s) in FSC classes designated as commodity oriented which were previously coded for Service retention.	6
Return Coding. A request to effect the return of an item currently coded for Integrated Materiel Management to Service management by the application of IMC criteria.	6
Routine Reclassification Action. Indicated by Card Identification Code F to show that DLSC has reclassified an item from a weapons system oriented to a commodity oriented FSC class and IMC criteria must be applied.	6
Routing Identifier Code (RIC). A group of letters or numbers assigned to indicate the geographic location of a station, a fixed headquarters of a command, activity, or unit at a geographic location, and the general location of a tape relay or tributary station to facilitate the routing of traffic over the tape relay networks.	1,2,6
Secondary Address Code (SAC). See DRN 8990, chapter 12.2.	1,3,4
Secondary Address Indicator Code (SAIC). See DRN 9485, chapter 12.2.	3
Secondary Inventory Control Activity (SICA). See DRN 2938, chapter 12.2.	1,2,6,13,14

	Volume(s)
Service/Agency Designator Code (SADC). See DRN 4672, chapter 12.2.	2,4,15
Service Item Control Center (SICC). An activity which: (1) serves as a Military Service focal point for resolution of support problems for required weapons systems oriented consumable items managed by another Military Service; (2) performs such residual technical functions as configuration control, item qualitative acceptability, allowance list preparation, and maintenance of internal program support responsibility; and (3) provides assistance to the IMM, as necessary, to support requiring Service users on a timely basis.	2,6,13,14
Shelf Life Code (SLC). See DRN 2943, chapter 12.2.	6,15
Simplified File Maintenance (SFM). FLIS output consisting of a monthly maintenance update, a cumulative monthly basic record, and semiannual basic replacement record for activity files shall be provided for Federal Item Identification Data and Catalog Management Data. It shall be distributed in NIIN sequence to authorized subscribing activities on magnetic tapes via mail. Data furnished from two or more functional areas shall be sequenced together.	1,2
Single Quality Items. Items (such as nuclear ordnance test and handling equipment) authorized for use on or with both war-reserve and training nuclear weapons.	4
Single Submitting Activity. See DRN 9255, chapter 12.2.	2,4
Source Controlled Federal Item Identification. A type 1, 1B, 2, 4, or 4B Federal item identification (original, revised, transferred, or reinstated) representing one or more specific manufacturer's items of production certified by an end item manufacturer, or by a Government activity, to be the only known items suitable for the specific application.	4
Source of Supply Code (SOS). See DRN 3690, chapter 12.2.	4,5,6,14,15
Source of Supply Modifier Code (SOSM). See DRN 2948, chapter 12.2.	6
Specially Designed Item. The term "specially designed item" is an abbreviation of the term "specifically designed for specific use on or with specific individual types of equipment" as used in the notes in Cataloging Handbooks H2-1 and H2-2. In order to be accepted as specially designed, an item does not have to be designed specifically for use on a single piece or single model of equipment; the item may be designed for use with categories of equipment, such as all kinds of printing presses, all kinds of diesel engines.	4
Special Packaging Requirement. See DRN 0725, volume 12.	
Standard Requirement. A lengthy requirement which, because it is used repeatedly in many patterns, has been put in standardized form.	4
Standard Test Data Base (STDB). Maintained at DLSC with data input by Services/Agencies participating in the interface test program.	1

	Volume(s)
Statistical Indicator Code. See DRN 3708, volume 12.	
Submitted Package Sequence Number (SPSN). See DRN 8328, volume 12.	
Submitter Code. See DRN 2535, volume 12.	
Submitting Activity. Any participating activity which submits proposed catalog data directly to DLSC for approval. The submitting activity may be the activity which originates the catalog data or an intermediate monitoring activity (e.g., Defense Supply Center; Defense Nuclear Agency) through which the originating activity is required to submit its proposals to DLSC.	1,2,3,4, 5,6,7
Submitting Activity Code. See DRN 3720, volume 12.	1,4,5,15
Supply Management Data. Item data which do not affect NSN assignment but are necessary to support logistics functions.	3,6
Supply Support and Cataloging Action Request. Indicated by Card Identification Code V to show that an SSR other than provisioning received by the IMM from an ICP is the origin of the request when the item is in an FSC class subject to IMC.	6
Supply Support Request (SSR). A request submitted by the activity responsible for supporting an end item being provisioned to a Integrated Materiel Manager which manages some of the support items or is a potential manager of some new support items used in the end item.	2,6
Suspense File. The portion of the process control sector (SSR) which will serve as a temporary repository of unique information of functional value to the Service/Agency for the implementation of a logistics data transaction within DLSC.	1,4,5
System Advisory Notice (SAN). Notification to Services/Agencies of the SCRs scheduled for implementation in a given SMR. The SAN will be published approximately 300 days prior to a scheduled implementation date.	1
System Change Request (SCR). A formal request for modification of the FLIS. The SCR will be assigned one of the following priorities.	1,6,15
a. Routine - an SCR requiring at least 45 calendar days for Service/Agency coordination and distribution of the system change by DLSC a minimum of 180 days prior to implementation.	
b. Expedite - an SCR requiring at least 45 calendar days for Service/Agency coordination and distribution of the system change by DLSC a minimum of 90 days prior to implementation.	
c. Emergency - an SCR required to maintain the operational status of FLIS.	
System Control Number (SCN). See DRN 3735, volume 12.	4,6

	Volume(s)
System Management Release (SMR). Notification to Services/Agencies of a scheduled change that will be implemented. The SMR will be published approximately 240 days prior to a scheduled implementation date.	1
System Support Record (SSR). The segment of the FLIS data bank containing the sum total of information (guides, program subroutines, tables, rules, controls, statistics, codes, terms) required to support or specify the content and utilization of the FLIS data base . The SSR is comprised of the following files: Organizational Entity, Item Name, FSC, FIIG/DP/Guide, Table Look-Up, Graphics, Process Control, Mass Changes to FLIS data base, Mass Data Retrieval, and Tailored Data Interrogations.	1,2,5,6,7, 13,14,15
Technical Feasibility. The determination of whether the development of a data system change is possible within the limits of available technology.	1
Training Quality Items. Items designated for use on or with training nuclear weapons or on nuclear ordnance test and handling equipment but not authorized for use on war-reserve nuclear weapons.	4
Type of Cargo Code. See DRN 9260, volume 12.	1,2,15
Type of Financial Management Control. See DRN 0729, volume 12.	
Uniform Freight Classification Code (UFC). See DRN 3040, volume 12.	1,2,6,15
Unit of Issue (U/I). See DRN 3050, volume 12.	2,6,14,15
Unit of Issue Conversion Factor. See DRN 3053, volume 12.	6
Unprocessable Transaction. Transactions which did not contain the minimum essential control elements required for processing. These transactions are not queued for further processing and are not retained in the FLIS files.	1,2,4,6
Using Service Code. See DRN 0745, volume 12.	
Voluntary Standard. A product standard developed under procedures published by the Department of Commerce. Its adoption by a particular industry, company, or organization is voluntary. It is used as a standard for the procurement and production of a product.	6
War-Reserve Quality Items. Items authorized for use on or with war-reserve nuclear weapons but not designated for use on training nuclear weapons or test and handling equipment.	4
Water Commodity Code. See DRN 9275, volume 12.	1,2,15
Weapons Integrated Materiel Manager (WIMM). The Military Service Inventory Control Point (ICP) which performs the DoD integrated materiel management functions for assigned consumable items.	2,5,6,13,14

	Volume(s)
WIMM Assignments on a By-Item Basis. Items of supply classified in those FSC classes included in the WIMM assignment but the management assignment for each individual item of supply is determined on a by-item management coding basis.	2
Withdraw. The word "withdraw" in these procedures refers specifically to activity action to remove existing data from DLSC files.	2,6

**DEVELOPMENT AND MAINTENANCE
OF ITEM LOGISTICS DATA TOOLS**

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CHAPTER 1 ITEM LOGISTICS DATA TOOLS

3.1.1 Introduction. This volume describes procedures for the development, submittal, coordination, and maintenance of tools required to organize item logistics information. Included are Item Names and Federal Item Identification Guides (FIIGs), the Federal Supply Classification (FSC) system, and Department of Defense Ammunition Codes (DoDACs). Volume 15 covers the H-series handbooks; the Organizational Entity Sector in Volume 7.

3.1.2 Purpose. The intent of this volume is to provide procedural guidance for the development and maintenance of Item Logistics Data Tools.

3.1.3 Types of Tools.

a. **Item Names:** Names selected and delimited, where necessary, to establish basic concepts of items of supply. (See 3.2)

b. **Federal Item Identification Guides:** Self-contained documents using a machine-oriented coding format to collect item logistics data. (See 3.3)

c. **Federal Supply Classification:** A system of groups and classes used to classify items for logistics management. (See 3.4)

d. **Department of Defense Ammunition Codes:** Code numbers assigned to descriptions of ammunition, explosives, and guided missile items. (See 3.5)

e. **Item Characteristics:** Physical, performance, and other item-related logistics data required to describe, differentiate, and manage items of supply. (See 3.2.4b (1))

f. **Initiating Activity:** An activity assigned the technical responsibility for the preparation, coordination, reconciliation, and maintenance of specific FIIG documents. (See 3.2.3)

g. **Submitting Activity:** Any participating activity which submits proposed catalog data directly to the Federal Logistics Information System (FLIS). The submitting activity may be the activity which originates the cataloging data or an intermediate monitoring activity.

3.1.4 Use. This volume contains instructions to develop and maintain Item Name, FIIGs, the FSC system, and DoD Ammunition Codes.

**CHAPTER 2
ITEM NAMES**

3.2.1 Purpose. This chapter provides rules and procedures for developing item names. The development of a single name for each type of item of supply will build a common language for logistics operations.

3.2.2 Types of Names.

a. **Basic Name:** A noun word or noun phrase used as the first word or group of words in an item name, or as an item name by itself when it establishes a single concept of an item of supply. (See 3.2.4a)

b. **Approved Item Name (AIN):** the name selected as the official designation for an item of supply. (See 3.2.4c)

c. **Non-Approved Item Name (NAIN):** a name given to an item of supply by a Government activity when an appropriate Approved Item Name does not exist. (See 3.2.4d)

d. **Colloquial Name:** a commonly used, generic name, or trade name referenced to an Approved Item Name to assist in assigning names to items of supply. (See 3.2.4e)

3.2.3 Use. The guidelines and procedures presented in this chapter will be used to develop item names in a uniform manner. Application of these rules will support the Federal Supply Classification System for grouping like items for management purposes and the Federal Item Identification Guides structure for grouping like items for identification purposes. Accordingly, DLSC shall collaborate revised item name actions with the initiating activity responsible for the FIIG and with the item manager(s) responsible for the items in the affected FSC(s).

3.2.4 Item Name Development. The primary concern in the development of a new item name and its delimitation is producing the most accurate designa-

tion and description for the item concept in the least number of words needed to distinguish it from every other item concept. Use only part names or NAINs in the preparation of reference or partial method item identifications when no Approved Item Name exists. See Appendix 3-2-A thru I to this chapter for samples.

a. **Basic Names and Modifiers.** A basic name is either a basic noun word or a basic noun phrase. Use as an item name only when it establishes a single concept of an item or as the first word or group of words in an item name, followed in inverted sequence by the least number of modifiers necessary to establish a single concept of an item.

(1) **Use of the Most Specific Word as a Basic Name.** Only a noun word or a noun phrase which conveys the most specific basic concept of an item shall be used as a basic name.

Acceptable

CHAIR
SHOES
INK

Nonacceptable

FURNITURE
FOOTWEAR
WRITING FLUID

(2) **Use of the Preferred Synonym.** Use the basic name most commonly acceptable in technical or commercial practice when two or more nouns are synonymous. The other name(s) shall be cross-indexed to the basic name selected (see 3.2.4.e).

Acceptable

OVERSHOES
DRESSER

Nonacceptable

ARCTICS
BUREAU

(3) **Use of an Indefinite or Nonlimiting Word in a Basic Name.** The following shall never be used as a basic noun but may be used as the first or last word of a basic noun phrase:

ACCESSORY	MIX
ACID	MIXTURE
APPARATUS	OIL
ASSEMBLY	OUTFIT
ASSORTMENT	MODULE
ATTACHMENT	PLANT
COMPOUND	POWDER
DEVICE	SECTION
ELEMENT	SET
ELIXIR	SHOP
EQUIPMENT	SOLUTION
FLUID	SUBASSEMBLY
GROUP	SUSPENSION
INJECTION	SYSTEM
INSTRUMENT	TABLETS
KIT	TACKLE
LIQUID	TOOL
MACHINE	UNIT
MECHANISM	VEHICLE

(4) Use of the Singular Form. The basic name shall be written in singular form, except as follows:

(a) Where the only form of the name is plural.

Examples: SCISSORS
 TONGS
 TROUSERS

(b) Where the nature of the item requires the plural form.

Examples: CLIMBERS (pair)
 BEANS WITH PORK
 SHOES (pair)

(5) Use of a Foreign Word or Phrase in a Name. A foreign word or phrase shall not be used in a name, except where such foreign term is considered to be more expressive than the English term and when the foreign term has received preferential use to the exclusion of its English equivalent.

Acceptable	Nonacceptable
PACKSADDLE	APARENJO
MACHETE	CUTLASS, HEAVY

(6) Use of a Trade-Marked or Copyrighted Name. A trade-marked name or copyrighted name shall not be used as a basic name or modifier except as applied to items controlled by the manufacturer who controls the trade-mark or copyright. Even in this situation, a trade-marked name or copyrighted name shall be used only where the technical name for the item is generally considered to be difficult to pronounce or spell.

Acceptable	Nonacceptable
CAMERA	KODAK
REFRIGERATOR	FRIGIDAIRE
DECAL	DECALCOMANIA

NOTE: The submitting activity shall specifically justify to the Defense Logistics Agency, DLSC, Directorate of Logistics Data Management, the use of a trade-marked or copyrighted name.

(7) Use of a Basic Name for a Container. Use the name of a container, as a Basic Name, to indicate an empty container which is of itself an item of supply used for shipping or distribution purposes.

Examples: BARREL DRUM
 BOTTLE REEL
 CAN SPOOL

(8) Use of Names of Containers in Basic Names of Items Which Are Not Containers. Use a basic noun phrase when the item is not a container but the name of the item involves the use of a noun which ordinarily would designate a container.

Acceptable	Nonacceptable
JUNCTION BOX	BOX, JUNCTION

(9) Use of Abbreviations.

(a) Never abbreviate the basic name or modifier in an Approved Item Name, except as follows:

ACS	- American Chemical Society
CBR	- Chemical, Biological, and Radiological
DDT	- Dichloro-diphenyl-trichloro-ethane
EAM	- Electrical Accounting Machine
NF	- National Formulary
NPH	- Neutral Protamine Hagedorn
TK	- Turn Knob
USP	- United States Pharmacopeia
VDRL	- Venereal Disease Research Laboratory

(b) Use conventional abbreviations in names of culture media and in mixtures used to prepare culture media (e.g., S1S1 AGAR; ATS MEDIUM; EVA BROTH).

(10) Use of Hyphens, Conjunctions, and Prepositions in a Name. Form a hyphenated noun word or a basic noun phrase if a Basic Name or a modifier consists of a combination of the names applicable to two or more items. Join the applicable names by a conjunction or preposition. Never use "OR" as a conjunction. Never use "/" either.

Examples:	RECORDER-REPRODUCER
	CORK AND TASSEL
	PORK WITH GRAVY
	BEEF AND CORN
	HOOK AND EYE
	BENDING MACHINE, PIPE
	AND CONDUIT
	BIT, HORSE-MULE

(11) Construction of a Basic Noun Phrase. Use a basic noun phrase when the word cannot be

delimited to establish a basic concept of the item. In this situation, the use of the inverted sequence with a basic noun followed by a modifier would lead to a misunderstanding of the basic concept of the item. It is therefore necessary to use the words in a straightforward sequence as a basic noun phrase to convey a clear basic concept of the item.

Acceptable	Nonacceptable
-------------------	----------------------

CHART BOARD	BOARD, CHART
SLIDE RULE	RULE, SLIDE

(12) Use of Names of Materials in Basic Names. Use a basic noun phrase when the item is not a material but the name of the item involves the use of a noun which ordinarily would designate a material.

Acceptable	Nonacceptable
-------------------	----------------------

SOLDERING IRON	IRON, SOLDERING
BUTCHER'S STEEL	STEEL, BUTCHER'S

(13) Use of Basic Name Modifiers.

(a) Use modifiers consistently on all Approved Item Names (AINs) for functionally similar Basic Names to eliminate overlap and confusion of AIN applicability.

Acceptable

EXTINGUISHER,
FIRE

EXTINGUISHER,
FIRE,
CARBON DIOXIDE
and EXTINGUISHER,
FIRE, DRY
CHEMICAL

Nonacceptable

EXTINGUISHER,
FIRE and
EXTINGUISHER,
FIRE, CARBON
DIOXIDE

(b) Use modifiers according to the following preferences:

(1) Modifiers indicating what an item is (its shape, structure, or form).

(2) Modifiers indicating what an item does (its function).

(3) Modifiers indicating the application of an item (what is it used for).

(4) Modifiers indicating the location of an item (where is it used), (e.g., AIRCRAFT, AUTOMOTIVE, etc.).

EXCEPTION: Do not add modifier in order to conform with these rules if the addition of such a modifier would result in an item name that would conflict with the name commonly used in industry and Government. In this case, delimit each item name to indicate a unique concept of an item.

Acceptable

DRESSER
An article of bedroom furniture, the top of which is less than 40 inches from the floor. It usually has full length drawers and a mirror.

DRESSER, CONTACT
POINT

A flat, thin strip of flexible material, treated on both sides with a coating of the same abrasive grain.

Excludes: BURN-
ISHER, CONTACT,
HAND and STRIP
ABRASIVE, DEN-
TAL.

PENCIL

Excludes: PENCIL,
MECHANICAL and
CRAYON, MARK-
ING.

PENCIL,

MECHANICAL
An item for writing or other marking use in which the lead is replaceable.

Nonacceptable

DRESSER,
HOUSEHOLD (with
or without delimita-
tion)

DRESSER
(without delimitation)

PENCIL, NON-
MECHANICAL
(with or without
delimitation)

PENCIL
(without delimitation)

(c) The first modifier shall serve to narrow the area established by a basic name concept. All such first modifiers express the same type of characteristic in that position for the same basic name concept. For a multi-concept basic name, the type of charac-

teristic expressed by the first modifier may vary for the different concepts.

(d) So far as practicable, all second modifiers applying to a particular basic name plus a first modifier shall express the same type of characteristic used following the same basic name and first modifier combination. Second modifiers shall express a different type of characteristic from that expressed by the first modifier.

Examples: SAW, HAND, CROSSCUT
SAW, HAND, RIP
RESISTOR, FIXED, COMPOSITION
RESISTOR, FIXED, FILM

(e) DLSC will allow no more than two modifiers to form an item name except upon written justification or prior approval for drugs/chemicals or specific USDA requirements.

(f) A word directly qualifying a modifying word shall precede the word it qualifies, thereby forming a modifying phrase.

Examples: CAMERA, MOTION PICTURE
BASKET, WOVEN WIRE,
FRYING

(g) Possessive Modifiers.

(1) A possessive modifier for a noun in the singular form shall also be in the singular form.

Examples: COAT, MAN'S
DRESS, WOMAN'S

(2) A possessive modifier for a noun having only the plural form will also be in the plural form.

Examples: TROUSERS, MEN'S
SLACKS, WOMEN'S
COVERALLS, MECHANICS'

(h) Professional, Trade or Occupational Modifiers. Use these modifiers only when the item concept can be expressed better.

Acceptable **Nonacceptable**

WRENCH, OPEN END, FIXED WISE, BLACK- SMITH'S	WRENCH, ENGI- NEER WISE, LEG
---	------------------------------------

(i) Do not use material as a modifier to a basic name or noun phrase since material is an item characteristic.

Acceptable **Nonacceptable**

TUBE, METALLIC ROD, NON- METALLIC	TUBE, BRASS ROD, HARD RUB- BER
---	--------------------------------------

(14) Development of Names for Drugs and Chemicals. Form the item name for a drug or chemical in accordance with the rules specified below. Modify the basic names for drugs and chemicals where necessary to achieve differentiation between grades, qualities, or compositions.

(a) A basic name for a drug or chemical of medicinal grade shall conform to Federal regulations or the English title as set forth in the United States Pharmacopeia, National Formulary, United States Adopted Names, AMA Drug Evaluation, Reagent Specifications of the American Chemical Society or to general commercial practice, in that order of priority. Rearrange the basic name or first part of the basic noun phrase to indicate the principal ingredient which produces the therapeutic effect, followed by the remaining active ingredients in alphabetical sequence. Federal regulations may

allow for broad names for items such as soaps and shampoos which have medicinal application.

(b) A basic name for a chemical of nonmedicinal grade shall conform to the English title as set forth in the Reagent Specifications of the American Chemical Society or to the extent that the basic noun or noun phrase shall be the name of the principal ingredient.

(c) Chemically significant symbols when used in connection with chemicals, such as those for alpha, beta, dextro, gamma, inactive, levo, meta, ortho, para, and symmetrical, shall be written in lower-case letters a-, b-, d-, g-, i-, l-, m-, o-, p-, and sym.

Acceptable	Nonacceptable
a-NAPHTHOL, REAGENT	A-NAPHTHOL, REAGENT
sym-DIO-o-TOLYL THIOUREA, TECHNICAL	SYM-DI-O-TOLYL THIOUREA TECHNICAL

(d) Position numerals included in chemical item names shall not be spelled out.

Acceptable	Nonacceptable
2-MERCAPTOBEN- ZOTHIAZOLE, TECHNICAL	TWO-MERCAPTO BENZOTHIAZOLE, TECHNICAL

(e) When developing an item name for an inorganic chemical, the cationic part of the basic name shall include suffixes such as -ic or -ous to indicate the valence state of the chemical where such chemical occurs in both forms.

(f) Defined Modifiers for Drugs and Chemicals. Use the following modifiers to indicate the appropriate grade or variation of a drug or chemical as applicable, and require that it be the last modifier

in the item name. If one of these modifiers is the third modifier in an item name, the Directorate of Logistics Data Management, DLSC will authorize this without specific approval.

(1) USP: denotes the quality which conforms to the specifications established in the Monographs and Adjuncts and Clinical Reagents sections of the Pharmacopeia of the United States. Use this modifier in the item name of every drug item of this quality.

(2) NF: denotes the quality which conforms to the specifications established in the Monographs section of the National Formulary. Use this modifier in the item name of every drug item of this quality.

(3) MODIFIED: Indicates that a variation exists in the formulation as established by the United States Pharmacopeia, National Formulary, or recognized professional and industry standards.

(4) ACS: denotes the quality of "reagent" chemicals which meets or exceeds the specifications established and published by the Committee on Analytical Reagents of the American Chemical Society. The description of a chemical which exceeds the ACS standard of purity shall include a specific statement as to the difference.

(5) ANALYZED REAGENT: denotes high quality chemicals which are suitable for exacting analytical work and which bear a label giving a statement of the maximum percentage of the important impurities present. Generally, analyzed reagent grade is comparable to ACS grade for those chemicals where an ACS standard does not exist. ANALYZED REAGENT shall be the designation for all commercial listings of reputed "reagent" chemicals and "CP" chemicals which include an analysis of impurities in the identification label, provided they are not ACS grade. Also, ANALYZED REAGENT shall be the designation for chemicals which meet

the specifications of "reagent" chemicals as found in the Non-monographed sections of the United States Pharmacopeia or the National Formulary. When chemicals of analyzed reagent grade exceed the normal impurities limitations for this grade, their identification must be expanded to indicate any significantly lower impurity limits. Normally, trade identifies these items with statements such as "Low in Iron" or Free from Arsenic."

(6) REAGENT: denotes "reagent grade chemicals which do not bear a label stating the percentages of the important impurities present". Reagent grade chemicals have limited use in analytical work because of the uncertainty as to the kind and amount of impurities present. Laboratories use these chemicals extensively in synthesis and in certain analytical procedures where the inherent impurities are not critical to the intended reaction.

(7) TECHNICAL: denotes a quality of chemicals generally used for industrial, solvent, and manufacturing applications. Generally, the manufacturer does not employ specific processes to limit all the impurities, aside from the normal precautions which are taken in the manufacturing process. A technical chemical may be specifically processed to reduce specific impurities so as to suit the chemical to a given industrial application. In such cases, the identification of the items must be further expanded to indicate specific impurities limitation.

(8) PHOTOGRAPHIC: denotes a special grade of chemical of such quality that limits impurities known to be harmful to photographic processes to safe quantities and restricts inert impurities to amounts not reducing the strength of purity of the chemicals below the requirements. Manufacturers package these chemicals for unit application in specifically designed containers to ensure against contamination and deterioration.

(9) STANDARD SAMPLE: denotes a ma-

terial resembling as closely as possible in chemical and physical nature the material with which the technical chemist expects to deal, thus eliminating the necessity of additional research into many variables. Manufacturers analyze standard samples by a sufficient number of methods and analyses to establish the average composition of the material with considerable certainty. Analyzing a sample along with the material causes the sample to behave like the stock material. Analyzing the standard sample and the material at the same time (and under practically identical conditions), wide divergence from the determinations made by research chemists on the standard sample indicates at once that the stock material deviates from the standard sample. National Bureau of Standards miscellaneous Publication 241, or its superseding document, lists the names of materials used to develop item names using the modifier STANDARD SAMPLE. Do not use this modifier unless the material has a National Bureau of Standards sample number.

(g) Use of Modifiers Indicating Degree of Hydration. The conditions listed below may influence the use of modifiers for drugs and chemicals. We recognize the degree of hydration by the last part of a formula which indicates that the compound contains a specific number of water molecules (H₂O) or none. Submit the chemical formula with the proposed name.

(1) Modifiers describing the degree of hydration shall precede the last modifier, if any.

(2) Do not express the degree of hydration when a modifier already implies hydration (e.g., CRYSTALS).

(3) Do not add modifiers to indicate degree of hydration to item names established by Federal regulations or to items containing USP or NF as modifier.

(4) If the formula indicates that there are not molecules of water in the compound, and the material occurs in both anhydrous and hydrous forms, include the modifier ANHYDROUS in the item name.

(5) Do not add the modifier ANHYDROUS after a modifier indicating dehydration (e.g., DESICCATED).

(15) Development of Names for Dyes.

(a) The item name for a dye having a color index number or a foreign prototype number shall consist of the basic name Dye followed by the name of the dye assigned to the index or prototype number.

Examples: DYE, BISMARCK BROWN G
DYE, INDATHRENE BLUE
GCD
DYE, PONTACYLE CARMINE
2B

(b) The item name for dyes with no code number designation shall consist of the basic name DYE followed by the color modifier of the using activity. When an activity submits a color designation as a modifier for DYE, they must also send in a statement giving the chemical name for the dye. The Directorate of Logistics Data Management, DLSC, will eliminate duplicate item names by making a comparison of chemical names. DLSC does not publish chemical names for dyes in the Alphabetic Index of Names, section A, Cataloging Handbook H6, Federal Item Name Directory for Supply Cataloging, because such information is normally confidential to the respective manufacturers.

Example: DYE, DARK BROWN

(c) The item name for a dye mixture (mixture of two or more single dyes) shall consist of

the basic name DYE MIX followed by a modifier indicating the color produced by the mixture.

Example: DYE MIX (1), SEAL BROWN

(16) Development of Item Names for Meat and Poultry. Form the item name for a meat or poultry product in accordance with the rules specified below:

(a) Structure the item name for a meat or poultry item in accordance with the Meat and Poultry Act and Regulations of Food Safety and Inspection Service, USDA.

(b) Meat and poultry item name submittals shall contain a justification statement indicating the name request is in accordance with USDA structure requirements and shall cite the applicable specifications, if available.

(c) In order to comply with USDA labeling requirements for meat and poultry food products, the number of modifiers is not limited.

(17) Development of Names for Mobile Units

(a) The basic name for a mobile unit equipped for a specific function shall indicate the function, not the mobile unit.

Acceptable	Nonacceptable
DECONTAMINATING APPARATUS MACHINE SHOP	DECONTAMINATING TRUCK MACHINE SHOP SEMITRAILER

EXCEPTION: Mobile units in which the specific function is the governing characteristics of the design may have the name of the mobile unit as the basic name.

Examples: TRUCK, FIRE FIGHTING
TRAILER, DUMP

(b) If the equipment contains mounted special equipment or apparatus necessary to perform a specific function, reflect this broad type of transport with one of the modifiers for mobile units.

Examples: BAKERY PLANT, TRAILER
MOUNTED
TEXTILE REPAIR SHOP,
SEMITRAILER MOUNTED
DECONTAMINATING
APPARATUS, POWER
DRIVEN, TRUCK MOUNTED

EXCEPTION: Mobile units in which the specific function is the governing characteristic of the design.

Examples: TRUCK, FIREFIGHTING
TRAILER, DUMP

(c) When the equipment design function requires some form of mobility, either vehicular mounted or self-propelled, one of the modifiers shall reflect the broad type of transport for which mounted or the source of mobility (prime mover) data.

Examples: SCRUBBING MACHINE,
PAVEMENT, TRUCK
MOUNTED
CLEANER, VACUUM, SELF-
PROPELLED

A term such as SEMITRAILER MOUNTED, TRACTOR MOUNTED, TRUCK MOUNTED, etc., when used as a modifier in the item name for a mobile unit, shall indicate that when the equipment is removed from the mounting, there remains a complete semitrailer, tractor, trailer, truck, or chassis thereof. The term SELF-PROPELLED shall indicate

that the source of mobility (prime mover) is (1) a designed part of the equipment, or (2) a conventional vehicle modified to the extent that the designed purpose of the vehicle is destroyed when it is used as a source of mobility for the equipment.

(d) When the equipment design is for a specific transport mounting but the transport is not a part of the item of supply, the name may reflect the type of transport.

Example: SHOP EQUIPMENT,
WELDING, TRUCK
MOUNTED

(e) Do not reflect the broad type of transport in an item name for equipment such as pumps, compressors, or generator sets, which are not normally mobile but which may be mounted on some form of vehicle. Reflect this type of mounting in the appropriate FIIG.

b. Delimitations.

(1) Types of Delimitations. A delimitation shall be accomplished by one or a combination of the following methods, depending upon the degree of demarcation necessary for uniqueness in the basic concept name or item name as described in this subsection:

Definition
Exclusion of related name
Inclusion of synonymous names
Restriction of use
Cross-referencing to related names

(a) Delimitation by Definition. Develop a single definition for each basic concept name and item name except for the following: (1) a subsistence, drug, or chemical (basic, not application) item when the name appears in an official standard recognized industry-wide or the name completely

defines the item; (2) a technical term contained in an official standard or technical manual recognized industry-wide; or (3) an item name consisting of a basic concept modified by subsistence, drug, chemical, or technical terms as specified in exemptions (1) or (2) above.

(1) Each definition shall clearly explain the characteristics involved in the item concept to which it applies and shall serve to distinguish the item concept from other similar or closely related concepts.

(2) When an item name includes a basic concept name, define the item in terms of the basic concept name. A basic concept name is one that delimits and identifies a particular meaning for that name when other meanings are possible or known, such as Lens. There are camera lenses, flashlight lenses, ophthalmic lenses, and optical lenses. Define and number the basic concepts.

Example: Resistor

1. (Electrical) A device, the primary purpose of which is to introduce opposition to the flow of current in an electrical circuit.

Acceptable

RESISTOR (1), VARIABLE, NON-WIRE WOUND, NONPRECISION

A resistor in which a sliding or rolling contact moves over an exposed area of the resistive element to change the ohmic value of the output.

Nonacceptable

RESISTOR, VARIABLE, NON WIRE WOUND

An item having electrical resistance whose primary purpose is to limit the flow of current in either direction in an electrical circuit, designed

The functional tolerance (linearity), is given, of the output is greater than plus or minus 1 percent on linear outputs. Specified outputs such as sine, cosine, tangent, etc., shall be considered to be precision. For items having manually positioned taps designed to be set and fixed prior to use, see RESISTOR, ADJUSTABLE. For items with step by step variation see RHEOSTAT and RESISTOR, STEP BY STEP. For tandem mounted items designed to function together as an attenuator (and rated accordingly), see ATTENUATOR(1), VARIABLE. Excludes RESISTOR (1), VARIABLE, WIRE WOUND, NONPRECISION; RESISTOR (1), VARIABLE, NON-WIRE WOUND, PRECISION: and RESISTOR (1), VARIABLE, WIRE WOUND, PRECISION.

to allow a nominally continuous variation in the ohmic value of the resistive element.

(3) When an item name does not include a basic concept name, do not define the item name in terms of the basic name.

Example: When PLATE is undefined.

Acceptable

**PLATE, PHOTO-
GRAPHIC**

A sheet of glass, metal, or stiff plastic bearing a silver salt emulsion coating which, when exposed to a light source and a chemical treatment, produces a visible black and white or color image. It may be designed in size and form to be projected.

Nonacceptable

**PLATE, PHOTO-
GRAPHIC**

A plate used in photographic work.

(4) Do not define an item name in its own terms. Do not include the basic name or modifier in the definition except when the name incorporates a numbered basic name concept (see paragraph 3.2.4.b.(1)(a)(2) above).

(5) Separate Approved Item Names referred to within the definition by semicolons (including one before the conjunction "and").

(6) Use the term "and the like" instead of "etc." or "et cetera".

(7) When a U.S. dimension is included, its metric equivalent shall follow in parentheses.

(8) Limit capital letters in definitions to the initial letter of the first word of a sentence, all letters of an Approved Item Name, the first letter of a basic name concept, any actual proper noun, and words reflecting a title (e.g., Screw Thread Standards for Federal Services). Present colloquials and Nonapproved Item Names used within a definition in lower-case letters.

(9) Do not use abbreviations and acronyms in definitions except as noted in paragraph 3.2.4.a (9) (a) above. Always use abbreviations in "number" to show a screw size (e.g., No. 10).

(10) Spelling must be correct in all definitions.

(b) Delimitation by Exclusion. Use the method of exclusion as an appropriate form of delimitation to limit the concept of a basic name or an item name by indicating that certain closely related names do not fit the concept which might otherwise be for consideration in the concept. In the delimitation of a basic name, use exclusion only as a supplement to a definition.

Example: CHISEL, RIVET
BUSTER, HAND
Excludes CHISEL, SIDE
CUTTING, HAND

(c) Delimitation by Inclusion. Use the method of inclusion as an appropriate form of delimitation to limit the concept of a basic name or an item name to indicate that certain closely related names do fit the concept which might otherwise not be for consideration in the concept. In the delimitation of a basic name, use an inclusion only as a supplement to a definition.

Example:

Bottle

A hollow vessel, usually constructed of glass or other transparent material in various shapes. It usually has a neck which is smaller than the body and a narrow mouth for a stopper or other type closure. Includes vials. Use a type modifier, such as "dropper".

(d) Delimitation by Restriction of Use. When a basic name limits one or more specific item

concepts, an appropriate restrictive word or phrase shall delimit each such item concept. Never use the parenthetical delimitation as a part of the item name.

Examples: Generator (Electrical)
Generator (Chemical)
Hammer (Mechanical)
Rule (Printing)
Propeller (Aircraft)

(e) Delimitation by Cross-Reference to Related Names. When a close relationship exists between two or more Approved Item Names, use the term "see" or "see also" for identification of the related Approved Item Names before making a final selection of the appropriate AIN.

Example: RESISTOR, VOLTAGE SENSITIVE
See also RECTIFIER, METALLIC and
RESISTOR, CURRENT REGULATING

(f) Format for Delimitations: The delimitation follows the Approved Item Name in paragraph form.

Examples:

AMPLIFIER ASSEMBLY

Two or more independent amplifiers having a common mounting or mounted on each other.

SCREW, MACHINE

An externally threaded fastener whose threaded portion is one of nominal diameter, No. 0 (0.060 in.) (1.5 millimeters) or larger, designed to be held or driven with either a wrench or an inserted driver or both in sizes below No. 10 (0.190 in.) (5 millimeters) nominal diameter (excluding internal socket or internal multiple spline types). No. 10 (0.190in.) (5mm) and larger sizes must have a

head designed for any type inserted driver (excluding internal socket or internal multiple spline types), but may also be designed for external wrenching. A locking feature may be incorporated in the design of the head or threads. Excludes BOLT, CLEVIS; BOLT, EXTERNALLY RELIEVED BODY; SCREW, EXTERNALLY RELIEVED BODY; and SCREW ASSEMBLED WASHER. See also SCREW, INSTRUMENT; BOLT, MACHINE; BOLT, INTERNAL WRENCHING; and SCREW, CAP, SOCKET HEAD.

c. Approved Item Names (AINS). Designate item names consisting of a basic name with a modifier(s) and a delimitation, where applicable, as Approved Item Names upon final approval and Item Name Code assignment by the Directorate of Logistics Data Management, DLSC. Paragraphs 3.2.5; 3.2.6; and 3.2.7, respectively, contain the procedures for submittal, coordination, and approval of proposed item names.

(1) Indexing of Approved Item Names. Index Approved Item Names for use in the descriptive method of item identification to the applicable FIIG number in the Alphabetic Index of Names, section A of the Federal Item Name Directory (Cataloging Handbook H6). (See 3.2.7a)

(2) Common Usage. Use the most commonly used names by Government and industry when two or more names are applicable to an item. Cross-index the other name(s) to the selected name (see 3.2.4.e).

(3) Use of Capital Letters. Approved Item Names shall always appear printed in capital letters except in certain drugs and chemicals (see 3.2.4.a(14)(c)).

(4) Use of a Comma in an Approved Item Name. A comma shall be used:

(a) To separate a modifier from a basic name or from a preceding modifier:

Examples: CAMERA, MOTION PICTURE
SAW, HAND, CROSSCUT

(b) When an item name contains three or more principal components.

Examples: ASPIRIN, PHENACETIN, AND
CAFFEIN TABLETS
BENZOCAINE, SODIUM
BORATE, AND METHOL
TABLETS

EXCEPTION: When an item name includes a preposition such as WITH in the item name.

Examples: BEEFSTEAK AND POTATOES
WITH GRAVY, CANNED
BEEF AND MACARONI WITH
CHEESE SAUCE, CANNED

(5) Use of Parentheses in an Approved Item Name. Do not use parentheses to enclose any portion of an Approved Item Name except in certain drugs and chemicals.

Example: N-(1-NAPTHYL)-
ETHYLENEDIAMINE
DIHYDROCHLOR-
IDE, ANALYZED REAGENT

d. Non-Approved Item Names (NAINs). When no appropriate AIN exists for an item, the designated name is a Non-Approved Item Name (See 3.2.2c). INC 77777 represents NAINs. The name may be a part name given by a manufacturer, but its structure shall conform to the guidelines used in the development of Approved Item Names (see 3.2.4.a and 3.2.4c) except as noted below:

(1) Use of Punctuation. Do not put a space after

any comma in a NAIN. Use the period only before or between numeric characters.

(2) Duplication of Part Names. Sometimes we use two or more part names to express one item concept because we base the reference method of item identification upon the manufacturer's code and part number and not upon the name of the item. Take the following steps to delete duplications and to establish a single item name for each different item concept.

(a) An activity may select one of the names, or develop a more descriptive name.

(b) By mutual agreement, two or more Government activities may select one name which represents an item in each of their supply systems.

e. Colloquial Names. (See 3.2.2d) You may submit alternate or common usage names as well as cancelled AINs as colloquial names. Colloquial name structure may or may not follow format guidelines for Approved Item Names. Form these in the manner best designed to assist in AIN selection. Usually colloquial names do not reflect the inverted sequence of the referenced AIN.

(1) You may submit colloquial Names as part of an Item Identification (II) by using MRC CLQL (administrative MRC covered in General Information of the FIIG) or the formalized DD Form 180. (See Appendix 3-2-B).

(a) No II colloquial submittal is automatically entered in the FLIS data base. DLSC validates the submittal manually prior to entering it into the Cataloging Handbook H6.

(b) DLSC will forward approved colloquial submittals to the submitting activity with the effective date. Return disapproved colloquial submittals

to the submitting activity with justification comments.

(2) DLSC publishes Colloquial Names submitted and approved in the Alphabetic Index of Names, Section A, Cataloging Handbook H6, of the Federal Item Name Directory for Supply Cataloging, in lower-case letters and reference them to at least one Approved Item Name. DLSC does not index them directly to a Federal Item Identification Guide nor duplicate existing entries, such as AINs, a basic name or another colloquial.

Acceptable

baker's cap

See CAP, FOOD
HANDLER'S

Nonacceptable

CAP, FOOD HAN-
DLER'S

See FIIG A217A

(3) Reference a colloquial name that is applicable to more than one Approved Item Name to a basic name followed by the phrase "as modified" in parentheses, or to each of the Approved Item Names listed successively, separated by semi-colons.

(4) A colloquial name shall not reference its next higher assembly i.e., a part which references its end item.

Example: indicator, polarity -- See TEST
SET SUBASSEMBLY

(5) Do not reference a colloquial name to an unrelated item of supply.

Example: circuit breaker -- See CIRCUIT
CARD ASSEMBLY

(6) A colloquial name shall not be too broad or too generalized so as to interpret it as applying to almost any AIN.

Example: meter, modified -- See WATT-
METER.

3.2.5 Item Name Submittal. Submit all proposed additions, revisions, and cancellations on the Names Transmittal Form DD Form 180, Remote Accelerated Prototype Item Identification Data Network (RAPIDENT) or Fascimile (FAX) affecting item names (see Appendix 3-2-A). Forward to DLSC, ATTN: DLSC-SCB. Proposals submitted by NATO, electronically or by telephone in accordance with Accelerated Name Assignment Procedures outlined below will include all the information required by the DD Form 180. DLSC will prepared a permanent record using the form. All proposed name actions will include a written justification which supports the request technically and procedurally.

a. Completion of the DD Form 180.

(1) DATE: Type in the current date.

(2) SUBMITTING ACTIVITY: Enter the two position Activity Code (see Volume 10, Table 104).

(3) FIIG: enter the Federal Item Identification Guide number applicable to the proposed name action. (e.g., A217A, A022B, or T093-A). List only one FIIG for each DD Form 180.

(4) NAME AND DELIMITATIONS: enter the name(s), delimitations, colloquials, and any FIIG requirements incorporated in or affected by the proposal following the format outlined below. Include the name, office symbol and telephone number of the submitter. Include the justification in this portion of the DD Form 180.

(a) List names in alphabetic sequence followed by any applicable colloquial names. (See 3.2.4e)

(b) Align names two typed spaces from the left imprinted margin. Align delimitations in box

form seven typed spaces from the left imprinted margin.

(c) Double line-spacing will separate all names. Use single line-spacing between a name and its delimitation and within the body of the delimitation.

(d) Capitalization shall follow procedures explained in section 3.2.4 above to distinguish between Basic Names, Approved Item Names, and Colloquial Names.

(e) Label individual name actions within each proposal "ADD;," "REVISE DEFINITION;," "CANCEL;," "REPLACED BY;," or other notation to identify the action. (See Appendix 3-2-C thru 3-2-I.)

(f) Organize proposals that include both add and cancel actions so that all cancellations follow the additions.

(5) **APPLICABILITY KEY:** Enter the letter(s) indicating the FIIG Applicability Key on the same line as the name to which it applies. Utilize Applicability Key "A" for all name requests pertaining to FIIG A238 and FIIG A239. For new concept FIIGs enter N/A (not applicable).

(6) **FSC NUMBER:** Enter the four-digit Federal Supply Class on the same line as the name for which it is recommended. Beneath this number enter in parentheses the appropriate Condition Code. List specified FSCs for Condition Code 2 with an FSC Modifier (in lower case) on the same line. List all modifiers for Condition Code 2 FSCs regardless of action. List the FSCs in numeric order, (See Appendix 3-4-A thru B.)

(7) **TAILORED CHARACTERISTICS:** The five DLA Centers participating in the Tailored Characteristics program, DCSC, DESC, DGSC, DISC

AND DPSC (Medical), must include the MRCs, in desired output order, for inclusion into the Tailored Characteristics Table. When no output required, enter "No Tailored Data Required."

(8) **Page Notation.** Use additional copies of the DD Form 180 as continuation forms when required to complete the listing of all name proposals applicable to a FIIG. Number all forms (e.g., PAGE 1 OF 5 PAGES) at the bottom of the form.

b. **Accelerated Name Assignment Procedure (ANAP).** This procedure is for NATO USE ONLY and developed to expedite the assignment of new Approved Item Names to facilitate NSN assignment. DLSC will coordinate names processed via ANAP with the FIIG Initiator and FSC Manager. (Drugs, medical, and subsistence items are exempt from ANAP.)

(1) **Processing Criteria.**

(a) The proposal must be a request for a new item name.

(b) The proposed name must use an existing FIIG Applicability Key.

(c) The proposal must not require change of the FIIG document, other than addition of the name itself (e.g., no new MRCs or reply codes).

(d) A delimitation must be included in accordance with paragraph 3.2.4.b.

(2) **Methods for Transmittal.** All proposals must include the information required for completion of the DD Form 180 outlined in 3.2.5.a. above plus the CAGE Code (DRN 9250) and Logistics Reference Number (DRN 3570).

(a) DLSC will process proposals forwarded to DLSC-SCB via mail that meet the criteria for ANAP within eight working days from receipt of request to

the response to the submitter. Format is the same as described in 3.2.5.a.

(b) Telephone submittals should use AUTOVON 932-4325, FTS 552-4325, or commercial Area Code (616) 961-4325.

(c) Address Electronically Transmitted Messages (ETM) to DLSC, Battle Creek, MI., ATTN: DLSC-SCB.

(d) Address FAX messages to DLSC-SCB, at AUTOVON 932-4352, FTS 552-4352, or commercial Area Code (616) 961-4352.

c. 5-Day Name Assignment. Established for U. S. Activities using FIIGs A238 or A239 only.

(1) Processing Criteria.

(a) The proposal must be a request for a new item name.

(b) Originator must coordinate, resolve differences and document all actions prior to submission to DLSC. The submittal must show, on the proposal, the FIIG Initiator, FSC Manager and phone number and name of person concurring, if different than submitting activity.

(c) The proposal must be a request within an existing FSC.

(d) The proposal must not require change of the FIIG document, other than addition of the name itself (e.g., no new MRCs or reply codes).

(2) Methods for Transmittal. All proposals must include the information required for completion of the DD Form 180 outlined in 3.2.5.a. above. Must come in on RAPIDENT or FAX at AUTOVON 932-4352. FTS 552-4352, or commercial Area Code (616) 961-4352.

3.2.6 Item Name Coordination.

a. Submitting activities will coordinate new names with FSC Manager(s) and FIIG Initiator prior to submittal to DLSC. Upon receipt of the new name proposal, DLSC will review the submittal for compliance with procedures, format, and possible duplication and assign the Item Name Code (INC). When required, DLSC will coordinate the revised name proposal with those services, agencies, and users affected by the change(s) to solicit concurrence or nonconcurrence and comments.

(1) Normally a proposed action to a revised name having more than (15) fifteen users shall require a C/C Distribution letter to notify all activities participating in the Federal Catalog System. We require a response within a 30-day timeframe.

(2) Normally when fifteen (15) or fewer activities have an interest in a revised name proposal, DLSC will coordinate the action with only those activities. We require a Response to a coordination letter, normally within 30 days.

(3) DLSC will coordinate proposals concerning drugs and medical items with at least the Defense Personnel Support Center (DPSC) and the Veterans Administration (VA) and coordinate proposals concerning subsistence items with at least the VA, DPSC and the United States Department of Agriculture (USDA).

(4) DLSC will coordinate name proposals with NATO and other countries when a restriction occurs. We require a response within a 45-day timeframe (e.g., going from a Condition Code 2 to a Condition Code 1).

b. DLSC processes Item Names within a 5-180 day timeframe which may include collaboration/coordination reconciliation, edit update, system changes and publications.

3.2.7 Item Name Approval/Disapproval. The approval of a proposed name action depends upon acceptance by DLSC and the results of any coordination effort. DLSC views justifiable nonconcurrency on a proposal as a reason for disapproval.

a. Item Name Code (INC) Assignment.

(1) Upon approval, DLSC assigns Item Names a five-position numeric Item Name Code (INC).

(2) DLSC references these INCs by numeric code to the AIN, FIIG, and FSC(s) in the Numeric Index of Item Names, Section B of the Federal Item Name Directory (Cataloging Handbook H6).

b. Notification of Approval/Disapproval. DLSC will forward approved proposals for the addition of a new item name to the submitter with the INC and its effective date and return disapproved proposals to the submitter with justification comments. If unable to resolve the nonconcurrency, DLSC forwards the complete package to HQ DLA for resolution.

c. DLSC designates names for use only by NATO/foreign countries as "All Except USA", enclosed within parentheses, as the first part of the name definition.

d. For U. S. Activities: Names that are no longer required for U. S. use may either contain a CANCEL/REPLACE action with the cancelled name becoming "All Except USA" (AEUSA) or just making the CANCELLED name AEUSA.

e. Publications.

DLSC updates the FLIS files used to support publication of name related data as required to incorporate approved name actions. Documents affected by name changes include:

(1) Federal Item Name Directory (FIND) for Supply Cataloging, Handbook H6-A and H6-B.

(2) Federal Supply Classification, Handbook H2-1 and H2-2.

(3) H2/H6 Advance Notice (used to present cumulative changes to the above handbooks between printings).

(4) Federal Item Identification Guides.

APPENDIX 3-2-A
SAMPLE OF ITEM NAME SUBMITTAL FORM

PART "A"		ITEM NAME COLLABORATION ACTION REQUEST		
DATE	REFERENCE	FIIG/IIG		
Item Names, Basic Names, Definitions, Index Entries and Justification		INC	Appl Key	NCS'
<p>Above proposed cataloging action will/will not require changes to existing item characteristic data of FIIGs as indicated.</p>				
<p>NATO Form AC/135 No. 28A</p>		<p>Page 1 of 1</p>		

DD Form 180, May 85 (Computer Reproduced)

APPENDIX 3-2-B
SAMPLE OF COLLOQUIAL NAME

PART "A"		ITEM NAME COLLABORATION ACTION REQUEST		
DATE 10 Feb 92	REFERENCE XX (Activity Code)	FIIG/IIG		
Item Names, Basic Names, Definitions, Index Entries and Justification		INC	Appl Key	NCS
<p><u>ADD COLLOQUIAL NAMES:</u></p> <p>chain link fencing see FENCING, WIRE</p> <p>chain scale see SCALE, DRAFTING; SCALE, PLOTTING</p> <p>headless slotted set screws see SETSCREW</p> <p>jack bit grinder see GRINDING MACHINE, ROCK BIT</p> <p><u>JUSTIFICATION:</u></p> <p>Addition of the above colloquial names with cross-reference will assist FLIS users find the correct item names.</p> <p>P. O .C. <u>NAME OF SUBMITTER AND PHONE #</u></p> <p>Above proposed cataloging action will/will not require changes to existing item characteristic data of FIIGs as indicated.</p>				
NATO Form AC/135 No. 28A		Page 1 of 1		

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**APPENDIX 3-2-B
SAMPLE OF COLLOQUIAL NAME**

PART "A"		ITEM NAME COLLABORATION ACTION REQUEST		
DATE	REFERENCE	FIIG/IIG		
12 Feb 92	XX (Activity code)	INC	Appl Key	NCS'
Item Names, Basic Names, Definitions, Index Entries and Justification				
<p><u>REVISE COLLOQUIAL NAME:</u></p> <p>needle valve see VALVE, GLOBE; VALVE, ANGLE; STEM, NEEDLE VALVE</p>				
<p><u>JUSTIFICATION:</u></p> <p>To correct error in spelling of name and add Approved Item Name to colloquial.</p>				
<p><u>P. O. C. NAME OF SUBMITTER AND PHONE #</u></p> <p>Above proposed cataloging action will/will not require changes to existing item characteristic data of FIIGs as indicated.</p>				
<p>NATO Form AC/135 No. 28A</p>		<p>Page 1 of 1</p>		

APPENDIX 3-2-B
SAMPLE OF COLLOQUIAL NAME

PART "A"		ITEM NAME COLLABORATION ACTION REQUEST		
DATE	REFERENCE	FIIG/IIG		
12 Feb 92	XX (Activity Code)	INC	Appl Key	NCS
Item Names, Basic Names, Definitions, Index Entries and Justification				
<p><u>DELETE COLLOQUIAL NAME:</u></p> <p>bands, copper see BAND SET, COPPER, DENTAL</p>				
<p><u>JUSTIFICATION:</u></p> <p>Approved Item Name BAND SET, COPPER, DENTAL is canceled and therefore no need for colloquial.</p>				
<p><u>P. O. C. NAME OF SUBMITTER AND PHONE #</u></p>				
<p>Above proposed cataloging action will/will not require changes to existing item characteristic data of FIIGs as indicated.</p>				
<p>NATO Form AC/135 No. 28A</p>		<p>Page 1 of 1</p>		

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APPENDIX 3-2-C
SAMPLE OF NEW ITEM NAME

PART "A"		ITEM NAME COLLABORATION ACTION REQUEST		
DATE 12 Feb 92	REFERENCE XX (Activity Code)	FIIG/IIG A10400		
Item Names, Basic Names, Definitions, Index Entries and Justification		INC	Appl Key	NCS'
<p><u>ADD:</u></p> <p>SPARK PLUG</p> <p>An item containing two or more electrodes across which an electric spark is discharged to ignite a fuel and air mixture, primarily in internal combustion engines. Excludes GLOW PLUG; and ELECTRODE.</p> <p>engine, aircraft</p> <p>engine, except aircraft</p> <p><u>JUSTIFICATION:</u></p> <p>At present, there is no equivalent item name available in the H-6.</p> <p>P. O. C. <u>NAME OF SUBMITTER AND PHONE #</u></p> <p>Above proposed cataloging action will/will not require changes to existing item characteristic data of FIIGs as indicated.</p>			AB	2925 (2) 2920 (2)
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APPENDIX 3-2-D
SAMPLE OF REVISION OF DEFINITION

PART "A"		ITEM NAME COLLABORATION ACTION REQUEST		
DATE 13 Feb 92	REFERENCE XX (Activity Code)	FIIG/IIG A104		
Item Names, Basic Names, Definitions, Index Entries		INC	Appl Key	NCS?
and Justification				
<p><u>REVISE DEFINITION:</u></p> <p>FLOAT, VALVE</p> <p>A floatation device used to actuate an inlet or outlet valve. It may be airtight and hollow, or of solid construction. Excludes floats designed for carburetors.</p> <p><u>JUSTIFICATION:</u></p> <p>Modern technology and research developments has resulted in new ways and products to define FLOAT VALVES. The proposed revised definition would allow cataloguing of new products under the present AIN.</p> <p>P. O. C. <u>SUBMITTER NAME AND PHONE #</u></p> <p>Above proposed cataloging action will/will not require changes to existing item characteristic data of FIIGs as indicated.</p>		06693	AN	4820 (1)
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APPENDIX 3-2-E
SAMPLE OF "ALL Except USA" DELETION

PART "A"		ITEM NAME COLLABORATION ACTION REQUEST		
DATE 14 Feb 92	REFERENCE XX (Activity Code)	FIIG/IIG A241		
Item Names, Basic Names, Definitions, Index Entries and Justification		INC	Appl Key	NCS
<p><u>REVISE (REMOVE "All Except USA"):</u></p> <p>BAND, SERVICE CAP:</p> <p>A ribbon, usually black in color, which may show inscriptions. It is primarily worn by the Navy, but may also be worn by other personnel. Excludes: BAND HELMET, CAMOUFLAGE.</p> <p><u>JUSTIFICATION:</u></p> <p>It has been found that a need now exists in this country to now use the above name. There is now a need to stock list the above name, so please remove the AEUSA.</p> <p><u>P. O. C. SUBMITTER AND PHONE #</u></p> <p>Above proposed cataloging action will/will not require changes to existing item characteristic data of FIIGs as indicated.</p>		32997	AT	8315 (1)
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APPENDIX 3-2-F
SAMPLE OF CANCELLATION WITHOUT REPLACEMENT

PART "A"		ITEM NAME COLLABORATION ACTION REQUEST		
DATE 14 Feb 92	REFERENCE XX (Activity Code)	FIIG/IIG T139-B		
Item Names, Basic Names, Definitions, Index Entries and Justification		INC	Appl Key	NCS
<p><u>CANCEL:</u></p> <p>DUMMY BATTERY ASSEMBLY</p> <p>An item designed to occupy the space of a BATTERY ASSEMBLY. It does not have electrical characteristics.</p> <p>(Canceled Not Replaced)</p> <p><u>JUSTIFICATION:</u></p> <p>This item in no longer required. There is no pop count against this item and with no users there is no reason to keep this item in the system to overload the H6.</p> <p><u>P. O. C. NAME OF SUBMITTER AND PHONE #</u></p> <p>Above proposed cataloging action will/will not require changes to existing item characteristic data of FIIGs as indicated.</p>		60426	BC	6135 (1)
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APPENDIX 3-2-G
SAMPLE OF CANCEL/REPLACE

PART "A"		ITEM NAME COLLABORATION ACTION REQUEST		
DATE 19 Feb 92	REFERENCE XX (Activity Code)	FIIG/IIG T324-H		
Item Names, Basic Names, Definitions, Index Entries and Justification		INC	Appl Key	NCS*
<p><u>CANCEL/REPLACE:</u></p> <p>TANK, LIQUID STORAGE, METAL</p> <p>(Replaced by TANK, LIQUID STORAGE INC-----)</p> <p><u>REPLACED BY:</u></p> <p>TANK, LIQUID STORAGE</p> <p>A receptacle or structure of sturdy construction and of various shapes, the top of which may be open or closed, used for storage of bulk liquids such as gasoline, oil or water. The tank may be equipped with pipe fittings. Excludes tanks fabricated for use as an integral part of another system and trailer or truck mounted tanks designed for transporting liquids. See also, TANK, ASPHALT STORAGE and TANK, HOT WATER STORAGE. (Replaces TANK, LIQUID STORAGE, METAL)</p> <p><u>JUSTIFICATION:</u></p> <p>The name being canceled is too restrictive and both names are synonymous in construction and application, therefore; two item names are not required to identify one item of supply.</p> <p><u>P. O. C. NAME OF SUBMITTER AND PHONE #</u> Above proposed cataloging action will/will not require changes to existing item characteristic data of FIIGs as indicated.</p>		08627	HA	5430 (1)
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APPENDIX 3-2-H
SAMPLE OF FIIG TRANSFER

PART "A"		ITEM NAME COLLABORATION ACTION REQUEST		
DATE 21 Feb 92	REFERENCE XX (Activity Code)	FIIG/IIG A239		
Item Names, Basic Names, Definitions, Index Entries and Justification		INC	Appl Key	NCS
<p><u>DELETE FROM FIIG A239:</u></p> <p>FREQUENCY REGULATOR SUBASSEMBLY</p> <p>Two or more different types of items having a common mounting or mounted on each other which together form a portion of a REGULATOR, FREQUENCY, but which in itself is not a complete functioning item and cannot be assigned a more definite item name.</p> <p>(Transfer from FIIG A239 to FIIG T012)</p> <p><u>JUSTIFICATION:</u></p> <p>Recommend transferring approved item name listed above from FIIG A239 (Miscellaneous Items) to FIIG T012 (Subassemblies). This change will allow full item descriptions to be attained as only partial descriptions can be obtained with FIIG A239.</p> <p><u>P. O. C. NAME OF SUBMITTER AND PHONE #</u></p> <p>Above proposed cataloging action will/will not require changes to existing item characteristic data of FIIGs as indicated.</p>		60509	C	6110 (1)
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**APPENDIX 3-2-H
SAMPLE OF FIIG TRANSFER**

PART "A"		ITEM NAME COLLABORATION ACTION REQUEST		
DATE 21 Feb 92	REFERENCE XX (Activity Code)	FIIG/IIG T012-B		
Item Names, Basic Names, Definitions, Index Entries and Justification		INC	Appl Key	NCS
<p><u>ADD:</u></p> <p>FREQUENCY REGULATOR SUBASSEMBLY</p> <p>Two or more different types of items having a common mounting or mounted on each other which together form a portion of a REGULATOR, FREQUENCY, but which in itself is not a complete functioning item and cannot be assigned a more definite item name.</p> <p>(Transfer from FIIG A239 to FIIG T012-B)</p> <p><u>JUSTIFICATION:</u></p> <p>Recommend transferring approved item name listed above from A239 (Miscellaneous Items) to FIIG T012-B (Subassemblies). This change will allow full item descriptions to be attained as only partial descriptions can be obtained with A239.</p> <p><u>P. O. C. NAME OF SUBMITTER AND PHONE #</u></p> <p>Above proposed cataloging action will/will not require changes to existing item characteristic data of FIIGs as indicated.</p>		60509	B	6110 (1)
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APPENDIX 3-2-I
SAMPLE OF "ALL Except USA" ADDITION

PART "A"		ITEM NAME COLLABORATION ACTION REQUEST		
DATE 21 Feb 92	REFERENCE XX (Activity Code)	FIIG/IIG A239		
Item Names, Basic Names, Definitions, Index Entries and Justification		INC	Appl Key	NCS
<p><u>REVISE: (to "ALL EXCEPT USA")</u></p> <p>PHOTOELECTRIC CELL</p> <p>(All except USA) For USA use INC 00101 Canceled Replaced by SEMICONDUCTOR DEVICE, PHOTO; INC 20587, FIIG A110A, App Key C. An item which when activated by light energy changes its electrical properties correspondingly in a way that can be used for generation of electrical signals.</p> <p><u>JUSTIFICATION:</u></p> <p>Both AINs are synonymous in construction and application.</p> <p><u>P.O.C. NAME OF SUBMITTER AND PHONE #</u></p> <p>Above proposed cataloging action will/will not require changes to existing item characteristic data of FIIGs as indicated.</p>		00101		5980 (1)
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APPENDIX 3-2-I
SAMPLE OF "ALL Except USA" ADDITION

PART "A"		ITEM NAME COLLABORATION ACTION REQUEST		
DATE 21 Feb 92	REFERENCE XX (Activity Code)	FIIG/IIG T327-A		
Item Names, Basic Names, Definitions, Index Entries and Justification		INC	Appl Key	NCS'
<p><u>CANCEL:</u></p> <p>PHOTOELECTRIC CELL</p> <p>(Replaced by SEMICONDUCTOR DEVICE, PHOTO; INC 20587; FIIG A110A)</p> <p><u>JUSTIFICATION:</u></p> <p>A PHOTOELECTRIC CELL and a SEMICONDUCTOR DEVICE, PHOTO are synonymous in construction and application, therefore; two item names are not required to identify one item of supply.</p> <p><u>P. O. C. NAME OF SUBMITTER AND PHONE #</u></p> <p>Above proposed cataloging action will/will not require changes to existing item characteristic data of FIIGs as indicated.</p>		00101	AA	5980 (1)
NATO Form AC/135 No. 28A		Page 2 of 2		

CHAPTER 3 FEDERAL ITEM IDENTIFICATION GUIDES

3.3.1 Federal Item Identification Guide (FIIG).

A FIIG provides standard requirements, formats, and guidance necessary to establish adequate characteristics and supply management data for items of supply. DLSC assigns FIIGs to different commodity areas and groups similar items together to facilitate identification and management purposes. Use the Military Standard Item Characteristics Code Structure (MILSTICCS) in these guides to gather machine-oriented item logistics data. This chapter shall provide procedural guidance for the development, coordination, and maintenance of Federal Item Identification Guides. Format rules and the data collection concepts presented shall form the basis of a systematic, uniform program for item identification. See Appendix 3-3-A to this chapter for samples of FIIG information and to illustrate the format described below.

3.3.2 Types of FIIGs. There are three types of FIIG documents.

a. **Basic FIIG.** A comprehensive document used to govern the collection of physical and performance characteristics (and characteristics data to support other logistics functions) for each descriptive item entered into the FLIS data base. It contains one or more Approved Item Name(s) (AINs) in one or more Applicability Key(s) (group of applicable requirements). Identify a basic FIIG by the prefix "A" or "T".

b. **Miscellaneous FIIG (FIIG A239).** A general purpose document providing a means for describing items not contained in a specific basic FIIG because of a low population, new commodity areas, or not having an Approved Item Name.

c. **New Concept FIIG.** A basic FIIG that contains one or more AIN(s) but all requirements apply equally to each AIN (no Applicability Keys). These are identified by the prefix "A500..." and above.

3.3.3 FIIG Maintenance Requirements. There are two categories for the maintenance action for FIIGs as follows:

a. **Administrative Maintenance.**

(1) Discovery of typographical errors or omissions in the printed copy of a FIIG.

(2) Necessary expansion or reduction of reply code field in reply tables.

(3) Change of Master Requirement Code (MRC) for processing purposes and no changes to the technical content of the requirement.

(4) Clarification or addition of instructional notes to establish and/or protect the integrity of data input into the FLIS data base where such actions do not affect the technical content of the data or the FIIG.

(5) Addition of mandatory all inclusive requirements (e.g., MRC ELRN).

b. **Technical Maintenance.** Technical revision to a FIIG following these conditions:

(1) Inadequate logistics functions for the existing FIIG (e.g., addition of AND/OR coding).

(2) Deletion of item names.

(3) Addition of new AINs which fit an existing Applicability Key without change.

(4) Mass addition of requirements to a group of FIIGs.

(5) Add/delete MRCs. Give careful consideration to the impact of changes to the item name. DLSC will only accept changes to an existing Applicability Key(s) that goes from "as required" (ALL* or AB*) to "mandatory" (ALL or AB).

(6) Add reference drawings.

(7) Add an item name which fits the homogeneous grouping in the FIIG (e. g., New Concept FIIG).

3.3.4 FIIG Maintenance Methods. FIIG maintenance actions follow these methods:

a. DLSC Distribution C/G letter: For maintenance actions of an operational immediate nature, incorporate these letters in DoD 4100.39-M, Volume 3, within one year after issuance and cancel the C/G letter.

b. FIIG Page Changes: Issue page changes to published FIIGs to formally incorporate changes into the FIIG. This may or may not affect the technical content of the FLIS data base. The Page Change Number and the effective date will appear on each page; a Cover Sheet will list page numbers affected. U. S. activities will coordinate all proposals with FIIG Initiator who, in turn, will submit proposal to DLSC.

c. Reprint: Whenever a proposed page change affects 70% of the pages of a published FIIG or after 4 Page Changes, process the data as a Reprint rather than a FIIG Page Change. A reprinted FIIG will contain all outstanding page change data. Assign a new effective date and clearly mark the FIIG Cover with "REPRINT". Identification of page changes are on the cover.

d. FIIG Changes for NATO/Foreign Countries. Forward all internationally collaborated changes to DLSC for coordination with U.S. activities. Enter the changes requested by NATO/ Foreign countries, which are applicable to "All Except USA" into the FIIG and identify with a crosshatch (#). Add changes, which are applicable to U.S. items of supply, to the FIIG in accordance with Paragraph 3.3.3.b. DLSC will review the proposals and com-

ments from NATO/Foreign countries and forward them within 5 working days to the FIIG initiator.

e. Coordinated IIGs. FIIGs that contain both U.S. and NATO/Foreign country coordinated requirements are to be identified as "COORDINATED IIGS" on the cover of the FIIG.

f. New Concept FIIGs. (U.S. Activities)

(1) The intent is to add no new AINs to FIIG A239. There are some differing opinions concerning repairable items retained for management by the military services. Until resolution, there is a requirement to utilize FIIG A239. The Defense Logistics Agency (DLA) Centers will not add new AINs to FIIG A239. Other agencies and services should develop New Concept FIIGs whenever possible in lieu of FIIG A239 use.

(2) The DLA Defense Supply Centers (DSCs) will coordinate with technical and engineering functional areas and any others deemed essential prior to submittal to DLSC. The purpose of this coordination is to insure support to these areas. Give consideration to the identification of these requirements/ characteristics needed for the automated Procurement Item Description (PID), Procurement Description (PD), Acquisition Item Description (AID), etc. The automated PID is a function included in the enhancement to Cataloging Tools On Line (CTOL).

(3) Submit NATO proposals to DLSC. DLSC will forward to appropriate Integrated Materiel Manager (IMM). NATO will also forward requests for AINs, which fit an existing Applicability Key in an existing FIIG, to DLSC.

(4) Forward other Services and Agencies (S/A's) proposals to DLSC for processing. Coordinate as determined appropriate by the S/A before submittal. If FSC managed by an other activity, submit them to the IMM responsible for the pro-

posed FSC. Coordinate with the FSC Manager of FIIGs developed/proposed by other than IMM for the FSC. Forward proper documentation reflecting this coordination to DLSC concurrent with the preparer's request for FIIG publication. For incorrect FSC management, the receiving IMM is responsible for forwarding to the appropriate IMM with notification to the originator. When an originator cannot determine the responsible IMM, send the proposal to DLSC-SC so stating. Identify IMM in Appendix 3-3-D or DoD 4100.39-M, Volume 13, Chapter 2, Appendix 13-2-A, Standard FSC Table.

(5) Until implementation of a bulletin board to provide visibility of name development, the following will apply:

(a) Each developing activity will notify all other activities of their names scheduled for development of New Concept FIIGs.

(b) The list will include the name/definition, FSC, proposed date of development, and name/number of point of contact.

(c) Forward the list to the appropriate initiators found in Appendix 3-3-D. All responses to the initiator will receive the same distribution.

(d) DLSC will advise NATO/Foreign countries.

(6) Naming Authority. The naming authority will remain at DLSC for control purposes. In those cases where conflicts arise concerning technical content, the initiating activity (IMM FSC Manager) having commodity expertise will be responsible for the technical content of the item name and/or definition. For unresolved conflicts between the DSC and S/As, refer the item name to DLSC for reconciliation.

(7) Transfer of Names. The IMM may decide

which item names to transfer to the applicable New Concept FIIG. "All Except USA" item names will be identified with a crosshatch (#) in the Index of Approved Item Names. Once DLSC establishes a New Concept FIIG it is the IMM's responsibility to consider all future name transfer requests to or from the New Concept FIIG. DLSC will monitor these transfers to insure that sufficient justification warrants the action. DLSC will determine if it is necessary to coordinate with the user(s).

g. New Concept FIIGs. (NATO/Friendly foreign countries)

(1) Submit requests for a new INC and a New Concept FIIG to DLSC with all supporting technical documentation.

(2) DLSC will send the FIIG to the appropriate IMM for review. The IMM approves or disapproves the FIIG for U.S. use, annotates changes, and returns the FIIG to DLSC for processing. If disapproved, DLSC will return the FIIG to the appropriate NATO country with comments submitted from the IMM.

(3) DLSC will process FIIGs approved for U.S. use like all other FIIGs.

(4) DLSC will publish FIIGs not adopted for U.S. use but not include in the U.S. mechanized system. MRCs assigned are visible in the MRD. DLSC will include the INC in the H2/H6 publications as "All Except USA" (AEUSA).

(5) The IMM determines characteristics requirements for the U.S. DLSC will continue to support NATO/Friendly foreign country requirements. FIIG requirements developed by NATO/Foreign countries become AEUSA if not adopted by the U.S. DLSC will resolve duplicate requirements and incorrect FIIGs.

(6) DLSC will process reports of FIIG deficiencies and requests for changes to New Concept FIIGs same as those for any other FIIGs. NATO/Foreign countries will send them to DLSC.

(7) The U.S. will not initiate a New Concept FIIG for AEUSA names. DLSC will publish country-requested FIIGs for AEUSA names when there is no U.S. interest. The U.S. mechanized system will not allow processing of items covered by the AEUSA name. If there is duplication or overlap of existing names, DLSC will return with recommendations. Resubmit with justification for reconsideration.

(8) There will be no conversion of New Concept FIIG numbers to INCs. The assigned numbers are permanent.

(9) DLSC will not reject NATO/Foreign country requests for assignment of AEUSA names to FIIG A239. DLSC may however, recommend another existing FIIG in lieu of FIIG A239, when appropriate.

(10) The responsible IMM will consider requested addition of AEUSA names to the New Concept FIIG when appropriate. See 3.3.4f.(7).

h. Formatting

(1) General Format Instructions.

(a) Prepare data on 8 1/2x11 inch plain computer paper.

(b) Use plain typing in all FIIG preparation. Use bold and italic for new and revised information.

(c) A capitalized title (including FIIG number) will appear centered, at the top of each page of section, appendix, and index of the FIIG.

(d) Number the FIIG pages sequentially. The

General Information Section will start with Arabic numeral one, except for New Concept FIIGs which contain no General Information Section. In Appendix B, DLSC will assign reference drawing numbers which will appear on even numbered point pages (e.g., MRCs on page 108 and the drawings on pages 108.1, 108.2, and the like).

(e) Underline columnar titles.

(2) Cover Page. The FIIG cover will display the following information:

(a) An identifying FIIG number and publishing date shall appear in the upper-right corner.

(b) DLSC will assign only New Concept FIIGs which begin with A500.

(c) Title the document: "FEDERAL ITEM IDENTIFICATION GUIDE," centered, beneath which will appear the title of the commodity area it represents. For New Concept FIIGs, the INC may also appear.

(d) Note the name and address of DLSC as the activity responsible for publication. The New Concept FIIGs will also contain the name, address, and telephone number of the IMM.

(3) General Information. This section of the FIIG introduces and describes the contents. For New Concept FIIGs, see Appendix 3-3-B and 3-3-C. It also provides general and special instructions and technical changes as required. DLSC is responsible for developing the standard General Information section. The responsible activity may add pertinent information.

(a) Format Instructions:

(1) Number paragraphs and separate by two line spaces.

(2) Paragraph titles will be concise and underlined. Capitalize the first letter of each major word.

(3) Indent subparagraphs and number or letter in accordance with general letter format.

(b) Structure. The Standard General Information section will describe the following topics in sequence:

Purpose and Scope

Contents (Lists contents of FIIG)

Index of Approved Item Names (New Concept FIIGs do not contain this unless FIIG contains more than one Item Name.)

Applicability Key Index (New Concept FIIGs do not contain this)

Section I - Item Characteristics Data Requirements

Appendix A - Reply Tables (as applicable for New Concept FIIGs)

Appendix B - Reference Drawings (as applicable)

Appendix C - Technical Data Tables (as applicable)

Administrative Data - Provides instructions for input of Administrative MRC CLQL (see Appendix 3-3-C for New Concept FIIGs)

Special Instructions - Provides special instructions such as input for measurements (see Appendix 3-3-C for New Concept FIIGs)

Special Notes - Contains any special notes pertinent to FIIG

Maintenance - Identifies preparing activity and instructions for requesting changes (New Concept FIIGs do not contain this)

(4) Index of Data Requirements. The FIIG initiating activity prepares this index. Arranged in alphabetic sequence by MRC, cross referenced to the applicable data requirements code and page number. New Concept FIIGs do not contain this information.

(5) Index of Approved Item Names (AINs). This index provides the user with the item names, their definitions, INCs, and Applicability Keys covered by the FIIG. Do not referenced any AIN to more than one FIIG. New Concept FIIGs may contain this index if more than one name applies.

(a) Content. The index will contain the AINs with definitions and INCs as they appear in the Federal Item Name Directory for Supply Cataloging, Cataloging Handbook H6, which is applicable to the FIIG. Each item name will have an Applicability Key recorded to indicate the applicability of each requirement to that item name. Assign same Applicability Key to AINs referencing the same requirements MRCs. New Concept FIIGs do not contain an Applicability Key.

(b) Format. Display information in a columnar fashion.

(1) The first column, titled "Approved Item Name," will list the AINs with their definitions in alphabetic sequence.

(2) The second column, titled "INC" will list the five-position INC matched to each AIN entry.

(3) The third column, titled "App Key," will list the alphabetic Applicability Key for each AIN. New Concept FIIGs will not contain the App Key column.

(6) Applicability Key Index. This index provides the user with a reference table with MRC requirements for each Applicability Key. New Concept FIIGs do not contain this index.

(a) Content. The index will include all MRCs, the page numbers on which they appear, all Applicability Keys, and notations indicating "required" or "as required" conditions.

(b) Format. Arrange the index in columns.

(1) The first column, titled "MRC" will list all MRCs in the same order as they appear in the FIIG.

(2) The second column, titled "Page No.," will identify the page on which each MRC appears.

(3) The third column, titled "Applicability Key," will list every Applicability Key. These will list designators for each MRC.

(a) "X" indicates that the MRC is mandatory.

(b) "AR" indicates that the MRC is optional, dependent upon another MRC, or is dependent upon a note.

(c) A blank space indicates that the MRC does not apply to the specified Applicability Key.

(7) Section I - Item Characteristics Data Requirements. Section I is the main body of the FIIG. By answering requirements in this section, the user builds a formatted, machineable description for an item of supply. Use the required information accumulated in this description to differentiate items for NSN assignment for other logistic functions. The development of requirements shall conform to procedures given in the MILSTICCS Procedures Manual, DLAM 4140.6, Aug 1970.

(a) Content. Section I contains requirement statements and definitions with appropriate instructions and replies needed to properly identify items within the commodity area of the FIIG.

(1) Requirements. Establish a requirement in such a manner that resulting replies will be

brief, fully describe the physical and performance characteristics defined, and are not subject to arbitrary interpretation. It consists of a Master Requirement Code (MRC), a title, and a definition. Provide reply instructions to mandate the format for answers to the requirement. New Concept FIIGs must use only reply table MA01 for material MRCs and SF01 for surface treatment MRCs. Do not use MRCs in the MRD which have "/D/" recorded. The mechanized system does not allow these MRCs.

(a) Single Characteristic per Requirement. Each requirement shall reflect only one characteristic. For example, key actual size to tolerance range to provide "size" which is the characteristic stated as the FIIG requirement. A requirement such as Quantity and Size of Mounting Holes, however, is not acceptable. These involve two characteristics and two variables. Code as one reply a requirement for two variables to describe a single characteristic. For example, express the characteristics electrical resistance by selection of the reply code for megohms followed by the variable value. Express an electrical resistance value of 1,000,000 ohms as M1.0 in which "M" represents megohms and "1.0" represents the value of megohms.

(b) Single Requirement for Characteristics. Do not include the same characteristics or variables in more than one requirement. This does not preclude use of the characteristic or variable in more than one table referring to different requirements. For example, "size" may be the key element in various dimensional tables in Appendices, though as a specific requirement in Section I it can appear only once. A requirement must not appear more than once, even if expressed in a different fashion.

(c) Do not include requirements estimated to be applicable to less than one percent of total item coverage (or 100 items, whichever is smaller). Considered these for a reply using a features MRC

(FEAT or CBBL, as applicable): MRC CBBL is preferred.

(d) The requirement name should be short and concise, immediately identifying and describing the characteristic of the item. The following guidelines shall apply to development of requirement names.

(1.) The requirement name shall not contain punctuation marks.

(2.) Singular word forms are preferred over plural word forms.

(3.) Do not use words such as "designator", "indicator", "symbol", or "code", unless required by technical content.

(4.) Use existing requirement statements in the Master Requirements Directory (MRD), however, if they are not consistent with these guidelines, consider the intent of the MRD statement and use as a model for a new requirement statement that does comply with these guidelines under a new MRC.

(5.) The FIIG or item names covered by the FIIG shall not appear in requirement names.

(6.) A specific unit of measurement may appear in the requirement name only when such measurement is never acceptable in differing form or multiple. (For example, "ARC in Degrees" may be acceptable, whereas "Length in Inches" is never acceptable.) Use Mode Code B or F when the unit of measurement appears in the requirement name.

(7.) When a newly standardized term for rating or measuring is used, the previous term in parentheses shall follow the new term, e.g., CELSIUS (centigrade); HERTZ (cycles per second). The citation shall also be made at least the first time the

new term is used in the requirement instruction.

(e) Requirement definitions shall be as general as possible but adequately enough to describe the characteristic.

(f) Reply instructions form a very important part of a requirement and shall include the following, as applicable:

(1.) Specify conversions from fractions to decimal format.

(2.) Provisions for replies to requirements in the terms as recorded on the source document, such as inches and millimeters, and state whether values are nominal or minimum and maximum.

(3.) The type of reply, including reference to location of reply tables.

(4.) Sample (typical) replies to demonstrate the structure of an expected reply. Place the typical replies in a parenthetical expression with the abbreviation "e.g.," followed by a comma introducing one or more properly structured replies. Show an asterisk (*) completing each typical reply. Examples of scalar replies shall reflect both U.S. Customary and metric scales. (e.g., ABHPJAA0.050*; ABHPJAB0.045\$\$JAC0.055*; ABHPJLA45.8*)

(5.) Reference to drawings and legend letters.

(6.) Relationships of the requirement to other requirements.

(7.) Priority of replies.

(8.) Secondary address coding instructions.

(9.) Use of symbols.

(g) Any note(s) applicable to a requirement(s) or subrequirement(s) shall be in capital letters and shall immediately precede the requirement or first subrequirement. The format will be NOTE FOR MRC(S) XXXX:, followed by the appropriate information. Insert the statement "(see note above)" directly above the MRC involved. For New Concept FIIGs, the statement "(see note above)" does not apply. The notes stand alone for each MRC in New Concept FIIGs.

(2) FIIG Requirements/Reply Structure Concept. Structure replies to requirements in either coded or clear text language or a combination of the two (as specified) in accordance with the principles of MILSTICCS.

(a) Coded Replies. Qualitative replies which can be predicted shall be included in a table from which a selection can be made readily by the user of the FIIG. The tables of replies shall be coded using the following rules:

(1.) Reply codes shall be as short as possible and still provide sufficient code lengths to cover the quantity of known replies or predicted replies in a table. In development of a MRC reply table, establish a single character as a reply code when expected reply codes are ten or fewer. When the possibility of replies exceeds ten, use two or more characters for each code.

(2.) Reply codes shall be mnemonic whenever possible. (e.g., the replies LEFT and RIGHT are always code L and R respectively.)

(3.) Reply codes will be all alphabetic or controlled alphanumeric within a given table.

(b) Scalar Replies. Requirements for di-

mensional or other scale-type replies which can be stated in terms of both U.S. and International scales shall be established and coded tables used to identify the appropriate scale, applying Mode Code J. When two or more units in a decimal scale may be cited, such as ohms, kilohms, and megohms, the reply code shall be similarly given to identify the appropriate units.

(1.) When the International System of Units (SI or metric) scale identifies the value in a reply, indicate the unit or units most appropriate to the commodity in the requirement instructions and establish in the reply table under the following codes:

- P -- pico -- (e.g., picofarad)
- U -- micro -- (e.g., microfarad)
- L -- milli -- (e.g., millimeter, milligram)
- C -- centi -- (e.g., centimeter, centiliter)
- D -- deci -- (e.g., decigram)
- Q -- the unit -- (e.g., meter, ohm, gram)
- T -- deca or deka -- (e.g., decagram, decameter)
- H -- hecto -- (e.g., hectometer, hectogram)
- K -- kilo -- (e.g., kilometer, kilogram)
- M -- mega -- (e.g., megohm, megahertz)
- G -- giga -- (e.g., gigohm, gigahertz)

(2.) Sequence the measurement scale table specified above in accordance with the requirement title when used in conjunction with a dimensional requirement. The first table in a requirement such as "type and measurement", for example, would be for types while the second table would indicate measurement scales.

(3.) Do not use fractions and/or number-type replies (e.g., 1/4, No. 10) for input unless specifically authorized by the FIIG. FIIGs developed for commodity areas where replies of this nature are applicable contain tables of acceptable replies in the appropriate section or appendix.

(c) Use of "Any Acceptable." Characterize items by the broadest tolerance acceptable, unless otherwise indicated in the FIIG. Do not use the reply "any acceptable" unless specifically authorized by the FIIG requirement instructions. DLSC requires full justification for its use.

(d) New Concept FIIGs do not use MRCs with yes or no type table responses such as "provided" or "not provided". Use MRC CBBL, FEATURES PROVIDED. "Any Acceptable" replies are not authorized for these FIIGs.

(3) The FIIG reflects requirement applicability of all requirements to each AIN by the use or absence of an Applicability Key. New Concept FIIGs do not contain Applicability Keys.

(a) Identify a major requirement by the Applicability Key to an AIN when it addresses a characteristic normally associated with such items. New Concept FIIGs do not contain Applicability Keys.

(b) The absence of a key in the applicability column indicates a subordinate requirement representing an "as-required" condition for the characteristic. The preceding major requirement is the governing requirement for the as-required condition. New Concept FIIGs do not contain subordinate requirements.

(c) Dashes in the applicability column indicate a lead-in requirement, requiring no reply. Requirement instructions provide guidance as to what action is necessary to satisfy the lead-in requirement. A lead-in requirement is one such as MOUNTING DIMENSIONS. Appendix B of the FIIG contains the applicable requirements.

(d) Applicability Keys appear above each major requirement. "ALL" indicates that you

must answer the requirement for all items covered by the FIIG. A specific letter(s) indicates that you must satisfy the requirement only for the specific item name(s) assigned to that Applicability Key. An asterisk following the applicability key indicates the requirement may not be applicable to all items covered by the Applicability Key and mean "as required."

(b) Format. Organize Section I within a standard columnar format as explained below. Refer to the FIIG example provided in Appendix 3-3-A. Refer to Appendix 3-3-B for New Concept FIIG examples.

(1) Head each page by four capitalized column titles separated from the text by a dividing line. New Concept FIIGs contain three capitalized column titles.

(2) Title the first page of Section I "SECTION I, ITEM CHARACTERISTICS DATA REQUIREMENTS." Title New Concept FIIGs "SECTION I".

(3) The first column, titled: "APPL KEY," will contain the Applicability Key indicator(s) for each requirement. New Concept FIIGs do not contain this column.

(4) The second column, titled: "MRC," will list the four-position Master Requirement Code that corresponds to each requirement. This is the first column in new concept FIIGs.

(5) The third column, titled: "MODE CODE" will identify the one-position, alphabetic Mode Code assigned to each MRC. This is the second column in New Concept FIIGs.

(6) The fourth column, titled:

“REQUIREMENTS” will contain the requirement titles, definitions, reply instructions, reply tables, notes, and special instructions. The first MRC requirement in Section I is always the MRC NAME, ITEM NAME, followed in sequence (insofar as possible) by requirements common to all item names covered by the FIIG, requirements specific to particular item names, other requirements necessary for identification, the standard data requirements, and then, after MRC ELCD (Extra Long Characteristics Description), those requirements needed to support logistics functions other than NSN assignment. This is the third column in New Concept FIIGs.

(8) Section II - Data Range Criteria. Section II will be deleted from all FIIGs, This will occur at *reprint* time of each individual FIIG.

(9) Do not include Section III (Supplementary Technical and Supply Management Data) in new FIIGs. Include all requirements needed to support logistics functions other than NSN Assignment in Section I of the FIIG following MRC ELCD. DLSC will identify these MRCs on Segment M output with the Roman numeral III. Fully coordinated (tan covered) and New Concept FIIGs do not contain Section III. Include these MRCs in Section I before MRC FEAT.

(10) Appendix A - Reply Tables.

(a) Content. This appendix consists of reply tables and tables of Identified Secondary Address Codes (ISACs) organized for reference by Section I requirements. Include tables based upon the following criteria:

(1) Tables of ten or more replies or ISACs. Tables of 25 or more replies for New Concept FIIGs.

(2) Tables of more than five replies or

ISACs, when referenced by more than one requirement.

(b) Format.

(1) Title the first page “INDEX TO APPENDIX A ” and list all the tables in sequence. Number each table and label as table 1, Table 2, etc. The first column of the index lists the table number, followed by a dash and the capitalized title. The second column titled “Page No” gives page numbers that apply to each table.

(2) Arrange the body of Appendix A in table sequence, each identified by a capitalized title and a table number. Head ISAC tables with a list of all applicable MRCs. Reply tables shall note in parentheses, after the table number, the four-position code assigned to each reply table in the MRD. Tables generally consist of two columns:

(a) The first column, titled “REPLY CODE ” lists the reply codes or ISACs. Capitalize alpha-codes/alphanumeric codes.

(b) The second column, titled “REPLY” lists the replies (capitalized) in alphabetic or other logical sequence.

(11) Appendix B - Reference Drawing Groups. This appendix displays drawings of item configurations with dimensional requirements necessary to describe basic item features.

(a) Content. Appendix B contains drawings, dimensional requirements, and instructions as required.

(1) Drawings which appear in Appendix B will be isometric, if at all possible. This will be at the discretion of the initiating activity.

(2) DLSC will accept sketches, drawings, illustrations, or photographs and prepare in final form.

(3) Avoid use of legend letters on drawings. Use legend letters only in the reference drawings of those FIIGs where it is impossible or impractical to reflect the specific MRCs for the dimensional/physical characteristics requirements. Submit a full justification for their use. DLSC will attempt to change these at reprint time.

(4) Locate reference drawings in Section I of the FIIG if they appear on four or less pages and are only referenced by one MRC. Related dimensional requirements will follow the drawings. However, if any one drawing group does not meet this criteria and has to appear in Appendix B, then locate all drawings for the FIIG in Appendix B.

(5) The FIIG initiator will assign a pseudo style number to new styles added to a FIIG. Pseudo numbers will begin with A and ascend alphabetically. They should be consistent with the character length of the rest of the assigned style numbers (e.g., Styles A, B, C or AA, AB, AC, etc.). DLSC will assign the authorized style number upon receipt of the drawing. Provide unique style titles for the new styles when assigned a Mode Code L. The style titles will not utilize the AIN or any portion thereof in their construction.

(b) Format.

(1) Title the first page "INDEX TO APPENDIX B" and arranged in columns. The first column titled "Reference Drawing" lists the Reference Drawing Groups/Sections identified by letter designations and titles. The second column titled "Page No" lists page numbers that apply to each group.

(2) Precede each Reference Drawing Group that includes MRCs by a page(s) titled "INDEX OF MASTER REQUIREMENT CODES" beneath which provide the group title (such as PERIPHERAL SHAPES). This index includes notes, reply instructions, reply tables and all the requirements applicable to that Reference Drawing Group. Organize the requirements in column as follows:

(a) Title the first column "MRC."

(b) The second column, titled "Mode Code" lists the applicable Mode Code for each MRC. DLSC will group MRCs by Mode Code.

(c) The third column titled "Name of Dimension" gives the requirement title.

(3) Label pages of drawings with the applicable group/section designation and title and enclosed by a printed border margin. Give each drawing an identifying style number.

(12) Appendix C - Technical Data Tables.

(a) Content. Reserve this appendix for reference data, conversion charts and other useful information or table not expressed elsewhere in the FIIG.

(b) Format.

(1) Title the first page "INDEX TO APPENDIX C," and list all the tables in sequence. Number each table and label as: Table 1, Table 2, etc. The first column of the index lists the table number, followed by a dash and the capitalized title. The second column, titled "Page No.," gives page numbers that apply to each table.

(2) Arrange the data in columns, tables, or

other suitable format that will be readily understandable to the user. Label each table with a title and table number.

(3) See Appendix 3-3-B for Appendix C standard tables. New Concept FIIGs may contain Appendix C.

3.3.5 FIIG Page Change. DLSC will review each page change that effects the technical content of the FLIS data base. DLSC will determine if the Mass Change Program or Database Discipline is required. The following criteria and procedures apply:

a. Mass Change

(1) The changes must be simple and clear cut.

(2) DLSC requires approximately two weeks to process the mass change.

(3) DLSC will lock out the FIIG for the period of time necessary to process the mass change.

(4) DLSC will send notification to Services/Agencies two weeks before lock out.

(5) DLSC will notify Services/Agencies when we unlock the FIIG.

(6) DLSC will mail implementation rejects to the Services/Agencies and forward any error conditions to the item manager for manual correction.

b. Data Base Discipline. Items that require manual correction will be identified and mailed to the Services/Agencies.

APPENDIX 3-3-A
SAMPLES OF FIIG INFORMATION

FIIG A004A
REPRINT DATED: 17 MAR 89

FEDERAL ITEM IDENTIFICATION GUIDE

PIPE AND TUBE METALLIC

This Reprint replaces Reprint FIIG A004A, dated 18 MAR 77, and incorporates all Changes, Errata, and Notices, and includes current changes as indicated by an "at" sign @.

The provisions of this Reprint are effective 17 MAR 89.



DEFENSE LOGISTICS AGENCY
Defense Logistics Services Center
Battle Creek, Michigan 49017-3084

**APPENDIX 3-3-A
SAMPLE OF FIIG INFORMATION**

GENERAL INFORMATION

1. Purpose and Scope

This Federal Item Identification Guide (FIIG) is a self-contained document for the collection, coding, transmittal, and retrieval of item characteristics and related supply management data for an item of supply for logistical use. This FIIG is to be used to describe items of supply identified by the index of approved item names appearing in this section.

2. Contents

This FIIG is comprised of the following:

Index of Approved Item Names Covered by this FIIG

Applicability Key Index

Section I - Item Characteristics Data Requirements

Section III - Supplementary Technical and Supply Management Data (as applicable)

Appendix A - Reply Tables

Appendix B - Reference Drawing Groups (as applicable)

Appendix C - Technical Data Tables (as applicable)

a. Index of Approved Item Names Covered by this FIIG:

The index lists the approved item names with definitions and item name codes as they appear in Cataloging Handbook H6, applicable to this FIIG. In addition, each name entry is assigned an applicability key for use in relating the characteristics requirements in Section I to the specific item name.

b. Applicability Key Index:

The purpose of this index is to provide the user with a ready reference for determining the specific requirements which are applicable to a given approved item name. This index lists all requirements in sequence as they appear in this FIIG. The applicability of a Master Requirements Coded requirement is indicated by the column headed by the specific item name applicability key as follows:

(1) The letter "X" indicates the requirement must be answered for a full descriptive item.

(2) The letters "AR" indicate the requirement is to be answered as required by (1) instructional notes within the FIIG; (2) when the reply is predicated on replies to a related main requirement; or (3) when an asterisk (*) used in conjunction with the applicability key column in Section I.

APPENDIX 3-3-A
SAMPLE OF FIIG INFORMATION

(3) A blank in the column indicates the requirement is not applicable to the specific item name.

c. Section I - Item Characteristics Data Requirements:

This section contains the physical and performance characteristics requirements needed to describe and identify an item of supply. These characteristics differentiate one item from all other items of supply and are to be used to meet the needs of all supported functions. This section is arranged in columns. Identification of each column and instructions pertinent thereto are as follows:

(1) **Applicability Key:** The first column shows the applicability key(s) for each requirement. It indicates whether the requirement need be satisfied for the item being identified. "ALL" indicates that the requirement must be answered for all items covered by the FIIG. One or more alphabetic character(s) or group of one or more alphabetic characters indicates a response is required when describing items with an approved item name or names represented by the key(s). An asterisk (*) used in conjunction with any applicability key indicates that the characteristic stated in the requirement may not be applicable to all items covered by the FIIG and replies to the requirements will be governed as follows:

(a) If the requirement calls for a characteristic that is not an inherent characteristic of the item being described, a reply will not be given for the requirement.

(b) If the requirement calls for a rating that is not an inherent characteristic of the item being described, a reply will not be given for the requirement.

(c) If the only appropriate reply to a requirement is NONE, a reply will not be given for the requirement.

(2) **Master Requirement Code (MRC):** A four-position code which is assigned to a FIIG requirement for identification of the requirement, cross-referencing requirements in the various sections and appendices of the FIIG, and for mechanized processing and retrieval of FIIG generated data. Absence of a MRC for a requirement indicates a lead-in to requirements with individual MRCs in Appendix B.

(a) The coding technique for providing MULTIPLE/OPTIONAL responses will not be used for a Section I requirement assigned Mode Code A or L that leads to Appendix B sketches with dimensional requirements.

(b) **Secondary Address Coding:** This technique is for extending the Master Requirement Code so that a unique address is provided for each application of the requirement in relation to the item and is authorized only as instructed within the requirement. Responses coded through this technique will always consist of the following (1) Master Requirement Code, (2) indicator code (a single numeric character determined by the number of positions contained), (3) secondary address code (1- to 9-digit alphabetic codes determined by the number of predicted replies), (4) the mode code, (5) the reply code and/or clear

**APPENDIX 3-3-A
SAMPLE OF FIIG INFORMATION**

text response, and (6) end with a record separator (*). Steps (1) through (6) are repeated for each application of the requirement.

(c) **AND/OR Coding:** A technique for extending the Master Requirements Code to provide a distinctive address for multiple responses to the same requirement. Responses coded through this technique will always consist of (1) Master Requirement Code, (2) mode code, (3) the response or reply code (as instructed by the requirement), (4) a single dollar sign (\$) for an OR condition, or a double dollar sign (\$\$) for an AND condition, (5) the mode code, (6) the response or reply code (followed by conditions (4) through (6) for each of the multiple responses) and (7) end with a record separator (*). NOTE: Apply this technique only when instructed by the requirement sample reply (e.g.).

(3) **Mode Code:** A one-position alphabetic code that specifies the manner in which a response will be prepared. Each requirement assigned a MRC is also assigned a mode code. Sample replies follow each FIIG requirement displaying the proper construction of a response for the assigned mode code. The response to a requirement will always be prepared in accordance with the assigned mode code and sample reply except in the following instances:

(a) Mode Code E may be used with any requirement, except requirement NAME or a requirement with Mode Code A, G, or L where the replies (or portion thereof in the case of chained requirements) applicable to the requirement are restricted by an authorized table of replies or other restrictions, and an appropriate reply has not been provided. E Mode Code replies are governed by the following:

- 1- The E Mode Code reply must be in context with the requirement statement.
- 2- The E Mode Code reply must be given totally in clear text.
- 3- The E Mode Code reply must be structured in the same manner as the replies authorized for use with the requirement.
- 4- The E Mode Code reply is not valid for any requirement wherein an Appendix B style number is the appropriate reply.
- 5- The E Mode Code reply must be entered last when used in conjunction with AND/OR coding.

(b) Mode Code K may be substituted for any mode code, except Mode Codes D, G, or L. Reply Code A may be used with Mode Code K for any requirement when the appropriate reply is "Any Acceptable", unless otherwise instructed within the requirement. Reply Code N may be used with Mode Code K only when authorized by the requirement instructions. When Mode Code K is used in lieu of the assigned Mode Code, the MRC, Mode Code K and the appropriate standard reply code authorized for use with this mode code will be given. The following standard replies and codes are authorized for use with Mode Code K:

APPENDIX 3-3-A
SAMPLE OF FIIG INFORMATION

<u>REPLY CODE</u>	<u>REPLY</u>
A	ANY ACCEPTABLE
N	NOT RATED

(4) Requirement: This portion includes the characteristics data elements and data use identifiers required to identify and differentiate one item of supply from another, narrative definitions, and explanations as to use and method of expression. Instructions for coding and preparing replies are also provided.

(5) Reply Code: A code that represents an established authorized reply to a requirement.

d. Section III - Supplementary Technical and Supply Management Data:

This section includes those characteristics requirements necessary to support specific logistics functions other than National Stock Number assignment.

e. Appendix A - Reply Tables:

Tables of authorized replies to requirements and reply codes when the tables are too lengthy for inclusion in Section I/III, when applicable.

f. Appendix B - Reference Drawings:

This appendix contains representative illustrations which portray specific variations of one or more generic characteristics. If reference drawings contain legend pages to be used in conjunction with illustrations for dimensioning purposes, the legend pages will contain legend/Master Requirements Codes, mode codes, and a statement of the requirement. A response to requirements on a legend page is necessary only for those legend/Master Requirements Codes applicable to the illustration selected.

g. Appendix C - Technical Data Tables:

This appendix contains conversion charts and similar data pertinent to the requirements in Section I/III, when applicable.

3. Enter administrative MRC CLQL, immediately following the last FIIG requirement reply, as instructed below:

APPENDIX 3-3-A
SAMPLE OF FIIG INFORMATION

<u>MRC</u>	<u>Mode Code</u>	<u>Requirement</u>	<u>Example</u>
CLQL	G	COLLOQUIAL NAME (common usage name by which any item is known)	CLQLGWOVEN WIRE CLOTH*

4. Special Instructions and Indicator Definitions:

a. Measurements: Unless otherwise indicated within a requirement example, enter all measurements in decimal form, carried to the nearest three decimal places, with a minimum of one digit preceding the decimal. For SI (metric), enter all measurements with a minimum of one digit before and after the decimal. For fraction to decimal conversion, see Appendix C.

Recording instructions for requirements using nominal or minimum and maximum:

If a nominal value is given, minimum and maximum values cannot be utilized within the same requirement reply.

If a value is given for minimum, a reply for maximum is mandatory unless otherwise specified in the source data. Likewise, if a value is given for maximum, a reply for minimum is mandatory unless otherwise specified in the source data. Enter the minimum value first followed by the maximum value, if applicable.

b. Indicators: A cross hatch (#) following an AIN, MRC, Reply Code or Drawing Number indicates for "ALL EXCEPT USA" use only.

5. Index of Data Requirements:

This index is arranged in alphabetic sequence by Master Requirement Code, cross-referenced to the applicable data requirement code and page number(s).

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SAMPLE OF FIIG INFORMATION

FIIG A004A
GENERAL INFORMATION
SECTION I/III REQUIREMENTS INDEX

MRC	Section I/III Requirement	Page No.
AAGN	NOMINAL PIPE SIZE DESIGNATION	11
AAGP	WALL THICKNESS DESIGNATION	11
AAGR	CROSS-SECTIONAL SHAPE STYLE	12
AAGT	WALL THICKNESS	70
AAGZ	FIRST END STYLE	13
AAHA	FIRST END INSIDE DIAMETER	71
AAHB	FIRST END OUTSIDE DIAMETER	71
AAHC	FIRST END TELESCOPING LENGTH	71
AAHD	FIRST END BEAD OUTSIDE DIAMETER	71
AAHE	FIRST END FLARE LENGTH	71
AAHF	FIRST END FLANGE OUTSIDE DIAMETER	71
AAHG	FIRST END GROOVE WIDTH	71
AAHH	FIRST END GROOVE DIAMETER	71
AAHJ	FIRST END LENGTH FROM GROOVE TO END	71
AAHK	FIRST END BEAD WIDTH	71
AAHL	FIRST END UNDERCUT LENGTH	71
AAHM	FIRST END LENGTH FROM BEAD CENTER TO END	71
AAHP	SECOND END STYLE	13
AAHQ	SECOND END INSIDE DIAMETER	71
AAHR	SECOND END OUTSIDE DIAMETER	71
AAHS	SECOND END TELESCOPING LENGTH	71
AAHT	SECOND END BEAD OUTSIDE DIAMETER	71
AAHU	SECOND END FLARE LENGTH	71
AAHV	SECOND END FLANGE OUTSIDE DIAMETER	71
AAHW	SECOND END GROOVE WIDTH	71
AAHX	SECOND END GROOVE DIAMETER	71
AAHY	SECOND END LENGTH FROM GROOVE TO END	71
AAHZ	SECOND END BEAD WIDTH	71
AAJA	SECOND END UNDERCUT LENGTH	71
AAJB	SECOND END LENGTH FROM BEAD CENTER TO END	71
AAJH	WELDING METHOD	14
ABGL	WIDTH	70

**APPENDIX 3-3-A
SAMPLE OF FIG INFORMATION**

MRC	Section I/III Requirement	Page No.
ABMZ	DIAMETER	70
ADTD #	NOMINAL PRESSURE RATING	15
AEHZ	MAXIMUM OPERATING TEMP	15
ASDB	WIDTH ACROSS FLATS	70
ATKT	FIRST END THREAD SERIES	71
ATLB	SECOND END THREAD SERIES	71
CBBL	FEATURES PROVIDED	17
CQBB	SECOND END RELATIONSHIP WITH FIRST END	13
CQCF	CONSTRUCTION	14
CQGM	MAXIMUM OPERATING PRESSURE	14
CQHT	SURFACE CONDITION AND LOCATION	16
CQYM	FIRST END NOMINAL THREAD SIZE	71
CRNB	SECOND END NOMINAL THREAD SIZE	71
CRTL	CRITICALITY CODE JUSTIFICATION	20
CRWF	THREAD PROTECTIVE DEVICE AND QUANTITY	17
CRXX	MEASURING METHOD AND LENGTH	12
CSQH #	FIRST END THREAD PITCH IN MILLIMETERS	71
CTDX #	SECOND END THREAD PITCH IN MILLIMETERS	71
CWBM #	FIRST END THREAD TOLERANCE CLASS	72
CXNC #	SECOND END THREAD TOLERANCE CLASS	72
ELCD	EXTRA LONG CHARACTERISTIC DESCRIPTION	71
ELRN	EXTRA LONG REFERENCE NUMBER	21
FEAT	SPECIAL FEATURES	17
HEAT	HEAT TREATMENT	16
HGTH	HEIGHT	70
MATL	MATERIAL	11
NAME	ITEM NAME	11
PRPY	PROPRIETARY CHARACTERISTICS	21
SPCL	SPECIAL TEST FEATURES	18
STLC	SURFACE TREATMENT AND LOCATION	16
TEST	TEST DATA DOCUMENT	18
ZZZK	SPECIFICATION/STANDARD DATA	19
ZZZT	NONDEFINITIVE SPEC/STD DATA	19
ZZZW	DEPARTURE FROM CITED DOCUMENT	20

APPENDIX 3-3-A
SAMPLE OF FIG INFORMATION

MRC	Section I/III Requirement	Page No.
ZZZX	DEPARTURE FROM CITED DESIGNATOR	20
ZZZY	REFERENCE NUMBER DIFFERENTIATING CHARACTERISTICS	20
Section III Requirements		
AGAV	END ITEM IDENTIFICATION	50
BBRH	INSPECTION FREQUENCY	48
CBME	CUBIC MEASURE	48
ECWT	EXTERIOR CONTAINER WEIGHT	51
EXME	EXTERIOR CONTAINER CUBIC MEASURE	52
EXQT	EXTERIOR CONTAINER QUANTITY	51
PKQT	INTERMEDIATE PACKAGE QUANTITY	51
PKWT	UNPACKAGED UNIT WEIGHT	48
PMLC	PRECIOUS MATERIAL AND LOCATION	49
PMWT	PRECIOUS MATERIAL AND WEIGHT	49
PRMT	PRECIOUS MATERIAL	49
SUCB	UNIT OF ISSUE CUBE	52
SUPP	SUPPLEMENTARY FEATURES	50
SUWT	UNIT OF ISSUE WEIGHT	51
ZZZP	PURCHASE DESCRIPTION IDENTIFICATION	50

6. Maintenance

This FIG was prepared by the Defense Construction Supply Center. Requests for revisions and other changes will be directed to:

Commander
Defense Construction Supply Center
ATTN: DCSC-VLF
Columbus, OH 43215-5000

(COMM) 614-236-2911
(AV) 850-2911

**APPENDIX 3-3-A
SAMPLE OF FIIG INFORMATION**

FIIG A004A
GENERAL INFORMATION
INDEX OF APPROVED ITEM NAMES COVERED BY THIS FIIG

Approved Item Name	INC	App Key
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NOTE: CRITERIA FOR IDENTIFICATION OF PIPE OR TUBE ITEMS.

For all items refer to Appendix C, Tables 1 through 10. Items conforming to dimensions shown therein are to be identified as "Pipe". Items not conforming dimensionally to the above tables are to be identified as "Tube" and must be described accordingly.

PIPE, BENT, METALLIC	32506	C
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A bent hollow item, welded or seamless. It has a round cross section with a continuous periphery. It is primarily designed to convey fluids, gases, and/or semisolids. Excludes ELBOW, PIPE; ELBOW, TUBE; BEND, ELECTRICAL CONDUIT; BEND, PIPE, RETURN; and BEND, TUBE, RETURN.

PIPE, METALLIC	31978	A
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A straight, hollow, metallic product, welded or seamless, of round cross section and continuous periphery and dimensions conforming to applicable Tables 1 through 10, Appendix C, FIIG A004A. It is primarily designed to convey fluids, gases, and/or semisolids. For items designed to join a pipe or pipe fitting to another pipe, tube, hose or fitting see ADAPTER (as modified), COUPLING (as modified) or NIPPLE (as modified). Excludes PIPE, BENT (as modified), PIPE, CULVERT, METALLIC; TUBE, METALLIC; SPACER, SLEEVE; metal bar(hollow) and items with fittings except those with couplings or thread protectors.

TUBE, BENT, METALLIC	32507	D
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A bent hollow item, welded or seamless. It has a round, square, or any other cross section, with a continuous periphery. It is primarily designed to convey fluids, gases and/or semisolids. Excludes items of circular cross section, which conform in dimensional characteristics to PIPE, METALLIC; ELBOW, PIPE; ELBOW, TUBE; BEND, ELECTRICAL CONDUIT; BEND, PIPE, RETURN; and BEND, TUBE, RETURN. For items with end fittings on one or both ends, see TUBE ASSEMBLY, METAL.

TUBE, METALLIC	31979	B
----------------	-------	---

A straight, hollow, product, welded or seamless of round, square, or any other cross section and continuous periphery, which does not conform in cross sectional dimensions to Tables 1 through 10, Appendix C, FIIG A004A. It is designed to convey fluids, gases, and/or semisolids. It may be rolled into coils for ease in handling. For items designed to join a tube or tube fitting to another tube, pipe or hose or fitting, see ADAPTER (as modified), COUPLING (as modified), or NIPPLE (as modified). Excludes TUBE, BENT (as modified); PIPE, METALLIC; SPACER, SLEEVE; metal bars (hollow) and items with fittings, except end protectors.

APPENDIX 3-3-A
SAMPLE OF FIIG INFORMATION

FIIG A004A
GENERAL INFORMATION
APPLICABILITY KEY INDEX

MRC	Page No.	Applicability Key			
		A	B	C	D
NAME	11	X	X	X	X
MATL	11	X	X	X	X
AAGN	11	X		X	
AAGP	11	X		X	
CRXX	12	X	X		
AAGR	12	AR	X	AR	X
AAGT	70	AR	AR	AR	AR
ABGL	70	AR	AR	AR	AR
ABMZ	70	AR	AR	AR	AR
ASDB	70	AR	AR	AR	AR
HGTH	70	AR	AR	AR	AR
AAGZ	13	X	X	X	X
AAHA	71	AR	AR	AR	AR
AAHB	71	AR	AR	AR	AR
AAHC	71	AR	AR	AR	AR
AAHD	71	AR	AR	AR	AR
AAHE	71	AR	AR	AR	AR
AAHF	71	AR	AR	AR	AR
AAHG	71	AR	AR	AR	AR
AAHH	71	AR	AR	AR	AR
AAHJ	71	AR	AR	AR	AR
AAHK	71	AR	AR	AR	AR
AAHL	71	AR	AR	AR	AR
AAHM	71	AR	AR	AR	AR
CQYM	71	AR	AR	AR	AR
ATKT	71	AR	AR	AR	AR
CSQH #	71	AR	AR	AR	AR
CWBM #	72	AR	AR	AR	AR
CQBB	13	X	X	X	X
AAHP	13	AR	AR	AR	AR
AAHQ	71	AR	AR	AR	AR
AAHR	71	AR	AR	AR	AR
AAHS	71	AR	AR	AR	AR
AAHT	71	AR	AR	AR	AR
AAHU	71	AR	AR	AR	AR
AAHV	71	AR	AR	AR	AR
AAHW	71	AR	AR	AR	AR
AAHX	71	AR	AR	AR	AR

APPENDIX 3-3-A
SAMPLE OF FIIG INFORMATION

MRC	Page No.	Applicability Key			
		A	B	C	D
AAHY	71	AR	AR	AR	AR
AAHZ	71	AR	AR	AR	AR
AAJA	71	AR	AR	AR	AR
AAJB	71	AR	AR	AR	AR
CRNB	71	AR	AR	AR	AR
ATLB	71	AR	AR	AR	AR
CTDX #	71	AR	AR	AR	AR
CXNC #	72	AR	AR	AR	AR
CQCF	14	X	X	X	X
AAJH	14	AR	AR	AR	AR
CQGM	14	X	X	X	X
ADTD #	15	AR	AR	AR	AR
AEHZ	15	X	X	X	X
HEAT	16	AR	AR	AR	AR
CQHT	16	AR	AR	AR	AR
STLC	16	AR	AR	AR	AR
CRWF	17	AR	AR	AR	AR
CBBL	17	AR	AR	AR	AR
FEAT	17	AR	AR	AR	AR
TEST	18	AR	AR	AR	AR
SPCL	18	AR	AR	AR	AR
ZZZK	19	AR	AR	AR	AR
ZZZT	19	AR	AR	AR	AR
ZZZW	20	AR	AR	AR	AR
ZZZX	20	AR	AR	AR	AR
ZZZY	20	AR	AR	AR	AR
CRTL	20	AR	AR	AR	AR
PRPY	21	AR	AR	AR	AR
ELRN	21	AR	AR	AR	AR
ELCD	21	AR	AR	AR	AR
BBRH	48	AR	AR	AR	AR
CBME	48	AR	AR	AR	AR
PKWT	48	AR	AR	AR	AR
PRMT	49	AR	AR	AR	AR
PMWT	49	AR	AR	AR	AR
PMLC	49	AR	AR	AR	AR
SUPP	50	AR	AR	AR	AR
AGAV	50	AR	AR	AR	AR
ZZZP	50	AR	AR	AR	AR
PKQT	51	AR	AR	AR	AR
EXQT	51	AR	AR	AR	AR

APPENDIX 3-3-A
SAMPLE OF FIIG INFORMATION

MRC	Page No.	Applicability Key			
		A	B	C	D
SUWT	51	AR	AR	AR	AR
ECWT	51	AR	AR	AR	AR
SUCB	52	AR	AR	AR	AR
EXME	52	AR	AR	AR	AR

APPENDIX 3-3-A
SAMPLE OF FIIG INFORMATION

SECTION I

ITEM CHARACTERISTICS DATA REQUIREMENTS

APPL KEY	MRC	MODE CODE	REQUIREMENTS
ALL	NAME	D	ITEM NAME
	Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.		
	Reply Instructions: Enter the applicable item name code from the index appearing in the General Information Section. (e.g., NAMED31978*)		
ALL	MATL	D	MATERIAL
	Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.		
	Reply Instructions: Enter the applicable reply code from Appendix A, Table 1. (e.g., MATLDBR0000*; MATLDBR0000\$DCU0000*)		
A, C	AAGN	J	NOMINAL PIPE SIZE DESIGNATION
	Definition: THE INDUSTRIAL DESIGNATION OR TERM USED TO DEFINE THE DIAMETER OF PIPE.		
	Reply Instructions: Enter the applicable reply code from the table below, followed by the decimal equivalent of the nominal size of pipe. (e.g., AAGNJA0.750*; AAGN JL10.1*)		
	See Appendix C, Tables 1 through 10, for identification criteria for Pipe.		

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

APPENDIX 3-3-A
SAMPLE OF FIG INFORMATION

APPL KEY	MRC	MODE CODE	REQUIREMENTS
A, C	AAGP	D	WALL THICKNESS DESIGNATION

Definition: THE TERM USED TO DEFINE THE WALL THICKNESS CROSS-SECTIONAL DIMENSIONS OF PIPE OF VARIOUS MATERIAL AS REPRESENTED BY A SCHEDULE, THICKNESS CLASS, CLASS, STRENGTH, OR WEIGHT DESIGNATION.

Reply Instructions: Enter the applicable reply code from Appendix A, Table 2. (e.g., AAGPDAA*)

A, B	CRXX	J	MEASURING METHOD AND LENGTH
------	------	---	-----------------------------

Definition: THE MEANS USED AND THE MEASUREMENT OF THE LONGEST DIMENSION OF AN ITEM.

Reply Instructions: Enter the applicable reply codes from Tables 1, 2, and 3 below, followed by the numeric value. (e.g., CRXXJAAST144.000*; CRXXJLASP254.0*; CRXXJABSP14.115\$\$JACSP14.125*)

Optional measuring methods will not be selected in reply to this requirement.

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>	<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	INCHES	A	NOMINAL
L	MILLIMETERS	B	MINIMUM
		C	MAXIMUM

Table 2

Table 3

<u>REPLY CODE</u>	<u>REPLY (AN68)</u>
LY	LAYING
RN	RANDOM
SP	SPECIFIC
ST	STANDARD

APPENDIX 3-3-A
SAMPLE OF FIG INFORMATION

APPL KEY	MRC	MODE CODE	REQUIREMENTS
-------------	-----	--------------	--------------

A*, B, C*, D

AAGR

L

CROSS-SECTIONAL SHAPE STYLE

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE CROSS-SECTIONAL SHAPE OF THE ITEM.

Reply Instructions: Enter the applicable style number from Appendix B, Reference Drawing Group A. Optional styles will not be selected in response to this requirement. (e.g., AAGRL1*)

**APPENDIX 3-3-A
SAMPLE OF FIG INFORMATION**

SECTION III

SUPPLEMENTARY TECHNICAL AND SUPPLY MANAGEMENT DATA

APPL		MODE	
KEY	MRC	CODE	REQUIREMENTS

ALL BBRH J INSPECTION FREQUENCY

Definition: THE SPECIFIED TIME INTERVAL, FROM RECEIPT, NECESSARY TO DETECT MATERIAL DETERIORATION THAT WILL AFFECT STOCK READINESS.

Reply Instructions: Enter the applicable reply codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BBRHJM HAB6*; BBRHJM HAB6\$JMHAC6*)

Table 1

Table 2

<u>REPLY CODE</u>	<u>REPLY (AH68)</u>	<u>REPLY CODE</u>	<u>REPLY (AM82)</u>
DY	DAYS	AB	FIRST INSPECTION
MH	MONTHS	AC	REINSPECTION

ALL CBME J CUBIC MEASURE

Definition: A MEASUREMENT OF VOLUME TAKEN BY MULTIPLYING THE LENGTH BY THE WIDTH BY THE HEIGHT OF AN ITEM AND RENDERED IN CUBIC UNITS.

Reply Instructions: Enter the applicable reply code from the table below, followed by the numeric value. (e.g., CBMEJCF10.25*; CBMEJCM5.20*)

<u>REPLY CODE</u>	<u>REPLY (AN76)</u>
CF	CUBIC FEET
CM	CUBIC METERS

APPENDIX 3-3-A
SAMPLE OF FIIG INFORMATION

APPL KEY	MRC	MODE CODE	REQUIREMENTS
-------------	-----	--------------	--------------

ALL

PKWT	J	UNPACKAGED UNIT WEIGHT
------	---	------------------------

Definition: THE MEASURED WEIGHT OF AN ITEM UNENCUMBERED BY PACKAGING OR PACKING MATERIAL.

Reply Instructions: Enter the applicable reply code from the table below, followed by the numeric value. (e.g., PKWTJLB0.50*; PKWTJKG1.0*)

<u>REPLY CODE</u>	<u>REPLY (AN75)</u>
LB	POUNDS
KG	KILOGRAMS

ALL

PRMT	D	PRECIOUS MATERIAL
------	---	-------------------

Definition: IDENTIFICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM.

Reply Instructions: Enter the applicable reply code from the table below. (e.g., PRMTDAGA000*; PRMTDAUA000\$\$DAGA000*)

<u>REPLY CODE</u>	<u>REPLY (MA01)</u>
AUA000	GOLD
IRA000	IRIDIUM
AZA000	OSMIUM
PDA000	PALLADIUM
PTA000	PLATINUM
RHA000	RHODIUM
RTA000	RUTHENIUM
AGA000	SILVER

APPENDIX 3-3-A
SAMPLE OF FIG INFORMATION

APPL KEY	MRC	MODE CODE	REQUIREMENTS
ALL	PMWT	J	PRECIOUS MATERIAL AND WEIGHT

Definition: AN INDICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM, AND THE AMOUNT PER A MEASUREMENT SCALE.

Reply Instructions: Enter the applicable reply codes from Tables 1 and 2 below, followed by the numeric value. Enter multiple replies in Table 1 sequence. (e.g., PMWTJPTA000R0.780*; PMWTJUA000F0.500\$\$JAGA000R0.780*)

Table 1

Table 2

<u>REPLY CODE</u>	<u>REPLY (MA01)</u>	<u>REPLY CODE</u>	<u>REPLY (AG14)</u>
AUA000	GOLD	E	GRAINS, TROY
IRA000	IRIDIUM	R	GRAMS
AZA000	OSMIUM	F	OUNCES, TROY
PDA000	PALLADIUM		
PTA000	PLATINUM		
RHA000	RHODIUM		
RTA000	RUTHENIUM		
AGA000	SILVER		

APPENDIX 3-3-A
SAMPLE OF FIIG INFORMATION

APPENDIX A

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Table 2 - WALL THICKNESS DESIGNATIONS	60 AND 61
Table 3 - HEAT TREATMENTS	61 AND 62
Table 4 - INSIDE AND OUTSIDE SURFACE TREATMENTS	62 THROUGH 64
Table 5 - NONDEFINITIVE SPEC/STD DATA	64 THROUGH 66
Table 6 - THREAD DESIGNATORS	66 AND 67
Table 7 - WELDING METHODS	67

NOTE: REPLY CODES IN THE REPLY CODE COLUMNS THAT ARE INCLOSED WITHIN PARENTHESES ARE NO LONGER VALID, AND ARE INCLUDED FOR REFERENCE PURPOSES ONLY.

APPENDIX 3-3-A
SAMPLE OF FIIG INFORMATION

Table 1

MATERIALS

<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
A	ANY ACCEPTABLE
ALC000	ALUMINUM
AL0000	ALUMINUM ALLOY
AL0099	ALUMINUM ALLOY, 1100
AL0100	ALUMINUM ALLOY, 2014
AL0102	ALUMINUM ALLOY, 2024
AL0103	ALUMINUM ALLOY, 3003
AL1048	ALUMINUM ALLOY, 5050
AL0153	ALUMINUM ALLOY, 5052
AL2760 #	ALUMINUM ALLOY, 6060
AL0109	ALUMINUM ALLOY, 6061
AL0629	ALUMINUM ALLOY, 6061, T6
AL0104	ALUMINUM ALLOY, 50052
AL0723	ALUMINUM ALLOY, ALUMINUM ASSOCIATION 2024

Table 2

WALL THICKNESS DESIGNATION

SCHEDULE DESIGNATION IS USED BY INDUSTRY TO DESCRIBE THE WALL CROSS-SECTIONAL DIMENSION OF MOST PIPE. THICKNESS CLASS DENOTES WALL THICKNESS OF CAST IRON PIPE. STANDARD OR EXTRA STRONG ARE TERMS USED TO DENOTE WALL THICKNESS OF COPPER OR COPPER ALLOY (INCLUDING BRASS OR BRONZE) PIPE. CLASS DENOTES WALL THICKNESS OF LEAD AND LEAD ALLOY PIPE. WEIGHT IS USED TO DENOTE WALL THICKNESS OF CAST SOIL PIPE. SEE APPENDIX C, TABLES 1 THROUGH 10, FOR APPROPRIATE WALL THICKNESS DESIGNATIONS.

SCHEDULE DESIGNATOR FOR PIPE, STEEL; PIPE, CORROSION RESISTING STEEL; PIPE, ALUMINUM AND ALUMINUM ALLOY; PIPE, NICKEL AND NICKEL ALLOY; PIPE, WROUGHT IRON; AND PIPE, CAST IRON, THREADED.

APPENDIX 3-3-A
SAMPLE OF FIG INFORMATION

<u>REPLY CODE</u>	<u>REPLY (AA35)</u>
A	ANY ACCEPTABLE
AA	SCHEDULE 5
AB	SCHEDULE 10
AC	SCHEDULE 20
AD	SCHEDULE 30
AE	SCHEDULE 40
AF	SCHEDULE 60
AG	SCHEDULE 80

THICKNESS CLASS FOR PIPE, CAST IRON (EXCLUDES PIPE, CAST IRON, THREADED).

<u>REPLY CODE</u>	<u>REPLY (AA35)</u>
AQ	THICKNESS CLASS 1
AR	THICKNESS CLASS 2
AS	THICKNESS CLASS 3
AT	THICKNESS CLASS 4
AU	THICKNESS CLASS 5
AV	THICKNESS CLASS 6
AW	THICKNESS CLASS 7
AX	THICKNESS CLASS 8
AY	THICKNESS CLASS 9
AZ	THICKNESS CLASS 10

DESIGNATION FOR PIPE, COPPER, COPPER ALLOY INCLUDING BRASS AND BRONZE.

<u>REPLY CODE</u>	<u>REPLY (AA35)</u>
CC	STANDARD
BN	EXTRA STRONG

APPENDIX 3-3-A
SAMPLE OF FIG INFORMATION

Table 3

HEAT TREATMENTS

<u>REPLY CODE</u>	<u>REPLY (AD05)</u>
A	ANY ACCEPTABLE
BP	ANNEALED
CK	ANNEALED TO A NOMINAL GRAIN SIZE 0.015
CL	ANNEALED TO A NOMINAL GRAIN SIZE 0.025
CM	ANNEALED TO A NOMINAL GRAIN SIZE 0.035
EF	ANNEALED TO A NOMINAL GRAIN SIZE 0.040
CN	ANNEALED TO A NOMINAL GRAIN SIZE 0.050
CR	COLD DRAWN
BV	COLD DRAWN 1/8 HARD CONDITION
BW	COLD DRAWN 1/4 HARD CONDITION
BX	COLD DRAWN 1/2 HARD CONDITION
BY	COLD DRAWN 3/4 HARD CONDITION

Table 4

INSIDE AND OUTSIDE SURFACE TREATMENTS

<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AAAAAA	ANY ACCEPTABLE
AN0000	ANODIZED
AN0032	ANODIZED, QQ-A-696
CED000	BITUMINOUS COMPOUND
BA0000	BLACK OXIDE
CD0000	CADMIUM
CD0005	CADMIUM, QQ-P-416, TYPE 1, CLASS 2
CD0007	CADMIUM, QQ-P-416, TYPE 2, CLASS 1
CD0009	CADMIUM, QQ-P-416, TYPE 2, CLASS 3
	Cadmium w/Chromate (use Reply Codes CD0000 and CN0000)
CX0000	CEMENT

APPENDIX 3-3-A
SAMPLE OF FIG INFORMATION

Table 5

NONDEFINITIVE SPEC/STD DATA

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
AL	ALLOY
AN	ANNEX
AP	APPENDIX
AC	APPLICABILITY CLASS
AR	ARRANGEMENT
AS	ASSEMBLY
AB	ASSORTMENT
BX	BOX
CY	CAPACITY
CA	CASE

Table 6

THREAD DESIGNATORS

<u>REPLY CODE</u>	<u>REPLY (AA06)</u>
AN	ANPT
PL#	BSP.PL
BS	BSP.TR EXT
BR	BSP.TR INT
BW	BSW
FP	F-PTF
SM	ISO M
SS	ISO S
SP	NPS
SH	NPSH
SL	NPSL
PM	NPSM

APPENDIX 3-3-A
SAMPLE OF FIIG INFORMATION

Table 7

WELDING METHOD

<u>REPLY CODE</u>	<u>REPLY (AA40)</u>
RK #	ARC
AM #	AUTOMATIC METAL ARC
DS	DOUBLE SUBMERGED ARC (This method includes double wall brazed. The pipe or tube is produced in this manner by means of automatic submerged arc welding using two passes, one on the inside and one on the outside of the pipe or tube.)
ER	ELECTRIC RESISTANCE (This process employs a series of operations in which the flat sheet is formed to proper tubular shape. Weld joining is effected by the application of heat and pressure. The welding heat is generated by resistance to the flow of an electric current.)

**APPENDIX 3-3-A
SAMPLE OF FIG INFORMATION**

APPENDIX B

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GROUP A - TUBE SHAPES	72
GROUP B - PIPE AND TUBE END STYLES	73 AND 74

APPENDIX 3-3-A
SAMPLE OF FIIG INFORMATION

REFERENCE DRAWING GROUP A

TUBE SHAPES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable reply codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., ABMZJAA0.500*; ABMZJLA12.7*; AAGTJAB0.032\$\$JAC0.035*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AAGT	J	WALL THICKNESS
ABGL	J	WIDTH
ABMZ	J	DIAMETER
ASDB	J	WIDTH ACROSS FLATS
HGTH	J	HEIGHT

APPENDIX 3-3-A
SAMPLE OF FIIG INFORMATION

REFERENCE DRAWING GROUP B
PIPE AND TUBE END STYLES
INDEX OF LEGEND LETTERS

Enter the applicable reply codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., AAHAJAA4.660*; AAHAJLA118.4*; AAHAJAB3.500\$\$JAC3.520*)

Table 1

Table 2

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>	<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	INCHES	A	NOMINAL
L	MILLIMETERS	B	MINIMUM
		C	MAXIMUM

<u>LEGEND</u>	<u>MRC 1ST END</u>	<u>MRC 2ND END</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
A	AAHA	AAHQ	J	INSIDE DIAMETER
B	AAHB	AAHR	J	OUTSIDE DIAMETER
C	AAHC	AAHS	J	TELESCOPING LENGTH
D	AAHD	AAHT	J	BEAD OUTSIDE DIAMETER
E	AAHE	AAHU	J	FLARE LENGTH
F	AAHF	AAHV	J	FLANGE OUTSIDE DIAMETER
G	AAHG	AAHW	J	GROOVE WIDTH
H	AAHH	AAHX	J	GROOVE DIAMETER
J	AAHJ	AAHY	J	LENGTH FROM GROOVE TO END
K	AAHK	AAHZ	J	BEAD WIDTH
L	AAHL	AAJA	J	UNDERCUT LENGTH
M	AAHM	AAJB	J	LENGTH FROM BEAD CENTER TO END

APPENDIX 3-3-A
SAMPLE OF FIG INFORMATION

REFERENCE DRAWING GROUP B
INDEX OF LEGEND LETTERS

Enter the applicable reply code from the table below, followed by the numeric value.
(e.g., CQYMJA0.250*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

LEGEND	MRC 1ST <u>END</u>	MRC 2ND <u>END</u>	Mode <u>Code</u>	<u>Name of Dimension</u>
N	CQYM	CRNB	J	NOMINAL THREAD SIZE

Enter the applicable reply code from Appendix A, Table 6.
(e.g., ATKTDNP*)

P	ATKT	ATLB	D	THREAD SERIES
---	------	------	---	---------------

Enter the numeric value. (e.g., CSQHB1.25*)

Q #	CSQH	CTDX	B	THREAD PITCH IN MILLIMETERS
-----	------	------	---	-----------------------------

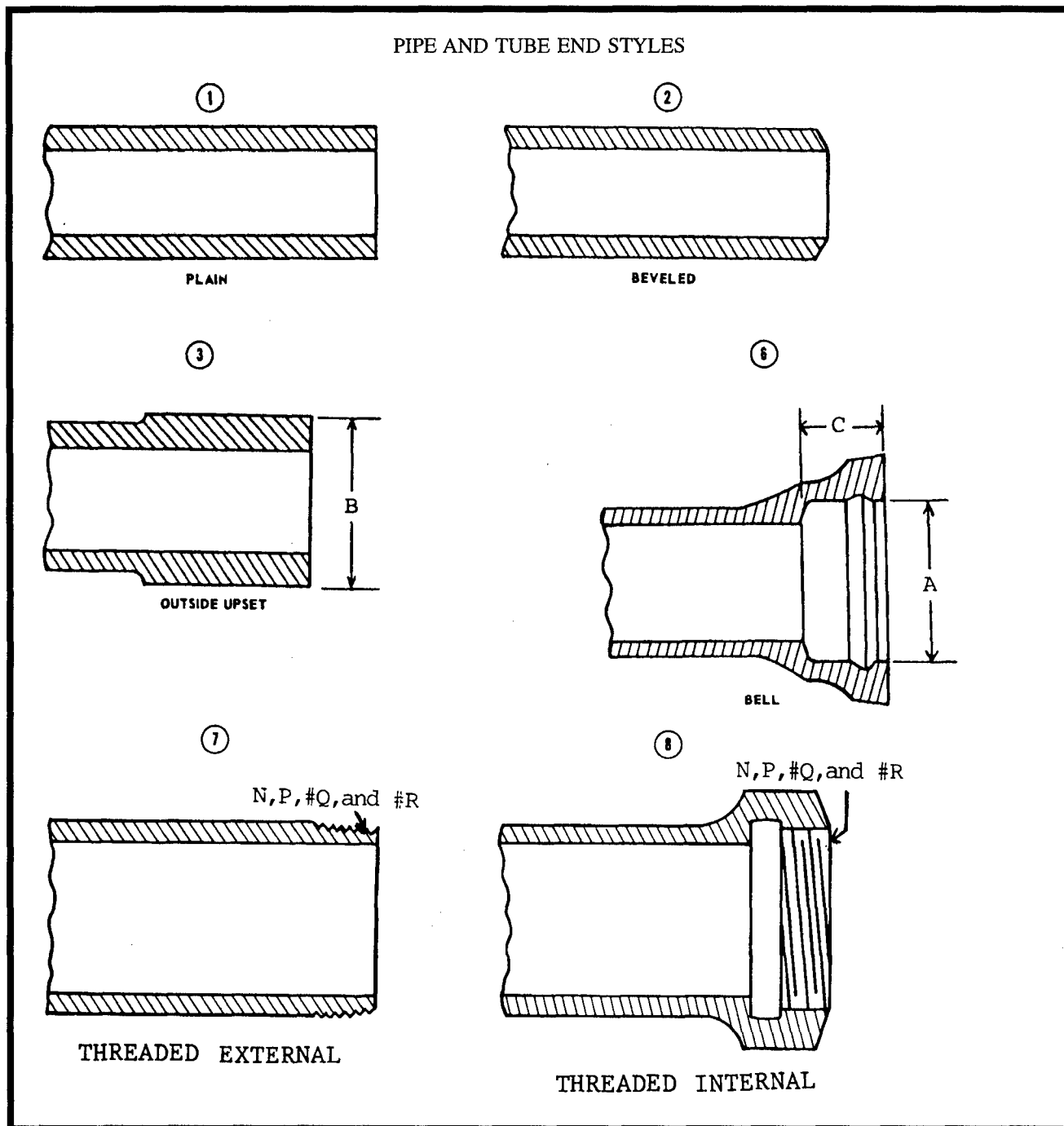
Enter the applicable reply code from the table below, followed by the designator.
(e.g., CWBMJEXT6H*)

R #	CWBM	CXNC	J	THREAD TOLERANCE CLASS
-----	------	------	---	------------------------

<u>REPLY CODE</u>	<u>REPLY (AN73)</u>
EXT	EXTERNAL
NTE	INTERNAL

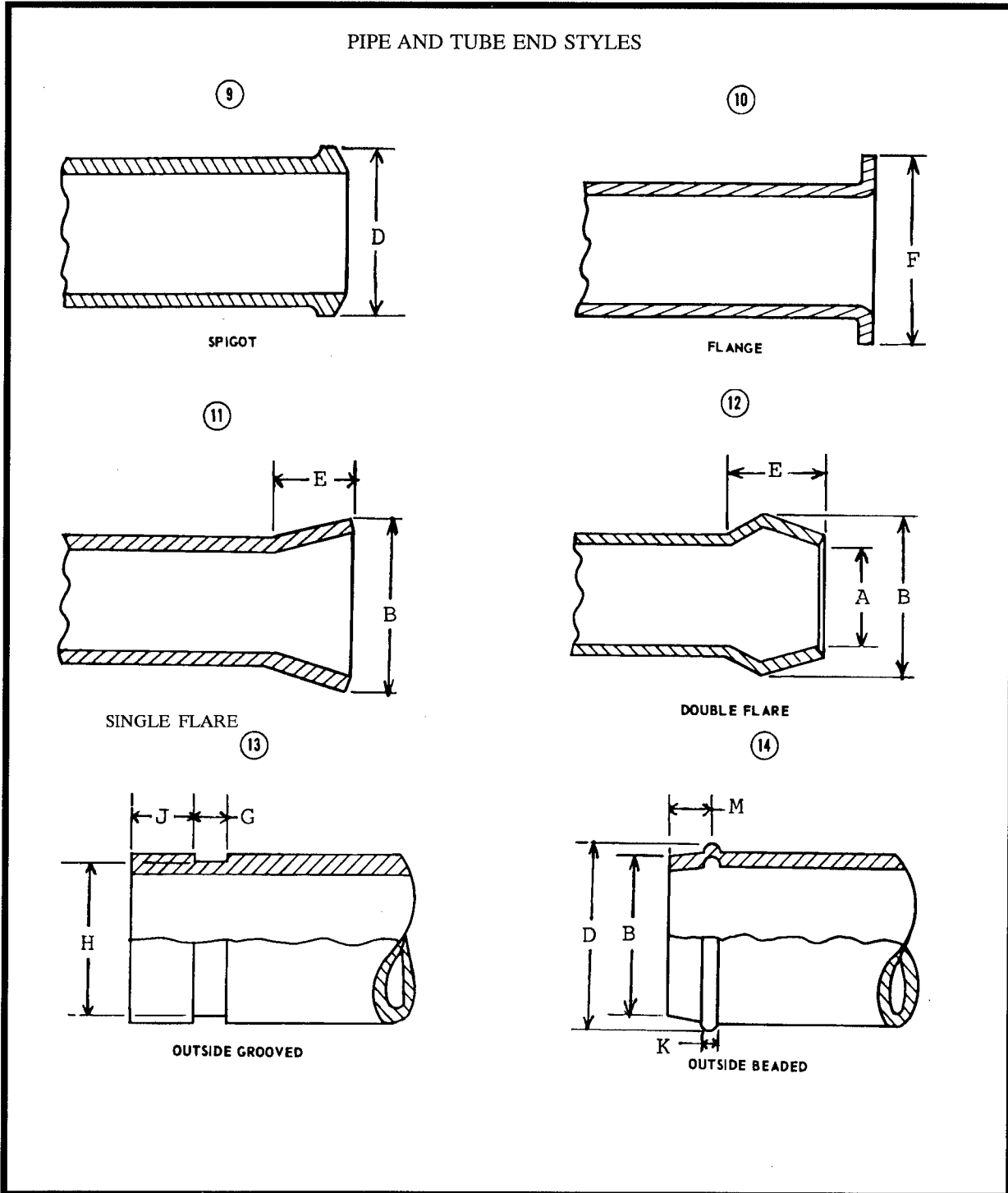
APPENDIX 3-3-A
SAMPLE OF FIG INFORMATION

REFERENCE DRAWING GROUP B



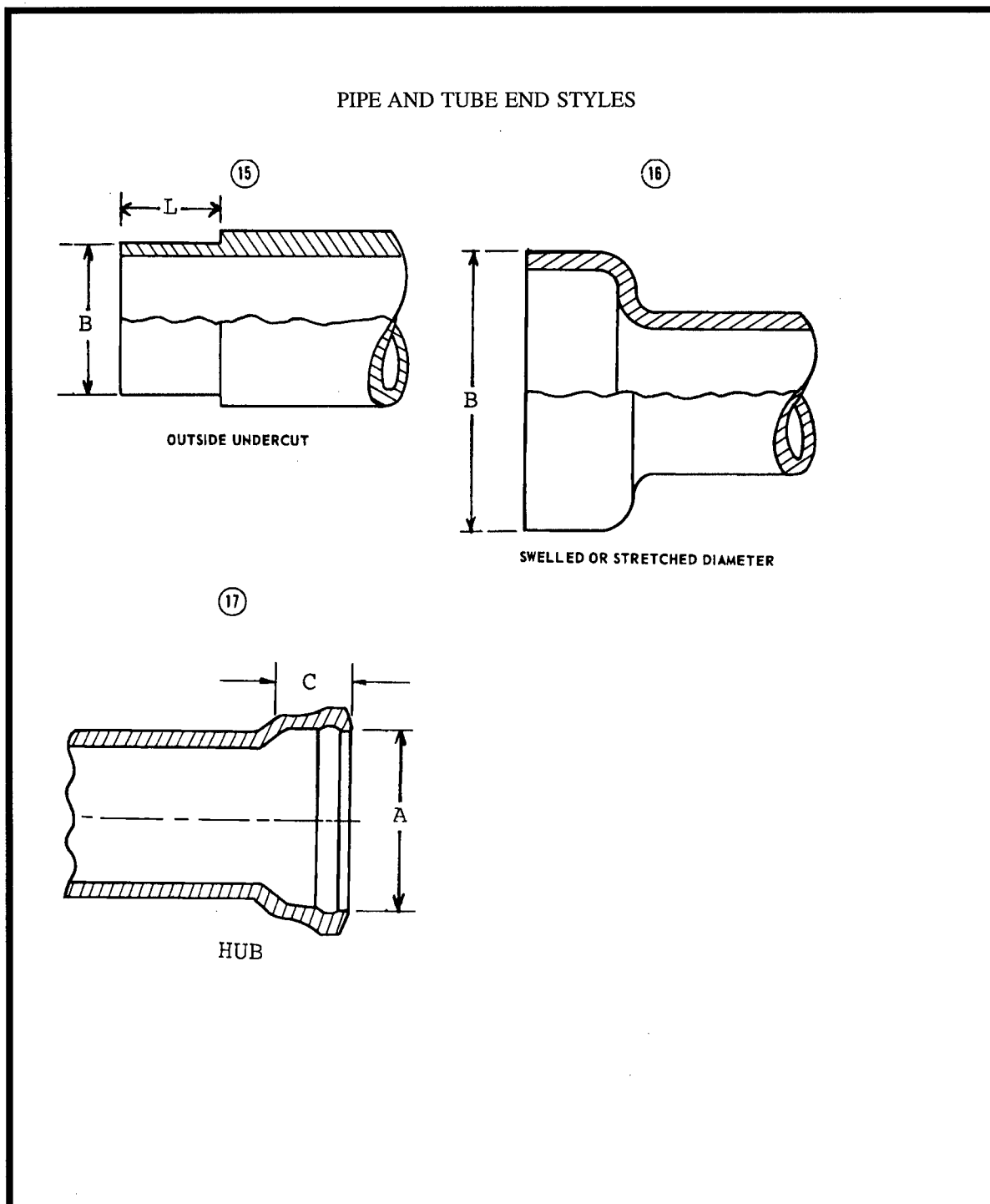
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SAMPLE OF FIG INFORMATION

REFERENCE DRAWING GROUP B



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SAMPLE OF FIG INFORMATION

REFERENCE DRAWING GROUP B



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SAMPLE OF FIIG INFORMATION

APPENDIX C

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Table 3 - WELDED WROUGHT-IRON PIPE WALL DIMENSIONS	80 AND 81
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Table 7 - PIT-CAST IRON PIPE WALL DIMENSIONS	85 THROUGH 88
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Table 9 - LEAD PIPE WALL DIMENSIONS	92 AND 93
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Table 16 - STANDARD FRACTION TO DECIMAL CONVERSION CHART	103

**APPENDIX 3-3-A
SAMPLE OF FIG INFORMATION**

Table 1

BRASS, COPPER AND BRONZE WALL DIMENSIONS

(EXTRACTED FROM COPPER & BRASS RESEARCH ASSOCIATION STANDARDS. TABLES CORRESPOND TO THE NATIONAL BUREAU OF STANDARDS SIMPLIFIED PRACTICE RECOMMENDATIONS R217-46)

STANDARD PIPE SIZE IN INCHES	WEIGHT PER FOOT TOLERANCES	ALL THICKNESS TOLERANCE	
	PLUS AND MINUS	MINUS	PLUS
UP TO 6 INCL	5%	*5%	LIMITED ONLY
OVER 6 TO 8 INCL	7%	*7%	BY WEIGHT
OVER 8	8%	*8%	TOLERANCES
LENGTH TOLERANCES: STANDARD LENGTH 12 FEET PLUS AND MINUS 1/2".			
*EXPRESSED TO THE NEAREST 0.001".			
NOTE-THESE TOLERANCE SCHEDULES ARE USED BY THE INDUSTRY AS APPLICABLE TO COMMERCIAL MATERIAL, IN THE ABSENCE OF OTHER SPECIFICATION BY THE PURCHASER.			

**APPENDIX 3-3-A
SAMPLE OF FIG INFORMATION**

Table 5

ALUMINUM AND ALUMINUM ALLOY PIPE WALL DIMENSIONS

(EXTRACTED FROM ASTM B-241-49T)

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	NOMINAL WALL THICKNESS	
		STANDARD WALL	EXTRA HEAVY WALL
1/8	0.405	0.068	0.095
1/4	0.540	0.088	0.119
3/8	0.675	0.091	0.126
1/2	0.840	0.109	0.147
3/4	1.050	0.113	0.154
1	1.315	0.133	0.179
1-1/4	1.660	0.140	0.191
1-1/2	1.900	0.145	0.200
2	2.375	0.154	0.218
2-1/2	2.875	0.203	0.276
3	3.500	0.216	0.300
3-1/2	4.000	0.226	0.318
4	4.500	0.237	0.337
5	5.563	0.258	0.375
6	6.625	0.280	0.432
8	8.625	0.277	0.500
8	8.625	0.322	
10	10.750	0.279	0.500
10	10.750	0.307	
10	10.750	0.365	
12	12.750	0.330	0.500

NOTE-ITEMS CONFORMING TO THE ABOVE DIMENSIONS SHALL BE APPLICABLE TO "PIPE"; ALL OTHER DIMENSIONS SHALL BE APPLICABLE TO "TUBE."

APPENDIX 3-3-A
SAMPLE OF FIIG INFORMATION

Table 10

CAST IRON SOIL PIPE WALL DIMENSIONS

WALL THICKNESS TOLERANCE LISTED FOR CAST IRON SOIL PIPE IS EXPRESSED BY SERVICE WEIGHT AND EXTRA HEAVY WEIGHT.

NOMINAL SIZE	DECIMAL EQUIVALENT	<u>EXTRA HEAVY WEIGHT</u>		<u>SERVICE WEIGHT</u>	
		NOMINAL WALL THICKNESS	MINIMUM WALL THICKNESS	NOMINAL WALL THICKNESS	MINIMUM WALL THICKNESS
2 INCH	2.000	0.19	0.12	0.18	0.10
3 INCH	3.000	0.25	0.18	0.18	0.12
4 INCH	4.000	0.25	0.18	0.18	0.12
5 INCH	5.000	0.25	0.18	0.19	0.12
6 INCH	6.000	0.25	0.18	0.20	0.12
8 INCH	8.000	0.31	0.25	0.22	0.17
10 INCH	10.000	0.37	0.31	0.26	0.21
12 INCH	12.000	0.37	0.30	0.28	0.22
15 INCH	15.000	0.44	0.37	0.30	0.25

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG INFORMATION

FIIG A502H
EFFECTIVE DATE: 22 JUN 90

FEDERAL ITEM IDENTIFICATION GUIDE

ITEM NAME CODE

60948

RESISTOR (1), VARIABLE,
MOTOR DRIVEN

COMMANDER
DEFENSE ELECTRONICS SUPPLY CENTER
DEFENSE LOGISTICS AGENCY
ATTN: DESC-ELQD
DAYTON, OH 45444-5215
(COMM: (513)296-8559)
(DSN: 986-8559)

Published by Defense Logistics Services Center, Battle Creek, MI

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE }
INC 00000 } centered
SECTION 1 }

MRC CODE REQUIREMENT

1...5...0...1...5...0...2...5...0...3...5...0...4...5...0...5...0...6...5...0...7...5...0...7...7...8

NAME D ITEM NAME

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the item name code applicable to this FIG. (e.g., NAMED60948*)

AAPN A SECTION QUANTITY

Definition: THE NUMBER OF INDIVIDUAL ELEMENTS.

Reply Instructions: Enter the quantity of resistive elements. (e.g., AAPNA1*)

CYEG H RESISTANCE ELEMENT TYPE PER SECTION

Definition: INDICATES THE TYPE OF RESISTANCE ELEMENT AS DETERMINED BY ITS CONSTRUCTION PER SECTION.

Reply Instructions: Enter the applicable reply code from Appendix A, Table 1, followed by the applicable reply code from the table below. (e.g., CYEGHCND*)

For multi-sectioned items, the end by which the item is primarily mounted, shall be considered the first end section.

Enter the applicable reply code from Appendix A, Table 1, followed by the applicable reply code from the table below, using the AND condition (\$\$) to separate replies. (e.g., CYEGHCPB\$\$HCQD*)

<u>REPLY</u>	<u>CODE</u>	<u>REPLY (AE09)</u>
B		COMPOSITION
M		CONDUCTIVE PLASTIC
C		FILM
N		HYBRID
D		WIRE WOUND

CQCC J ELECTRICAL RESISTANCE PER SECTION

Definition: A MEASURE OF THE OPPOSITION TO THE FLOW OF DIRECT OR ALTERNATING CURRENT PER SECTION.

1...5...0...1...5...0...2...5...0...3...5...0...4...5...0...5...0...6...5...0...7...5...0...7...7...8

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
SECTION I } centered

MRC	CODE REQUIREMENT														
1 . . . 5	1	1	2	2	3	3	4	4	5	5	6	6	7	7	7
0 5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	8

Reply Instructions: Enter the applicable reply code from the table below, followed by the applicable reply code from Appendix A, Table 1, followed by the numeric value. (e.g., CQCCJKZCN100.0*; CQCCJZZCP250.0\$\$JKZCQ500.0*)

REPLY CODE	REPLY (AN86)
GZ	GIGOHMS
KZ	KILOHMS
MZ	MEGOHMS
ZZ	OHMS

CRSS J RESISTANCE TOLERANCE PER SECTION IN PERCENT

Definition: THE LIMITS OF PERMISSIBLE VARIATION IN THE ELECTRICAL RESISTANCE VALUE PER SECTION OF AN ITEM FROM ITS RATED VALUE, EXPRESSED IN PERCENT.

Reply Instructions: Enter tolerance as a percent. Where tolerance is given in ohms, convert to percentage as follows:

$$\frac{\text{Resistance Tolerance (Ohms)}}{\text{Rated Total Resistance (Ohms)}} \times 100.0$$

Enter the applicable reply code from Appendix A, Table 1, followed by the numeric value. (e.g., CRSSJCNM2.0/P20.0*; CRSSJCPM2.0/P2.0\$\$JCQM5.0/P5.0*)

CYEJ * H STANDARD TAPER CURVE PER SECTION

NOTE: Answer MRC CYEJ only on standard taper items (linearity greater than plus or minus percent) or when source data does not indicate linearity.

Definition: THE RATE OF CHANGE AND DISTRIBUTION OF RESISTANCE PER SECTION, IN RELATION TO THE ROTATION OF THE CONTROL SHAFT, WHICH ESTABLISHES A STANDARD TAPER CURVE DESIGNATED BY AN ALPHABETIC CHARACTER AND ACCEPTED FOR COMMON USAGE.

Reply Instructions: Enter the applicable reply code from Appendix A, Table 1, followed by the applicable reply code from the table below. (e.g., CYEJHCNAG*; CYEJHCPAG\$\$HCQFM*)

1 . . . 5	1	1	2	2	3	3	4	4	5	5	6	6	7	7	7
0 5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	8

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE }
INC 0000 } centered
SECTION 1 }

MRC CODE REQUIREMENT

1...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...8

<u>REPLY</u>	<u>CODE</u>	<u>REPLY (AF63)</u>
	AG	LINEAR
	FL	MODIFIED CCW LOGARITHMIC
	FM	MODIFIED CW LOGARITHMIC
	FN	MODIFIED LINEAR

CRGM * H FUNCTIONAL CONFORMITY PER SECTION

NOTE: Answer MRC CRGM only when the source data shows linearity as less than or equal to plus or minus 1 percent.

Definition: THE FIDELITY OF THE RELATIONSHIP BETWEEN THE ACTUAL FUNCTION CHARACTERISTICS AND THE THEORETICAL FUNCTION PER SECTION.

Reply Instructions: Enter the applicable reply code from Appendix A, Table 1, followed by the applicable reply code from the table below. (e.g., CRGMHCNB*; CRGMHCPB\$\$\$HCQF*)

<u>REPLY</u>	<u>CODE</u>	<u>REPLY (AC86)</u>
	F	ABSOLUTE CONFORMITY (nonlinear-wirewound and nonwirewound)
	E	ABSOLUTE LINEARITY (wirewound and nonwirewound)
	B	INDEPENDENT LINEARITY (wirewound and nonwirewound)
	G	PROPORTIONAL CONFORMITY (nonlinear-wirewound and nonwirewound)
	H	STEPPED CONFORMITY (nonlinear-wirewound and nonwirewound)
	D	TERMINAL BASE LINEARITY (wirewound only)
	C	ZERO BASED LINEARITY (wirewound only)

CQFL * J FUNCTIONAL CONFORMITY TOLERANCE PER SECTION

NOTE: Answer MRC CQFL only when the linearity is less than or equal to plus or minus 1 percent.

Definition: THE PERMISSIBLE RANGE PER SECTION BY WHICH THE ACTUAL VALUE OF RESISTANCE OR VOLTAGE AT ANY SPECIFIED POINT MAY DEVIATE FROM THE THEORETICAL VALUE FOR THE LINEAR OR NONLINEAR FUNCTION, EXPRESSED AS A MINUS AND PLUS PERCENT.

1...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...8

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE }
INC 00000 } centered
SECTION I }

MRC	CODE REQUIREMENT														
1 . . . 5	1	1	2	2	3	3	4	4	5	5	6	6	7	7	7
	0	5	0	5	0	5	0	5	0	5	0	5	0	5	8

Reply Instructions: Enter the applicable reply code from Appendix A, Table 1, followed by the numeric values separated by a slash. Precede values with a M for negative and a P for positive. (e.g., CQFLJCNM1.00/P1.00*; CQFLJCPM0.25/P0.25\$JCQM0.50/P0.50*)

CRGD J POWER DISSIPATION RATING PER SECTION IN WATTS

Definition: THE MAXIMUM AMOUNT OF ELECTRICAL ENERGY THAT CAN BE EXPENDED, PER SECTION, EXPRESSED IN WATTS.

Reply Instructions: Enter the applicable reply code from the table below, followed by the applicable reply code from Appendix A, Table 1, followed by the numeric value. (e.g., CRGDJBCN1.0*; CRGDJBPC3.0\$JBCQ5.0*)

If only one rating is given in the source data, and is not specified free air or heatsink, enter as free air.

REPLY	CODE	REPLY (AC89)
B		FREE AIR
C		HEATSINK

AAQL L BODY STYLE

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE BODY.

Reply Instructions: Enter the applicable style number from Appendix B, Reference Drawing Group A. (e.g., AAQLL1A*)

---- DIMENSIONS

The measurements of certain physical features of the body of an item such as length, width, height, depth, thickness, and others.

See Appendix B, Reference Drawing Group A, Index of Master Requirement Codes for the applicable MRCs and mode codes.

1 . . . 5	1	1	2	2	3	3	4	4	5	5	6	6	7	7	7
	0	5	0	5	0	5	0	5	0	5	0	5	0	5	8

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE }
INC 00000 } centered
SECTION 1 }

MRC	CODE REQUIREMENT															
1...5	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	7
	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5

AEDX L SHAFT STYLE

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE SHAFT.

Reply Instructions: Enter the applicable style number from Appendix B, Reference Drawing Group B. (e.g., AEDXL1B*)

---- - SHAFT DIMENSIONS

The measurements of certain physical features of a shaft such as length, diameter, undercut, etc.

See Appendix B, Reference Drawing Group B, Index of Master Requirement Codes for the applicable MRCs and mode codes.

AEFH * J EFFECTIVE ELECTRICAL ROTATION IN DEG ANGULAR ROTATION

Definition: THAT PART OF THE TOTAL ROTATIONAL TRAVEL OF THE ACTUATOR THAT PRODUCES A CHANGE IN OUTPUT, EXPRESSED IN DEGREE ANGULAR ROTATION.

Reply Instructions: Enter the applicable reply code from the table below, followed by the numeric value. Use the AND condition (\$\$) for minimum and maximum values. (e.g., AEFHJA360.0*; AEFHJB335.0\$\$JC360.0*)

REPLY	CODE	REPLY (AC20)
A		NOMINAL
B		MINIMUM
C		MAXIMUM

AXGY D MOUNTING METHOD

Definition: THE MEANS OF ATTACHING THE ITEM.

Reply Instructions: Enter the applicable reply from the table below. (e.g., AXGYDACX*)

For multiple mountings, use the AND condition (\$\$) to separate replies. (e.g., AXGYDACX\$\$DAGM*)

1...5	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	7
	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
SECTION I } centered

MRC CODE REQUIREMENT

1...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...8

REPLY CODE	REPLY (AM39)	APPLICABLE MRCS
ABC	BRACKET	
ACX	CLAMP RING	
ACR	FLANGE	
ABL	FRICTION	
AGM	LOCKING BUSHING	AJYP, AJYQ, AJYN
ABY	SLOT	AKPV, ABTD
ANF	SPRING CLIP	
AJN	STANDARD BUSHING	AJYP, AJYQ, AJYN
ACD	TERMINAL	
AHF	THREADED HOLE	AKPV, AJYP, AJYQ, AJYN
AET	THREADED STUD	AKPV, AJYP, AJYQ, AJYN, ADAG
ACQ	UNTHREADED HOLE	AKPV, ABTB

AKPV * A MOUNTING FACILITY QUANTITY

Definition: THE NUMBER OF MOUNTING FACILITIES PROVIDED.

Reply Instructions: Enter the numeric value. (e.g., AKPVA2*)

ABTB * J MOUNTING HOLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A MOUNTING HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable reply codes from Tables 1 and 2 below, followed by the numeric value. Use the AND condition (\$\$) for minimum and maximum values. (e.g., ABTBJAA0.125*; ABTBJLA25.4*; ABTBJAB0.120\$\$JAC0.129*)

Table 1

Table 2

REPLY CODE	REPLY (AA05)	REPLY CODE	REPLY (AC20)
A	INCHES	A	NOMINAL
L	MILLIMETERS	B	MINIMUM
		C	MAXIMUM

1...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...8

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
SECTION I } centered

MRC CODE REQUIREMENT

1...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...8

REPLY	CODE	REPLY (AH06)	APPLICABLE MRCS
JF		UNJF	AJYN, AJYQ
NM		UNM	AJYN, AJYQ
NS		UNS	AJYN, AJYQ

AJYN * J SCREW THREAD DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE PASSES THROUGH THE CENTER OF A COAXIAL CYLINDER WHICH WOULD BOUND THE CREST OF AN EXTERNAL THREAD OR THE ROOT OF AN INTERNAL THREAD.

Reply Instructions: Enter the applicable reply codes from Tables 1 and 2 below, followed by the numeric value. Use the AND condition (\$\$) for multiple holes and minimum and maximum values. (e.g., AJYNJAA0.250*; AJYNJLA25.4*; AJYNJAA0.190\$\$JAA0.250*; AJYNJAB0.125\$\$JAC0.250*)

Table 1		Table 2	
REPLY	CODE	REPLY (AA05)	REPLY (AC20)
A		INCHES	NOMINAL
L		MILLIMETERS	MINIMUM
			MAXIMUM

CQQR * B THREAD PITCH IN MILLIMETERS

Definition: A MEASUREMENT OF DISTANCE BETWEEN CORRESPONDING POINTS ON TWO ADJACENT THREADS MEASURED PARALLEL TO THE THREAD AXIS, EXPRESSED IN MILLIMETERS.

Reply Instructions: Enter the numeric value. (e.g., CQQRB1.25*; CQQRB1.25\$B1.50*)

1...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...8

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE }
INC 00000 } centered
SECTION 1 }

MRC CODE REQUIREMENT

1...5... 1 1 2 2 3 3 4 4 5 5 6 6 7 7 7
0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...8

AJYQ * B SCREW THREAD QUANTITY PER INCH

Definition: THE NUMBER OF SCREW THREADS ON THE ITEM PER LINEAR INCH MEASURED ON A LINE PARALLEL TO THE THREAD AXIS, INCLUDING INCOMPLETE THREADS.

Reply Instructions: Enter the thread quantity. (e.g., AJYQB32.0*; AJYQB24.0\$\$B32.0*)

ADAG * J MOUNTING STUD LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF THE MOUNTING STUD, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable reply codes from Tables 1 and 2 below, followed by the numeric value. Use the AND condition (\$\$) for minimum and maximum values. (e.g., ADAGJAA0.750*; ADAGJLA19.0*; ADAGJAB0.745\$\$JAC0.755*)

Table 1

REPLY	CODE	REPLY (AA05)
A		INCHES
L		MILLIMETERS

Table 2

REPLY	CODE	REPLY (AC20)
A		NOMINAL
B		MINIMUM
C		MAXIMUM

CBBL * D FEATURES PROVIDED

Definition: THOSE FEATURES, NOT OTHERWISE SPECIFIED, WHICH MAY BE REQUIRED FOR PROPER FUNCTIONING OF THE ITEM.

Reply Instructions: Enter the applicable reply code from the table below. Use the AND condition (\$\$) for multiple replies. (e.g., CBBLDAAR*; CBBLDASF\$\$DCNW*)

1...5... 1 1 2 2 3 3 4 4 5 5 6 6 7 7 7
0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...8

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE }
INC 00000 } centered
SECTION I }

MRC CODE REQUIREMENT

1...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...8

REPLY CODE	REPLY (MA01)
AUA000	GOLD
IRA000	IRIDIUM
AZA000	OSMIUM
PDA000	PALLADIUM
PTA000	PLATINUM
RHA000	RHODIUM
RTA000	RUTHENIUM
AGA000	SILVER

FEAT * G SPECIAL FEATURES

Definition: THOSE UNUSUAL OR UNIQUE CHARACTERISTICS OR QUALITIES OF AN ITEM NOT COVERED IN THE OTHER REQUIREMENTS AND WHICH ARE DETERMINED TO BE ESSENTIAL FOR IDENTIFICATION.

Reply Instructions: Enter the reply in clear text. (e.g., FEATGQUALITY CONTROLLED*)

TEST * J TEST DATA DOCUMENT

Definition: THE SPECIFICATION, STANDARD, DRAWING, OR SIMILAR INSTRUMENT THAT SPECIFIES ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS OR TEST CONDITIONS UNDER WHICH AN ITEM IS TESTED AND ESTABLISHES ACCEPTABLE LIMITS WITHIN WHICH THE ITEM MUST CONFORM IDENTIFIED BY AN ALPHABETIC AND/OR NUMERIC REFERENCE NUMBER. INCLUDES THE COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE OF THE ENTITY CONTROLLING THE INSTRUMENT.

Reply Instructions: Enter the applicable reply code from the table below, followed by the 5-position CAGE code, a dash, and the document identification number. (e.g., TESTJA12345-CWX654321*; TESTJA12345-654321\$JB55566-663654*; TESTJA12345-654321\$JB55566-663654*)

1...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...8

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE }
INC 00000 } centered
SECTION 1 }

MRC CODE REQUIREMENT

1 . . . 5 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 7 8

<u>REPLY</u>	<u>CODE</u>	<u>REPLY (AC28)</u>
A		SPECIFICATION (includes engineering type bulletins, brochures, etc., that reflect specification type data in specification format; excludes commercial catalogs, industry directories, and similar trade publications, reflecting general type data on certain environmental and performance requirements and test conditions that are shown as "typical," "average," "nominal," etc.)
B		STANDARD (includes industry or association standards, individual manufacturer standards, etc.)
C		DRAWING (this is the basic governing drawing, such as a contractor drawing, original equipment manufacturer drawing, etc.; excludes any specification, standard, or other document that may be referenced in a basic governing drawing.)

ZZZK * J SPECIFICATION/STANDARD DATA

Definition: THE DOCUMENT DESIGNATOR OF THE SPECIFICATION OR STANDARD WHICH ESTABLISHED THE ITEM OF SUPPLY.

Reply Instructions: Enter the applicable reply code from the table below, followed by the Commercial and Government Entity (CAGE) Code of the entity controlling the document, a dash, and the document designator. The agency that controls the limited coordination document must be preceded and followed by a slash following the designator. The word canceled or superseded must be preceded and followed by a slash for the designator. Professional and industrial association specifications/standards are differentiated from a manufacturer's specification in that the data has been coordinated and published by the professional and industrial association. Include amendments and revisions where applicable.
(e.g., ZZZKJT81337-30642B*; ZZZKJS81349-MIL-D-180 REV1/CANCELED/*; ZZZKJP80205-NAS1103*;
ZZZKJS81349-MIL-C-1140C/CE/*; ZZZKJT81337-30642B\$\$JB80205-NAS1103*)

1 . . . 5 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 7 8

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE }
INC 00000 } centered
SECTION 1 }

MRC	CODE REQUIREMENT																
1 . . . 5	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	7	8

CRTL * A CRITICALITY CODE JUSTIFICATION

Definition: THE MASTER REQUIREMENT CODES OF THOSE REQUIREMENTS WHICH ARE TECHNICALLY CRITICAL BY REASON OF TOLERANCE, FIT, PERFORMANCE, OR OTHER CHARACTERISTICS WHICH AFFECT IDENTIFICATION OF THE ITEM.

Reply Instructions: Enter the master requirement code for the requirement, the reply to which renders the item as being critical. (e.g., CRTLAMATL*; CRTLAMATL\$\$ASURF*)

Reply to this requirement only if the header record for the item identification for the item being identified has been coded as critical.

PRPY * A PROPRIETARY CHARACTERISTICS

NOTE: If document availability code is B, D, F or H, reply to MRC PRPY.

Definition: IDENTIFICATION OF THOSE CHARACTERISTICS INCLUDED IN THE DESCRIPTION FOR WHICH A NON-GOVERNMENT ACTIVITY HAS IDENTIFIED ALL OR SELECTED CHARACTERISTICS OF THE ITEM AS BEING PROPRIETARY AND THEREFORE RESTRICTED FROM RELEASE OUTSIDE THE GOVERNMENT WITHOUT PRIOR PERMISSION OF THE ORIGINATOR OF THE DATA.

Reply Instructions: Enter the MRC codes of the individual characteristics of the description which are marked proprietary on the technical data using AND coding (\$\$) for multiple characteristics. If all the MRCs are proprietary, enter the reply PACS. If none of the MRCs are proprietary, enter the reply NPAC. (e.g., PRPYAPACS*; PRPYANPAC*; PRPYAMATL\$\$ASURF*)

ELRN * G EXTRA LONG REFERENCE NUMBER

Definition: A REFERENCE NUMBER EXCEEDING 32 POSITIONS.

Reply Instructions: Enter the entire reference number. Do not include the 5-position Commercial and Government Entity (CAGE) Code. (e.g., ELRNGANN112036BIL060557LEN0313605UZ062365*)

In determining quantity of characters in the reference number, count will be made after modification in accordance with Volume 2, Chapter 9, FLIS Procedures Manual, DoD 4100.39-M.

1 . . . 5	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	7	8
---------------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	---

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE }
INC 00000 } centered
SECTION I }

MRC	CODE REQUIREMENT																																											
1...5	0	1	5	0	1	5	0	2	5	0	2	5	0	3	5	0	3	5	0	4	5	0	4	5	0	5	5	0	6	5	0	6	5	0	7	5	0	7	5	0	7	5	0	8

CLQL * G COLLOQUIAL NAME

Definition: A COMMON USAGE NAME BY WHICH AN ITEM IS KNOWN.

Reply Instructions: Enter the reply in clear text. (e.g., CLQLGWOVEN WIRE CLOTH*)

AGAV * G END ITEM IDENTIFICATION

Definition: THE NATIONAL STOCK NUMBER OR THE IDENTIFICATION INFORMATION OF THE END EQUIPMENT FOR WHICH THE ITEM IS A PART.

Reply Instructions: Enter the applicable reply in clear text. (e.g., AGAVG3930-00-000-0000*; AGAVGFORKLIFT TRUCK, SMITH CORPORATION, MODEL 12, TYPE A*)

1...5	0	1	5	0	1	5	0	2	5	0	2	5	0	3	5	0	3	5	0	4	5	0	4	5	0	5	5	0	6	5	0	6	5	0	7	5	0	7	5	0	7	5	0	8
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE }
INC 00000 } centered
APPENDIX A }

1...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...8

Table 1

SECTION SEQUENCE

<u>REPLY</u>	<u>CODE</u>	<u>REPLY (AH19)</u>
	CN	SINGLE SECTION
	CM	ALL SECTIONS
	CP	1ST SECTION
	CQ	2ND SECTION
	CR	3RD SECTION
	CS	4TH SECTION
	CT	5TH SECTION
	CW	6TH SECTION
	CX	7TH SECTION
	CY	8TH SECTION
	CZ	9TH SECTION
	DA	10TH SECTION
	EM	11TH SECTION
	EN	12TH SECTION
	EP	13TH SECTION
	EQ	14TH SECTION
	ER	15TH SECTION

1...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...8

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX A

centered

1...5...0...1...5...0...2...5...0...3...5...0...4...5...0...5...0...6...5...0...7...5...0...7...7...8

- TM ITEM
- KD KIND
- KT KIT
- LG LENGTH
- LT LIMIT
- MK MARK
- ML MATERIAL
- MH MESH
- ME METHOD
- MD MODEL
- MT MOUNTING
- NR NUMBER
- PT PART
- PN PATTERN
- PC PHYSICAL CONDITION
- PS PIECE
- PL PLAN
- PR POINT
- QA QUALITY
- RN RANGE
- RT RATING
- RF REFERENCE NUMBER
- SC SCHEDULE
- SB SECTION
- SL SELECTION
- SE SERIES
- SV SERVICE
- SX SET
- SA SHADE
- SH SHAPE
- SG SHEET
- SZ SIZE
- PZ SPECIES
- SQ SPECIFICATION SHEET
- SD SPEED
- ST STYLE
- SS SUBCLASS
- SF SUBFORM
- SP SUBTYPE

1...5...0...1...5...0...2...5...0...3...5...0...4...5...0...5...0...6...5...0...7...5...0...7...7...8

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE }
INC 00000 } centered
APPENDIX A }

1...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...8

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1...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...8

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE }
INC 00000 } centered
APPENDIX B }

INDEX TO APPENDIX B

1...5...0...1...5...2...5...3...5...4...5...5...6...6...7...7...7
1...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...8

Page No.

REFERENCE DRAWINGS

Group A - BODY STYLES

24 And 24.3

1...5...0...1...5...2...5...3...5...4...5...5...6...6...7...7...7
1...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...0...5...8

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE }
INC 00000 } centered
APPENDIX B }

1 . . . 5 1 . . . 1 . . . 2 . . . 2 . . . 3 . . . 3 . . . 4 . . . 4 . . . 5 . . . 5 . . . 6 . . . 6 . . . 7 . . . 7 . . . 7 . . . 8

REFERENCE DRAWING GROUP A

INDEX OF MASTER REQUIREMENT CODES

BODY STYLES

The center of the shaft is the reference point for determining the radius of the mounting facilities.

Reply only to those dimensions which are applicable to the style being identified.

Enter the applicable reply codes from Tables 1 and 2 below, followed by the numeric value to the nearest three decimal places. (e.g., ABPMJAA0.750*; ABPMJAB0.700\$\$JAC0.750*; ABPMJLA25.4*)

Table 1

Table 2

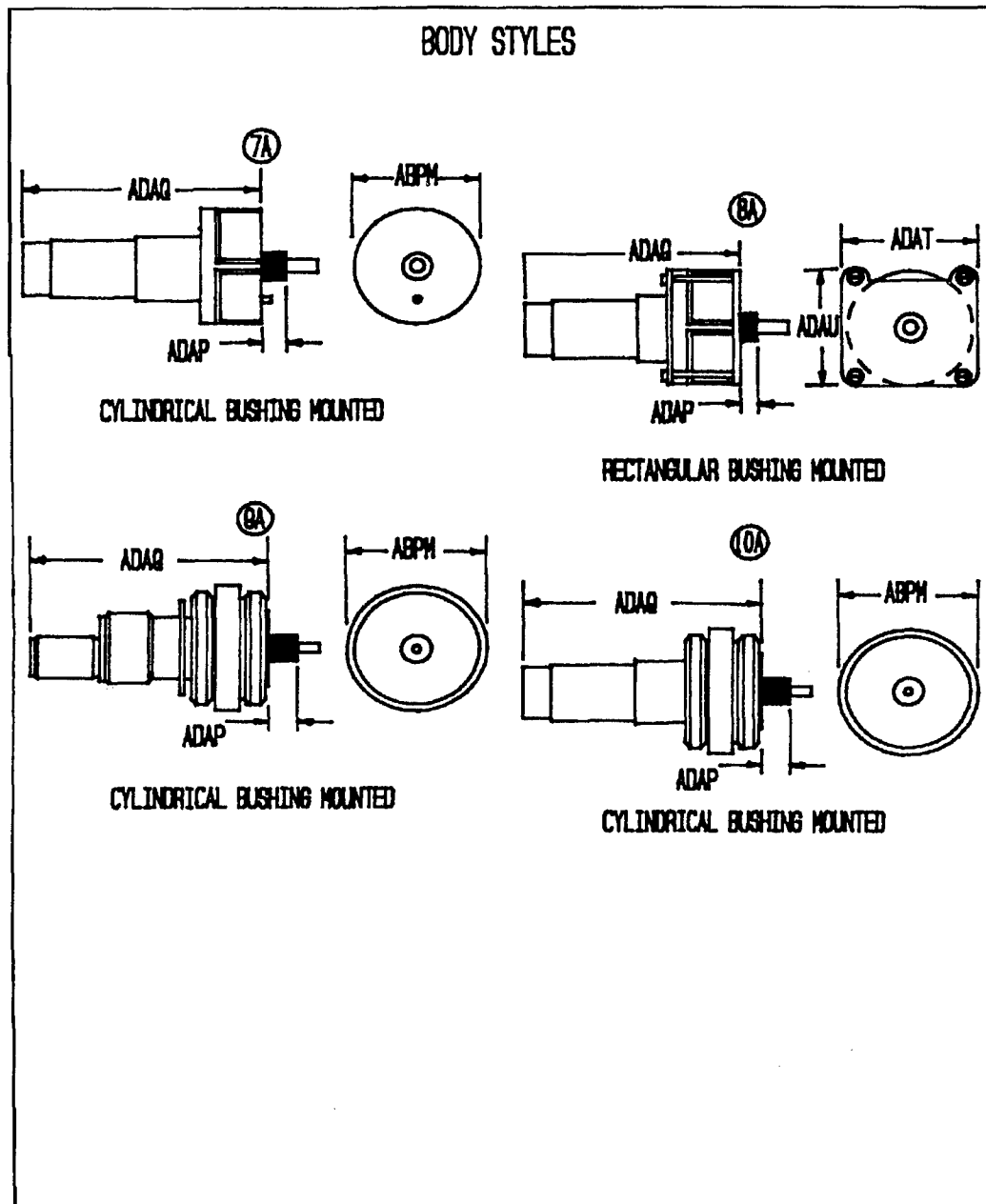
<u>REPLY</u>	<u>CODE</u>	<u>REPLY (AA05)</u>	<u>REPLY</u>	<u>CODE</u>	<u>REPLY (AC20)</u>
A		INCHES	A		NOMINAL
L		MILLIMETERS	B		MINIMUM
			C		MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ABPM	J	BODY DIAMETER
ADAP	J	MOUNTING BUSHING LENGTH
ADAQ	J	BODY LENGTH
ADAT	J	BODY WIDTH
ADAU	J	BODY HEIGHT

1 . . . 5 1 . . . 1 . . . 2 . . . 2 . . . 3 . . . 3 . . . 4 . . . 4 . . . 5 . . . 5 . . . 6 . . . 6 . . . 7 . . . 7 . . . 7 . . . 8

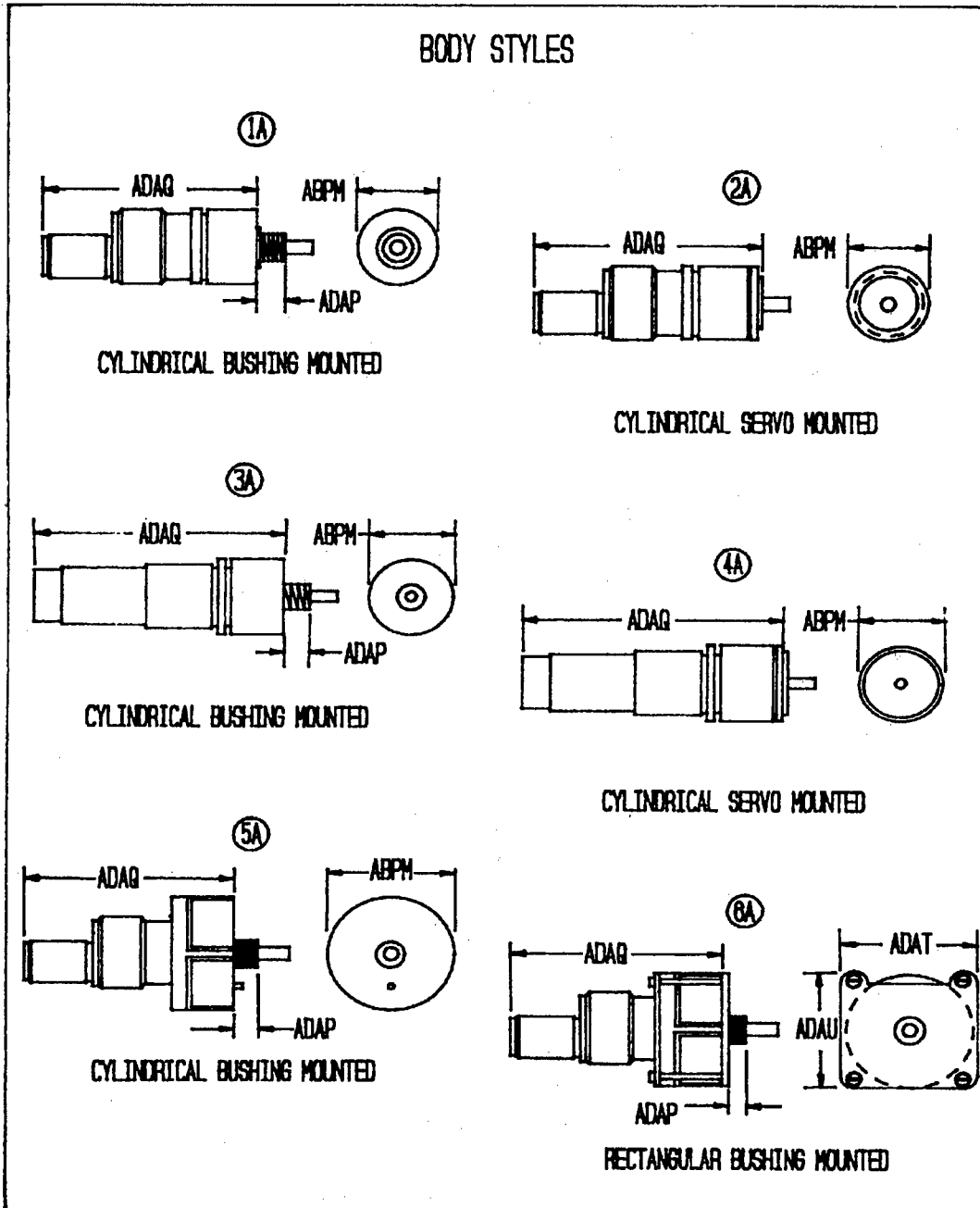
APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX B
REFERENCE DRAWING GROUP A



APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX B
REFERENCE DRAWING GROUP A



APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

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APPENDIX 3-3-B
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FIIG SAMPLE
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APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 1

KINEMATIC VISCOSITY TO SAYBOLT UNIVERSAL VISCOSITY

The values of Saybolt Viscosity at 100 ° F and at 210 ° F are extracted from American Society for Testing and Materials (ASTM)-Viscosity Conversions (D2161)-Part 17-1965 with the permission of the publishers, American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pennsylvania.

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
			1.98	32.55	32.78	2.21	33.38	33.61
			1.99	32.59	32.82	2.22	33.42	33.65
1.77	----	32.02	2.00	32.62	32.85	2.23	33.45	33.69
1.78	----	32.05	2.01	32.66	32.89	2.24	33.49	33.72
1.79	----	32.09	2.02	32.70	32.92	2.25	33.52	33.76
1.80	----	32.13	2.03	32.73	32.96	2.26	33.56	33.80
1.81	----	32.16	2.04	32.77	33.00	2.27	33.60	33.83
1.82	----	32.20	2.05	32.80	33.03	2.28	33.63	33.87
1.83	32.01	32.23	2.06	32.84	33.07	2.29	33.67	33.90
1.84	32.05	32.27	2.07	32.88	33.11	2.30	33.70	33.94
1.85	32.08	32.31	2.08	32.91	33.14	2.31	33.74	33.98
1.86	32.12	32.34	2.09	32.95	33.18	2.32	33.78	34.01
1.87	32.15	32.38	2.10	32.98	33.21	2.33	33.81	34.05
1.88	32.19	32.42	2.11	33.02	33.25	2.34	33.85	34.09
1.89	32.23	32.45	2.12	33.06	33.29	2.35	33.88	34.12
1.90	32.26	32.49	2.13	33.09	33.32	2.36	33.92	34.16
1.91	32.30	32.52	2.14	33.13	33.36	2.37	33.96	34.19
1.92	32.33	32.56	2.15	33.16	33.40	2.38	33.99	34.23
1.93	32.37	32.60	2.16	33.20	33.43	2.39	34.03	34.27
1.94	32.41	32.63	2.17	33.24	33.47	2.40	34.06	34.30
1.95	32.44	32.67	2.18	33.27	33.50	2.41	34.10	34.34
1.96	32.48	32.71	2.19	33.31	33.54	2.42	34.14	34.38
1.97	32.51	32.74	2.20	33.34	33.58	2.43	34.17	34.41

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
2.44	34.21	34.45	2.73	35.16	35.41	3.02	36.09	36.35
2.45	34.25	34.48	2.74	35.20	35.44	3.03	36.13	36.38
2.46	34.28	34.52	2.75	35.23	35.47	3.04	36.16	36.41
2.47	34.32	34.56	2.76	35.26	35.51	3.05	36.19	36.44
2.48	34.35	34.59	2.77	35.29	35.54	3.06	36.22	36.48
2.49	34.39	34.63	2.78	35.32	35.57	3.07	36.25	36.51
2.50	34.43	34.67	2.79	35.36	35.60	3.08	36.29	36.54
2.51	34.46	34.70	2.80	35.39	35.64	3.09	36.32	36.57
2.52	34.49	34.73	2.81	35.42	35.67	3.10	36.35	36.60
2.53	34.52	34.76	2.82	35.45	35.70	3.11	36.38	36.64
2.54	34.55	34.80	2.83	35.48	35.73	3.12	36.41	36.67
2.55	34.59	34.83	2.84	35.52	35.76	3.13	36.45	36.70
2.56	34.62	34.86	2.85	35.55	35.80	3.14	36.48	36.73
2.57	34.65	34.89	2.86	35.58	35.83	3.15	36.51	36.77
2.58	34.68	34.92	2.87	35.61	35.86	3.16	36.54	36.80
2.59	34.71	34.96	2.88	35.64	35.89	3.17	36.57	36.83
2.60	34.75	34.99	2.89	35.68	35.93	3.18	36.61	36.86
2.61	34.78	35.02	2.90	35.71	35.96	3.19	36.64	36.90
2.62	34.81	35.05	2.91	35.74	35.99	3.20	36.67	36.93
2.63	34.84	35.09	2.92	35.77	36.02	3.21	36.70	36.96
2.64	34.87	35.12	2.93	35.80	36.06	3.22	36.74	36.99
2.65	34.91	35.15	2.94	35.84	36.09	3.23	36.77	37.02
2.66	34.94	35.18	2.95	35.87	36.12	3.24	36.80	37.06
2.67	34.97	35.22	2.96	35.90	36.15	3.25	36.83	37.09
2.68	35.00	35.25	2.97	35.93	36.18	3.26	36.86	37.12
2.69	35.03	35.28	2.98	35.97	36.22	3.27	36.90	37.15
2.70	35.07	35.31	2.99	36.00	36.25	3.28	36.93	37.19
2.71	35.10	35.34	3.00	36.03	36.28	3.29	36.96	37.22
2.72	35.13	35.38	3.01	36.06	36.31	3.30	36.99	37.25

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
3.31	37.02	37.28	3.60	37.93	38.20	3.89	38.81	39.08
3.32	37.06	37.32	3.61	37.97	38.23	3.90	38.84	39.11
3.33	37.09	37.35	3.62	38.00	38.26	3.91	38.87	39.14
3.34	37.12	37.38	3.63	38.03	38.29	3.92	38.90	39.17
3.35	37.15	37.41	3.64	38.06	38.32	3.93	38.93	39.20
3.36	37.18	37.44	3.65	38.09	38.35	3.94	38.96	39.23
3.37	37.22	37.48	3.66	38.12	38.38	3.95	38.99	39.26
3.38	37.25	37.51	3.67	38.15	38.41	3.96	39.02	39.29
3.39	37.28	37.54	3.68	38.18	38.44	3.97	39.05	39.32
3.40	37.31	37.57	3.69	38.21	38.47	3.98	39.08	39.35
3.41	37.34	37.61	3.70	38.24	38.50	3.99	39.11	39.38
3.42	37.38	37.64	3.71	38.27	38.53	4.00	39.14	39.41
3.43	37.41	37.67	3.72	38.30	38.56	4.01	39.17	39.45
3.44	37.44	37.70	3.73	38.33	38.60	4.02	39.20	39.48
3.45	37.47	37.74	3.74	38.36	38.63	4.03	39.24	39.51
3.46	37.51	37.77	3.75	38.39	38.66	4.04	39.27	39.54
3.47	37.54	37.80	3.76	38.42	38.69	4.05	39.30	39.58
3.48	37.57	37.83	3.77	38.45	38.72	4.06	39.33	39.61
3.49	37.60	37.86	3.78	38.48	38.75	4.07	39.37	39.64
3.50	37.63	37.90	3.79	38.51	38.78	4.08	39.40	39.67
3.51	37.66	37.93	3.80	38.54	38.81	4.09	39.43	39.71
3.52	37.69	37.96	3.81	38.57	38.84	4.10	39.46	39.74
3.53	37.72	37.99	3.82	38.60	38.87	4.11	39.49	39.77
3.54	37.75	38.02	3.83	38.63	38.90	4.12	39.53	39.80
3.55	37.78	38.05	3.84	38.66	38.93	4.13	39.56	39.84
3.56	37.81	38.08	3.85	38.69	38.96	4.14	39.59	39.87
3.57	37.84	38.11	3.86	38.72	38.99	4.15	39.62	39.90
3.58	37.87	38.14	3.87	38.75	39.02	4.16	39.65	39.93
3.59	37.90	38.17	3.88	38.78	39.05	4.17	39.69	39.96

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
4.18	39.72	40.00	4.47	40.65	40.93	4.76	41.58	41.87
4.19	39.75	40.03	4.48	40.68	40.97	4.77	41.61	41.90
4.20	39.78	40.06	4.49	40.71	41.00	4.78	41.65	41.94
4.21	39.81	40.09	4.50	40.75	41.03	4.79	41.68	41.97
4.22	39.85	40.13	4.51	40.78	41.06	4.80	41.71	42.00
4.23	39.88	40.16	4.52	40.81	41.10	4.81	41.74	42.03
4.24	39.91	40.19	4.53	40.84	41.13	4.82	41.77	42.07
4.25	39.94	40.22	4.54	40.87	41.16	4.83	41.81	42.10
4.26	39.98	40.26	4.55	40.91	41.19	4.84	41.84	42.13
4.27	40.01	40.29	4.56	40.94	41.23	4.85	41.87	42.16
4.28	40.04	40.32	4.57	40.97	41.26	4.86	41.90	42.20
4.29	40.07	40.35	4.58	41.00	41.29	4.87	41.93	42.23
4.30	40.10	40.38	4.59	41.04	41.32	4.88	41.97	42.26
4.31	40.14	40.42	4.60	41.07	41.35	4.89	42.00	42.29
4.32	40.17	40.45	4.61	41.10	41.39	4.90	42.03	42.32
4.33	40.20	40.48	4.62	41.13	41.42	4.91	42.06	42.36
4.34	40.23	40.51	4.63	41.16	41.45	4.92	42.09	42.39
4.35	40.26	40.55	4.64	41.20	41.48	4.93	42.13	42.42
4.36	40.30	40.58	4.65	41.23	41.52	4.94	42.16	42.45
4.37	40.33	40.61	4.66	41.26	41.55	4.95	42.19	42.49
4.38	40.36	40.64	4.67	41.29	41.58	4.96	42.22	42.52
4.39	40.39	40.68	4.68	41.32	41.61	4.97	42.26	42.55
4.40	40.43	40.71	4.69	41.36	41.65	4.98	42.29	42.58
4.41	40.46	40.74	4.70	41.39	41.68	4.99	42.32	42.62
4.42	40.49	40.77	4.71	41.42	41.71	5.00	42.35	42.65
4.43	40.52	40.81	4.72	41.45	41.74	5.01	42.38	42.68
4.44	40.55	40.84	4.73	41.48	41.78	5.02	42.42	42.71
4.45	40.59	40.87	4.74	41.52	41.81	5.03	42.45	42.75
4.46	40.62	40.90	4.75	41.55	41.84	5.04	42.48	42.78

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
5.05	42.51	42.81	5.34	43.44	43.75	5.63	44.37	44.69
5.06	42.54	42.84	5.35	43.48	43.78	5.64	44.41	44.72
5.07	42.58	42.87	5.36	43.51	43.81	5.65	44.44	44.75
5.08	42.61	42.91	5.37	43.54	43.84	5.66	44.47	44.78
5.09	42.64	42.94	5.38	43.57	43.88	5.67	44.50	44.81
5.10	42.67	42.97	5.39	43.60	43.91	5.68	44.54	44.85
5.11	42.70	43.00	5.40	43.64	43.94	5.69	44.57	44.88
5.12	42.74	43.04	5.41	43.67	43.97	5.70	44.60	44.91
5.13	42.77	43.07	5.42	43.70	44.01	5.71	44.63	44.94
5.14	42.80	43.10	5.43	43.73	44.04	5.72	44.66	44.98
5.15	42.83	43.13	5.44	43.76	44.07	5.73	44.70	45.01
5.16	42.87	43.17	5.45	43.80	44.10	5.74	44.73	45.04
5.17	42.90	43.20	5.46	43.83	44.14	5.75	44.76	45.07
5.18	42.93	43.23	5.47	43.86	44.17	5.76	44.79	45.11
5.19	42.96	43.26	5.48	43.89	44.20	5.77	44.82	45.14
5.20	42.99	43.29	5.49	43.92	44.23	5.78	44.86	45.17
5.21	43.03	43.33	5.50	43.96	44.26	5.79	44.89	45.20
5.22	43.06	43.36	5.51	43.99	44.30	5.80	44.92	45.23
5.23	43.09	43.39	5.52	44.02	44.33	5.81	44.95	45.27
5.24	43.12	43.42	5.53	44.05	44.36	5.82	44.98	45.30
5.25	43.15	43.46	5.54	44.09	44.39	5.83	45.02	45.33
5.26	43.19	43.49	5.55	44.12	44.43	5.84	45.05	45.36
5.27	43.22	43.52	5.56	44.15	44.46	5.85	45.08	45.40
5.28	43.25	43.55	5.57	44.18	44.49	5.86	45.11	45.43
5.29	43.28	43.59	5.58	44.21	44.52	5.87	45.15	45.46
5.30	43.31	43.62	5.59	44.25	44.56	5.88	45.18	45.49
5.31	43.35	43.65	5.60	44.28	44.59	5.89	45.21	45.53
5.32	43.38	43.68	5.61	44.31	44.62	5.90	45.24	45.56
5.33	43.41	43.72	5.62	44.34	44.65	5.91	45.27	45.59

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 0000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
5.92	45.31	45.62	6.21	46.24	46.56	6.50	47.17	47.50
5.93	45.34	45.66	6.22	46.27	46.59	6.51	47.20	47.53
5.94	45.37	45.69	6.23	46.30	46.63	6.52	47.23	47.56
5.95	45.40	45.72	6.24	46.33	46.66	6.53	47.26	47.60
5.96	45.43	45.75	6.25	46.37	46.69	6.54	47.30	47.63
5.97	45.37	45.78	6.26	46.40	46.72	6.55	47.33	47.66
5.98	45.40	45.82	6.27	46.43	46.75	6.56	47.36	47.69
5.99	45.53	45.85	6.28	46.46	46.79	6.57	47.39	47.72
6.00	45.46	45.88	6.29	46.49	46.82	6.58	47.42	47.76
6.01	45.59	45.91	6.30	46.53	46.85	6.59	47.46	47.79
6.02	45.63	45.95	6.31	46.56	46.88	6.60	47.49	47.82
6.03	45.66	45.98	6.32	46.59	46.92	6.61	47.52	47.85
6.04	45.69	46.01	6.33	46.62	46.95	6.62	47.55	47.89
6.05	45.72	46.04	6.34	46.65	46.98	6.63	47.59	47.92
6.06	45.76	46.08	6.35	46.69	47.01	6.64	47.62	47.95
6.07	45.79	46.11	6.36	46.72	47.05	6.65	47.65	47.98
6.08	45.82	46.14	6.37	46.75	47.08	6.66	47.68	48.02
6.09	45.85	46.17	6.38	46.78	47.11	6.67	47.71	48.05
6.10	45.88	46.20	6.39	46.81	47.14	6.68	47.75	48.08
6.11	45.92	46.24	6.40	46.85	47.17	6.69	47.78	48.11
6.12	45.95	46.27	6.41	46.88	47.21	6.70	47.81	48.14
6.13	45.98	46.30	6.42	46.93	47.24	6.71	47.84	48.18
6.14	46.01	46.33	6.43	46.94	47.27	6.72	47.87	48.21
6.15	46.04	46.37	6.44	46.98	47.30	6.73	47.91	48.24
6.16	46.08	46.40	6.45	47.01	47.34	6.74	47.94	48.27
6.17	46.11	46.43	6.46	47.04	47.37	6.75	47.97	48.31
6.18	46.14	46.46	6.47	47.07	47.40	6.76	48.00	48.34
6.19	46.17	46.50	6.48	47.10	47.43	6.77	48.03	48.37
6.20	46.20	46.53	6.49	47.14	47.47	6.78	48.07	48.40

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
6.79	48.10	48.44	7.08	49.04	49.38	7.37	50.00	50.35
6.80	48.13	48.47	7.09	49.07	49.42	7.38	50.03	50.38
6.81	48.16	48.50	7.10	49.10	49.45	7.39	50.07	50.42
6.82	48.20	48.53	7.11	49.14	49.48	7.40	50.10	50.45
6.83	48.23	48.57	7.12	49.17	49.52	7.41	50.13	50.48
6.84	48.26	48.60	7.13	49.20	49.55	7.42	50.16	50.52
6.85	48.29	48.63	7.14	49.24	49.58	7.43	50.20	50.55
6.86	48.32	48.66	7.15	49.27	49.62	7.44	50.23	50.58
6.87	48.36	48.69	7.16	49.30	49.65	7.45	50.26	50.62
6.88	48.39	48.73	7.17	49.34	49.68	7.46	50.30	50.65
6.89	48.52	48.76	7.18	49.37	49.72	7.47	50.33	50.68
6.90	48.45	48.79	7.19	49.40	49.75	7.48	50.36	50.72
6.91	48.48	48.82	7.20	49.44	49.78	7.49	50.40	50.75
6.92	48.52	48.86	7.21	49.47	49.82	7.50	50.43	50.78
6.93	48.55	48.89	7.22	49.50	49.85	7.51	50.46	50.82
6.94	48.58	48.92	7.23	49.54	49.88	7.52	50.50	50.85
6.95	48.61	48.95	7.24	49.57	49.92	7.53	50.53	50.88
6.96	48.64	48.99	7.25	49.60	49.95	7.54	50.56	50.92
6.97	48.68	49.02	7.26	49.63	49.98	7.55	50.60	50.95
6.98	48.71	49.05	7.27	49.67	50.02	7.56	50.63	50.98
6.99	48.74	49.08	7.28	49.70	50.05	7.57	60.66	51.02
7.00	48.77	49.11	7.29	49.73	50.08	7.58	50.69	51.05
7.01	48.81	49.15	7.30	49.77	50.12	7.59	50.73	51.08
7.02	48.84	49.18	7.31	49.80	50.15	7.60	50.76	51.12
7.03	48.87	49.21	7.32	49.83	50.18	7.61	50.79	51.15
7.04	48.91	49.25	7.33	49.87	50.22	7.62	50.83	51.18
7.05	48.94	49.28	7.34	49.90	50.25	7.63	50.86	51.22
7.06	48.97	49.32	7.35	49.93	50.28	7.64	50.89	51.25
7.07	49.01	49.35	7.36	49.97	50.32	7.65	50.93	51.28

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
7.66	50.96	51.32	7.95	51.92	52.28	8.24	52.91	53.28
7.67	50.99	51.35	7.96	51.95	52.32	8.25	52.94	53.31
7.68	51.03	51.38	7.97	51.99	52.35	8.26	52.97	53.34
7.69	51.06	51.42	7.98	52.02	52.38	8.27	53.01	53.38
7.70	51.09	51.45	7.99	52.05	52.42	8.28	53.04	53.41
7.71	51.13	51.48	8.00	52.09	52.45	8.29	53.08	53.45
7.72	51.16	51.52	8.01	52.12	52.49	8.30	53.11	53.48
7.73	51.19	51.55	8.02	52.15	52.52	8.31	53.14	53.52
7.74	51.23	51.58	8.03	52.19	52.55	8.32	53.18	53.55
7.75	51.26	51.62	8.04	52.22	52.59	8.33	53.21	53.59
7.76	51.29	51.65	8.05	52.26	52.62	8.34	53.25	53.62
7.77	51.32	51.68	8.06	52.29	52.66	8.35	53.28	53.65
7.78	51.36	51.72	8.07	52.33	52.69	8.36	53.31	53.69
7.79	51.39	51.75	8.08	52.36	52.73	8.37	53.35	53.72
7.80	51.42	51.78	8.09	52.39	52.76	8.38	53.38	53.76
7.81	51.46	51.82	8.10	52.43	52.79	8.39	53.42	53.79
7.82	51.49	51.85	8.11	52.46	52.83	8.40	53.45	53.83
7.83	51.52	51.88	8.12	52.50	52.86	8.41	53.49	53.86
7.84	51.56	51.92	8.13	52.53	52.90	8.42	53.52	53.89
7.85	51.59	51.95	8.14	52.56	52.93	8.43	53.55	53.93
7.86	51.62	51.98	8.15	52.60	52.97	8.44	53.59	53.96
7.87	51.66	52.02	8.16	52.63	53.00	8.45	53.62	54.00
7.88	51.69	52.05	8.17	52.67	53.04	8.46	53.66	54.03
7.89	51.72	52.08	8.18	52.70	53.07	8.47	53.69	54.07
7.90	51.76	52.12	8.19	52.73	53.10	8.48	53.72	54.10
7.91	51.79	52.15	8.20	52.77	53.14	8.49	53.76	54.13
7.92	51.82	52.18	8.21	52.80	53.17	8.50	53.79	54.17
7.93	51.85	52.22	8.22	52.84	53.21	8.51	53.83	54.20
7.94	51.89	52.25	8.23	52.87	53.24	8.52	53.86	54.24

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
8.53	53.90	54.27	8.82	54.88	55.27	9.11	55.87	56.27
8.54	53.93	54.31	8.83	54.92	55.30	9.12	55.91	56.30
8.55	53.96	54.34	8.84	54.95	55.34	9.13	55.94	56.33
8.56	54.00	54.38	8.85	54.99	55.37	9.14	55.98	56.37
8.57	54.03	54.41	8.86	55.02	55.41	9.15	56.01	56.40
8.58	54.07	54.44	8.87	55.06	55.44	9.16	56.04	56.44
8.59	54.10	54.48	8.88	55.09	55.48	9.17	56.08	56.47
8.60	54.13	54.51	8.89	55.12	55.51	9.18	56.11	56.51
8.61	54.17	54.55	8.90	55.16	55.54	9.19	56.15	56.54
8.62	54.20	54.58	8.91	55.19	55.58	9.20	56.18	56.57
8.63	54.24	54.62	8.92	55.23	55.61	9.21	56.22	56.61
8.64	54.27	54.65	8.93	55.26	55.65	9.22	56.25	56.64
8.65	54.30	54.68	8.94	55.29	55.68	9.23	56.28	56.68
8.66	54.35	54.72	8.95	55.33	55.72	9.24	56.32	56.71
8.67	54.37	54.75	8.96	55.36	55.75	9.25	56.35	56.75
8.68	54.31	54.79	8.97	55.40	55.78	9.26	56.39	56.78
8.69	54.33	54.82	8.98	55.43	55.82	9.27	56.42	56.82
8.70	54.48	54.86	8.99	55.46	55.85	9.28	56.45	56.85
8.71	54.51	54.89	9.00	55.50	55.89	9.29	56.49	56.88
8.72	54.54	54.93	9.01	55.53	55.92	9.30	56.52	56.92
8.73	54.58	54.96	9.02	55.57	55.96	9.31	56.56	56.95
8.74	54.61	54.99	9.03	55.60	55.99	9.32	56.59	56.99
8.75	54.65	55.03	9.04	55.64	56.02	9.33	56.62	57.02
8.76	54.68	55.06	9.05	55.67	56.06	9.34	56.66	57.06
8.77	54.71	55.10	9.06	55.70	56.09	9.35	56.69	57.09
8.78	54.75	55.13	9.07	55.74	56.13	9.36	56.73	57.12
8.79	54.78	55.17	9.08	55.77	56.16	9.37	56.76	56.16
8.80	54.82	55.20	9.09	55.81	56.20	9.38	56.80	57.19
8.81	54.85	55.23	9.10	55.84	56.23	9.39	56.83	57.23

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
9.40	56.86	57.26	9.69	57.85	58.26	9.98	58.84	59.25
9.41	56.90	57.30	9.70	57.89	58.29	9.99	58.88	59.29
9.42	56.93	57.33	9.71	57.92	58.33	10.00	58.91	59.32
9.43	56.97	57.37	9.72	57.96	58.36	10.02	58.98	59.39
9.44	57.00	57.40	9.73	57.99	58.40	10.04	59.05	59.47
9.45	57.03	57.43	9.74	58.02	58.43	10.06	59.12	59.54
9.46	57.07	57.47	9.75	58.06	58.46	10.08	59.19	59.61
9.47	57.10	57.50	9.76	58.09	58.50	10.10	59.26	59.68
9.48	57.14	57.54	9.77	58.13	58.53	10.12	59.33	59.75
9.49	57.17	57.57	9.78	58.16	58.57	10.14	59.40	59.82
9.50	57.21	57.61	9.79	58.19	58.60	10.16	59.47	59.89
9.51	57.24	57.64	9.80	58.23	58.64	10.18	59.54	59.96
9.52	57.27	57.67	9.81	58.26	58.67	10.20	59.61	60.03
9.53	57.31	57.71	9.82	58.30	58.71	10.22	59.68	60.10
9.54	57.34	57.74	9.83	58.33	58.74	10.24	59.75	60.17
9.55	57.38	57.78	9.84	58.37	58.77	10.26	59.83	60.24
9.56	57.41	57.81	9.85	58.40	58.81	10.28	59.90	60.31
9.57	57.44	57.85	9.86	58.43	58.84	10.30	59.97	60.39
9.58	57.48	56.88	9.87	58.47	58.88	10.32	60.04	60.46
9.59	57.51	57.91	9.88	58.50	58.91	10.34	60.11	60.53
9.60	57.55	57.95	9.89	58.54	58.95	10.36	60.18	60.60
9.61	57.58	57.98	9.90	58.57	58.98	10.38	60.25	60.67
9.62	57.61	58.02	9.91	58.60	59.01	10.40	60.32	60.74
9.63	56.65	58.05	9.92	58.64	59.05	10.42	60.39	60.81
9.64	57.68	58.09	9.93	58.67	59.08	10.44	60.46	60.88
9.65	57.72	58.12	9.94	58.71	59.12	10.46	60.53	60.95
9.66	57.75	58.16	9.95	58.74	59.15	10.48	60.60	61.02
9.67	57.79	58.19	9.96	58.77	59.19	10.50	60.67	61.09
9.68	57.82	58.22	9.97	58.81	59.22	10.52	60.74	61.16

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
10.54	60.81	61.23	11.12	62.86	63.30	11.70	64.96	65.41
10.56	60.88	61.31	11.14	62.93	63.37	11.72	65.03	65.48
10.58	60.95	61.38	11.16	63.00	63.45	11.74	65.10	65.56
10.60	61.02	61.45	11.18	63.08	63.52	11.76	65.17	65.63
10.62	61.09	61.52	11.20	63.15	63.59	11.78	65.25	65.70
10.64	61.16	61.59	11.22	63.22	63.66	11.80	65.32	65.78
10.66	61.23	61.66	11.24	63.29	63.74	11.82	65.39	65.85
10.68	61.30	61.73	11.26	63.37	63.81	11.84	65.46	65.92
10.70	61.37	61.80	11.28	63.44	63.88	11.86	65.54	65.99
10.72	61.44	61.87	11.30	63.51	63.96	11.88	65.61	66.07
10.74	61.51	61.94	11.32	63.58	64.03	11.90	65.68	66.14
10.76	61.58	62.01	11.34	63.66	64.10	11.92	65.75	66.21
10.78	61.65	62.08	11.36	63.73	64.17	11.94	65.82	66.29
10.80	61.72	62.16	11.38	63.80	64.25	11.96	65.90	66.36
10.82	61.79	62.23	11.40	63.87	64.32	11.98	65.97	66.43
10.84	61.86	62.30	11.42	63.94	64.39	12.00	66.04	66.50
10.86	61.93	62.37	11.44	64.02	64.46	12.02	66.12	66.58
10.88	62.00	62.44	11.46	64.09	64.54	12.04	66.19	66.65
10.90	62.07	62.51	11.48	64.16	64.61	12.06	66.26	66.73
10.92	62.14	62.58	11.50	64.23	64.68	12.08	66.34	66.80
10.94	62.22	62.65	11.52	64.31	64.76	12.10	66.41	66.88
10.96	62.29	62.72	11.54	64.38	64.83	12.12	66.49	66.95
10.98	62.36	62.79	11.56	64.45	64.90	12.14	66.56	67.03
11.00	62.43	62.86	11.58	64.52	64.97	12.16	66.64	67.10
11.02	62.50	62.94	11.60	64.60	65.05	12.18	66.71	67.18
11.04	62.57	63.01	11.62	64.67	65.12	12.20	66.78	67.25
11.06	62.64	63.08	11.64	64.74	65.19	12.22	66.86	67.33
11.08	62.72	63.15	11.66	64.81	65.27	12.24	66.93	67.40
11.10	62.79	63.23	11.68	64.88	65.34	12.26	67.01	67.48

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
12.28	67.08	67.55	12.86	69.24	69.72	13.44	71.44	71.94
12.30	67.16	67.63	12.88	69.31	69.80	13.46	71.55	72.01
12.32	67.23	67.70	12.90	69.39	69.87	13.48	71.59	72.09
12.34	67.30	67.78	12.92	69.46	69.95	13.50	71.66	72.17
12.36	67.38	67.85	12.94	69.53	70.02	13.52	71.74	72.24
12.38	67.45	67.93	12.96	69.61	70.10	13.54	71.82	72.32
12.40	67.53	68.00	12.98	69.68	70.17	13.56	71.89	72.40
12.42	67.60	68.08	13.00	69.76	70.25	13.58	71.97	72.47
12.44	67.68	68.15	13.02	69.83	70.32	13.60	72.05	72.55
12.46	67.75	68.22	13.04	69.91	70.40	13.62	72.12	72.63
12.48	67.82	68.30	13.06	69.99	70.48	13.64	72.20	72.70
12.50	67.90	68.37	13.08	70.06	70.55	13.66	72.27	72.78
12.52	67.96	68.45	13.10	70.14	70.63	13.68	72.35	72.86
12.54	68.05	68.52	13.12	70.21	70.71	13.70	72.43	72.93
12.56	68.12	68.60	13.14	70.29	70.78	13.72	72.50	73.01
12.58	68.20	68.67	13.16	70.37	70.86	13.74	72.58	73.09
12.60	68.27	68.75	13.18	70.44	70.94	13.76	72.60	73.16
12.62	68.35	68.82	13.20	70.52	71.01	13.78	72.63	73.24
12.64	68.42	68.90	13.22	70.60	71.09	13.80	72.81	73.32
12.66	68.49	68.97	13.24	70.67	71.17	13.82	72.88	73.40
12.68	68.57	60.05	13.26	70.75	71.24	13.84	72.96	73.47
12.70	68.64	69.12	13.28	70.83	71.32	13.86	73.04	73.55
12.72	68.72	69.20	13.30	70.90	71.40	13.88	73.11	76.63
12.74	68.79	69.27	13.32	70.98	71.47	13.90	73.19	73.70
12.76	68.87	69.35	13.34	71.05	71.55	13.92	73.27	73.78
12.78	68.94	69.42	13.36	71.13	71.63	13.94	73.34	73.86
12.80	69.01	69.50	13.38	71.21	71.70	13.96	73.42	73.93
12.82	69.09	69.57	13.40	71.28	71.78	13.98	73.50	74.01
12.84	69.16	69.65	13.42	71.36	71.86	14.00	73.57	74.09

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
14.02	73.65	74.16	14.60	75.86	76.39	15.18	78.09	78.64
14.04	73.72	74.24	14.62	75.94	76.47	15.20	78.17	78.72
14.06	73.80	74.32	14.64	76.01	76.54	15.22	78.25	78.80
14.08	73.88	74.39	14.66	76.09	76.62	15.24	78.33	78.87
14.10	73.95	74.47	14.68	76.17	76.70	15.26	78.40	78.95
14.12	74.03	74.55	14.70	76.24	76.78	15.28	78.48	79.03
14.14	74.11	74.62	14.72	76.32	76.85	15.30	78.56	79.11
14.16	74.18	74.70	14.74	76.39	76.93	15.32	78.64	79.19
14.18	74.26	74.78	14.76	76.47	77.01	15.34	78.72	79.27
14.20	74.33	74.85	14.78	76.55	77.08	15.36	78.80	79.35
14.22	74.41	74.93	14.80	76.62	77.16	15.38	78.87	79.43
14.24	74.49	75.01	14.82	76.70	77.24	15.40	78.95	79.51
14.26	74.56	75.09	14.84	76.78	77.31	15.42	79.03	79.58
14.28	74.64	75.16	14.86	76.85	77.39	15.44	79.11	79.66
14.30	74.72	75.24	14.88	76.93	77.47	15.46	79.19	79.74
14.32	74.79	75.32	14.90	77.00	77.54	15.48	79.27	79.82
14.34	74.87	75.39	14.92	77.08	77.62	15.50	79.34	79.90
14.36	74.94	75.47	14.94	77.16	77.70	15.52	79.42	79.98
14.38	75.02	75.55	14.96	77.23	77.77	15.54	79.50	80.06
14.40	75.10	75.62	14.98	77.31	77.85	15.56	79.58	80.14
14.42	75.17	75.70	15.00	77.39	77.93	15.58	79.66	80.22
14.44	75.25	75.78	15.02	77.46	78.01	15.60	79.74	80.29
14.46	75.33	75.85	15.04	77.54	78.09	15.62	79.81	80.37
14.48	75.40	75.93	15.06	77.62	78.16	15.64	79.89	80.45
14.50	75.48	76.01	15.08	77.70	78.24	15.66	79.97	80.53
14.52	75.56	76.08	15.10	77.78	78.32	15.68	80.05	80.61
14.54	75.63	76.16	15.12	77.86	78.40	15.70	80.13	80.69
14.56	75.71	76.24	15.14	77.93	78.48	15.72	80.21	80.77
14.58	75.78	76.31	15.16	78.01	78.56	15.74	80.28	80.85

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
15.76	80.36	80.93	16.34	82.67	83.25	16.92	85.00	85.60
15.78	80.44	81.00	16.36	82.75	83.33	16.94	85.08	85.68
15.80	80.52	81.08	16.38	82.83	83.41	16.96	85.16	85.76
15.82	80.60	81.16	16.40	82.91	83.49	16.98	85.24	85.84
15.84	80.68	81.24	16.42	82.99	83.57	17.00	85.32	85.92
15.86	80.76	81.32	16.44	83.07	83.65	17.02	85.40	86.00
15.88	80.83	81.40	16.46	83.15	83.73	17.04	85.49	86.08
15.90	80.91	81.48	16.48	83.23	83.81	17.06	85.57	86.17
15.92	80.99	81.56	16.50	83.31	83.90	17.08	85.65	86.25
15.94	81.07	81.64	16.52	83.39	83.98	17.10	85.73	86.33
15.96	81.15	81.71	16.54	83.47	84.06	17.12	85.82	86.42
15.98	81.23	81.79	16.56	83.55	84.14	17.14	85.90	86.50
16.00	81.30	81.87	16.58	83.63	84.22	17.16	85.98	86.58
16.02	81.38	81.95	16.60	83.71	84.30	17.18	86.06	86.66
16.04	81.46	82.03	16.62	83.79	84.38	17.20	86.14	86.75
16.06	81.54	82.12	16.64	83.88	84.46	17.22	86.23	86.83
16.08	81.62	82.20	16.66	83.96	84.54	17.24	86.31	86.91
16.10	81.71	82.28	16.68	84.04	84.62	17.26	86.39	87.00
16.12	81.79	82.36	16.70	84.12	84.71	17.28	86.47	87.08
16.14	81.87	82.44	16.72	84.20	84.79	17.30	86.56	87.16
16.16	81.95	82.55	16.74	84.28	84.87	17.32	86.64	87.25
16.18	82.03	82.60	16.67	84.36	84.95	17.34	86.72	87.33
16.20	82.11	82.68	16.78	84.44	85.03	17.36	86.80	87.41
16.22	82.19	82.76	16.80	84.52	85.11	17.38	86.89	87.49
16.24	82.27	82.84	16.82	84.60	85.19	17.40	86.97	87.58
16.26	82.35	82.92	16.84	84.68	85.27	17.42	87.05	87.66
16.28	82.43	83.01	16.06	84.76	85.35	17.44	87.13	87.74
16.30	82.51	83.09	16.88	84.84	85.43	17.46	87.22	87.83
16.32	82.59	83.17	16.90	84.92	85.51	17.48	87.30	87.91

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
17.50	87.38	87.99	18.08	89.77	90.40	18.66	92.15	92.80
17.52	87.46	88.07	18.10	89.85	90.48	18.68	92.24	92.88
17.54	87.54	88.16	18.12	89.93	90.56	18.70	92.32	92.97
17.56	87.63	88.24	18.14	90.01	90.64	18.72	92.40	93.05
17.58	87.71	88.32	18.16	90.10	90.73	18.74	92.48	93.13
17.60	87.79	88.41	18.18	90.18	90.81	18.76	92.57	93.21
17.62	87.87	88.49	18.20	90.26	90.89	18.78	92.65	93.30
17.64	87.96	88.57	18.22	90.34	90.98	18.80	92.73	93.38
17.66	88.04	88.65	18.24	90.43	91.06	18.82	92.81	93.46
17.68	88.12	88.74	18.26	90.51	91.14	18.84	92.90	93.55
17.70	88.20	88.82	18.28	90.59	91.22	18.86	92.98	93.63
17.72	88.29	88.90	18.30	90.67	91.31	18.88	93.06	93.71
17.74	88.37	88.99	18.32	90.75	91.39	18.90	93.14	93.79
17.76	88.45	89.07	18.34	90.84	91.47	18.92	93.22	93.88
17.78	88.53	89.15	18.36	90.92	91.56	18.94	93.31	93.96
17.80	88.61	89.23	18.38	91.00	91.64	18.96	93.39	94.04
17.82	88.70	89.32	18.40	91.08	91.72	18.98	93.47	94.13
17.84	88.78	89.40	18.42	91.17	91.80	19.00	93.55	94.21
17.86	88.86	89.48	18.44	91.25	91.89	19.02	93.64	94.29
17.88	88.94	89.57	18.46	91.33	91.97	19.04	93.72	94.38
17.90	89.03	89.65	18.48	91.41	92.05	19.06	93.81	94.46
17.92	89.11	89.73	18.50	91.50	92.14	19.08	93.89	94.55
17.94	89.19	89.82	18.52	91.58	92.22	19.10	93.98	94.63
17.96	89.27	89.90	18.54	91.66	92.30	19.12	94.06	94.72
17.98	89.36	89.98	18.56	91.74	92.38	19.14	94.14	94.80
18.00	89.44	90.06	18.58	91.83	92.47	19.16	94.23	94.89
18.02	89.52	90.15	18.60	91.91	92.55	19.18	94.31	94.97
18.04	89.60	90.23	18.62	91.99	92.63	19.20	94.40	95.06
18.06	89.68	90.31	18.64	92.07	92.72	19.22	94.48	95.14

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
19.24	94.56	95.23	19.82	97.01	97.69	22.0	106.4	107.1
19.26	94.65	95.31	19.84	97.09	97.77	22.1	106.8	107.5
19.28	94.73	95.40	19.86	97.18	97.86	22.2	107.2	108.0
19.30	94.82	95.48	19.88	97.26	97.94	22.3	107.6	108.4
19.32	94.90	95.57	19.90	97.35	98.03	22.4	108.1	108.8
19.34	94.99	95.65	19.92	97.43	98.11	22.5	108.5	109.3
19.36	95.07	95.74	19.94	97.51	98.20	22.6	108.9	109.7
19.38	95.15	95.82	19.96	97.60	98.28	22.7	109.4	110.1
19.40	95.24	95.91	19.98	97.68	98.37	22.8	109.8	110.6
19.42	95.32	95.99	20.0	97.77	98.45	22.9	110.2	111.0
19.44	95.41	96.08	20.1	98.19	98.88	23.0	110.7	111.4
19.46	95.49	96.16	20.2	98.61	99.30	23.1	111.1	111.9
19.48	95.58	96.25	20.3	99.04	99.73	23.2	111.5	112.3
19.50	95.66	96.33	20.4	99.46	100.2	23.3	112.0	112.7
19.52	95.74	96.41	20.5	99.88	100.6	23.4	112.4	113.2
19.54	95.83	96.50	20.6	100.3	101.0	23.5	112.8	113.6
19.56	95.91	96.58	20.7	100.7	101.4	23.6	113.3	114.1
19.58	96.00	96.67	20.8	101.2	101.9	23.7	113.7	114.5
19.60	96.08	96.75	20.9	101.6	102.3	23.8	114.1	114.9
19.62	96.17	96.84	21.0	102.0	102.8	23.9	114.6	115.4
19.64	96.25	96.92	21.1	102.5	103.2	24.0	115.0	115.8
19.66	96.33	97.01	21.2	102.9	103.6	24.1	115.4	116.2
19.68	96.42	97.09	21.3	103.3	104.1	24.2	115.8	116.7
19.70	96.50	97.18	21.4	103.8	104.5	24.3	116.3	117.1
19.72	96.59	97.26	21.5	104.2	104.9	24.4	116.7	117.5
19.74	96.67	96.35	21.6	104.6	105.4	24.5	117.1	118.0
19.76	96.76	97.43	21.7	105.1	105.8	24.6	117.6	118.4
19.78	96.84	97.52	21.8	105.5	106.2	24.7	118.0	118.8
19.80	96.92	97.60	21.9	105.9	106.7	24.8	118.4	119.3

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
24.9	118.9	119.7	27.8	131.6	132.5	30.7	144.4	145.4
25.0	119.3	120.1	27.9	132.1	133.0	30.8	144.9	145.9
25.1	119.7	120.6	28.0	132.5	133.4	30.9	145.3	146.3
25.2	120.2	121.0	28.1	132.9	133.9	31.0	145.7	146.8
25.3	120.6	121.4	28.2	133.4	134.3	31.1	146.2	147.2
25.4	121.0	121.9	28.3	133.8	134.8	31.2	146.6	147.7
25.5	121.5	122.3	28.4	134.3	135.2	31.3	147.1	148.1
25.6	121.9	122.8	28.5	134.7	135.6	31.4	147.5	148.5
25.7	122.3	123.2	28.6	135.1	136.1	31.5	148.0	149.0
25.8	122.8	123.6	28.7	135.6	136.5	31.6	148.4	149.4
25.9	123.2	124.1	28.8	136.0	137.0	31.7	148.8	149.9
26.0	123.7	124.5	28.9	136.5	137.4	31.8	149.3	150.3
26.1	124.1	125.0	29.0	136.9	137.9	31.9	149.7	150.8
26.2	124.5	125.4	29.1	137.4	138.3	32.0	150.2	151.2
26.3	125.0	125.9	29.2	137.8	138.8	32.1	150.6	151.7
26.4	125.4	126.3	29.3	138.2	139.2	32.2	151.1	152.1
26.5	125.9	126.8	29.4	138.7	139.6	32.3	151.5	152.6
26.6	126.3	127.2	29.5	139.1	140.1	32.4	152.0	153.0
26.7	126.8	127.6	29.6	139.6	140.5	32.5	152.4	153.5
26.8	127.2	128.1	29.7	140.0	141.0	32.6	152.9	153.9
26.9	127.6	128.5	29.8	140.4	141.4	32.7	153.3	154.4
27.0	128.1	129.0	29.9	140.9	141.9	32.8	153.8	154.8
27.1	128.5	129.4	30.0	141.3	142.3	32.9	154.2	155.3
27.2	129.0	129.9	30.1	141.8	142.8	33.0	154.7	155.8
27.3	129.4	130.3	30.2	142.2	143.2	33.1	155.1	156.2
27.4	129.8	130.8	30.3	142.7	143.7	33.2	155.6	156.7
27.5	130.3	131.2	30.4	143.1	144.1	33.3	156.0	157.1
27.6	130.7	131.6	30.5	143.5	144.5	33.4	156.5	157.5
27.7	131.2	132.1	30.6	144.0	145.0	33.5	156.9	158.0

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
33.6	157.4	158.5	36.5	170.5	171.7	39.4	183.6	184.9
33.7	157.8	158.9	36.6	170.9	172.1	39.5	184.0	185.3
33.5	158.3	159.4	36.7	171.4	172.6	39.6	184.5	185.8
33.9	158.7	159.8	36.8	171.8	173.0	39.7	184.9	186.2
34.0	159.2	160.3	36.9	172.3	173.5	39.8	185.4	186.7
34.1	159.6	160.8	37.0	172.7	173.9	39.9	185.8	187.1
34.2	160.1	161.2	37.1	173.2	174.4	40.0	186.3	187.6
34.3	160.5	161.7	37.2	173.6	174.9	40.1	186.7	188.0
34.4	161.0	162.1	37.3	174.1	175.3	40.2	187.2	188.5
34.5	161.4	162.6	37.4	174.5	175.8	40.3	187.6	188.9
34.6	161.9	163.0	37.5	175.0	176.2	40.4	188.1	189.4
34.7	162.4	163.5	37.6	175.4	176.7	40.5	188.5	189.9
34.8	162.8	163.9	37.7	175.9	177.1	40.6	189.0	190.3
34.9	163.3	164.4	37.8	176.3	177.6	40.7	189.4	190.8
35.0	163.7	164.9	37.9	176.8	178.0	40.8	189.9	191.2
35.1	164.2	165.3	38.0	177.3	178.5	40.9	190.3	191.7
35.2	164.6	165.8	38.1	177.7	178.9	41.0	190.8	192.1
35.3	165.1	166.2	38.2	178.2	179.4	41.1	191.2	192.6
35.4	165.5	166.7	38.3	178.6	179.9	41.2	191.7	193.0
35.5	166.0	167.1	38.4	179.1	180.3	41.3	192.2	193.5
35.6	166.4	167.6	38.5	179.5	180.8	41.4	192.6	194.0
35.7	166.9	168.0	38.6	180.0	181.2	41.5	193.1	194.4
35.8	167.3	168.5	38.7	180.4	181.7	41.6	193.5	194.9
35.9	167.8	168.9	38.8	180.9	182.1	41.7	194.0	195.3
36.0	168.2	169.4	38.9	181.3	182.6	41.8	194.4	195.8
36.1	168.7	169.9	39.0	181.8	183.0	41.9	194.9	196.2
36.2	169.1	170.3	39.1	182.2	183.5	42.0	195.3	196.7
36.3	169.6	170.8	39.2	182.7	183.9	42.1	195.8	197.1
36.4	170.0	171.2	39.3	183.1	184.4	42.2	196.2	197.6

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
42.3	196.7	198.0	45.2	210.0	211.4	48.1	223.4	224.9
42.4	197.1	198.5	45.3	210.4	211.9	48.2	223.8	225.4
42.5	197.6	199.0	45.4	210.9	212.4	48.3	224.3	225.9
42.6	198.0	199.4	45.5	211.4	212.8	48.4	224.7	226.3
42.7	198.5	199.9	45.6	211.8	213.3	48.5	225.2	226.8
42.8	198.9	200.3	45.7	212.3	213.8	48.6	226.7	227.2
42.9	199.4	200.8	45.8	212.8	214.2	48.7	226.1	227.7
43.0	199.8	201.2	45.9	213.2	214.7	48.8	226.6	228.2
43.1	200.3	201.7	46.0	213.7	215.2	48.9	227.1	228.6
43.2	200.8	202.2	46.1	214.1	215.6	49.0	227.5	229.1
43.3	201.2	202.6	46.2	214.6	216.1	49.1	228.0	229.6
43.4	201.7	203.1	46.3	215.1	216.6	49.2	228.4	230.0
43.5	202.1	203.5	46.4	215.5	217.0	49.3	228.9	230.5
43.6	202.6	204.0	46.5	216.0	217.5	49.4	229.4	231.0
43.7	203.1	204.5	46.6	216.4	218.0	49.5	229.8	231.4
43.8	203.5	204.9	46.7	216.9	218.4	49.6	230.3	231.9
43.9	204.0	205.4	46.9	217.4	218.9	49.7	230.7	232.4
44.0	204.4	205.9	46.9	217.8	219.3	49.8	231.2	232.8
44.1	204.9	206.3	47.0	218.3	219.8	49.9	231.7	233.3
44.2	205.4	206.8	47.1	218.8	220.3	50.0	232.1	233.8
44.3	205.8	207.3	47.2	219.2	220.7	50.1	232.6	234.2
44.4	206.3	207.7	47.3	219.7	221.2	50.2	233.1	234.7
44.5	206.8	208.2	47.4	220.1	221.7	50.3	233.5	235.1
44.6	207.2	208.7	47.5	220.6	222.1	50.4	234.0	235.6
44.7	207.7	209.1	47.6	221.1	222.6	50.5	234.4	236.1
44.8	208.1	209.6	47.7	221.5	223.1	50.6	234.9	236.5
44.9	208.6	210.1	47.8	222.0	223.5	50.7	235.4	237.0
45.0	209.1	210.5	47.9	222.4	224.0	50.8	235.8	237.5
45.1	209.5	211.0	48.0	222.9	224.5	50.9	236.3	237.9

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
51.0	236.7	238.4	53.9	250.1	251.9	56.8	263.5	265.4
51.1	237.2	238.9	54.0	250.6	252.3	56.9	264.0	265.8
51.2	237.7	239.3	54.1	251.1	252.8	57.0	264.4	266.3
51.3	238.1	239.8	54.2	251.5	253.3	57.1	264.9	266.8
51.4	238.6	240.3	54.3	252.0	253.7	57.2	265.4	267.2
51.5	239.1	240.7	54.4	252.4	254.2	57.3	265.8	267.7
51.6	239.5	241.2	54.5	252.9	254.7	57.4	266.3	268.1
51.7	240.0	241.7	54.6	253.4	255.1	57.5	266.7	268.6
51.8	240.4	242.1	54.7	253.8	255.6	57.6	267.2	269.1
51.9	240.9	242.6	54.8	254.3	256.1	57.7	267.7	269.5
52.0	241.4	243.0	54.9	254.7	265.5	57.8	268.1	270.0
52.1	241.8	243.5	55.0	255.2	257.0	57.9	268.6	270.5
52.2	242.3	244.0	55.1	255.7	257.5	58.0	269.1	270.9
52.3	242.7	244.4	55.2	256.1	257.9	58.1	269.5	271.4
52.4	243.2	244.9	55.3	256.6	258.4	58.2	270.0	271.9
52.5	243.7	245.4	55.4	257.1	258.9	58.3	270.4	272.3
52.6	244.1	245.8	55.5	257.5	259.3	58.4	270.9	272.8
52.7	244.6	246.3	55.6	258.0	259.8	58.5	271.4	273.3
52.8	245.1	246.8	55.7	258.4	260.2	58.6	271.8	273.7
52.9	245.5	247.2	55.8	258.9	260.7	58.7	272.3	274.2
53.0	246.0	274.7	55.9	259.4	261.2	58.8	272.7	274.7
53.1	246.4	248.2	56.0	259.8	261.6	58.9	273.2	275.1
53.2	246.9	248.6	56.1	260.3	262.1	59.0	273.7	275.6
53.3	247.4	249.1	56.2	260.7	262.6	59.1	274.1	276.0
53.4	247.8	249.6	56.3	261.2	263.0	59.2	274.6	276.5
53.5	248.3	250.0	56.4	261.7	263.5	59.3	275.1	277.0
53.6	248.7	250.5	56.5	262.1	264.0	59.4	275.5	277.4
53.7	249.2	250.9	56.6	262.6	264.4	59.5	276.0	277.9
53.8	249.7	251.4	56.7	263.1	264.9	59.6	276.4	278.4

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT 100 ° F	AT 210 ° F		AT 100 ° F	AT 210 ° F		AT 100 ° F	AT 210 ° F
59.7	276.9	278.8	62.6	290.3	292.3	65.5	303.7	305.8
59.8	277.4	279.3	62.7	290.7	292.8	65.6	304.1	306.3
59.9	277.8	279.8	62.8	291.2	293.2	65.7	304.6	306.7
60.0	278.4	280.2	62.9	291.7	293.7	65.8	305.0	307.2
60.1	278.7	280.7	63.0	292.1	294.2	65.9	305.5	307.6
60.2	279.2	281.2	63.1	292.6	294.6	66.0	306.0	308.1
60.3	279.7	281.6	63.2	293.0	295.1	66.1	306.4	308.6
60.4	280.1	282.1	63.3	293.5	295.6	66.2	306.9	309.0
60.5	280.6	282.6	63.4	294.0	296.0	66.3	307.4	309.5
60.6	281.1	283.0	63.5	294.4	296.5	66.4	307.8	310.0
60.7	281.5	283.5	63.6	294.9	297.0	66.5	308.3	310.4
60.8	282.0	283.9	63.7	295.4	297.4	66.6	308.7	310.9
60.9	282.4	284.4	63.8	295.8	297.9	66.7	309.2	311.4
61.0	282.9	284.9	63.9	296.3	298.4	66.8	309.7	311.8
61.1	283.4	285.3	64.0	296.7	298.8	66.9	310.1	312.3
61.2	283.8	285.8	64.1	297.2	299.3	67.0	310.6	312.8
61.3	284.3	286.3	64.2	297.7	299.7	67.1	311.0	313.2
61.4	284.7	286.7	64.3	298.1	300.2	67.2	311.5	313.7
61.5	285.2	287.2	64.4	298.6	300.7	67.3	312.0	314.2
61.6	285.7	287.7	64.5	299.0	301.1	67.4	312.4	314.6
61.7	286.1	288.1	64.6	299.5	301.6	67.5	312.9	315.1
61.8	286.6	288.6	64.7	300.0	302.1	67.6	313.4	315.5
61.9	287.0	289.1	64.8	300.4	302.5	67.7	313.8	316.0
62.0	287.5	289.5	64.9	300.9	303.3	67.8	314.3	316.5
62.1	288.0	290.0	65.0	301.4	303.5	67.9	314.9	316.9
62.2	288.4	290.5	65.1	301.8	303.9	68.0	315.2	317.4
62.3	288.9	290.9	65.2	302.3	304.4	68.1	315.7	317.9
62.4	289.4	291.4	65.3	302.7	304.9	68.2	316.1	318.3
62.5	289.8	291.8	65.4	303.2	305.3	68.3	316.6	318.8

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 1

Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS		Kin Vis, cs	Equivalent Saybolt Universal Viscosity, SUS	
	AT	AT		AT	AT		AT	AT
	100 ° F	210 ° F		100 ° F	210 ° F		100 ° F	210 ° F
68.4	317.0	319.3	69.0	319.8	322.1	69.9	322.6	324.8
68.5	317.5	319.7	69.1	320.3	322.5	69.7	323.0	325.3
68.6	318.0	320.2	69.2	320.7	323.0	69.8	323.5	325.8
68.7	318.4	320.7	69.3	321.2	323.4	69.9	324.0	326.2
68.8	318.9	321.1	69.4	321.7	323.9	70.0	324.4	326.7
68.9	319.4	321.6	69.5	322.1	324.4			

100 ° F

210 ° F

Over
70.0

CENTISTOKES =
SAYBOLT
SECONDS
4.6347

CENTISTOKES =
SAYBOLT
SECONDS
4.6673

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 2

ISO METRIC SCREW THREADS FOR SCREWS, BOLTS, AND NUTS

SIZE		PITCH	
BASIC MAJOR DIAMETER		Coarse	Fine
Primary	Secondary	(S)	(M)
MM	MM	MM	MM
0.25	----	0.075	----
0.3	----	0.08	----
	0.35	0.09	----
0.4	----	0.1	----
	0.45	0.1	----
0.5	----	0.125	----
	0.55	0.125	----
0.6	----	0.15	----
	0.7	0.175	----
0.8	----	0.2	----
	0.9	0.225	----
1.0	----	0.25	----
	1.1	0.25	----
1.2	----	0.25	----
	1.4	0.3	----
1.6	----	0.35	----
	1.8	0.35	----
2.0	----	0.4	----
	2.2	0.45	----
2.5	----	0.45	----
3.0	----	0.5	----
	3.5	0.6	----
4.0	----	0.7	----
	4.5	0.75	----
5.0	----	0.8	----
6.0	----	1.0	----
	7.0	1.0	----
8.0	----	1.25	1.0
10.0	----	1.5	1.25
12.0	----	1.75	1.25
	14.0	2.0	1.5

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
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Table 2

SIZE BASIC MAJOR DIAMETER		PITCH	
Primary	Secondary	Coarse (S) MM	Fine (M) MM
MM	MM	MM	MM
16.0	----	2.0	1.5
	18.0	2.5	1.5
20.0	----	2.5	1.5
	22.0	2.5	1.5
24.0	----	3.0	2.0
	27.0	3.0	2.0
30.0	----	3.5	2.0
	33.0	3.5	2.0
36.0	----	4.0	3.0
	39.0	4.0	3.0

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 3

ISO METRIC SCREW THREAD SIZE/THREAD PITCH*
(For bolts, nuts, and screws, 1 to 24 mm diameter)

ISO metric threads are designated by a letter (M or S), followed by the size ND and pitch in millimeters, as shown below. Where there is no indication of pitch, the coarse pitch is implied.

Examples:

M6X1 (indicates 6 mm diameter, 1 mm pitch)
S2 (indicates 2 mm diameter, coarse (0.4) pitch)

Size in mm (basic major diameter)	Pitch in mm		
	ISO-M		ISO-S
	coarse	fine	coarse
1.0	----	----	0.25
1.1	----	----	0.25
1.2	----	----	0.25
1.4	----	----	0.30
1.6	----	----	0.35
1.8	----	----	0.35
2.0	----	----	0.40
2.2	----	----	0.45
2.5	----	----	0.45
3.0	----	----	0.50
3.5	----	----	0.60
4.0	----	----	0.70
4.5	----	----	0.75
5.0	----	----	0.80
6.0	1.00	----	----
7.0	1.00	----	----
8.0	1.25	1.00	----
10.0	1.50	1.25	----
12.0	1.75	1.25	----
14.0	2.00	1.50	----
16.0	2.00	1.50	----
18.0	2.50	1.50	----
20.0	2.50	1.50	----
22.0	2.50	1.50	----

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

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Table 3

Size in mm (basic major diameter)	Pitch in mm		
	ISO-M		ISO-S
24.0	coarse 3.00	fine 2.00	coarse ----

*Adapted from SCREW THREAD STANDARDS FOR FEDERAL SERVICES (1957), Handbook H28, Part III, Table 14.2.

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 4
INCH TO DECIMAL PART OF A FOOT CONVERSION CHART

IN.	DECIMAL P/O FT.	IN.	DECIMAL P/O FT.	IN.	DECIMAL P/O FT.	IN.	DECIMAL P/O FT.
1	.083	3 7/8	.323	6 3/4	.562	9 5/8	.802
1 1/8	.093	4	.333	6 7/8	.573	9 3/4	.812
1 1/4	.104	4 1/8	.343	7	.583	9 7/8	.823
1 3/8	.114	4 1/4	.354	7 1/8	.593	10	.833
1 1/2	.125	4 3/8	.364	7 1/4	.604	10 1/8	.843
1 5/8	.135	4 1/2	.375	7 3/8	.614	10 1/4	.854
1 3/4	.156	4 3/4	.395	7 5/8	.635	10 1/2	.875
2	.167	4 7/8	.406	7 3/4	.645	10 5/8	.885
2 1/8	.177	5	.417	7 7/8	.656	10 3/4	.895
2 1/4	.188	5 1/8	.427	8	.667	10 7/8	.906
2 3/8	.198	5 1/4	.438	8 1/8	.677	11	.917
2 1/2	.209	5 3/8	.448	8 1/4	.688	11 1/8	.927
2 5/8	.219	5 1/2	.459	8 3/8	.698	11 1/4	.938
2 3/4	.229	5 5/8	.469	8 1/2	.709	11 3/8	.948
2 7/8	.240	5 3/4	.479	8 5/8	.719	11 1/2	.959
3	.250	5 7/8	.490	8 3/4	.729	11 5/8	.969
3 1/8	.260	6	.500	8 7/8	.740	11 3/4	.979
3 1/4	.271	6 1/8	.510	9	.750	11 7/8	.990
3 3/8	.281	6 1/4	.521	9 1/8	.760	12	1.000
3 1/2	.292	6 3/8	.531	9 1/4	.771		
3 5/8	.302	6 1/2	.542	9 3/8	.781		
3 3/4	.312	6 5/8	.552	9 1/2	.792		

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 5

INCH TO DECIMAL OF A YARD CONVERSION CHART

<u>INCHES</u>	<u>YARDS</u>
1	.028
2	.055
3	.083
4	.111
5	.139
6	.166
7	.194
8	.222
9	.250
10	.277
11	.305
12	.333
13	.361
14	.389
15	.416
16	.444
17	.472
18	.500
19	.528
20	.555
21	.583
22	.611
23	.639
24	.666
25	.694
26	.722
27	.750
28	.777
29	.805
30	.833
31	.861
32	.889
33	.916
34	.944
35	.972

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 6

INCH TO DECIMAL OF A FOOT CONVERSION CHART

Frac- tion of inch	INCHES											
	0	1	2	3	4	5	6	7	8	9	10	11
0	0.000	0.083	0.167	0.250	0.333	0.417	0.500	0.583	0.667	0.750	0.833	0.917
1/16	.005	.089	.172	.255	.339	.422	.505	.589	.672	.755	.839	.922
1/8	.010	.094	.177	.260	.344	.427	.510	.594	.677	.760	.844	.927
3/16	.016	.099	.182	.266	.349	.432	.516	.599	.682	.766	.849	.932
1/4	.021	.104	.188	.271	.354	.438	.521	.604	.688	.771	.854	.938
5/16	.026	.109	.193	.276	.359	.443	.526	.609	.693	.776	.859	.943
3/8	.031	.115	.198	.281	.365	.448	.531	.615	.698	.781	.865	.948
7/16	.037	.120	.203	.287	.370	.453	.537	.620	.703	.787	.870	.953
1/2	.042	.125	.208	.292	.375	.458	.542	.625	.708	.792	.875	.958
9/16	.047	.130	.214	.297	.380	.464	.547	.630	.714	.797	.880	.964
5/8	.052	.135	.219	.302	.385	.469	.552	.635	.719	.802	.885	.969
11/16	.057	.141	.224	.307	.391	.474	.557	.641	.724	.807	.891	.974
3/4	.063	.146	.229	.313	.396	.479	.563	.646	.729	.813	.896	.979
13/16	.068	.151	.234	.318	.401	.484	.568	.651	.734	.818	.901	.984
7/8	.073	.156	.240	.323	.406	.490	.573	.656	.740	.823	.906	.990
15/16	.078	.162	.245	.328	.412	.495	.578	.662	.745	.828	.912	.995

NOTE: For inches, select inches 0 through 11 from left to right top of chart, read decimal equivalent in column directly below.

For inches and fraction of inch, select inches as above, then fraction of an inch from 1st column on left, read from left to right to intersection of corresponding vertical column. (i.e., 9 ft. 11 inches would read 9.917 feet; 9 FT. 11-1/4 inches would read 9.938 feet.)

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 7

HAZARDOUS LOCATION CLASSIFICATION

REFERENCE: ARTICLE 500 OF THE NATIONAL ELECTRICAL CODE

CLASS I - Locations.

“Class I locations are those in which flammable gases or vapors are or may be present in the air in quantities sufficient to produce explosive or ignitable mixtures.” Class I includes the following groups:

- Group A: Atmospheres containing acetylene;
- Group B: Atmospheres containing hydrogen or gases or vapors of equivalent hazard such as manufactured gas;
- Group C: Atmospheres containing ethyl-ether vapor, ethylene or cyclopropane;
- Group D: Atmospheres containing gasoline, hexane, naphtha benzine, butane, propane, alcohol, acetone, lacquer solvent vapors, or natural gas.

CLASS II - Locations.

“Class II locations are those which are hazardous because of the presence of combustible dust.” Class II locations include the following groups:

- Group E: Atmospheres containing metal dust, including aluminum, magnesium, and their commercial alloys;
- Group F: Atmospheres containing carbon black, coal or coke dust;
- Group G: Atmospheres containing flour, starch, or grain dust.

CLASS III - Locations.

“Class III locations are those which are hazardous because of the presence of easily ignitable fibers or flyings; but in which such fibers or flyings are not likely to be in suspension in air in quantities sufficient to produce ignitable mixtures.”

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
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APPENDIX C

TABLE 8
METRIC CONVERSION TABLE

Metric Measures of Length

10 millimeters (symbol mm.)	= 1 centimeter (symbol cm.)
10 centimeters	= 1 decimeter (symbol dm.)
10 decimeters	= 1 meter (symbol m.)
10 meters	= 1 dekameter (symbol Dm.)
10 dekameters	= 1 hectometer (symbol Hm.)
10 hectometers	= 1 kilometer (symbol Km.)

Conversion Tables

1 meter	= 39.37 inches = 3.28083 feet = 1.0936 yards
1 centimeter	= .3937 inch
1 millimeter	= .03937 inch = 1/25 inch, approximately
1 kilometer	= .62137 mile
1 foot	= .3048 meter
1 inch	= 2.54 centimeters = 25.4 millimeters

Table for Converting Millimeters to Inches and Decimals

mm.	inches	mm.	inches	mm.	inches	mm.	inches
1	= .03937	17	= .66929	33	= 1.29921	49	= 1.92913
2	= .07874	18	= .70866	34	= 1.33858	50	= 1.96850
3	= .11811	19	= .74803	35	= 1.37796	51	= 2.00787
4	= .15748	20	= .78740	36	= 1.41732	52	= 2.04724
5	= .19685	21	= .82677	37	= 1.45669	53	= 2.08661
6	= .23622	22	= .86614	38	= 1.49606	54	= 2.12598
7	= .27559	23	= .90551	39	= 1.53543	55	= 2.16535
8	= .31496	24	= .94488	40	= 1.57480	56	= 2.20472
9	= .35433	25	= .98425	41	= 1.61417	57	= 2.24409
10	= .39370	26	= 1.02362	42	= 1.65354	58	= 2.28346
11	= .43307	27	= 1.06299	43	= 1.69291	59	= 2.32283
12	= .47244	28	= 1.10236	44	= 1.73228	60	= 2.36220
13	= .51181	29	= 1.14173	45	= 1.77165	61	= 2.40157
14	= .55118	30	= 1.18110	46	= 1.81102	62	= 2.44094
15	= .59055	31	= 1.22047	47	= 1.85039	63	= 2.48031
16	= .62992	32	= 1.25984	48	= 1.88976	64	= 2.51968

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 0000
APPENDIX C

TABLE 8

mm.	inches	mm.	inches	mm.	inches	mm.	inches
65	= 2.55905	74	= 2.91338	83	= 3.26771	92	= 3.62204
66	= 2.59842	75	= 2.95275	84	= 3.30708	93	= 3.66141
67	= 2.63770	76	= 2.99212	85	= 3.34645	94	= 3.70078
68	= 2.67716	77	= 3.03149	86	= 3.38582	95	= 3.74015
69	= 2.71653	78	= 3.07086	87	= 3.42519	96	= 3.77952
70	= 2.75590	79	= 3.11023	88	= 3.46456	97	= 3.81889
71	= 2.79527	80	= 3.14960	89	= 3.50393	98	= 3.85826
72	= 2.83464	81	= 3.18897	90	= 3.54330	99	= 3.89763
73	= 2.87101	82	= 3.22834	91	= 3.58267	100	= 3.93700

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 9
METRIC CONVERSION CHART

<u>ORIGINAL VALUE</u>		<u>DESIRED VALUE</u>								
<u>PREFIX</u>	<u>POWER of 10</u>	<u>Giga</u>	<u>Mega</u>	<u>Kilo</u>	<u>*Unit</u>	<u>Deci</u>	<u>Centi</u>	<u>Milli</u>	<u>Micro</u>	<u>Pico</u>
Giga	10^9		3 -->	6 -->	9 -->	10 -->	11 -->	12 -->	15 -->	21 -->
Mega	10^6	<-- 3		3 -->	6 -->	7 -->	8 -->	9 -->	12 -->	18 -->
Kilo	10^3	<-- 6	<-- 3		3 -->	4 -->	5 -->	6 -->	9 -->	15 -->
*Unit	10^0	<-- 9	<-- 6	<-- 3		1 -->	2 -->	3 -->	6 -->	12 -->
Deci	10^{-1}	<-- 10	<-- 7	<-- 4	<-- 1		1 -->	2 -->	5 -->	11 -->
Centi	10^{-2}	<-- 11	<-- 8	<-- 5	<-- 2	<-- 1		1 -->	4 -->	10 -->
Milli	10^{-3}	<-- 12	<-- 9	<-- 6	<-- 3	<-- 2	<-- 1		3 -->	9 -->
Micro	10^{-6}	<-- 15	<-- 12	<-- 9	<-- 6	<-- 5	<-- 4	<-- 3		6 -->
Pico	10^{-12}	<-- 21	<-- 18	<-- 15	<-- 12	<-- 11	<-- 10	<-- 9	<-- 6	

*The notation "unit" represents the basic unit of measurement, such as amperes, farads, grams, hertz, meters, ohms, volts, watts, etc.

To convert from one notation (metric or a power of ten) to another, locate the original or given value in the left-hand column. Follow this line horizontally to the vertical column headed by the desired notation. The figure and arrow at the intersection of these two columns indicates the direction and number of places the decimal point is to be moved (e.g., to convert 25,000 kilohertz to megahertz, at the intersection of the horizontal column for kilo and the vertical column for mega find the figure and directional arrow <-- 3. Thus, shifting the decimal in 25,000 kilohertz 3 places to the left results in the value of 25 megahertz).

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 10
DECIMAL AND METRIC EQUIVALENTS

DECIMAL AND METRIC EQUIVALENTS OF FRACTIONS OF AN INCH

Frac- tion	1/32ds	1/64ths	Decimal	Milli- meters	Frac- tion	1/32ds	1/64ths	Decimal	Milli- meters
		1	.015625	0.3968			27	.421875	10.7154
	1	2	0.3125	0.7937	7/16	14	28	.4375	11.1122
		3	.046875	1.1906					
1/16	2	4	.0625	1.5875			29	.453125	11.5091
						15	30	.46875	11.9060
		5	.078125	1.9843			31	.484375	12.3029
	3	6	.09375	2.3812	1/2	16	32	.5	12.6997
		7	.109375	2.7780			33	.515625	13.0966
1/8	4	8	.125	3.1749		17	34	.53125	13.4934
							35	.546875	13.8903
		9	.140625	3.5718	9/16	18	36	.5625	14.2872
	5	10	.15625	3.9686					
		11	.171875	4.3655			37	.578125	14.6841
3/16	6	12	.1875	4.7624		19	38	.59375	15.0809
							39	.609375	15.4778
		13	.203125	5.1592	5/8	20	40	.625	15.8747
	7	14	.21875	5.5561					
		15	.234375	5.9530			41	.640625	16.2715
1/4	8	16	.25	6.3498		21	42	.65625	16.6684
							43	.671875	17.0653
		17	.265625	6.7467	11/16	22	44	.6875	17.4621
	9	18	.28125	7.1436					
		19	.296875	7.5404			45	.703125	17.8590
5/16	10	20	.3125	7.9373		23	46	.71875	18.2559
							47	.734375	18.6527
		21	.328125	8.3342	3/4	24	48	.75	19.0496
	11	22	.34375	8.7310					
		23	.359375	9.1279			49	.765625	19.4465
3/8	12	24	.375	9.5248		25	50	.78125	19.8433
							51	.796875	20.2402
		25	.390625	9.9216	13/16	26	52	.8125	20.6371
	13	26	.40625	10.3185					

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 0000
APPENDIX C

Table 10

Frac- tion	1/32ds	1/64ths	Decimal	Milli- meters
		53	.828125	21.0339
	27	54	.84375	21.4308
		55	.859375	21.8277
7/8	28	56	.875	22.2245
		57	.890625	22.6214
	29	58	.90625	23.0183
		59	.921875	23.4151
15/16	30	60	.9375	23.8120
		61	.953125	24.2089
	31	62	.96875	24.6057
		63	.984375	25.0026
1	32	64	1.	25.3995

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 11

ENVIRONMENTAL PROTECTION TYPES

<u>TYPES</u>	<u>REPLY</u>
Abrasive resistant	ABRASION RESISTANT
Anti-crease	WRINKLE RESISTANT
Anti-felting	SHRINK RESISTANT
APO	FIRE RESISTANT
Aqua-sec	WATER REPELLENT
Aridex	WATER REPELLENT
Aromatic fuel resistant	AROMATIC HYDROCARBON FLUID RESISTANT
Bancare	WRINKLE RESISTANT
Bancora	SHRINK RESISTANT
Belfast	WRINKLE RESISTANT
Coneprest	WRINKLE RESISTANT
Coronized	WRINKLE RESISTANT
Cravenette	WATER REPELLENT
Crease Resistant	WRINKLE RESISTANT
Dan-Press	WRINKLE RESISTANT
Durable Press	WRINKLE RESISTANT
Dielmoth	MOTHPROOF
Dolanize	WATER REPELLENT
Dri-Dux	WATER REPELLENT
Duraseal	WATER REPELLENT
Durasec	WATER REPELLENT
Dylanized	SHRINK RESISTANT
Eulan	MOTHPROOF
Everglaze	WRINKLE RESISTANT
Fire Retardent	FIRE RESISTANT
Firegard	FIRE RESISTANT
Flamefoil	FIRE RESISTANT, MILDEW RESISTANT WEATHER RESISTANT AND WATER RESISTANT
Flamegard	FIREPROOF
Flameproof	FIREPROOF
Flame resistant	FIRE RESISTANT
Flame retardant	FIRE RESISTANT

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 11

<u>TYPES</u>	<u>REPLY</u>
Fungus resistant	MILDEW RESISTANT
High temperature resistant	HEAT RESISTANT
Hydropel	WATER REPELLENT
Hydro-Pruf	WATER REPELLENT
Impregnole	WATER REPELLENT
Koratron	WRINKLE RESISTANT
Lovely On	WATER REPELLENT
Low Temperature Resistant	COLD RESISTANT
Millerain	WATER REPELLENT
Minicare	WRINKLE RESISTANT
Moisture Resistant	WATER REPELLENT
Mold Resistant	MILDEW RESISTANT
Moth Repellent	MOTH RESISTANT
Neptune GIQ	WATER REPELLENT
Neva-Wet	WATER REPELLENT
Norane	WATER REPELLENT
Norane R	WATER REPELLENT
Penn Prest	WRINKLE RESISTANT
Perma-creased	WRINKLE RESISTANT
Permanent Press	WRINKLE RESISTANT
Perma-Pressed	WRINKLE RESISTANT
Perma-prest	WRINKLE RESISTANT
Permex B	WATER REPELLENT
Rainproof	WATERPROOF
Rain resistant	WATER REPELLENT
Ranopel	WATER REPELLENT
Scotch-Gard	OIL RESISTANT AND WATER REPELLENT
Scotch-Gard FC-210	WATER REPELLENT
Showerproof	WATERPROOF
Shower resistant	WATER REPELLENT
Storm King	WATER REPELLENT
Super-Kwik-Kare	WRINKLE RESISTANT
TBL	WRINKLE RESISTANT
Tebelized	WRINKLE RESISTANT
Unidure	WRINKLE RESISTANT

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 11

TYPES

Velan
Vitalized
Wash-and-Wear
Water resistant
Water retardant
Wear resistant
Wrinkl-shed
Wurlan
Zelan
Zelan RQ
Zepal B
Zepal D
Zeset

REPLY

WATER REPELLENT
CRUSH RESISTANT
WRINKLE RESISTANT
WATER REPELLENT
WATER REPELLENT
ABRASION RESISTANT
WRINKLE RESISTANT
SHRINK RESISTANT
WATER REPELLENT
WATER REPELLENT
WATER REPELLENT
WATER REPELLENT
WRINKLE RESISTANT

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 12

DEFINITION AND CLARIFICATION OF TERMS

MATERIAL: The input for MRC MATT will be the name of the basic material and the chemical analysis designator when applicable.

CHEMICAL ANALYSIS DESIGNATOR: The assigned designation that represents and indicates the percentage or proportions of the various elements within a material.

MATERIAL DOCUMENT: The specification and/or standard that restricts the percentage or proportions of the various elements within a material.

PHYSICAL PRIORITIES: The various physical conditions of a material/surface treatment such as a class, temper, and etc.

SURFACE TREATMENT: The input for MRC SFTT will be the name of the protective coating and the compound designator when applicable.

COMPOUND DESIGNATION: The assigned designation that represents and indicates the percentage or proportions of various elements within a surface treatment.

DATA CHAIN: A data chain representing an encoded data characteristic in a characteristic description of an item. It consists of the Master Requirement Code, Mode Code and the reply field in coded and/or clear text as designated by the mode code. It may include the Secondary Address Code and the Secondary Address Code Indicator when there is more than one reply within a Master Requirement Code, and may include either of the AND/OR symbols.

Detailed Recording Instructions

- A. An item fabricated from a single material and/or protected by a single surface treatment.

STEEL, QQ-S-634, COMP 1020, COND CD
CADMIUM, QQ-P-416, TYPE 1, CLASS 2.

MATT2AADST1020*
MDCL2AAJBAQQ-S-634, COND CD*
SFTT2AADCD0000*
STDC2AAJBAQQ-P-416, TYPE 1, CLASS 2.

- B. An item fabricated from multiple materials and/or protected by multiple surface treatments.

ALUMINUM ALLOY, QQ-A-250/5, ALLOY 2024, TEMPER 4 and

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 12

STEEL, QQ-S-634, COMP 1020, COND CD.
ANODIZED, MIL-A-8625, TYPE 1, CLASS 1 and
CADMIUM, QQ-P-416, TYPE 1, CLASS 2.

MATT2AADAL2024\$\$DST1020*
MDCL2AAJBBQQ-A-250/5,T4\$\$JBCQQ-S-634, COND CD*
SFTT2AADAN0000\$DCD0000*
STDC2AAJDBMIL-A-8625, TYPE 1, CLASS 1\$\$JBCQQ-P-416,
TYPE 1, CLASS 2*

C. An item fabricated from optional materials and/or protected by optional surface treatments.

ALUMINUM ALLOY, QQ-A-250/5, ALLOY 2024, TEMPER 4 or
STEEL, QQ-S-634, COMP 1020, COND CD and
ANODIZED, MIL-A-8625, TYPE 1, CLASS 1 or
CADMIUM, QQ-P-416, TYPE 1, CLASS 2

MATT2AADAL2024\$DST1020*
MDCL2AAJDDQQ-S-250/5, T4\$JBCQQ-S-634, COND CD*
SFTT2AADAN0000\$DCD0000*
STDC2AAJDBMIL-A-8625, TYPE 1, CLASS 1\$JBCQQ-P-416,
TYPE 1, CLASS 2*.

D. An item fabricated from optional - multiple materials and/or protected by optional - multiple surface treatments.

ALUMINUM ALLOY, QQ-A-250/5, ALLOY 2024, T4 and
STEEL, QQ-S-634,COMP 1020, COND CD or
ALUMINUM ALLOY, QQ-A-250/5, ALLOY 2024, T4 and
STEEL, QQ-S-634, COMP 1040, COND ACD and
ANODIZED, MIL-A-8625, TYPE 1, CLASS 1 and
CADMIUM, QQ-P-416, TYPE 1, CLASS 2 or
ANODIZED, MIL-A-8625, TYPE 1, CLASS 2 and
CADMIUM, QQ-P-416, TYPE 1, CLASS 1.

MATT2AADAL2024\$\$DST1020\$DAL2024\$\$ST1040*
MDCL2AAJBBQQ-A-250/5,T4\$\$JBCQQ-S-634, COND CD\$JBDQQ-A-250/5,
T4\$\$JBEQQ-S-634, COND ACD*

SFTT2AADAN0000\$DCD0000\$DAN0000\$DCD0000*

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SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 12

STDC2AAJDBMIL-A-8625, TYPE 1, CLASS 1\$\$JBCQQ-P-416, TYPE 1,
CLASS 2\$\$JDDMIL-A-8625, TYPE 1, CLASS 2\$\$JBEQQ-P-416, TYPE 1,
CLASS 1*

E. An item fabricated from material that reflects and manufacturers reference.

- (1) ALUMINUM ALLOY, 415136-2125, ALLOY 5052-H32, Texas Instruments, Inc.

MATT2AADAL5052*

MDCL2AAJFA415136-2125, H32, CAGE Code 14859*

- (2) ALUMINUM ALLOY, 521-0194-004, North American Rockwell Corp.

MATT2AADAL0000*

MDCL2AAJFA521-0194-004, CAGE Code 88750*

In the first example E. (1) above, the chemical analysis designator is noted specification/standard, drawing, chemical designator or a combination of all. Therefore, if the chemical analysis designator can not be clearly recognized these numbers will not be entered in MRC MATT, but may be input to MRC MDCL. If only MRCs MATT and SFTT are replied to then it will be considered to be as NOT OTHERWISE SPECIFIED. If both MRC combinations MATT-MDCL and SFTT-STDC are replied to, it is to be considered as NOT OTHERWISE SPECIFIED, as a chemical analysis designator is not readily identifiable, although the data in MRCs MDCL and STDC may restrict the percentage or proportions of the various elements.

F. Many material compositions can be assigned the same chemical analysis designator, but be recognized by various names. Therefore, the following material names will no longer be used for valid material replies:

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SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 12

ALUMINUM BRONZE	If no chemical analysis designator cited use COPPER ALLOY. If a designator is cited use COPPER ALLOY with applicable designator. USE COPPER, ALLOY.
BERYLLIUM COPPER	
BRASS	
BRONZE	
MANGANESE BRONZE	
NICKEL SILVER	
PHOSPHOR BRONZE	
NYLON	Use PLASTIC, POLYIMIDE
POLYIMIDE NYLON	
CRES	If no chemical analysis designator cited use STEEL. If a designator is cited use STEEL with applicable designator.
STEEL, STAINLESS	
STAINLESS STEEL	
CLOTH	Use the specific material of which this type of reply is fabricated from.
FABRIC	
FELT	
FIBER	

When a material such as ALUMINUM-COPPER (NOS) the use of AND (\$\$) will be necessary to record the reply, ALUMINUM AND COPPER. If a specification/standard restricts the percentage or proportions to equal amounts, the dual input to MRC MATT must be utilized. This also will be used for surface treatment.

RUBBER: There are only two replies for RUBBER, NATURAL/SYNTHETIC, as the designations that are being used, cite physical conditions of the material, not the chemical analysis designations. If the data reflected by these designations is required for NSN assignment, requirements must be added to Section I for the data input. If this data is not required for NSN assignment, input the designations to MRC MDCL.

(Explanation of Designations)

TYPE: Environmental Protection CLASS: Natural/Synthetic

GRADE 410: First Digit - Shore A Durometer Hardness Range
Second and Third Digit - Minimum Tensile Strength

SUFFIXES: Indicates additional requirements for that particular grade.

Identified Secondary Address Coding

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 12

The utilization of Identified Secondary Address Coding (ISAC) is essential for characteristic search and screening for National Item Identification Number (NIIN) Assignment. ISAC will be used for all requirements which reflect and/or imply a location. The following examples reflect the use of ISAC for requirements implying a location and those reflecting a location table:

EXAMPLE 1: A material requirement which implies a location by the recording instructions. "For Item Name BOLT,ASSEMBLED WASHER, use Secondary Address Coding for each part, entering replies in reply code sequence."

The recording instructions must be revised to use ISAC for each different part or location of the item, and assign ISAC to each specific part or location.

A BOLT,ASSEMBLED WASHER, the bolt fabricated from STEEL, and the washer from COPPER.

1A	BOLT
1B	WASHER

Coded Input: MATT1ADST0000*
MATT1BDCU0000*

Decoded Output: MATERIAL----STEEL BOLT
COPPER WASHER

EXAMPLE 2: A material and location requirement such as ANNQ will require the use of MRC MATT with ISAC assigned to the location table, and displayed in Appendix C.

A bearing with the INNER RING fabricated from STEEL and the OUTER RING fabricated from STEEL,CORROSION RESISTING.

Coded Input: MATT2AKST0000*
MATT2AMSTB000*

Decoded Output: MATERIAL----STEEL INNER RING
STEEL CORROSION RESISTING OUTER RING

The following are some of the requirements that will be affected:

MATERIAL AND LOCATION
SURFACE TREATMENT AND LOCATION

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 12

SURFACE FINISH AND LOCATION
COLOR AND LOCATION

Relationship of Material and Surface Treatment Requirements

Replies for MRCs MDCL and STDC must be sequenced in the same manner as the data recorded in MRCs MATT and SFTT. Table 1 of MRCS MDCL and STDC is used to establish this relationship. A single input to a data chain is to be considered a single material. This is not to be confused with a location of the material cited through the use of Appendix C, Table 3. A single material indicates that only one material exists for the component being described. For example, the the inner and outer ring of a bearing, each fabricated from different materials:

INNER RING - MATT2AKDAL5086*

2AK	Identifies Inner Ring
AL5086	Single Material

OUTER RING - MATT2AMDAL2024*

2AM	Identifies Outer Ring
AL2024	Single Material

The example reflects a single material for both components of the item as AND/OR coding was not utilized. Relationship must be established when AND/OR is utilized for MRCs MATT OR SFTT. To relate the specification/standard data in MRCs MDCL and STDC to the materials recorded in MRCs MATT and SFTT. To make data intelligible, the following examples are provided:

EXAMPLE 1

Correct use of Table 1, MRCs MDCL and STDC

CODED INPUT--INNER RING:

(A) MATT2AKDAL5086\$\$\$DST4130*

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 12

2AK	Identifies Inner Ring
AL5086	1st Material (input)
\$\$	AND Coding
ST4130	2nd Material

(B) MDCL2AKJBBQQ-A-250/7, T4\$\$JBCQQ-S-634, COND CD*

2AK	Identifies Inner Ring
B	Fed Spec Identifier (Table 1)
B	1st Material Response Identifier (Table 2)
QQ-A-250/7,T4	1st Material Spec/Std
\$\$	AND Coding
B	FedSpec Identifier (Table 1)
C	2nd Material Response Identifier (Table 2)
QQ-S-634,COND CD	2nd Material Spec/Std

DECODE OUTPUT:

MATERIAL----ALUMINUM ALLOY 5086 and STEEL COMP 4130 INNER RING

MATT Document and Classification----FED SPEC QQ-A-250/7, T4 1st Material Response and
FED SPEC QQ-S-634, COND CD 2nd Material Response Inner
Ring

EXAMPLE 2

Incorrect use of Table 1, MRCs MDCL and STDC

(A) CODED INPUT - OUTER RING

MATT2AMDAL5086\$\$DST1040\$DAL2024\$\$DST4130*

2AM	Identifies Outer Ring
AL5086	1st Material (input)
\$\$	AND Coding
ST1040	2nd Material (input) (No Spec/Std)
\$	OR Coding

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 12

AL2024	3rd Material (input)
\$\$	AND Coding
ST4130	4th Material (input)

(B) MDCL2AMJBBQQ-A-250/7, T4\$\$JBCQQ-A-250/5\$\$JBDQQ-S-634*

2AM	Identifies Outer Ring
B	Fed Spec Identifier (Table 1)
B	1st Material Response Identifier (Table 2)
QQ-A-250/7, T4	1st Material Spec/Std
\$\$	AND Coding
B	Fed Spec Identifier (Table 1)
C	2nd Material Response Identifier (Table 2)
QQ-A-250/5	2nd Material Spec/Std
\$	OR Coding
B	Fed Spec Identified (Table 1)
D	3rd Material Response Identifier (Table 3)
QQ-S-634	3rd Material Spec/Std

DECODED OUTPUT - OUTER RING

MATERIAL----ALUMINUM, ALLOY 5086 AND (1st Material)
STEEL, COMP 1040 OR (2nd Material)
ALUMINUM, ALLOY 2024 AND (3rd Material)
STEEL, COMP 4130 OUTER RING (4th Material)

MATERIAL DOCUMENT AND CLASSIFICATION----

FED SPEC QQ-A-250/7, T4 1st Material Response AND (Matches the 1st input)
FED SPEC QQ-A-250/5 2nd Material Response OR
FED SPEC QQ-S-634 3rd Material Response Outer Ring

(Does not match 2nd input MATT as no Spec/Std Outer Ring data reflected the material, therefore, 3rd input does not match)

The decoded data for Example 2 has no meaningful relationship due to improper use of Table 1, as the Spec/Std are erroneous for the recorded data.

The input to MRCs MATT and SFTT must be identified consecutively within each data chain, utilizing Table 2.

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 12

The input to MRCs MATT and SFTT will not be identified consecutively throughout all data chains to a MRC.

See Example 3 for the correct input for Example 2(b).

EXAMPLE 3

Corrected Use of Table 2, MRC MDCL

(B) MDCL2AMJBBQQ-A-250/7, T4\$\$JBDQQ-A-250/5\$JBEQQ-S-634*

2AM	Identifies Outer Ring
B	Fed Spec Identifier (Table 1)
B	1st Material Response Identifier (Table 2)
QQ-A-250/7, T4	1st Material Spec/Std
\$\$	AND Coding
B	Fed Spec Identifier (Table 1)
D	3rd Material Response Identifier (Table 2)
QQ-A-250/5	3rd Material Spec/Std
\$	OR Coding
B	Fed Spec Identifier (Table 1)
E	4th Material Response Identifier (Table 2)
QQ-S-634	4th Material Spec/Std

DECODED OUTPUT:

MATERIAL DOCUMENT AND CLASSIFICATION----

FED SPEC QQ-A-250/7, T4 1st Material Response AND
FED SPEC QQ-A-250/5 3rd Material Response OR
FED SPEC QQ-S-634 4th Material Response Outer Ring

This corrected example reflects a meaningful relationship between MRCs MATT, EXAMPLE 2(a), and MDCL when decoded.

OVERALL: Implies that all components of an item/assembly are fabricated/protected with the same basic material. For example, a desk made of wood may have a glass top and metal drawer pulls, the basic material is wood, glass top, and metal (as defined) drawer pulls.

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 13

DECIMAL EQUIVALENTS FOR VARIOUS WIRE GAGES

Gage No.	AWG or B&S Inches	SWG Inches	MWG Milli- meters
0000000		.50000	
000000	.58000	.46400	
00000	.51650	.43200	
0000	.46000	.40000	
000	.40960	.37200	
00	.36480	.34800	
0	.32490	.32400	
0.5			0.05
1	.28930	.30000	0.10
1.2			0.12
1.4			0.14
1.5			0.15
1.6			0.16
1.8			0.18
2	.25760	.27600	0.20
2.5			0.25
3	.22940	.25200	0.30
3.5			0.35
4	.20430	.23200	0.40
4.5			0.45
5	.18190	.21200	0.50
6	.16200	.19200	0.60
7	.14430	.17600	0.70
8	.12850	.16000	0.80
9	.11440	.14400	0.90
10	.10190	.12800	1.00
11	.09074	.11600	
12	.08081	.10400	1.20
13	.07196	.09200	
14	.06408	.08000	1.40
15	.05707	.07200	
16	.05082	.06400	1.60

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Table 13

Gage No.	AWG or B&S Inches	SWG Inches	MWG Milli- meters
17	.04526	.05600	
18	.04030	.04800	1.80
19	.03589	.04000	
20	.03196	.03600	2.00
21	.02846	.03200	
22	.02535	.02800	
23	.02257	.02400	
24	.02010	.02200	
25	.01790	.02000	2.50
26	.01594	.01800	
27	.01420	.01640	
28	.01264	.01480	
29	.01126	.01360	
30	.01003	.01240	3.00
31	.00893	.01160	
32	.00795	.01080	
33	.00708	.01000	
34	.00631	.00920	
35	.00562	.00840	3.50
36	.00500	.00760	
37	.00445	.00680	
38	.00397	.00600	
39	.00353	.00520	
40	.00315	.00480	4.00
41	.00280	.00440	
42	.00249	.00400	
43	.00222	.00360	
44	.00198	.00320	
45	.00176	.00280	4.50
46	.00157	.00240	
47	.00140	.00200	
48	.00124	.00160	
49	.00111	.00120	
50	.00099	.00100	

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SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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Table 13

Gage No.	AWG or B&S Inches	SWG Inches	MWG Milli- meters
60			6.00
70			7.00
80			8.00
90			9.00
100			10.00

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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Table 14

WELDED AND SEAMLESS CORROSION RESISTING STEEL

(Extracted from American Standard Stainless Steel Pipe (ASA B30.19-1949), with the permission of the publisher, the American Society of Mechanical Engineers, 29 W. 39th St., New York 18, N.Y.)

Nominal Pipe Size	Outside Diameter	Nominal Wall Thickness		
		Schedule 10S**	Schedule 40S	Schedule 80S
1/8	0.405	0.049	0.068	0.095
1/4	0.540	0.065	0.088	0.119
3/8	0.675	0.065	0.091	0.126
1/2	0.840	0.083	0.109	0.147
3/4	1.050	0.083	0.113	0.154
1	1.315	0.109	0.133	0.179
1-1/4	1.660	0.109	0.140	0.191
1-1/2	1.900	0.109	0.145	0.200
2	2.375	0.109	0.154	0.218
2-1/2	2.875	0.120	0.203	0.276
3	3.500	0.120	0.216	0.300
3-1/2	4.000	0.120	0.226	0.318
4	4.500	0.120	0.237	0.337
5	5.563	0.134	0.258	0.375
6	6.625	0.134	0.280	0.432
8	8.625	0.148	0.322	0.500
10	10.750	0.165	0.365	0.500*
12	12.750	0.180	0.375*	0.500*

*These do not conform to ASA B36.10.

**Schedule. 10S wall thickness does not permit threading in accordance with ASA B2.1.

All dimensions are given in inches.

The decimal thickness listed for the respective pipe sizes represent their Nominal or average wall dimensions.

Unless otherwise provided by the specification, the actual wall thickness at any point shall not be more than 12.5 percent under the nominal wall thickness shown in the tables. Permissible variations in other

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SAMPLE OF NEW CONCEPT FIG**

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Table 14

dimensions are indicated in ASTM Specifications for seamless Alloy-Steel Pipe for High-Temperature Service (A 158) and seamless and Welded Austenitic Stainless Steel Pipe (A 312).

NOTE -- Items conforming to the above dimensions shall be applicable to "PIPE"; all other dimensions shall be applicable to "TUBE".

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Table 15
WEAVE TYPES

NOTE: THE THREE BASIC WEAVES ARE: PLAIN, SATIN, AND TWILL; ALL OTHER WEAVES, INCLUDING THE MOST INTRICATE, ARE DERIVED FROM ONE OR MORE OF THESE THREE.

<u>TYPE</u>	<u>REPLY</u>
American Twill	TWILL
Arrowhead Twill	NOVELTY
Artillery Twill	TWILL
Austrian Twill	TWILL
Birdseye	DOBBY
Birdseye Diamond	DOBBY
Birdseye Pique	DOBBY
Bedford Cord	NOVELTY
Braided Twill	TWILL
Blanket Twill	TWILL
Broken Twill	NOVELTY
Broken Crow	NOVELTY
Buckskin	SATIN
Calico	PLAIN
Cashmere Twill	TWILL
Cassimere Twill	TWILL
Chain Twill	TWILL
Chain	NOVELTY
Chevron	NOVELTY
Clay Twill	TWILL
Combination	NOVELTY
Common Twill	TWILL
Compound Twill	NOVELTY
Corkscrew Twill	TWILL
Cotton	PLAIN
Covert	SATIN or TWILL
Crowfoot Twill	SATIN or TWILL
Crow Twill	SATIN or TWILL
Crow	SATIN or TWILL
Curved Twill	TWILL
Deigwara Twill	NOVELTY
Devon	DOBBY

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Table 15

<u>TYPE</u>	<u>REPLY</u>
Diagonal	TWILL
Diamond	DOBBY or TWILL
Doeskin	SATIN
Double Satin	SATIN
Double Twill	TWILL
Doup	LENO
Fancy	NOVELTY
Feather Twill	NOVELTY
Figured	DOBBY, JACQUARD, or NOVELTY
Four Harness Broken Twill	TWILL
Four Harness Satin Twill	TWILL
Filling Rib	NOVELTY
Full Gauze	LENO
Gala Twill	TWILL
Gauze	LENO
Genoa Twill	TWILL
Granite	NOVELTY
Herringbone Twill	NOVELTY
Herringbone	NOVELTY
Honeycomb	DOBBY
Honeycomb Huck	DOBBY
Hopsack	BASKET
Huck	DOBBY
Huckaback	DOBBY
Linen	PLAIN
Lino	LENO
Marquissette	LENO
Mat	BASKET
Matt	BASKET
Momie	NOVELTY
Muslin	PLAIN
Oatmeal	NOVELTY
Offset Twill	TWILL
One-Up-One-Down	PLAIN
Ordinary Twill	TWILL
Oxford	BASKET

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SAMPLE OF NEW CONCEPT FIG

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Table 15

<u>TYPE</u>	<u>REPLY</u>
Panama	BASKET
Pebble	NOVELTY
Plain Gauze	LENO
Regular Twill	TWILL
Rib	NOVELTY
Rice	TWILL
Sateen	SATIN
Shaded	NOVELTY
Shalloon Twill	TWILL
Skip Twill	TWILL
Soleil	NOVELTY
Square	PLAIN
Stockingette	TWILL
Swansdown Twill	SATIN or TWILL
Tabby	PLAIN
Taffeta	PLAIN
Terry	PILE
Three-End Twill	TWILL
Three-Harness Twill	TWILL
Three-Leaf Twill	TWILL
Three-Shaft Twill	TWILL
Tricot	NOVELTY
Undulating Twill	TWILL
Waffle	DOBBY
Warp Rib	NOVELTY

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SAMPLE OF NEW CONCEPT FIG

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Table 16
METRIC CONVERSION CHART

METRIC CONVERSION CHART

ORIGINAL VALUE	DESIRED VALUE																
	Prefix	Tera	Giga	Mega	Myria	Kilo	Hecto	Deka	*Unit	Deci	Centi	Milli	Micro	Nano	Pico	Femto	Atto
Power of 10	10^{12}	10^9	10^6	10^4	10^3	10^2	10^1	10^0	10^{-1}	10^{-2}	10^{-3}	10^{-6}	10^{-9}	10^{-12}	10^{-15}	10^{-18}	
Tera	10^{12}	3→	6→	8→	9→	10→	11→	12→	13→	14→	15→	18→	21→	24→	27→	30→	
Giga	10^9	+3	3→	5→	6→	7→	8→	9→	10→	11→	12→	15→	18→	21→	24→	27→	
Mega	10^6	+6	+3	2→	3→	4→	5→	6→	7→	8→	9→	12→	15→	18→	21→	24→	
Myria	10^4	+8	+5	+2	1→	2→	3→	4→	5→	6→	7→	10→	13→	16→	19→	22→	
Kilo	10^3	+9	+6	+3	+1	1→	2→	3→	4→	5→	6→	9→	12→	15→	18→	21→	
Hecto	10^2	+10	+7	+4	+2	+1	1→	2→	3→	4→	5→	8→	11→	14→	17→	20→	
Deka	10^1	+11	+8	+5	+3	+2	+1	1→	2→	3→	4→	7→	10→	13→	16→	19→	
*Unit	10^0	+12	+9	+6	+4	+3	+2	+1	1→	2→	3→	6→	9→	12→	15→	18→	
Deci	10^{-1}	+13	+10	+7	+5	+4	+3	+2	+1	1→	2→	5→	8→	11→	14→	17→	
Centi	10^{-2}	+14	+11	+8	+6	+5	+4	+3	+2	+1	1→	4→	7→	10→	13→	16→	
Milli	10^{-3}	+15	+12	+9	+7	+6	+5	+4	+3	+2	+1	3→	6→	9→	12→	15→	
Micro	10^{-6}	+18	+15	+12	+10	+9	+8	+7	+6	+5	+4	+3	3→	6→	9→	12→	
Nano	10^{-9}	+21	+18	+15	+13	+12	+11	+10	+9	+8	+7	+6	+3	3→	6→	9→	
Pico	10^{-12}	+24	+21	+18	+16	+15	+14	+13	+12	+11	+10	+9	+6	+3	3→	6→	
Femto	10^{-15}	+27	+24	+21	+19	+18	+17	+16	+15	+14	+13	+12	+9	+6	+3	3→	
Atto	10^{-18}	+30	+27	+24	+22	+21	+20	+19	+18	+17	+16	+15	+12	+9	+6	+3	

* The notation "Unit" represents the basic unit of measurement, such as amperes, farads, grams, hertz, meters, ohms, volts, watts, etc.

To convert from one notation (metric or a power of 10) to another, locate the original or given value in the left-hand column. Follow this line horizontally to the vertical column headed by the desired notation. The figure and arrow at the intersection of these two columns indicates the direction and number of places the decimal point is to be moved (e.g., to convert 25,000 kilohertz to megahertz, at the intersection of the horizontal column for kilo and the vertical column for mega find the figure and directional arrow +3. Thus, shifting the decimal in 25,000 kilohertz 3 places to the left results in the value of 25 megahertz).

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SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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APPENDIX C

TABLE 17
METRIC CONVERSION TABLE

Metric Measures of Length

10 millimeters (symbol mm.)	= 1 centimeter (symbol cm.)
10 centimeters	= 1 decimeter (symbol dm.)
10 decimeters	= 1 meter (symbol m.)
10 meters	= 1 dekameter (symbol Dm.)
10 dekameters	= 1 hectometer (symbol Hm.)
10 hectometers	= 1 kilometer (symbol Km.)

Conversion Tables

1 meter	=	39.37 inches = 3.28083 feet = 1.0936 yards
1 centimeter	=	.3937 inch
1 millimeter	=	.03937 inch = 1/25 inch, approximately
1 kilometer	=	.62137 mile
1 foot	=	.3048 meter
1 inch	=	2.54 centimeters = 25.4 millimeters

Table for Converting Millimeters to Inches and Decimals

mm.	inches	mm.	inches	mm.	inches	mm.	inches
1 =	.03937	26 =	1.02362	51 =	2.00787	76 =	2.99212
2 =	.07874	27 =	1.06299	52 =	2.04724	77 =	3.03149
3 =	.11811	28 =	1.10236	53 =	2.08661	78 =	3.07086
4 =	.15748	29 =	1.14173	54 =	2.12598	79 =	3.11023
5 =	.19685	30 =	1.18110	55 =	2.16535	80 =	3.14960
6 =	.23622	31 =	1.22047	56 =	2.20472	81 =	3.18897
7 =	.27559	32 =	1.25984	57 =	2.24409	82 =	3.22834
8 =	.31496	33 =	1.29921	58 =	2.28346	83 =	3.26771
9 =	.35433	34 =	1.33858	59 =	2.32283	84 =	3.30708
10 =	.39370	35 =	1.37796	60 =	2.36220	85 =	3.34645
11 =	.43307	36 =	1.41732	61 =	2.40157	86 =	3.38582
12 =	.47244	37 =	1.45669	62 =	2.44094	87 =	3.42519
13 =	.51181	38 =	1.49606	63 =	2.48031	88 =	3.46456

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SAMPLE OF NEW CONCEPT FIIG

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TABLE 17

mm.	inches	mm.	inches	mm.	inches	mm.	inches
14 =	.55118	39 =	1.53543	64 =	2.51968	89 =	3.50393
15 =	.59055	40 =	1.57480	65 =	2.55905	90 =	3.54330
16 =	.62992	41 =	1.61417	66 =	2.59842	91 =	3.58267
17 =	.66929	42 =	1.65354	67 =	2.63770	92 =	3.62204
18 =	.70866	43 =	1.69291	68 =	2.67716	93 =	3.66141
19 =	.74803	44 =	1.73228	69 =	2.71653	94 =	3.70078
20 =	.78740	45 =	1.77165	70 =	2.75590	95 =	3.74015
21 =	.82677	46 =	1.81102	71 =	2.79527	96 =	3.77952
22 =	.86614	47 =	1.85039	72 =	2.83464	97 =	3.81889
23 =	.90551	48 =	1.88976	73 =	2.87101	98 =	3.85826
24 =	.94488	49 =	1.92913	74 =	2.91338	99 =	3.89763
25 =	.98425	50 =	1.96850	75 =	2.95275	100 =	3.93700

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SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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APPENDIX C

Table 18

THREAD SIZE/SERIES

UNIFIED SCREW THREADS (INCLUDING SPECIAL THREADS)

Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design
0-80 OR	UNF	10-24 OR	UNC	1/4-24 OR	UNS
.060-80		.190-24		.250-24	
1-64 OR	UNC	10-28 OR	UNS	1/4-27 OR	UNS
.073-64		.190-28		.250-27	
1.72 OR	UNF	10-32 OR	UNF	1/4-28 OR	UNF
.073-72		.190-32		.250-28	
2-56 OR	UNC	10-36 OR	UNS	1/4-32 OR	UNEF
.086-56		.190-36		.250-32	
2-64 OR	UNF	10-40 OR	UNS	1/4-36 OR	UNS
.086-64		.190-40		.250-36	
3-48 OR	UNC	10-48 OR	UNS	1/4-40 OR	UNS
.099-48		.190-48		.250-40	
3-56 OR	UNF	10-56 OR	UNS	1/4-48 OR	UNS
.099-56		.190-56		.250-48	
4-40 OR	UNC	12-24 OR	UNC	1/4-56 OR	UNS
.112-40		.216-24		.250-56	
4-48 OR	UNF	12-28 OR	UNF	5/16-18 OR	UNC
.112-48		.216-28		.312-18	
5-40 OR	UNC	12-32 OR	UNEF	5/16-20 OR	UN
.125-40		.216-32		.312-20	
5-44 OR	UNF	12-36 OR	UNS	5/16-24 OR	UNF
.125-44		.216-36		.312-24	
6-32 OR	UNC	12-40 OR	UNS	5/16-27 OR	UNS
.138-32		.216-40		.312-27	
6-40 OR	UNF	12-48 OR	UNS	5/16-28 OR	UN
.138-40		.216-48		.312-28	
8-32 OR	UNC	12-56 OR	UNS	5/16-32 OR	UNEF
.164-32		.216-56		.312-32	
8-36 OR	UNF	1/4-20 OR	UNC	5/16-36 OR	UNS
.164-36		.250-20		.312-36	

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SAMPLE OF NEW CONCEPT FHIG

FHIG SAMPLE
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Table 18

Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design
5/16-40 OR .312-40	UNS	7/16-28 OR .438-28	UNEF	9/16-16 OR .562-16	UN
5/16-48 OR .312-48	UNS	7/16-32 OR .438-32	UN	9/16-18 OR .562-18	UNF
3/8-16 OR .375-16	UNC	7/16-36 OR .438-36	UNS	9/16-20 OR .562-20	UN
3/8-18 OR .375-18	UNS	7/16-40 OR .438-40	UNS	9/16-24 OR .562-24	UNEF
3/8-20 OR .375-20	UN	1/2-12 OR .500-12	UNS	9/16-27 OR .562-27	UNS
3/8-24 OR .375-24	UNF	1/2-13 OR .500-13	UNC	9/16-28 OR .562-28	UN
3/8-27 OR .375-27	UNS	1/2-14 OR .500-14	UNS	9/16-32 OR .562-32	UN
3/8-28 OR .375-28	UN	1/2-16 OR .500-16	UN	9/16-36 OR .562-36	UNS
3/8-32 OR .375-32	UNEF	1/2-18 OR .500-18	UNS	9/16-40 OR .562-40	UNS
3/8-36 OR .375-36	UNS	1/2-20 OR .500-20	UNF	5/8-11 OR .625-11	UNC
3/8-40 OR .375-40	UNS	1/2-24 OR .500-24	UNS	5/8-12 OR .625-12	UN
.390-27	UNS	1/2-27 OR .500-27	UNS	5/8-14 OR .625-14	UNS
7/16-14 OR .438-14	UNC	1/2-28 OR .500-28	UNEF	5/8-16 OR .625-16	UN
7/16-16 OR .438-16	UN	1/2-32 OR .500-32	UN	5/8-18 OR .625-18	UNF
7/16-18 OR .438-18	UNS	1/2-36 OR .500-36	UNS	5/8-20 OR .625-20	UN
7/16-20 OR .438-20	UNF	1/2-40 OR .500-40	UNS	5/8-24 OR .625-24	UNEF
7/16-24 OR .438-24	UNS	9/16-12 OR .562-12	UNC	5/8-27 OR .625-27	UNS
7/16-27 OR .438-27	UNS	9/16-14 OR .562-14	UNS	5/8-28 OR .625-28	UN

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SAMPLE OF NEW CONCEPT FIIG

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Table 18

Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design
5/8-32 OR .625-32	UN	3/4-32 OR .750-32	UN	7/8-32 OR .875-32	UN
5/8-36 OR .625-36	UNS	3/4-36 OR .750-36	UNS	7/8-36 OR .875-36	UNS
5/8-40 OR .625-40	UNS	3/4-40 OR .750-40	UNS	7/8-40 OR .875-40	UNS
11/16-12 OR .688-12	UN	13/16-12 OR .812-12	UN	15/16-12 OR .938-12	UN
11/16-16 OR .688-16	UN	13/16-16 OR .812-16	UN	15/16-16 OR .938-16	UN
11/16-20 OR .688-20	UN	13/16-20 OR .812-20	UNEF	15/16-20 OR .938-20	UNEF
11/16-24 OR .688-24	UNEF	13/16-28 OR .812-28	UN	15/16-28 OR .938-28	UN
11/16-28 OR .688-28	UN	13/16-32 OR .812-32	UN	15/16-32 OR .938-32	UN
11/16-32 OR .688-32	UN	7/8-9 OR .875-9	UNC	1-8 OR 1.000-8	UNC
3/4-10 OR .750-10	UNC	7/8-10 OR .875-10	UNS	1-10 OR 1.000-10	UNS
3/4-12 OR .750-12	UN	7/8-12 OR .875-12	UN	1-12 OR 1.000-12	UNF
3/4-14 OR .750-14	UNS	7/8-14 OR .875-14	UNF	1-14 OR 1.000-14	UNS
3/4-16 OR .750-16	UNF	7/8-16 OR .875-16	UN	1-16 OR 1.000-16	UN
3/4-18 OR .750-18	UNS	7/8-18 OR .875-18	UNS	1-18 OR 1.000-18	UNS
3/4-20 OR .750-20	UNEF	7/8-20 OR .875-20	UNEF	1-20 OR 1.000-20	UNEF
3/4-24 OR .750-24	UNS	7/8-24 OR .875-24	UNS	1-24 OR 1.000-24	UNS
3/4-27 OR .750-27	UNS	7/8-27 OR .875-27	UNS	1-27 OR 1.000-27	UNS
3/4-28 OR .750-28	UN	7/8-28 OR .875-28	UN	1-28 OR 1.000-28	UN

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SAMPLE OF NEW CONCEPT FIIG

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Table 18

Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design
1-32 OR 1.000-32	UN	1 1/8-28 OR 1.125-28	UN	1 5/16-12 OR 1.312-12	UN
1-36 OR 1.000-36	UNS	1 3/16-8 OR 1.188-8	UN	1 5/16-16 OR 1.312-16	UN
1-40 OR 1.000-40	UNS	1 3/16-12 OR 1.188-12	UN	1 5/16-18 OR 1.312-18	UNEF
1 1/16-8 OR 1.062-8	UN	1 3/16-16 OR 1.188-16	UN	1 5/16-20 OR 1.312-20	UN
1 1/16-12 OR 1.062-12	UN	1 3/16-18 OR 1.188-18	UNEF	1 5/16-28 OR 1.312-28	UN
1 1/16-16 OR 1.062-16	UN	1 3/16-20 OR 1.188-20	UN	1 3/8-6 OR 1.375-6	UNC
1 1/16-18 OR 1.062-18	UNEF	1 3/16-28 OR 1.188-28	UN	1 3/8-8 OR 1.375-8	UN
1 1/16-20 OR 1.062-20	UN	1 1/4-7 OR 1.250-7	UNC	1 3/8-10 OR 1.375-10	UNS
1 1/16-28 OR 1.062-28	UN	1 1/4-8 OR 1.250-8	UN	1 3/8-12 OR 1.375-12	UNF
1 1/8-7 OR 1.125-7	UNC	1 1/4-10 OR 1.250-10	UNS	1 3/8-14 OR 1.375-14	UNS
1 1/8-8 OR 1.125-8	UN	1 1/4-12 OR 1.250-12	UNF	1 3/8-16 OR 1.375-16	UN
1 1/8-10 OR 1.125-10	UNS	1 1/4-14 OR 1.250-14	UNS	1 3/8-18 OR 1.375-18	UNEF
1 1/8-12 OR 1.125-12	UNF	1 1/4-16 OR 1.250-16	UN	1 3/8-20 OR 1.375-20	UN
1 1/8-14 OR 1.125-14	UNS	1 1/4-18 OR 1.250-18	UNEF	1 3/8-24 OR 1.375-24	UNS
1 1/8-16 OR 1.125-16	UN	1 1/4-20 OR 1.250-20	UN	1 3/8-28 OR 1.375-28	UN
1 1/8-18 OR 1.125-18	UNEF	1 1/4-24 OR 1.250-24	UNS	1 7/16-6 OR 1.438-6	UN
1 1/8-20 OR 1.125-20	UN	1 1/4-28 OR 1.250-28	UN	1 7/16-8 OR 1.438-8	UN
1 1/8-24 OR 1.125-24	UNS	1 5/16-8 OR 1.312-8	UN	1 7/16-12 OR 1.438-12	UN

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 18

Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design
1 7/16-16 OR 1.438-16	UN	1 9/16-18 OR 1.562-18	UNEF	1 3/4-6 OR 1.750-6	UN
1 7/16-18 OR 1.438-18	UNEF	1 9/16-20 OR 1.562-20	UN	1 3/4-8 OR 1.750-8	UN
1 7/16-20 OR 1.438-20	UN	1 5/8-6 OR 1.625-6	UN	1 3/4-10 OR 1.750-10	UNS
1 7/16-28 OR 1.438-28	UN	1 5/8-8 OR 1.625-8	UN	1 3/4-12 OR 1.750-12	UN
1 1/2-6 OR 1.500-6	UNC	1 5/8-10 OR 1.625-10	UNS	1 3/4-14 OR 1.750-14	UNS
1 1/2-8 OR 1.500-8	UN	1 5/8-12 OR 1.625-12	UN	1 3/4-16 OR 1.750-16	UN
1 1/2-10 OR 1.500-10	UNS	1 5/8-14 OR 1.625-14	UNS	1 3/4-18 OR 1.750-18	UNS
1 1/2-12 OR 1.500-12	UNF	1 5/8-16 OR 1.625-16	UN	1 3/4-20 OR 1.750-20	UN
1 1/2-14 OR 1.500-14	UNS	1 5/8-18 OR 1.625-18	UNEF	1 13/16-6 OR 1.812-6	UN
1 1/2-16 OR 1.500-16	UN	1 5/8-20 OR 1.625-20	UN	1 13/16-8 OR 1.812-8	UN
1 1/2-18 OR 1.500-18	UNEF	1 5/8-24 OR 1.625-24	UNS	1 13/16-12 OR 1.812-12	UN
1 1/2-20 OR 1.500-20	UN	1 11/16-6 OR 1.688-6	UN	1 13/16-16 OR 1.812-16	UN
1 1/2-24 OR 1.500-24	UNS	1 11/16-8 OR 1.688-8	UN	1 13/16-20 OR 1.812-20	UN
1 1/2-28 OR 1.500-28	UN	1 11/16-12 OR 1.688-12	UN	1 7/8-6 OR 1.875-6	UN
1 9/16-6 OR 1.562-6	UN	1 11/16-16 OR 1.688-16	UN	1 7/8-8 OR 1.875-8	UN
1 9/16-8 OR 1.562-8	UN	1 11/16-18 OR 1.688-18	UNEF	1 7/8-10 OR 1.875-10	UNS
1 9/16-12 OR 1.562-12	UN	1 11/16-20 OR 1.688-20	UN	1 7/8-12 OR 1.875-12	UN
1 9/16-16 OR 1.562-16	UN	1 3/4-5 OR 1.750-5	UNC	1 7/8-14 OR 1.875-14	UNS

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 18

Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design
1 7/8-16 OR 1.875-16	UN	2 1/8-6 OR 2.125-6	UN	2 3/8-12 OR 2.375-12	UN
1 7/8-18 OR 1.875-18	UNS	2 1/8-8 OR 2.125-8	UN	2 3/8-16 OR 2.375-16	UN
1 7/8-20 OR 1.875-20	UN	2 1/8-12 OR 2.125-12	UN	2 3/8-20 OR 2.375-20	UN
1 15/16-6 OR 1.938-6	UN	2 1/8-16 OR 2.125-16	UN	2 7/16-16 OR 2.438-16	UNS
1 15/16-8 OR 1.938-8	UN	2 1/8-20 OR 2.125-20	UN	2 1/2-4 OR 2.500-4	UNC
1 15/16-12 OR 1.938-12	UN	2 3/16-16 OR 2.188-16	UNS	2 1/2-6 OR 2.500-6	UN
1 15/16-16 OR 1.938-16	UN	2 1/4-4 1/2 OR 2.250-4.5	UNC	2 1/2-8 OR 2.500-8	UN
1 15/16-20 OR 1.938-20	UN	2 1/4-6 OR 2.250-6	UN	2 1/2-10 OR 2.500-10	UNS
2-4 1/2 OR 2.000-4.5	UNC	2 1/4-8 OR 2.250-8	UN	2 1/2-12 OR 2.500-12	UN
2-6 OR 2.000-6	UN	2 1/4-10 OR 2.250-10	UNS	2 1/2-14 OR 2.500-14	UNS
2-8 OR 2.000-8	UN	2 1/4-12 OR 2.250-12	UN	2 1/2-16 OR 2.500-16	UN
2-10 OR 2.000-10	UNS	2 1/4-14 OR 2.250-14	UN	2 1/2-18 OR 2.500-18	UNS
2-12 OR 2.000-12	UN	2 1/4-16 OR 2.250-16	UN	2 1/2-20 OR 2.500-20	UN
2-14 OR 2.000-14	UNS	2 1/4-18 OR 2.250-18	UNS	2 5/8-6 OR 2.625-6	UN
2-16 OR 2.000-16	UN	2 1/4-20 OR 2.250-20	UN	2 5/8-8 OR 2.625-8	UN
2-18 OR 2.000-18	UNS	2 5/16-16 OR 2.312-16	UNS	2 5/8-12 OR 2.625-12	UN
2-20 OR 2.000-20	UN	2 3/8-6 OR 2.375-6	UN	2 5/8-16 OR 2.625-16	UN
2 1/16-16 OR 2.062-16	UNS	2 3/8-8 OR 2.375-8	UN	2 5/8-20 OR 2.625-20	UN

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 18

Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design
2 3/4-4 OR 2.750-4	UNC	3-12 OR 3.000-12	UN	3 3/8-8 OR 3.375-8	UN
2 3/4-6 OR 2.750-6	UN	3-14 OR 3.000-14	UNS	3 3/8-12 OR 3.375-12	UN
2 3/4-8 OR 2.750-8	UN	3-16 OR 3.000-16	UN	3 3/8-16 OR 3.375-16	UN
2 3/4-10 OR 2.750-10	UNS	3-18 OR 3.000-18	UNS	3 1/2-4 OR 3.500-4	UNC
2 3/4-12 OR 2.750-12	UN	3-20 OR 3.000-20	UN	3 1/2-6 OR 3.500-6	UN
2 3/4-14 OR 2.750-14	UNS	3 1/8-6 OR 3.125-6	UN	3 1/2-8 OR 3.500-8	UN
2 3/4-16 OR 2.750-16	UN	3 1/8-8 OR 3.125-8	UN	3 1/2-10 OR 3.500-10	UNS
2 3/4-18 OR 2.750-18	UNS	3 1/8-12 OR 3.125-12	UN	3 1/2-12 OR 3.500-12	UN
2 3/4-20 OR 2.750-20	UN	3 1/8-16 OR 3.125-16	UN	3 1/2-14 OR 3.500-14	UNS
2 7/8-6 OR 2.875-6	UN	3 1/4-4 OR 3.250-4	UNC	3 1/2-16 OR 3.500-16	UN
2 7/8-8 OR 2.875-8	UN	3 1/4-6 OR 3.250-6	UN	3 1/2-18 OR 3.500-18	UNS
2 7/8-12 OR 2.875-12	UN	3 1/4-8 OR 3.250-8	UN	3 5/8-6 OR 3.625-6	UN
2 7/8-16 OR 2.875-16	UN	3 1/4-10 OR 3.250-10	UNS	3 5/8-8 OR 3.625-8	UN
2 7/8-20 OR 2.875-20	UN	3 1/4-12 OR 3.250-12	UN	3 5/8-12 OR 3.625-12	UN
3-4 OR 3.000-4	UNC	3 1/4-14 OR 3.250-14	UNS	3 5/8-16 OR 3.625-16	UN
3-6 OR 3.000-6	UN	3 1/4-16 OR 3.250-16	UN	3 3/4-4 OR 3.750-4	UNC
3-8 OR 3.000-8	UN	3 1/4-18 OR 3.250-18	UNS	3 3/4-6 OR 3.750-6	UN
3-10 OR 3.000-10	UNS	3 3/8-6 OR 3.375-6	UN	3 3/4-8 OR 3.750-8	UN

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 18

Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design
3 3/4-10 OR 3.750-10	UNS	4 1/8-16 OR 4.125-16	UN	4 5/8-16 OR 4.625-16	UN
3 3/4-12 OR 3.750-12	UN	4 1/4-4 OR 4.250-4	UN	4 3/4-4 OR 4.750-4	UN
3 3/4-14 OR 3.750-14	UNS	4 1/4-6 OR 4.250-6	UN	4 3/4-6 OR 4.750-6	UN
3 3/4-16 OR 3.750-16	UN	4 1/4-10 OR 4.250-10	UNS	4 3/4-10 OR 4.750-10	UNS
3 3/4-18 OR 3.750-18	UNS	4 1/4-12 OR 4.250-12	UN	4 3/4-12 OR 4.750-12	UN
3 7/8-6 OR 3.875-6	UN	4 1/4-14 OR 4.250-14	UNS	4 3/4-14 OR 4.750-14	UNS
3 7/8-8 OR 3.875-8	UN	4 1/4-16 OR 4.250-16	UN	4 3/4-16 OR 4.750-16	UN
3 7/8-12 OR 3.875-12	UN	4 3/8-6 OR 4.375-6	UN	4 7/8-6 OR 4.875-6	UN
3 7/8-16 OR 3.875-16	UN	4 3/8-12 OR 4.375-12	UN	4 7/8-12 OR 4.875-12	UN
4-4 OR 4.000-4	UNC	4 3/8-16 OR 4.375-16	UN	4 7/8-16 OR 4.875-16	UN
4-6 OR 4.000-6	UN	4 1/2-4 OR 4.500-4	UN	5-4 OR 5.000-4	UN
4-8 OR 4.000-8	UN	4 1/2-6 OR 4.500-6	UN	5-6 OR 5.000-6	UN
4-10 OR 4.000-10	UNS	4 1/2-10 OR 4.500-10	UNS	5-10 OR 5.000-10	UNS
4-12 OR 4.000-12	UN	4 1/2-12 OR 4.500-12	UN	5-12 OR 5.000-12	UN
4-14 OR 4.000-14	UNS	4 1/2-14 OR 4.500-14	UNS	5-14 OR 5.000-14	UNS
4-16 OR 4.000-16	UN	4 1/2-16 OR 4.500-16	UN	5-16 OR 5.000-16	UN
4 1/8-6 OR 4.125-6	UN	4 5/8-6 OR 4.625-6	UN	5 1/8-12 OR 5.125-12	UN
4 1/8-12 OR 4.125-12	UN	4 5/8-12 OR 4.625-12	UN	5 1/8-16 OR 5.125-16	UN

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 18

Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design	Nominal Size and Threads Per Inch	Series Design
5 1/4-4 OR 5.250-4	UN	5 1/2-12 OR 5.500-12	UN	5 3/4-16 OR 5.750-16	UN
5 1/4-10 OR 5.250-10	UNS	5 1/2-14 OR 5.500-14	UNS	5 7/8-12 OR 5.875-12	UN
5 1/4-12 OR 5.250-12	UN	5 1/2-16 OR 5.500-16	UN	5 7/8-16 OR 5.875-16	UN
5 1/4-14 OR 5.250-14	UNS	5 5/8-12 OR 5.625-12	UN	6-4 OR 6.000-4	UN
5 1/4-16 OR 5.250-16	UN	5 5/8-16 OR 5.625-16	UN	6-10 OR 6.000-10	UNS
5 3/8-12 OR 5.375-12	UN	5 3/4-4 OR 5.750-4	UN	6-12 OR 6.000-12	UN
5 3/8-16 OR 5.375-16	UN	5 3/4-10 OR 5.750-10	UNS	6-14 OR 6.000-14	UNS
5 1/2-4 OR 5.500-4	UN	5 3/4-12 OR 5.750-12	UN	6-16 OR 6.000-16	UN
5 1/2-10 OR 5.500-10	UNS	5 3/4-14 OR 5.750-14	UNS		

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 19
RADIONUCLIDES DATA

<u>REPLY CODE</u>	<u>REPLY</u>	<u>RADIONUCLIDES</u>
AAAB	ACTINIUM (89)	AC-227
AAAC	ACTINIUM (89)	AC-228
AAAD	AMERICIUM (95)	AM-241
AAAE	AMERICIUM (95)	AM-243
AAAF	ANTIMONY (51)	SB-122
AAAG	ANTIMONY (51)	SB-124
AAAH	ANTIMONY (51)	SB-125
AAAJ	ARGON (18)	AR-37
AAAK	ARGON (18)	AR-41
AAAL	ARGON (18)	AR-41, UNCOMPRESSED
AAAM	ARSENIC (33)	AS-73
AAAN	ARSENIC (33)	AS-74
AAAP	ARSENIC (33)	AS-76
AAAQ	ARSENIC (33)	AS-77
AAAR	ASTATINE (85)	AT-211
AAAS	BARIUM (56)	BA-131
AAAT	BARIUM (56)	BA-133
AAAW	BARIUM (56)	BA-140
AAAX	BERKELIUM (97)	BK-249
AAAY	BERYLLIUM (4)	BE-7
AAAZ	BISMUTH (83)	BI-206
AABA	BISMUTH (83)	BI-207
AABB	BISMUTH (83)	BI-210
AABC	BUSMUTH (83)	BI-212
AABD	BROMINE (35)	BR-82
AABE	CADMIUM (48)	CD-109
AABF	CADMIUM (48)	CD-115M
AABG	CADMIUM (48)	CD-115
AABH	CALCIUM (20)	CA-45
AABJ	CALCIUM (20)	CA-47
AABK	CALIFORNIUM (98)	CF-249
AABL	CALIFORNIUM (98)	CF-250
AABM	CALIFORNIUM (98)	CF-252
AABN	CARBON (6)	C-14
AABP	CERIUM (58)	CE-141
AABQ	CERIUM (58)	CE-143
AABR	CERIUM (58)	CE-144
AABS	CESIUM (55)	CS-131

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 0000
APPENDIX C

Table 19

<u>REPLY CODE</u>	<u>REPLY</u>	<u>RADIONUCLIDES</u>
AABT	CESIUM (55)	CS-134M
AABW	CESIUM (55)	CS-134
AABX	CESIUM (55)	CS-135
AABY	CESIUM (55)	CS-136
AABZ	CESIUM (55)	CS-137
AACA	CHLORINE (17)	CL-36
AACB	CHLORINE (17)	CL-38
AACC	CHROMIUM (24)	CR-51
AACD	COBALT (27)	CO-56
AACE	COBALT (27)	CO-57
AACF	COBALT (27)	CO-58M
AACG	COBALT (27)	CO-58
AACH	COBALT (27)	CO-60
AACJ	COPPER (29)	CU-64
AACK	CURIUM (96)	CM-242
AACL	CURIUM (96)	CM-243
AACM	CURIUM (96)	CM-244
AACN	CURIUM (96)	CM-245
AACP	CURIUM (96)	CM-246
AACQ	DYSPROSIUM (66)	DY-154
AACR	DYSPROSIUM (66)	DY-165
AACS	DYSPROSIUM (66)	DY-166
AACT	ERBIUM (68)	ER-169
AACW	ERBIUM (68)	ER-171
AACX	EUROPIUM (63)	EU-150
AACY	EUROPIUM (63)	EU-152M
AACZ	EUROPIUM (63)	EU-152
ADA	EUROPIUM (63)	EU-154
AADB	EUROPIUM (63)	EU-155
AADC	FLUORINE (9)	F-18
AADD	GADOLINIUM (64)	GD-153
AADE	GADOLINIUM (64)	GD-159
AADF	GALLIUM (31)	GA-67
AADG	GALLIUM (31)	GA-72
AADH	GERMANIUM (32)	GE-71
AADJ	GOLD (79)	AU-193
AADK	GOLD (79)	AU-194
AADL	GOLD (79)	AU-195
AADM	GOLD (79)	AU-196
AADN	GOLD (79)	AU-198

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 19

<u>REPLY CODE</u>	<u>REPLY</u>	<u>RADIONUCLIDES</u>
AADP	GOLD (79)	AU-199
AADQ	HAFNIUM (72)	HF-181
AADR	HOLMIUM (67)	HO-166
	HYDROGEN (1)	H-3 (see TRITIUM)
AADS	INDIUM (49)	IN-113M
AADT	INDIUM (49)	IN-114M
AADW	INDIUM (49)	IN-115M
AADX	INDIUM (49)	IN-115
AADY	IODINE (53)	I-124
AADZ	IODINE (53)	I-125
AAEA	IODINE (53)	I-126
AAEB	IODINE (53)	I-129
AAEC	IODINE (53)	I-131
AAED	IODINE (53)	I-132
AAEE	IODINE (53)	I-133
AAEF	IODINE (53)	I-134
AAEG	IODINE (53)	I-135
AAEH	IRIDIUM (77)	IR-190
AAEJ	IRIDIUM (77)	IR-192
AAEK	IRIDIUM (77)	IR-194
AAEL	IRON (26)	FE-55
AAEM	IRON (26)	FE-59
AAEN	KRYPTON (36)	KR-85M
AAEP	KRYPTON (36)	KR-85M, UNCOMPRESSED
AAEQ	KRYPTON (36)	KR-85
AAER	KRYPTON (36)	KR-85, UNCOMPRESSED
AAES	KRYPTON (36)	KR-87
AAET	KRYPTON (36)	KR-87, UNCOMPRESSED
AAEW	LANTHANUM (57)	LA-140
AAEX	LEAD (82)	PB-203
AAEY	LEAD (82)	PB-210
AAEZ	LEAD (82)	PB-212
AAFA	LUTECIUM (71)	LU-172
AAFB	LUTECIUM (71)	LU-177
AAFC	MAGNESIUM (12)	MG-28
AAFD	MANGANESE (25)	MN-52
AAFE	MANGANESE (25)	MN-54
AAFF	MANGANESE (25)	MN-56
AAFG	MERCURY (80)	HG-197M
AAFH	MERCURY (80)	HG-197

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIGFIG SAMPLE
INC 00000
APPENDIX C

Table 19

<u>REPLY CODE</u>	<u>REPLY</u>	<u>RADIONUCLIDES</u>
AAFJ	MERCURY (80)	HG-203
AAFK	MIXED FISSION PRODUCTS	MF-P
AAFL	MOLYBDENUM (42)	MO-99
AAFM	NEODYMIUM (60)	ND-147
AAFN	NEODYMIUM (60)	ND-149
AAFP	NEPTUNIUM (93)	NP-237
AAFQ	NEPTUNIUM (93)	NP-239
AAFR	NICKEL (28)	NI-56
AAFS	NICKEL (28)	NI-59
AAFT	NICKEL (28)	NI-63
AAFW	NICKEL (28)	NI-65
AAFX	NIObIUM (41)	NB-93M
AAFY	NIObIUM (41)	NB-95
AAFZ	NIObIUM (41)	NB-97
AAGA	OSMIUM (76)	OS-185
AAGB	OSMIUM (76)	OS-191M
AAGC	OSMIUM (76)	OS-191
AAGD	OSMIUM (76)	OS-193
AAGE	PALLADIUM (46)	PD-103
AAGF	PALLADIUM (46)	PD-109
AAGG	PHOSPHOROUS (15)	P-32
AAGH	PLATINUM (78)	PT-191
AAGJ	PLATINUM (78)	PT-193
AAGK	PLATINUM (78)	PT-193M
AAGL	PLATINUM (78)	PT-197M
AAGM	PLATINUM (78)	PT-197
AAGN	PLUTONIUM (94)	PU-238
AAGP	PLUTONIUM (94)	PU-239
AAGQ	PLUTONIUM (94)	PU-240
AAGR	PLUTONIUM (94)	PU-241
AAGS	PLUTONIUM (94)	PU-242
AAGT	POLONIUM (84)	PO-210
AAGW	POTASSIUM (19)	K-42
AAGX	POTASSIUM (19)	K-43
AAGY	PRASEODYMIUM (59)	PR-142
AAGZ	PRASEODYMIUM (59)	PR-143
AAHA	PROMETHIUM (61)	PM-147
AAHB	PROMETHIUM (61)	PM-149
AAHC	PROTACTINIUM (91)	PA-230
AAHD	PROTACTINIUM (91)	PA-231

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 19

<u>REPLY CODE</u>	<u>REPLY</u>	<u>RADIONUCLIDES</u>
AAHE	PROTACTINIUM (91)	PA-233
AAHF	RADIUM (88)	RA-223
AAHG	RADIUM (88)	RA-224
AAHH	RADIUM (88)	RA-226
AAHJ	RADIUM (88)	RA-228
AAHK	RADON (86)	RN-220
AAHL	RADON (86)	RN-222
AAHM	RHENIUM (75)	RE-183
AAHN	RHENIUM (75)	RE-186
AAHP	RHENIUM (75)	RE-187
AAHQ	RHENIUM (75)	RE-188
AAHR	RHENIUM (75)	RE-NATURAL
AAHS	RHODIUM (45)	RH-103M
AAHT	RHODIUM (45)	RH-105
AAHW	RUBIDIUM (37)	RB-86
AAHX	RUBIDIUM (37)	RB-87
AAHY	RUBIDIUM (37)	RB-NATURAL
AAHZ	RUTHENIUM (44)	RU-97
AAJA	RUTHENIUM (44)	RU-103
AAJB	RUTHENIUM (44)	RU-105
AAJC	RUTHENIUM (44)	RU-106
AAJD	SAMARIUM (62)	SM-145
AAJE	SAMARIUM (62)	SM-147
AAJF	SAMARIUM (62)	SM-151
AAJG	SAMARIUM (62)	SM-153
AAJH	SCANDIUM (21)	SC-46
AAJJ	SCANDIUM (21)	SC-47
AAJK	SCANDIUM (21)	SC-48
AAJL	SELENIUM (34)	SE-75
AAJM	SILICON (14)	SI-31
AAJN	SILVER (47)	AG-105
AAJP	SILVER (47)	AG-110M
AAJQ	SILVER (47)	AG-111
AAJR	SODIUM (11)	NA-22
AAJS	SODIUM (11)	NA-24
AAJT	STRONTIUM (38)	SR-85M
AAJW	STRONTIUM (38)	SR-85
AAJX	STRONTIUM (38)	SR-89
AAJY	STRONTIUM (38)	SR-90
AAJZ	STRONTIUM (38)	SR-91

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SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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Table 19

<u>REPLY CODE</u>	<u>REPLY</u>	<u>RADIONUCLIDES</u>
AAKA	STRONTIUM (38)	SR-92
AAKB	SULPHUR (16)	S-35
AAKC	TANTALUM (73)	TA-182
AAKD	TECHNETIUM (43)	TC-96M
AAKE	TECHNETIUM (43)	TC-96
AAKF	TECHNETIUM (43)	TC-97M
AAKG	TECHNETIUM (43)	TC-97
AAKH	TECHNETIUM (43)	TC-99M
AAKJ	TECHNETIUM (43)	TC-99
AAKK	TELLURIUM (52)	TE-125M
AAKL	TELLURIUM (52)	TE-127M
AAKM	TELLURIUM (52)	TE-127
AAKN	TELLURIUM (52)	TE-129M
AAKP	TELLURIUM (52)	TE-129
AAKQ	TELLURIUM (52)	TE-131M
AAKR	TELLURIUM (52)	TE-132
AAKS	TERBIUM (65)	TB-160
AAKT	THALLIUM (81)	TL-200
AAKW	THALLIUM (81)	TL-201
AAKX	THALLIUM (81)	TL-202
AAKY	THALLIUM (81)	TL-204
AAKZ	THORIUM (90)	TH-227
AALA	THORIUM (90)	TH-228
AALB	THORIUM (90)	TH-230
AALC	THORIUM (90)	TH-231
AALD	THORIUM (90)	TH-232
AALE	THORIUM (90)	TH-234
AALF	THORIUM (90)	TH-NATURAL
AALG	THULIUM (69)	TM-168
AALH	THULIUM (69)	TM-170
AALJ	THULIUM (69)	TM-171
AALK	TIN (50)	SN-113
AALL	TIN (50)	SN-117M
AALM	TIN (50)	SN-121
AALN	TIN (50)	SN-125
AALP	TRITIUM (1)	H-3
AALQ	TRITIUM (1)	H-3 AS GAS, LUMINOUS PAINT, OR ADSORBED ON SOLID MATERIAL
AALR	TUNGSTEN (74)	W-181
AALS	TUNGSTEN (74)	W-185

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SAMPLE OF NEW CONCEPT FIIG

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Table 19

<u>REPLY CODE</u>	<u>REPLY</u>	<u>RADIONUCLIDES</u>
AALT	TUNGSTEN (74)	W-187
AALW	URANIUM (92)	U-230
AALX	URANIUM (92)	U-232
AALY	URANIUM (92)	U-233
AALZ.	URANIUM (92)	U-234
AAMA	URANIUM (92)	U-235
AAMB	URANIUM (92)	U-236
AAMC	URANIUM (92)	U-238
AAMD	URANIUM (92)	U-NATURAL
AAME	URANIUM (92)	U-ENRICHED
AAMF	URANIUM (92)	U-DEPLETED
AAMG	VANADIUM (23)	V-48
AAMH	VANADIUM (23)	V-49
AAMJ	XENON (54)	XE-125
AAMK	XENON (54)	XE-131M
AAML	XENON (54)	XE-131M, UNCOMPRESSED
AAMM	XENON (54)	XE-133
AAMN	XENON (54)	XE-133, UNCOMPRESSED
AAMP	XENON (54)	XE-135
AAMQ	XENON (54)	XE-135, UNCOMPRESSED
AAMR	YTTERBIUM (70)	YB-175
AAMS	YTTRIUM (39)	Y-88
AAMT	YTTRIUM (39)	Y-90
AAMW	YTTRIUM (39)	Y-91M
AAMX	YTTRIUM (39)	Y-91
AAMY	YTTRIUM (39)	Y-92
AAMZ	YTTRIUM (39)	Y-93
AANA	ZINC (30)	ZN-65
AANB	ZINC (30)	ZN-69M
AANC	ZINC (30)	ZN-69
AAND	ZIRCONIUM (40)	ZR-93
AANE	ZIRCONIUM (40)	ZR-95
AANF	ZIRCONIUM (40)	ZR-97

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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TABLE 20

DECIMAL AND METRIC EQUIVALENTS

DECIMAL AND METRIC EQUIVALENTS OF FRACTIONS OF AN INCH

Fraction	1/32ds	1/64ths	Decimal	Milli-meters	Fraction	1/32ds	1/64ths	Decimal	Milli-meters
		1	.015625	0.3968			27	.421875	10.7154
	1	2	0.3125	0.7937	7/16	14	28	.4375	11.1122
		3	.046875	1.1906			29	.453125	11.5091
1/16	2	4	.0625	1.5875		15	30	.46875	11.9060
		5	.078125	1.9843			31	.484375	12.3029
	3	6	.09375	2.3812	1/2	16	32	.5	12.6997
		7	.109375	2.7780			33	.515625	13.0966
1/8	4	8	.125	3.1749		17	34	.53125	13.4934
		9	.140625	3.5718	9/16	18	36	.5625	14.2872
	5	10	.15625	3.9686			37	.578125	14.6841
		11	.171875	4.3655			38	.59375	15.0809
3/16	6	12	.1875	4.7624		19	39	.609375	15.4778
		13	.203125	5.1592	5/8	20	40	.625	15.8747
	7	14	.21875	5.5561			41	.640625	16.2715
		15	.234375	5.9530			42	.65625	16.6684
1/4	8	16	.25	6.3498		21	43	.671875	17.0653
		17	.265625	6.7467	11/16	22	44	.6875	17.4621
	9	18	.28125	7.1436			45	.703125	17.8590
		19	.296875	7.5404			46	.71875	18.2559
5/16	10	20	.3125	7.9373		23	47	.734375	18.6527
		21	.328125	8.3342	3/4	24	48	.75	19.0496
	11	22	.34375	8.7310			49	.765625	19.4465
		23	.359375	9.1279		25	50	.78125	19.8433
3/8	12	24	.375	9.5248			51	.796875	20.2402
		25	.390625	9.9216	13/16	26	52	.8125	20.6371
	13	26	.40625	10.3185			53	.828125	21.0339

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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TABLE 20

Fraction	1/32ds	1/64ths	Decimal	Milli-meters	Fraction	1/32ds	1/64ths	Decimal	Milli-meters
	27	54	.84375	21.4308	15/16	30	60	.9375	23.8120
		55	.859375	21.8277					
7/8	28	56	.875	22.2245			61	.953125	24.2089
						31	62	.96875	24.6057
		57	.890625	22.6214			63	.984375	25.0026
	29	58	.90625	23.0183	1	32	64	1.	25.3995
		59	.921875	23.4151					

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 21

NEMA* DESCRIPTION OF ELECTRICAL EQUIPMENT ENCLOSURES

Enclosure Types are as follows:

Type 1 - General Purpose

A general purpose enclosure is intended primarily to prevent accidental contact with the enclosed apparatus. It is suitable for general-purpose applications indoors where it is not exposed to unusual service conditions.

Type 2 - Drip-Tight

A drip-tight enclosure is intended primarily to prevent accidental contact with the enclosed apparatus and, in addition, is so constructed as to exclude falling moisture or dirt.

Type 3 - Weatherproof (Weather-Resistant)

A weatherproof enclosure is intended to provide suitable protection against specified weather hazards. It is suitable for use outdoors.

Type 3R - Raintight

A raintight enclosure is intended primarily to meet the requirement for raintight (definition No. 7 of appended list) apparatus. It is suitable for general applications outdoors sleet-proof construction is not required.

Type 4 - Watertight

A watertight enclosure is designed to exclude water applied in the form of a hose stream (ASA C42-1941, 95.90.145)*. It is suitable for application where the apparatus may be subjected to a stream of water during cleaning operations and the like.

*Where a section has adopted its own test description, it may be substituted for the ASA identification.

Type 5 - Dust-Tight

A dust-tight enclosure is so constructed as to exclude dust.

Type 6 - Submersible

A submersible enclosure is intended to permit the enclosed apparatus to operate successfully when submerged in water under specified conditions of pressure and time.

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SAMPLE OF NEW CONCEPT FIIG

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APPENDIX C

Table 21

Type 7 (A,B,C, OR D)*Hazardous Locations - Class I - Air Break

These enclosures are designed to meet the application requirements of the National Electrical Code for class I Hazardous Locations which may be in effect from time to time. In this type of equipment, the circuit interruption occurs in air.

*The letter or letters following the type number indicates the particular group or groups of hazardous locations (as defined in the National Electrical Code) for which the enclosure is designed. The type designation is incomplete without a suffix letter or letters.

Type 8 (A,B,C OR D)*Hazardous Locations - Class I - Oil Immersed

These enclosures are designed to meet the application requirements of the National Electrical Code for Class I Hazardous Locations which may be in effect from time to time. The apparatus is immersed in oil.

*The letter or letters following the type number indicates the particular group or groups of hazardous locations (as defined in the National Electrical Code) for which the enclosure is designed. The type designation is incomplete without a suffix letter or letters.

Type 9 (E,F, OR G)*Hazardous Locations, Class II

These enclosures are designed to meet the application requirements of the National Electrical Code for Class II Hazardous Locations which may be in effect from time to time.

*The letter or letters following the type number indicates the particular group or groups of hazardous locations (as defined in the National Electrical Code) for which the enclosure is designed. The designation is incomplete without a suffix letter or letters.

Type 10 - Bureau of Mines - Explosion-proof

This enclosure is designed to meet the explosion-proof requirements of the U.S. Bureau of Mines which may be in effect from time to time. It is suitable for use in gassy coal mines.

Type 11 - Acid - or Fume-Resistant - Oil Immersed

This enclosure provides for the immersion of the apparatus in oil such that it is suitable for application where the equipment is subject to acid or other corrosive fumes.

Type 12 - Industrial Use

An industrial use enclosure is designed for use in those industries where it is desired to exclude such materials as dust, lint, fibers and flyings, oil seepage or coolant seepage.

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 0000
APPENDIX C

Table 21

Type 13 - Dust-Proof

A dust-proof enclosure is intended primarily to prevent accidental contact with the enclosed apparatus and, in addition, is so constructed that dust which may enter will not interfere with the operation of the apparatus. The constructions of the enclosure can be defined only in relation to the apparatus and to the amount and kind of dust present.

*National Electrical Manufacturers Association.

APPENDIX 3-3-B
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Table 22

NEMA* DEFINITIONS OF QUALIFYING TERMS

1. Acid-resistant (C42) 95.91.165

Acid-resistant means so constructed that it will not be injured readily by exposure to acid fumes.

2. Dustproof (C42) 95.91.126

Dustproof means so constructed or protected that dust will not interfere with its successful operation.

3. Dust-tight (C42) 95.91.130

Dust-tight means so constructed that dust will not enter the enclosing case.

4. Fume-resistant (C42) 95.91.116

Fume-resistant means so constructed that it will not be injured readily by exposure to the specified fumes.

5. Moisture-resistant (C42) 95.91.140

Moisture-resistant means so constructed or treated that it will not be injured readily by exposure to a moist atmosphere.

6. Oil-tight

Oil-tight means so constructed that oil will not enter the enclosing case.

7. Rain-tight (C42) 95.91.175

Rain-tight means so constructed or protected that exposure to a beating rain will not result in the entrance of water.

8. Sleetproof (C42) 95.91.170

Sleetproof means so constructed or protected that the accumulation of sleet will not interfere with its successful operations.

9. Splashproof (C42) 95.91.160

Splashproof means so constructed and protected that external splashing will not interfere with its successful operation.

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 22

10. Submersible (C42) 95.91.148

Submersible means so constructed that it will operate successfully when submerged in water under specified conditions of pressure and time.

11. Water-tight

Water-tight means provided with an enclosing case which will exclude water applied in the form of a hose stream under specified conditions.

12. Weatherproof (Outside Exposure) (C42) 95.91.186

Weatherproof means so constructed or protected that exposure to the weather will not interfere with its successful operation.

NOTE: DEFINITIONS IN THE ABOVE LIST BEARING THE IDENTIFICATION "C42" ARE SELECTED FROM THE GROUP 95 DEFINITIONS PROPOSED BY SUBCOMMITTEE 18 OF SECTIONAL COMMITTEE C42 FOR INCLUSION IN THE NEXT EDITION OF THE "AMERICAN STANDARD DEFINITIONS OF ELECTRICAL TERMS." NUMBERS AT RIGHT OF EACH DEFINITION REFER TO "AMERICAN STANDARD DEFINITION OF ELECTRICAL TERMS," PUBLISHED BY AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS, APPROVED BY **AMERICAN STANDARDS ASSOCIATION.

*National Electrical Manufacturers Association

**Now United States of America Standards Institute (USASI)

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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APPENDIX C

Table 23
THREAD SIZE/THREAD SERIES

<u>Nominal Size and Threads Per Inch</u>	<u>Thread Series</u>
0-80 OR .060-80	UNF
1-64 OR .073-64	UNC
1-72 OR .073-72	UNF
2-56 OR .086-56	UNC
2-61 OR .086-64	UNF
3-48 OR .099-48	UNC
3-56 OR .099-56	UNF
4-40 OR .112-40	UNC
4-48 OR .112-48	UNF
5-40 OR .125-40	UNC
5-44 OR .125-44	UNF
6-32 OR .138-32	UNC
6-40 OR .138-40	UNF
8-32 OR .164-32	UNC
8-36 OR .164-36	UNF
10-24 OR .190-24	UNC
10-32 OR .190-32	UNF
12-24 OR .216-24	UNC
12-28 OR .216-28	UNF
12-32 OR .216-32	UNEF
1/4-20 OR .250-20	UNC
1/4-28 OR .250-28	UNF
1/4-32 OR .250-32	UNEF
5/16-18 OR .3125-18	UNC
5/16-20 OR .3125-20	UN
5/16-24 OR .3125-24	UNF
5/16-28 OR .3125-28	UN
5/16-32 OR .3125-32	UNEF
3/8-16 OR .375-16	UNC
3/8-20 OR .375-20	UN
3/8-24 OR .375-24	UNF
3/8-28 OR .375-28	UN
3/8-32 OR .375-32	UNEF
7/16-14 OR .4375-14	UNC

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
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APPENDIX C

Table 23

<u>Nominal Size and Threads Per Inch</u>	<u>Thread Series</u>
7/16-16 OR .4375-16	UN
7/16-20 OR .4375-20	UNF
7/16-28 OR .4375-28	UNEF
7/16-32 OR .4375-32	UN
1/2-13 OR .500-13	UNC
1/2-16 OR .500-16	UN
1/2-20 OR .500-20	UNF
1/2-28 OR .500-28	UNEF
1/2-32 OR .500-32	UN
9/16-12 OR .5625-12	UNC
9/16-16 OR .5625-16	UN
9/16-18 OR .5625-18	UNF
9/16-20 OR .5625-20	UN
9/16-24 OR .5625-24	UNEF
9/16-28 OR .5625-28	UN
9/16-32 OR .5625-32	UN
5/8-24 OR .625-24	UNEF
5/8-28 OR .625-28	UN
5/8-32 OR .625-32	UN
11/16-12 OR .6875-12	UN
11/16-16 OR .6875-16	UN
11/16-20 OR .6875-20	UN
11/16-24 OR .6875-24	UNEF
11/16-28 OR .6875-28	UN
11/16-32 OR .6875-32	UN
3/4-10 OR .750-10	UNC
3/4-12 OR .750-12	UN
3/4-16 OR .750-16	UNF
3/4-20 OR .750-20	UNEF
3/4-28 OR .750-28	UN
3/4-32 OR .750-32	UN
13/16-2 OR .8125-12	UN
13/16-16 OR .8125-16	UN
13/16-20 OR .8125-20	UNEF
13/16-28 OR .8125-28	UN
13/16-32 OR .8125-32	UN

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 23

<u>Nominal Size and Threads Per Inch</u>	<u>Thread Series</u>
7/8-9 OR .875-9	UNC
7/8-12 OR .875-12	UN
7/8-14 OR .875-14	UNF
7/8-16 OR .875-16	UN
7/8-20 OR .875-20	UNEF
7/8-28 OR .875-28	UN
7/8-32 OR .875-32	UN
15/16-12 OR .9375-12	UN
15/16-16 OR .9375-16	UN
15/16-20 OR .9375-20	UNEF
15/16-28 OR .9375-28	UN
15/16-32 OR .9375-32	UN
1-8 OR 1.000-8	UNC
1-12 OR 1.000-12	UNF
1-16 OR 1.000-16	UN
1-20 OR 1.000-20	UNEF
1-28 OR 1.000-28	UN
1-32 OR 1.000-32	UN
1 1/16-8 OR 1.0625-8	UN
1 1/16-12 OR 1.0625-12	UN
1 1/16-16 OR 1.0625-16	UN
1 1/16-18 OR 1.0625-18	UNEF
1 1/16-20 OR 1.0625-20	UN
1 1/16-28 OR 1.0625-28	UN
1 1/8-7 OR 1.125-7	UNC
1 1/8-8 OR 1.125-8	UN
1 1/8-12 OR 1.125-12	UNF
1 1/8-16 OR 1.125-16	UN
1 1/8-18 OR 1.125-18	UNEF
1 1/8-20 OR 1.125-20	UN
1 1/8-28 OR 1.125-28	UN
1 3/16-8 OR 1.188-8	UN
1 3/16-12 OR 1.188-12	UN
1 3/16-16 OR 1.188-16	UN
1 3/16-18 OR 1.188-18	UNEF
1 3/16-20 OR 1.188-20	UN

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 23

<u>Nominal Size and Threads Per Inch</u>	<u>Thread Series</u>
1 3/16-28 OR 1.188-28	UN
1 1/4-7 OR 1.250-7	UNC
1 1/4-8 OR 1.250-8	UN
1 1/4-12 OR 1.250-12	UNF
1 1/4-16 OR 1.250-16	UN
1 1/4-18 OR 1.250-18	UNEF
1 1/4-20 OR 1.250-20	UN
1 1/4-28 OR 1.250-28	UN
1 5/16-8 OR 1.312-8	UN
1 5/16-12 OR 1.312-12	UN
1 5/16-16 OR 1.312-16	UN
1 5/16-18 OR 1.312-18	UNEF
1 5/16-20 OR 1.312-20	UN
1 5/16-28 OR 1.312-28	UN
1 3/8-6 OR 1.375-6	UNC
1 3/8-8 OR 1.375-8	UN
1 3/8-12 OR 1.375-12	UNF
1 3/8-16 OR 1.375-16	UN
1 3/8-18 OR 1.375-18	UNEF
1 3/8-20 OR 1.375-20	UN
1 3/8-28 OR 1.375-28	UN
1 7/16-6 OR 1.4375-6	UN
1 7/16-8 OR 1.438-8	UN
1 7/16-12 OR 1.438-12	UN
1 7/16-16 OR 1.438-16	UN
1 7/16-18 OR 1.438-18	UNEF
1 7/16-20 OR 1.438-20	UN
1 7/16-28 OR 1.438-28	UN
1 1/2-6 OR 1.500-6	UNC
1 1/2-8 OR 1.500-8	UN
1 1/2-12 OR 1.500-12	UNF
1 1/2-16 OR 1.500-16	UN
1 1/2-18 OR 1.500-18	UNEF
1 1/2-20 OR 1.500-20	UN
1 1/2-28 OR 1.500-28	UN
1 9/16-6 OR 1.562-6	UN

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 23

<u>Nominal Size and Threads Per Inch</u>	<u>Thread Series</u>
1 9/16-8 OR 1.562-8	UN
1 9/16-12 OR 1.562-12	UN
1 9/16-16 OR 1.562-16	UN
1 9/16-18 OR 1.562-18	UNEF
1 9/16-20 OR 1.562-20	UN
1 5/8-6 OR 1.625-6	UN
1 5/8-8 OR 1.625-8	UN
1 5/8-12 OR 1.625-12	UN
1 5/8-16 OR 1.625-16	UN
1 5/8-18 OR 1.625-18	UNEF
1 5/8-20 OR 1.625-20	UN
1 11/16-6 OR 1.688-6	UN
1 11/16-8 OR 1.688-8	UN
1 11/16-12 OR 1.688-12	UN
1 11/16-16 OR 1.688-16	UN
1 11/16-18 OR 1.688-18	UNEF
1 11/16-20 OR 1.688-20	UN
1 3/4-5 OR 1.750-5	UNC
1 3/4-6 OR 1.750-6	UN
1 3/4-8 OR 1.750-8	UN
1 3/4-12 OR 1.750-12	UN
1 3/4-16 OR 1.750-16	UN
1 3/4-20 OR 1.750-20	UN
1 13/16-6 OR 1.812-6	UN
1 13/16-8 OR 1.812-8	UN
1 13/16-12 OR 1.812-12	UN
1 13/16-16 OR 1.812-16	UN
1 13/16-20 OR 1.812-20	UN
1 7/8-6 OR 1.875-6	UN
1 7/8-8 OR 1.875-8	UN
1 7/8-12 OR 1.875-12	UN
1 7/8-16 OR 1.875-16	UN
1 7/8-20 OR 1.875-20	UN
1 15/16-6 OR 1.938-6	UN
1 15/16-8 OR 1.938-8	UN
1 15/16-12 OR 1.938-12	UN

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 23

<u>Nominal Size and Threads Per Inch</u>	<u>Thread Series</u>
1 15/16-16 OR 1.938-16	UN
1 15/16-20 OR 1.938-20	UN
2-4 1/2 OR 2.000-4.5	UNC
2-6 OR 2.000-6	UN
2-8 OR 2.000-8	UN
2-12 OR 2.000-12	UN
2-16 OR 2.000-16	UN
2-20 OR 2.000-20	UN

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 24

NATION NAMES

<u>NATION</u>	<u>REPLY</u>
Abyssinia	ETHIOPIA, EMPIRE OF
Algerian Republic	ALGERIA, DEMOCRATIC AND POPULAR REPUBLIC OF
America	UNITED STATES OF AMERICA
Argentina	ARGENTINE REPUBLIC
Bahamas	BAHAMA ISLANDS
Basutoland	LESOTHO, KINGDOME OF
Bechuanaland	BOTSWANA, REPUBLIC OF
Benin, Peoples Republic of	BENIN
Brazil	BRAZIL, FEDERATIVE REPUBLIC OF
Britain	GREAT BRITAIN AND NORTHERN IRELAND, UNITED KINGDOM OF
British Commonwealth	GREAT BRITAIN AND NORTHERN IRELAND, UNITED KINGDOM OF
British Guiana	GUYANA
Cambodia, Kingdom of	KHMER, REPUBLIC OF
Congo (Brazzaville), Republic of	CONGO, PEOPLES REPUBLIC OF THE
Congo (Kinshasa), Republic of	ZAIRE, REPUBLIC OF
Congo (Kinshasa), Democratic Republic of	ZAIRE, REPUBLIC OF
Congo (Leopoldville), Republic of	IRELAND
Eire	GREAT BRITAIN AND NORTHERN IRELAND, UNITED KINGDOM OF
England	ETHIOPIA, EMPIRE OF
Eritrea	ESTONIA
Estonia	ESTONIA
Esthonia	ESTONIA
Faeroes Islands	FAROE ISLANDS
Federal Peoples Republic of Yugoslavia	YUGOSLAVIA, SOCIALIST FEDERAL REPUBLIC OF
Federation of Malaya	MALAYSIA
Federation of Nigeria	NIGERIA, REPUBLIC OF
France	FRENCH REPUBLIC
Formosa (Taiwan)	CHINA, REPUBLIC OF

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Table 24

<u>NATION</u>	<u>REPLY</u>
Great Britain	GREAT BRITAIN AND NORTHERN IRELAND, UNITED KINGDOM OF
Great Britain and Northern Ireland	GREAT BRITAIN AND NORTHERN IRELAND, UNITED KINGDOM OF
Guinea-Bissau	GUINEA-BISSAU, REPUBLIC OF
Hashemite Kingdom of the Jordan	JORDAN
Holland	NETHERLANDS, KINGDOM OF THE
Hungary	HUNGARIAN PEOPLES REPUBLIC
Irish Republic	IRELAND
Italy	ITALIAN REPUBLIC
Jugoslavia	YUGOSLAVIA, SOCIALIST FEDERAL REPUBLIC OF
Kingdom of Libya	LIBYAN ARAB REPUBLIC
Kingdom of Spain	SPAIN
Latvia	LATVIA
Libya	LIBYAN ARAB REPUBLIC
Lithuania	LITHUANIA
Madagascar	MALAGASY REPUBLIC
Malaya	MALAYSIA
Maldiv Islands	MALDIVE ISLANDS, REPUBLIC OF
Mauretania	MAURITANIA, ISLAMIC REPUBLIC OF
Mesopotamia	IRAQ, REPUBLIC OF
Mexico	UNITED MEXICAN STATES
Mozambique	MOZAMBIQUE, PEOPLES REPUBLIC OF
Nationalist China	CHINA, REPUBLIC OF
Northern Ireland	GREAT BRITAIN AND NORTHERN IRELAND, UNITED KINGDOM OF
Northern Rhodesia	ZAMBIA, REPUBLIC OF
Nyasaland	MALAWI
Palestine	ISRAEL, STATE OF
Papua-New Guinea	PAPUA-NEW GUINEA, SOUVEREIGN STATE OF
Peoples Republic of Rumania	ROMANIA, SOCIALIST REPUBLIC OF
Persia	IRAN, EMPIRE OF
Philippine Islands	PHILIPPINES, REPUBLIC OF THE

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Table 24

<u>NATION</u>	<u>REPLY</u>
Poland	POLISH PEOPLES REPUBLIC
Republic of Algeria	ALGERIA, DEMOCRATIC AND POPULAR REPUBLIC OF
Republic of France	FRENCH REPUBLIC
Republic of Ireland	IRELAND
Republic of Mauritania	MAURITANIA, ISLAMIC REPUBLIC OF
Republic of Philippines	PHILIPPINES, REPUBLIC OF THE
Republic of Poland	POLISH PEOPLES REPUBLIC
Republic of Somalia	SOMALIA REPUBLIC
Republic of Uruguay	URUGUAY, ORIENTAL REPUBLIC OF
Romania	ROMANIA, SOCIALIST REPUBLIC OF
Roumania	ROMANIA, SOCIALIST REPUBLIC OF
Russia	RUSSIA
Scotland	GREAT BRITAIN AND NORTHERN IRELAND, UNITED KINGDOM OF
Siam	THAILAND, KINGDOM OF
Somaliland	SOMALIA REPUBLIC
South Korea	KOREA, REPUBLIC OF
South Viet-Nam	VIET NAM, REPUBLIC OF
Srilanka	SRILANKA, REPUBLIC OF
States of Malaya	MALAYSIA
Sultanate of Muscat and Oman	MUSCAT AND OMAN AND DEPENDEN- CIES, SULTANATE OF
Switzerland	SWISS CONFEDERATION
Taiwan (Formosa)	CHINA, REPUBLIC OF
Tanganyika	TANZANIA, UNITED REPUBLIC OF
The Argentine	ARGENTINE REPUBLIC
The Argentine Republic	ARGENTINE REPUBLIC
The Netherlands	NETHERLANDS, KINGDOM OF THE
The Peoples Republic of Hungary	HUNGARIAN PEOPLES REPUBLIC
The Peoples Republic of Rumania	ROMANIA, SOCIALIST REPUBLIC OF
The Republic of Sudan	SUDAN, REPUBLIC OF THE
The Vallyes of Andorra	ANDORRA
Trans-Jordan	JORDAN
Transjordan	JORDAN
Trinidad	TRINIDAND AND TOBAGO

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

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Table 24

<u>NATION</u>	<u>REPLY</u>
Ubangi-Shari	CENTRAL AFRICAN REPUBLIC
Union of South Africa	SOUTH AFRICA, REPUBLIC OF
United Kingdom	GREAT BRITAIN AND NORTHERN IRELAND, UNITED KINGDOM OF
United Republic of Tanganyika and Zanzibar	TANZANIA, UNITED REPUBLIC OF
United States of Brazil	BRAZIL, FEDERATIVE REPUBLIC OF
United States of Indonesia	INDONESIA, REPUBLIC OF
United States of Venezuela	VENEZUELA, REPUBLIC OF
Ukraine	UKRAINE
Ukrainia	UKRAINE
Ukrainian Soviet Socialist Republic	UKRAINE
Wales	GREAT BRITAIN AND NORTHERN IRELAND, UNITED KINGDOM OF
West Germany	GERMANY, FEDERAL REPUBLIC OF
West Pakistan	PAKISTAN, ISLAMIC REPUBLIC OF
Yuogslavia, Federal Peoples Republic of	YUGOSLAVIA, SOCIALIST FEDERAL REPUBLIC OF
Zanzibar	TANZANIA, UNITED REPUBLIC OF

APPENDIX 3-3-B
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TABLE 25

HAZARD CLASSES AND DIVISIONS

CLASS 1 - EXPLOSIVES

DIVISION 1.1 - Explosives with an instantaneous explosion or mass detonation risk.

DIVISION 1.2 - Explosives that do not explode en masse and for which the principal hazards are fragment and blast.

DIVISION 1.3 - Explosives that do not explode en masse but burn vigorously with little or no possibility of extinguishment in storage.

DIVISION 1.4 - Explosives that present a fire hazard with no blast hazard and virtually no fragmentation or toxic hazard.

CLASS 2 - GASES: COMPRESSED, LIQUEFIED OR DISSOLVED UNDER PRESSURE

A substance that has a critical temperature lower than 50 degrees C or that exerts, at that temperature, a vapor pressure greater than 3kg/cm².

CLASS 3 - INFLAMMABLE LIQUIDS - Liquids, or mixtures of liquids, or liquids containing solids in solution or suspension which give off an inflammable vapour at or below 150 degrees F (65.6 degrees C) open test.

DIVISION 3.1 - Liquids with a flashpoint below 73 degrees F (23 degrees C) closed test or 80 degrees F (26.6 degrees C) open test; and

DIVISION 3.2 - Liquids with a flashpoint of 73 degrees F (23 degrees C) closed test, or 80 degrees F (26.6 degrees C) open test, to 141 degrees F (60.5 degrees C) closed test, or 150 degrees F (65.6 degrees C) open test.

CLASS 4 - INFLAMMABLE SOLIDS - Substances liable to spontaneous combustion; substances which, on contact with water, emit inflammable gases.

DIVISION 4.1 - Inflammable solids - Solids, other than those classed as explosives, which under conditions encountered in transport, are readily combustible, or may cause or contribute to fire through friction.

DIVISION 4.2 - Substances liable to Spontaneous Combustion - Substances which are liable to spontaneous heating under normal conditions encountered in transport, or to heating up in contact with air, and being then liable to catch fire.

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SAMPLE OF NEW CONCEPT FIG

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TABLE 25

- DIVISION 4.3 - Substances which, in contact with water emit inflammable gases - Substances which, by interaction with water, are liable to become spontaneously inflammable or to give off inflammable gases in dangerous quantities.
- CLASS 5 - OXIDIZING SUBSTANCES; ORGANIC PEROXIDES - Substances which, while in themselves are not necessarily combustible, may, generally by yielding oxygen, cause, or contribute to the combustion of other material.
- DIVISION 5.1 - Oxidizing Substances, other than organic peroxides.
- DIVISION 5.2 - Organic Peroxides.
- CLASS 6 - POISONOUS (TOXIC) and INFECTIOUS SUBSTANCES -
- DIVISION 6.1 - Poisonous (Toxic) Substances - Substances which give off a poisonous (toxic) substance other than those giving off poisonous (toxic) gases or vapours.
- DIVISION 6.2 - Infectious Substances - Substances containing disease producing micro-organisms.
- CLASS 7 - RADIOACTIVE SUBSTANCES - Any substance of which the specific activity is greater than 0.002 microcurle per gram.
- CLASS 8 - CORROSIVES - These are substances which, by chemical action, will cause severe damage when in contact with living tissue or, in the case of leakage, will materially damage, or even destroy, other freight or the means of transport; they may also cause other hazards.
- CLASS 9 - MISCELLANEOUS DANGEROUS SUBSTANCES - Substances which during transport present a danger not covered by other classes.

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SAMPLE OF NEW CONCEPT FIIG

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Table 26

STANDARD FRACTION TO DECIMAL CONVERSION CHART

					Places							Places	
4ths	8ths	16ths	32nds	64ths	To 3	To 4	4ths	8ths	16ths	32nds	64ths	To 3	To 4
				1/64	.016	.0156					33/64	.516	.5156
			1/32	-----	.031	.0312				17/32	-----	.531	.5312
				3/64	.047	.0469					35/64	.547	.5469
		1/16	-----	-----	.062	.0625			9/16	-----	-----	.562	.5625
				5/64	.078	.0781					37/64	.578	.5781
			3/32	-----	.094	.0938				19/32	-----	.594	.5938
				7/64	.109	.1094					39/64	.609	.6094
	1/8	-----	-----	-----	.125	.1250		5/8	-----	-----	-----	.625	.6250
				9/64	.141	.1406					41/64	.641	.6406
			5/32	-----	.156	.1562				21/32	-----	.656	.6562
				11/64	.172	.1719					43/64	.672	.6719
		3/16	-----	-----	.188	.1875			11/16	-----	-----	.688	.6875
				13/64	.203	.2031					45/64	.703	.7031
			7/32	-----	.219	.2188				23/32	-----	.719	.7188
				15/64	.234	.2344					47/64	.734	.7344
1/4	-----	-----	-----	-----	.250	.2500	3/4	-----	-----	-----	-----	.750	.7500
				17/64	.266	.2656					49/64	.766	.7656
			9/32	-----	.281	.2812				25/32	-----	.781	.7812
				19/64	.297	.2969					51/64	.797	.7969
		5/16	-----	-----	.312	.3125			13/16	-----	-----	.812	.8125
				21/64	.328	.3281					53/64	.828	.8281
			11/32	-----	.344	.3438				27/32	-----	.844	.8438
				23/64	.359	.3594					55/64	.859	.8594
	3/8	-----	-----	-----	.375	.3750		7/8	-----	-----	-----	.875	.8750
				25/64	.391	.3906					57/64	.891	.8906
			13/32	-----	.406	.4062				29/32	-----	.906	.9062
				27/64	.422	.4219					59/64	.922	.9219
		7/16	-----	-----	.438	.4375			15/16	-----	-----	.938	.9375
				29/64	.453	.4531					61/64	.953	.9531
			15/32	-----	.469	.4688				31/32	-----	.969	.9688
				31/64	.484	.4844					63/64	.984	.9844
				-----	.500	.5000					-----	1.000	1.0000

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

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Table 27

ALUMINUM AND ALUMINUM ALLOY

(Extracted from ASTM B-241-49T)

Nominal Pipe Size	Outside Diameter	Nominal Wall Thickness	
		Standard Wall	Extra Heavy Wall
1/8	0.405	0.068	0.095
1/4	0.540	0.088	0.119
3/8	0.675	0.091	0.126
1/2	0.840	0.109	0.147
3/4	1.050	0.113	0.154
1	1.315	0.133	0.179
1-1/4	1.660	0.140	0.191
1-1/2	1.900	0.145	0.200
2	2.375	0.154	0.218
2-1/2	2.875	0.203	0.276
3	3.500	0.216	0.300
2-1/2	4.000	0.226	0.318
4	4.500	0.237	0.337
5	5.563	0.258	0.375
6	6.625	0.280	0.432
8	8.625	0.277	0.500
8	8.625	0.322	----
10	10.750	0.279	0.500
10	10.750	0.307	----
10	10.750	0.365	----
12	12.750	0.330	0.500

NOTE -- Items conforming to the above dimensions shall be applicable to "PIPE"; all other dimensions shall be applicable to "TUBE".

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

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Table 28
STORAGE COMPATIBILITY GROUP CODES

<u>GROUP</u>	<u>EXPLANATION</u>
A	Initiating explosive. Bulk initiating explosives which have the necessary sensitivity to heat, friction, or percussion to make them suitable for use as initiating elements in an explosive train.
B	Detonators and similar initiating devices. Items containing initiating explosives that are designed to initiate or continue the functioning of an explosive train.
C	Bulk solid propellants, propellant propelling charges, and devices containing propellant with or without their means of ignition. Items that upon initiation will deflagrate, explode or detonate.
D	Black powder, high explosives (HE), and ammunition containing HE without its own means of initiation and without propelling charge. Ammunition and explosives that can be expected to explode or detonate when any given item or component thereof is initiated. Included in this group is ammunition with initiating device which is packaged in a manner which eliminates the risk of causing detonation of the ammunition, in the event of accidental functioning of the initiating device, or when fuzed and items are so configured and packaged as to prevent arming of the fuzed end items. The initiating device may even be assembled to the ammunition provided its safety features preclude initiation or detonation of the explosives filler of the end item in the event of an accidental functioning of the initiating device.
E	Ammunition containing HE without its own means of initiation, with propulsive charge (other than one containing a flammable or hypergolic liquid).
F	Ammunition containing HE with its own means of initiation and with or without propelling charge. HE ammunition or devices (fuzed) with or without propelling charges.
G	Fireworks, illuminating, incendiary, smoke including HC, or tear producing munitions other than those munitions that are water activated or which contain white phosphorous, or flammable liquid or gel. Ammunition that, upon functioning, results in an incendiary, illumination, lachrymatory, smoke, or sound effect.
H	Ammunition containing explosives and white phosphorous or other pyrophoric material with or without explosives. Ammunition in this group contains fillers which are spontaneously flammable when exposed to the atmosphere.

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 28

<u>GROUP</u>	<u>EXPLANATION</u>
J	Ammunition containing both explosives and flammable liquids or gels, with or without explosives. Ammunition in this group contains flammable liquids or gel, other than those which are spontaneously flammable when exposed to water or the atmosphere.
K	Ammunition containing both explosives and toxic chemical agents with or without explosives. Ammunition in this group contains chemicals specifically designed for incapacitating effects more severe than lachrymation.
L	Ammunition not included in other compatibility groups. Ammunition having characteristics that do not permit storage with other types of ammunition or kinds of explosives, or dissimilar ammunition of this group.
S	Ammunition presenting no significant hazard. Ammunition so designed or packed that when in storage all hazardous effects arising from accidental functioning are confined within the package unless the package has been degraded by fire, in which case all blast or projection effects are limited to the extent that they do not significantly hinder fire fighting.

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
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APPENDIX C

Table 29

FIREFIGHTING GROUP

FIREFIGHTING GROUP	MINIMUM DISTANCE (FT) FROM FIRE		SPECIAL REQUIREMENTS
	FIREMEN	PUBLIC	
Group I:			
Actuating cartridges (explosives switches or actuating valves)	Operating distance	450	Relatively no hazard
Adapter grenade projection			
Ammunition for 20-mm cannon except HE, HEI, HE-T and AP-I			
Blank and mortar ignition cartridges			
Cartridges for CAD items, 500 grains or less (DOT Class C)			
Cartridge case, empty, primed			
Cartridge, explosive bolt, 500 grains or less			
Catapult charges and/or cartridge			
Common fireworks (smoke grenades, railway and highway fuses, hand signal devices, etc.)			
Cordeau detonant fuze (primacord)			
Explosive cable or line cutter (DOT Class C)			
Explosive power devices (DOT Class C)			
Explosive release devices			
Explosive rivets			
Fuze igniters or lighters			
Grenades, empty, primed			
Perchlorates, peroxides, and nitrates (DOT oxidizing materials)			

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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APPENDIX C

Table 29

FIREFIGHTING GROUP	MINIMUM DISTANCE (FT) FROM FIRE		SPECIAL REQUIREMENTS
	FIREMEN	PUBLIC	
Phosphorus in water, white or yellow (DOT flammable solid)			
Practice mines NM, M17 (DOT Class C common fireworks)			
Practice rifle grenades			
Pyroforic solutions and fuels (DOT flammable liquid)			
Safe and arming mechanism			
Safety fuze			
Signals (DOT Class C common fireworks)			
Small arms ammunition			
Squibs, electric or delay			
Starter cartridge, jet engine (DOT Class C)			
Starter, fire, NP3 (DOT special fireworks)			
Tear Agents, CS, CN, CN-DM burning mixture in bulk, liquid solutions, capsules, pellets, and grenades			
Time Fuzes (mechanical without booster)			
Zirconium power (ES)			
Group II: Antipersonnel practice mines, M8 Black powder igniters with empty cartridge bags Blasting caps 1000 or less (DOT Class C) Blasting caps 1000 or less with metal-clad mild detonating	Operating distance	500	Principally fire and light missile (fragment) hazard. Take available cover to protect against light

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
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APPENDIX C

Table 29

FIREFIGHTING GROUP	MINIMUM DISTANCE (FT) FROM FIRE		SPECIAL REQUIREMENTS
	FIREMEN	PUBLIC	
fuze (DOT Class C) Blasting caps 1000 or less with safety fuze (DOT class C) Cartridge kit, bomb ejection Delay element for percussion and/or detonating fuzes (DOT Class C) Detonators Explosive power devices (DOT Class B) Flexible linear-shaped charges, metal-clad (DOT Class C) Fuzes, all types (DOT Class C) Grenades, Hand, illuminating Igniters, all types (DOT Class C) Initiators, all types (DOT Class C) Percussion caps (DOT Class C) Percussion caps (DOT Class C) Power-actuated devices, all types (DOT Class C) Primers, all types (DOT Class C) Projectiles, illuminating (DOT special fireworks) Propellant, explosives, solid (DOT Class B)			missile (fragment).
Group III: Ammunition for cannon without projectile, including cartridges for CAD items, over 500 grains (DOT Class B) Bombs, incendiary, TH, PTI IN bombs or clusters	Operating distance	500	Principally fire hazard with intense heat. Protect against intense heat.

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 29

FIREFIGHTING GROUP	MINIMUM DISTANCE (FT) FROM FIRE		SPECIAL REQUIREMENTS
	FIREMEN	PUBLIC	
Bomb, photoflash, M122			
Cartridge, photoflash (DOT special fireworks)			
Cartridge, signal, for practice bomb			
Charge, propelling, earth rod			
Chemical ammunition, Group C when not assembled with explosives components (DOT flammable solid)			
Chemical ammunition Group D (DOT special fireworks)			
Cryptographic equipment destroyer			
Flammable gas (hydrogen, gas or liquid)			
Flammable liquid (ethyl, methyl, and furfuryl alcohol, methyl-acetylene, ethylene oxide, nitromethane, and N-propyl-nitrate)			
Flare, aerial, infrared (DOT special fireworks)			
Grenade, hand, incendiary, AN-M14			
Hydrogen peroxide (DOT corrosive liquid)			
Igniters, jet, thrust, JATO (DOT Class B)			
Jet thrust unit, JATO (DOT Class B)			
Jet thrust unit, rocket engine (DOT Class B)			

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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APPENDIX C

Table 29

FIREFIGHTING GROUP	MINIMUM DISTANCE (FT) FROM FIRE		SPECIAL REQUIREMENTS
	FIREMEN	PUBLIC	
Liquid oxygen (DOT nonflammable gas)			
Propellant explosives, liquid (DOT Class B)			
Signals (special fireworks, (DOT Class B)			
Simulator (DOT special fireworks)			
Starter, cartridge, jet engine (DOT Class B)			
Tracer, flare, tracking			
Tracer, guided missile			
Group IV:	1200	2000	Principally a missile (fragment) hazard. Prepare to fight fires started by explosion.
Ammunition for cannon with explosives projectile, including 20-mm HE and HEI			
Ammunition for cannon with illuminating projectile			
Ammunition for cannon with incendiary projectile			
Ammunition for cannon with projectile, 81-mm or less (excluding 81-mm, M56)			
Ammunition for cannon with smoke projectile			
Ammunition for cannon with solid, inert-loaded, or empty projectile			
Ammunition for small arms with explosive bullet			
Ammunition for small arms with explosive projectile			
Boosters (DOT Class A)			
Charge, spotting, practice			

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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APPENDIX C

Table 29

FIREFIGHTING GROUP	MINIMUM DISTANCE (FT) FROM FIRE		SPECIAL REQUIREMENTS
	FIREMEN	PUBLIC	
black powder (DOT Class A)			
Catapults			
Detonating fuzes, including			
Conversion set, external cluster			
stowage (DOT Class A)			
Explosive bomb (fragmentation)			
Explosive mines (anti-personnel,			
including cast iron type)			
Grenade, hand and rifle, excluding			
offensive and incendiary, AN-M14			
and pentolite-loaded			
Igniters, jet thrust, JATO			
(DOT Class A)			
Rocket ammunition with explosive			
projectile			
Rocket ammunition with illuminat-			
ing projectile			
Rocket ammunition with incendiary			
projectile			
Rocket ammunition with smoke pro-			
jectile, assembled with explosive			
components			
Rocket ammunition with solid,			
inert-loaded or empty projectile			
or without projectile			
Group V:	1200	2000	Principally a blast hazard. Prepare to fight fires started by explosion.
Black powder			
Blasting caps (more than 1000)			
Blasting caps (more than 1000) with metal-clad mid-detonating fuze			
Blasting caps (more than 1000)			

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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APPENDIX C

Table 29

MINIMUM DISTANCE
(FT) FROM FIRE

<u>FIREFIGHTING GROUP</u>	<u>FIREMEN</u>	<u>PUBLIC</u>	<u>SPECIAL REQUIREMENTS</u>
with safety fuze			
Bursters (DOT Class A)			
Cartridge, heavy mortar, HE, over 81-mm including 81-mm M-56 (DOT Class A)			
Demolition blocks, all types, high explosives			
Explosive bomb (except fragmen- tation)			
Explosive bomb, photoflash (except M122 without burster)			
Explosive bomb, simulator, M115			
Explosive mine			
Explosive projectile			
Explosive torpedo, including bangalore			
Firecracker, M80			
Grenade, rifle, AT, pentolite- loaded			
High explosives in bulk con- tainers			
High explosives (liquid) (DOT Class A)			
Hand grenade, offensive (DOT CLASS A)			
Jet thrust unit, JATO (DOT Class A) Propellant explosives (DOT Class A)			
Shaped charge, HE			
Snake, demolition			
Supplementary charge, HE			
Torpedoes, HE (all types), including Bangalore			

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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Table 29

FIREFIGHTING GROUP	MINIMUM DISTANCE (FT) FROM FIRE		SPECIAL REQUIREMENTS
	FIREMEN	PUBLIC	
Warheads, HE, for guided missiles and torpedoes			
Group VI: AC, hydrogen cyanide Alkyl boranes (Note 1) Aniline (Note 1) BBC, bromobenzylcyanide Beryllium powder (poison B) CG, phosgene Chemical ammunition containing Class A poisons, liquids, or gases (Note 2) Chemical ammunition containing Class B poisons, liquids, or gases (Note 2) Chemical ammunition containing irritant, solids, liquids, or gases (Note 2) Chlorine Trifluoride (Notes 1 and 3) CK, cyanogen chloride CL, chlorine CN, chloroacetophenone (tear gas) CNB, solution of CN in benzine and carbon tetrachloride (Note 1) CNC, solution of CN in chloroform CNS, solution of CN and chloropicrin in chloroform	See special precautions	Evacuate 2 miles downwind and 1 mile side-wind and upwind	Not an explosive hazard except as noted; however, containers may rupture, throwing fragments for short distances. Firemen may approach on windward side when protected with gas or oxygen mask and special clothing prescribed for commodity involved. When technical escorts accompany shipments, minimum distances or other precautions may be prescribed by escort personnel.

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Table 29

FIREFIGHTING GROUP	MINIMUM DISTANCE (FT) FROM FIRE		SPECIAL REQUIREMENTS
	FIREMEN	PUBLIC	
CS, O-chlorobenzylmalononitrile			
DA, diphenylchloroarsine			
DC, diphenylcyanoarsine			
Diborane (Note 1)			
DM, adamsite			
DP, diphosgene			
ED, ethyldichloroarsine			
Fluorine (Notes 1 and 2)			
FM, titanium tetrachloride			
FS, sulphur trioxide- chlorosulfonic acid solution			
G-agents (nerve gas)			
HC, hexachloroethane, grained aluminum and zinc oxide mixture			
HD, mustard (distilled)			
HL, mustard lewisite mixture			
HN- (1,2, and 3) nitrogen mustard			
HT, mustard (T mixture)			
Hydrazine (Note 1)			
L, lewisite			
MD, methyldichloroarsine			
Methylhydrazine (Note 1)			
Monomethylhydrazine (Note 1)			
Nitric acidichloroarsine			
Nitrogen dioxide (Note 1)			
Nitrogen tetroxide (Note 1)			
PD, phenyldichloroarsine			
Pentaborane (Note 1)			
Perchloryl fluoride (Note 1)			
Poisonous liquids, solids, or gases (DOT Classes A, B, or			

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

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Table 29

FIREFIGHTING GROUP	MINIMUM DISTANCE (FT) FROM FIRE		SPECIAL REQUIREMENTS
	FIREMEN	PUBLIC	
irritants not listed herein) PS, chloropicrin SA, arsine Unsymmetrical dimethylhydrazine (UDMH) (Note 1) VX, nerve gas			

NOTES:

1. These items are also a fire hazard with intense heat and shall be noted under "Other Special Precautions" on DD Form 836.
2. These items contain explosive components. Minimum distances shown for Group IV shall be noted on DD Form 836 to warn against fragment hazard.
3. Do not use water on this item.

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TABLE 30

DEPARTMENT OF TRANSPORTATION (DOT) CLASS

<u>CODE</u>	<u>DOT CLASS</u>
F	CLASS C EXPLOSIVE
G	NONFLAMMABLE GAS
I	CLASS A EXPLOSIVE
J	CLASS B EXPLOSIVE
P	POISON B
R	FLAMMABLE LIQUID
S	POISON A
T	IRRITATING MATERIAL
W	CORROSIVE MATERIAL
X	FLAMMABLE SOLID
Y	OXIDIZER
1	EXEMPT 49CFR 173.55
2	EXEMPT 49 CFR 173.260
3	CLASS A EXPLOSIVE/CLASS C EXPLOSIVE

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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Table 31

LOADING AND STOWAGE CHART FOR TRANSPORTATION OF EXPLOSIVES
AND OTHER HAZARDOUS MATERIALS

The table below shows the explosives and other hazardous articles which must not be loaded or stored together. The letter X at an intersection of horizontal and vertical columns show that these articles must not be loaded or stored together, for example; Detonating Fuzes, Class A, with or without radioactive components, 7 horizontal column must not be loaded or stored with high explosives, Class A, 2 vertical column. The following codes apply to the table below.

<u>L/S GROUP</u>	<u>CLASS A EXPLOSIVES</u>
1	Low explosives or black powder.
2	High explosives or propellant explosives, Class A.
3	Initiating or priming explosives, wet: Diazodinitrophenol, fulminate of mercury guanyl nitrosamino guanylidene hydrazine, lead azide, lead styphnate, nitro mannite, nitrosoguanidine, pentaerythrite tetranitrate, terazene.
4	Blasting caps-over 1,000, with or without safety fuze, (including electric blasting caps) detonating primers.
5	Ammunition for cannon with explosive projectiles, gas projectiles, smoke projectiles, incendiary projectiles, illuminating projectiles, or shell, ammunition for small arms with explosive bullets, or ammunition for small arms with explosive projectiles or rocket ammunition with explosive projectiles, gas projectiles, smoke projectiles, incendiary projectiles, illuminating projectiles ^b , booster or bursters. ^b
6	Explosive projectiles, bombs, torpedoes, or mines; rifle or hand grenades (explosive); jet thrust units (JATO), explosive, Class A, or igniters; jet thrust (JATO), explosive, Class A ^b ; rocket motors, Class A; igniters, rocket motor, Class A. ^b
7	Detonating fuzes, Class A, with or without radioactive components.

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SAMPLE OF NEW CONCEPT FIIG

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Table 31

<u>L/S GROUP</u>	<u>CLASS B EXPLOSIVES</u>
8	Ammunition for cannon with empty, inert-loaded or solid projectiles; or without projectiles; or rocket ammunition with empty projectiles; inert-loaded or solid projectiles or without projectiles.
9	Propellant explosives, Class B; rocket engines (liquid), Class B; rocket motor, Class B; igniter, rocket motor, Class B; jet thrust units (JATO), Class B; igniters, jet thrust (JATO) Class B; starter cartridges, jet engines, Class B; igniter, ramjet engines; or explosive power devices, Class B.
10	Fireworks, special, or railway torpedoes.

<u>L/S GROUP</u>	<u>CLASS C EXPLOSIVES</u>
11	Small arms ammunition.
12	Primers for cannon or small arms; empty cartridge bags black powder igniters; empty cartridge cases, primed; empty grenades primed; combination primers; percussion caps; toy caps; explosive cable cutters; explosive power devices; explosive rivets; starter cartridge, jet engine, Class C; actuating cartridges.
13	Percussion fuzes, tracer fuzes or tracers.

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

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Table 31

L/S
GROUP

CLASS C EXPLOSIVES

- | | |
|----|--|
| 14 | Time combination or detonating fuzes, Class C. |
| 15 | Cordeau detonant fuze, safety squibs, fuze lighters, fuze igniters, delay electric igniters, electric squibs, instantaneous fuze, or igniter cord. |
| 16 | Fireworks, common; flares; or signals. |
| 17 | Blasting caps-1,000 or less, with or without safety fuze (including electric blasting caps). |

L/S
GROUP

ARTICLES

- | | |
|----|---|
| 18 | Flammable liquids or compressed flammable gases. |
| 19 | Flammable solids or oxidizing materials. |
| 20 | Corrosive materials. ^{a,f,i} |
| 21 | Compressed nonflammable gases. |
| 22 | Poisonous gases or liquids, Class A poisons. ^h |
| 23 | Etiologic agents/biological research material. |
| 24 | Poisonous liquids or solids, Class B poison. ^g |
| 25 | Irritating material. |
| 26 | Radioactive materials. ^d |
| 27 | Engines and motors (internal combustion); aerospace ground equipment; and self-propelled vehicles. ^k |
| 28 | Materials not otherwise regulated. |

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Table 31

LOADING AND STOWAGE CHART FOR TRANSPORTATION OF EXPLOSIVES
AND OTHER HAZARDOUS MATERIALS

	Class A Explosives							Class B Explosives			Class C Explosives							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
C	1			X						X							X	
L	2			X	X					X							X	X
A	3	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
S	4		X	X		X	X			X							X	
S	5			X	X					X							X	X
	6			X	X					X							X	X
A	7		X	X		X	X			X							X	
CLASS	8			X														
B	9			X														
	10	X	X	X	X	X	X	X										
C	11			X														
L	12			X														
A	13			X														
S	14			X														
S	15			X														
	16	X	X	X	X	X	X	X										
C	17		X	X		X	X											
HA	18	X	X	X	X	X	X	X										
AR	19	X	X	X	X	X	X	X	X	X								
OZT	20	X	X	X	X	X	X	X	X	X								
TAI	21																	
TAI	22	X	X	X	X	X	X	X	X	X	X						X	X
HRC	23	X	X	X	X	X	X	X	X	X	X						X	X
EDL	24																	X
ROE	25	X	X	X	X	X	X	X										X
US	26	X	X	X	X	X	X	X										X
S	27			X														
	28																	

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Table 31

LOADING AND STOWAGE CHART FOR TRANSPORTATION OF EXPLOSIVES
AND OTHER HAZARDOUS MATERIALS

		Other Hazardous Articles										
		18	19	20	21	22	23	24	25	26	27	28
C	1	X	X	X		X	X		X	X		
L	2	X	X	X		X	X		X	X		
A	3	X	X	X		X	X		X	X	X	
S	4	X	X	X		X	X		X	X		
S	5	X	X	X		X	X		X	X		
	6	X	X	X		X	X		X	X		
A	7	X	X	X		X	X		X	X		
CLASS	8			X		X	X					
B	9			X		X	X					
	10					X	X					
C	11											
L	12											
A	13											
S	14											
S	15											
	16					X	X					
C	17					X	X	X	X	X		
	18		X			X	X					
HA	19	X		X		X	X					
AR	20		X			X	X					
OZT	21											
TA I	22	X	X	X								
HRC	23	X	X	X								
EDL	24											
ROE	25											
US	26											
S	27											
	28											

APPENDIX 3-3-B
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Table 31

NOTES

- a. Unless loaded on separate nonadjacent 463L aircraft pallets, acids, or other corrosive liquids must not be loaded with flammable solids, oxidizers, ammunition for cannon with/without projectiles or propellant explosives.
- b. Explosives Class A, and explosives Class B must not be loaded or stored with chemical ammunition containing incendiary charges or white phosphorous either with or without bursting charges.
- c. Does not include nitrocarbo nitrate, or ammonium nitrate, fertilizer grade, which may be loaded and transported with high explosives or with bursting caps, electric blasting caps and detonating primers.
- d. Missile Class III cargo shall not be loaded on the same aircraft with any other hazardous materials.
- e. Normal uranium, depleted uranium, and thorium metal in solid form may also be loaded and transported with articles named on vertical and horizontal columns 1, 2, 3, 4, 5, 6, and 7.
- f. Charged electric storage batteries must not be loaded in the same aircraft with any Class A explosive.
- g. Cyanides or Cyanide mixtures must not be loaded or stored with corrosive materials.
- h. Gas identification sets may be loaded and transported with all articles named except those in column 3.
- i. Nitric acid, when loaded in the same aircraft with acids or other corrosive material in carboys, must be separated from the other carboys.
- j. Other hazardous articles, exempt from labeling requirements of this manual, may be loaded and transported with all other articles except as provided in notes a and f through i above.
- k. When material has not been drained and purged and fuel is in the system, it will be loaded and transported as a flammable liquid, L/S Group 18.

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SAMPLE OF NEW CONCEPT FIIG

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Table 32
CLOTH NAMES

NOTE: TERMS IN LEFT-HAND COLUMN ARE SYNONYMS, TRADENAMES, OR ARBITRARY CHOICES OF ACCEPTABLE TERMS MERELY FOR THE SAKE OF CONSISTENCY. TERMS IN RIGHTHAND COLUMN ARE THOSE TO BE USED FOR ESTABLISHMENT OF ITEM NAMES, OR TO REPLY TO MRC AKKN.

Abbot Cloth	MONK'S CLOTH
Admiralty Cloth	MELTON
Aerial Delivery Fabric	PARACHUTE
Aeroplane Fabric	AIRPLANE
Airship Fabric	BALLOON
Apperleen	FLANNEL
Apron Check	GINGHAM
Artillery Twill	WHIPCORD
Belfry Cloth	MONK'S CLOTH
Bishop's Cloth	MONK'S CLOTH
Box Cloth	MELTON
Buntine	BUNTING
Butter Cloth	CHEESE CLOTH
Byrd Cloth	WIND RESISTANT Twill
Canvas	DUCK
Cavalry Twill	TRICOTINE
Chalinet	CHALLIS
Charmeen	Twill
Clydella	Twill
Cordaleen	CORDED
Crinkle Crepe	PLISSE
Dungaree	DENIM
Druid's Cloth	MONK'S CLOTH
Enameled Cloth	COATED CLOTH
End and End Chambray	MADRAS
Fabricoid	COATED CLOTH
Flannelette	FLANNEL
Forestry Cloth	FLANNEL
Friar's Cloth	MONK'S CLOTH
Frise	FRIEZE

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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Table 32

Frock Cloth	COVERT
Gabercord	GABARDINE
Gaberdine	GABARDINE
Gauze	CHEESECLOTH
Gypsy Cloth	FLANNEL
Harris Tweed	TWEED
Hession Cloth	BURLAP
Honeycomb	WAFFLE
Huck	WAFFLE
Imitation Gauze	MOCK LENO
Imitation Leather	ARTIFICIAL LEATHER
Indian Cloth	LAWN
Indian Head	CRASH
Interlon	NONWOVEN CLOTH
Irish-Poplin	POPLIN
Italian Cloth	ALBERT TWILL
Japshan	PLAIN WEAVE
Jersanese	KNITTED
Josette	TWILL
Jove Poplin	POPLIN
Lanella	FLANNEL
Leatherette	ARTIFICIAL LEATHER
Leatherwove	COATED CLOTH
Leda Cloth	VELVET
Lino	LENO
Luisca	TWILL
Masslinn	NONWOVEN CLOTH
Mirocel	POPLIN
Mission Cloth	MONK'S CLOTH
Mock Gauze	MONK LENO
Muslinet	MUSLIN
Naugahyde	COATED CLOTH
Oilcloth	COATED CLOTH
Osman	TERRY
Osnaberg	OSNABURG
Ozu Aya	JEAN

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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Table 32

Palm Beach	PLAIN WEAVE
Pellon	NONWOVEN CLOTH
Plastavon	NONWOVEN CLOTH
Poplinette	POPLIN
Princalene	POPLIN
Pussy Willow	TAFFETA
PX Cloth	COATED CLOTH
Ramona	PLAIN WEAVE
Redo	COATED CLOTH
Ripplette	SEERSUCKER
Rubberized Fabric	COATED CLOTH
Sackcloth	MUSLIN
Sailcloth	DUCK
Sanitas	COATED CLOTH
Scoth Cloth	LAWN
Tackle Twill	TWILL
Taran Tulle	PLAIN WEAVE
Tobacco Cloth	CHEESE CLOTH
Tricoline	POPLIN
Turkish Toweling	TERRY
Uniform Twill	TWILL
Velmo	PILE
Velveteen	VELVET
Viskon	NONWOVEN CLOTH
Viyella	TWILL
Vysheen	ARTIFICIAL LEATHER
Walltex	COATED CLOTH
Wax Cloth	COATED CLOTH
Webril M	NONWOVEN CLOTH
Webril R	NONWOVEN CLOTH
Wiggin	WIGAN
*Windbreaker Cloth	WIND RESISTANT OXFORD
Windbreaker Cloth	WIND RESISTANT POPLIN
Windbreaker Cloth	WIND RESISTANT SATEEN
Windbreaker Cloth	WIND RESISTANT TWILL

* Use appropriate term based on type of cloth.

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

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Table 33
COAST GUARD CLASS

<u>GROUP</u>	<u>EXPLANATION</u>
I	Small-arms ammunition w/o explosive bullets, detonating fuzes, DOT Class C, mechanical time fuze and like items.
II-A	Bulk propellants such as: Ballistite, Cordite, FNH, NH, and powders; Propellant charges, "Madeup bag charges" in outside shipping containers.
II-B	Fixed ammunition without explosive projectile and like items.
II-C	Pyrotechnics (fireworks).
II-D	Chemical ammunition. WP or PWP filled (solid).
II-E	Chemical ammunition. HC filled (solid).
II-F	Chemical ammunition. FS or FM smoke filled (liquid).
II-G	Chemical ammunition. Incendiary composition, IM, PT, or NP filled (oil gel).
II-H	Chemical ammunition. Water activated.
II-J	Chemical ammunition. TH incendiary composition filled (solid).
III	Fuzes, PD w/o boosters; fuzes, at mine nonchemical, w/o boosters; fuzes, bomb tail, w/o boosters; fuzes, tracer; primer detonators; primers, etc.
IV	Fixed and semifixed ammunition with explosive loaded projectile.
V	Separate loading projectiles filled with explosive "D".
VI	BD fuzes. Bomb fuzes with boosters. PD fuzes with boosters. Rocket fuzes with boosters.
VII	Separate loading HE projectiles, mass detonating, with other than explosive "D".
VIII	AT mine fuzes (chemical, etc., blasting caps). Detonators.
IX-A	Explosives in bulk such as: Black Powder. Propellant explosives for small-arms, etc.
IX-B	High explosives such as: Demolition blocks, etc. Dynamite. TNT.
IX-C	Initiating and priming explosives in bulk.
X-A	Explosive bombs, mines, torpedoes, etc.

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

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Table 33

<u>GROUP</u>	<u>EXPLANATION</u>
X-B	Explosive bombs, mines, torpedoes, etc., packed with fuzes in integral package. (Fuzes will not detonate items with which packaged nor adjacent packages.)
X-C	Guided missiles, solid propellant motors, packed with or without HE warheads.
X-D	Guided Missiles, liquid propellant motors, packed with HE warheads.
X-E	Rocket engines, liquid.
XI-A	Chemical ammunition, lethal.
XI-B	Chemical ammunition, nonlethal.
XI-C	Fuels in containers for guided missiles and rockets.
XI-D	Oxidizers in containers for guided missiles and rockets.

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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Table 34

HAZARD SYMBOL CODE

<u>CODE</u>	<u>EXPLANATION</u>
A	WEAR FULL PROTECTIVE CLOTHING, SET 1
B	WEAR FULL PROTECTIVE CLOTHING, SET 2
C	WEAR FULL PROTECTIVE CLOTHING, SET 3
D	WEAR BREATHING APPARATUS
E	APPLY NO WATER

Table 35

INHABITED BUILDING DISTANCE

<u>CODE</u>	<u>EXPLANATION</u>
(00)	PROCEED WITH CAUTION
(02)	200 FEET
(04)	400 FEET
(07)	700 FEET
(08)	800 FEET
(09)	900 FEET
(12)	1200 FEET
(18)	1800 FEET
(21)	2100 FEET

FIG SAMPLE
INC 00000
APPENDIX C

Table 36

DEPARTMENT OF TRANSPORTATION (DOT) LABEL CODES

<u>CODE</u>	<u>DOT CLASS</u>
I	EXPLOSIVE A
J	EXPLOSIVE B
F	EXPLOSIVE C
W	CORROSIVE
R	FLAMMABLE LIQUID
X	FLAMMABLE SOLID
T	IRRITANT
G	NONFLAMMABLE GAS
Y	OXIDIZER
1	POISON GAS
2	POISON
3	NO LABEL REQUIRED
4	FLAMMABLE LIQUID, NONFLAMMABLE GAS, AND POISON GAS
5	EXPLOSIVE A AND POISON GAS
6	FLAMMABLE SOLID and POISON
7	FLAMMABLE LIQUID and POISON
8	OXIDIZER AND POISON
9	EXPLOSIVE A OR EXPLOSIVE C

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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Table 37

DEPARTMENT OF TRANSPORTATION (DOT) MARKING

<u>CODE</u>	<u>DOT MARKING</u>	<u>DOT PROPER SHIPPING NAME</u>
AB	AMMUNITION FOR CANNON W/EXPLOSIVE PROJECTILES	Ammunition for cannon with explosive projectile
AC	AMMUNITION FOR CANNON W/GAS PROJECTILE	Ammunition for cannon w/gas projectile
AD	AMMUNITION FOR CANNON W/ILLUMINATING PROJECTILE	Ammunition for cannon with illuminating projectile
AF	AMMUNITION FOR CANNON W/INERT LOADED PROJECTILES	Ammunition for cannon with inert loaded projectile
AG	AMMUNITION FOR CANNON W/SMOKE PROJECTILES	Ammunition for cannon with smoke pro- jectile
AH	AMMUNITION FOR CANNON W/SOLID PROJECTILES	Ammunition for cannon with solid projec- tile
AI	AMMUNITION FOR CANNON W/O PROJECTILES	Ammunition for cannon without projectile
AK	AMMUNITION FOR SMALL ARMS W/EXPLOSIVE PROJECTILES	Ammunition for small arms with Explosive projectile
AL	BLACK POWDER	Black powder
AN	(QTY) BLASTING CAPS-HANDLE CAREFULLY	Blasting caps (show actual number)
AP	BOOSTERS (EXPLOSIVE)-HANDLE CAREFULLY	Booster, explosive
AQ	BURSTERS (EXPLOSIVE)-HANDLE CAREFULLY	Burster, explosive
AR	CANNON PRIMERS - HANDLE CARE- FULLY	Cannon primers
AU	COMBINATION FUZES - HANDLE CAREFULLY	Combination fuze
AV	COMBINATION PRIMERS - HANDLE CAREFULLY	Combination primers
AW	CORDEAU DETONATE FUSE - HANDLE CAREFULLY	Cordeau DETONATE FUZE
AZ	DETONATING FUZES CLASS A EX- PLOSIVES - HANDLE CAREFULLY DO NOT STORE OR LOAD WITH ANY HIGH EXPLOSIVES	Detonate fuze, Class A explosive

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 37

<u>CODE</u>	<u>DOT MARKING</u>	<u>DOT PROPER SHIPPING NAME</u>
BB	DETONATING FUZES, CLASS C EXPLOSIVES - HANDLE CAREFULLY	Detonating fuze, Class C explosive
BD	(QTY) ELECTRIC BLASTING CAPS HANDLE CAREFULLY	Electric blasting caps or blasting caps... electric (show actual number)
BE	ELECTRIC SQUIBS	Electric squib
BF	EXPLOSIVE BOMBS	Explosive bomb
BG	EXPLOSIVE CABLE CUTTERS, HANDLE CAREFULLY - KEEP FIRE AWAY	Explosive cable cutter
BH	EXPLOSIVE MINES	Explosive mine
BI	EXPLOSIVE PROJECTILES	Explosive projectile
BJ	EXPLOSIVE RELEASE DEVICES, HANDLE CAREFULLY - KEEP FIRE AWAY	Explosive release device
BN	FLAMMABLE LIQUID, N.O.S	Flammable liquid, N.O.S
BO	FLAMMABLE SOLID, N.O.S	Flammable solid, N.O.S
BQ	FUZE LIGHTERS	Fuze lighter
BS	HAND GRENADES	Grenade, hand, explosive
BT	HIGH EXPLOSIVES - DANGEROUS	High explosive
BW	IGNITERS	Igniter
BX	IGNITERS, JET THRUST, CLASS A EXPLOSIVES	Igniter, jet-thrust (JATO)
BY	IGNITERS, JET THRUST, CLASS B EXPLOSIVES	Igniter, jet-thrust (JATO)
CB	JET THRUST UNIT, CLASS A EXPLOSIVES	Jet thrust unit (JATO)
CE	PERCUSSION CAPS, HANDLE CAREFULLY	Percussion cap
CF	PERCUSSION FUZES, HANDLE CAREFULLY	Percussion fuze
CJ	PROPELLANT EXPLOSIVES, CLASS A	Propellant explosive
CK	PROPELLANT EXPLOSIVES (SOLID) CLASS B	Propellant explosive, solid
CN	FUSEES, HANDLE CAREFULLY KEEP FIRE AWAY	Fusee
CP	RIFLE GRENADES	Grenade, rifle explosive

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
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APPENDIX C

Table 37

<u>CODE</u>	<u>DOT MARKING</u>	<u>DOT PROPER SHIPPING NAME</u>
CQ	ROCKET AMMUNITION W/EMPTY PROJECTILES	Rocket ammunition with empty projectile
CR	ROCKET AMMUNITION W/EXPLOSIVE PROJECTILE	Rocket ammunition with explosive projectile
CT	ROCKET AMMUNITION W/GAS PROJECTILES	Rocket ammunition with gas projectile
CU	ROCKET AMMUNITION W/INCENDIARY PROJECTILES	Rocket ammunition with incendiary projectile
CV	ROCKET AMMUNITION W/INERT LOADED PROJECTILES	Rocket ammunition with inert loaded projectile
CW	ROCKET AMMUNITION W/SMOKE	Rocket ammunition w/smoke projectile
CX	ROCKET AMMUNITION W/SOLID PROJECTILES	Rocket ammunition with solid projectile
CZ	SAFETY FUSE	Safety fuze or fuze, safety
DA	SAFETY SQUIBS	Safety Squib
DB	SIGNAL FLARES, HANDLE CAREFULLY - KEEP FIRE AWAY	Signal flare
DC	SMALL ARMS AMMUNITION	Small arms ammunition
DD	SMALL ARMS AMMUNITION IRRITATING (TEAR GAS) CARTRIDGES	Small arms ammunition, irritating cartridge
DE	SMALL ARMS PRIMERS, HANDLE CAREFULLY	Small arms primer
DF	SMOKE POTS, HANDLE CAREFULLY - KEEP FIRE AWAY	Smoke pot
DG	SMOKE SIGNALS, HANDLE CAREFULLY - KEEP FIRE AWAY	Smoke signal
DH	SPECIAL FIREWORKS - HANDLE CAREFULLY - KEEP FIRE AWAY	Fireworks, special
DK	TIME FUZES, HANDLE CAREFULLY	Fuze, time
DR	COMMON FIREWORKS, HANDLE CAREFULLY - KEEP FIRE AWAY	Fireworks, common
DS	CHLOROACETOPHENONE, SOLID (CN)	Chloroacetophenone, solid (CN)
DU	CHLOROACETOPHENONE LIQUID	Chloroacetophenone, liquid (CN)
DX	GRENADE, TEAR GAS	Grenade, tear gas
DZ	PHOSPHORUS, WHITE, DRY	Phosphorus, white, dry

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 37

<u>CODE</u>	<u>DOT MARKING</u>	<u>DOT PROPER SHIPPING NAME</u>
EA	EXPLOSIVE POWER DEVICES, CLASS C, HANDLE CAREFULLY - KEEP FIRE AWAY	Explosive power device, Class C
ED	STARTER CARTRIDGES, JET ENGINE, CLASS C EXPLOSIVES, HANDLE CAREFULLY - KEEP FIRE AWAY	Starter cartridge
EK	ROCKET MOTORS, CLASS A EXPLOSIVES	Rocket motor
EM	ROCKET MOTORS, CLASS B EXPLOSIVES	Rocket motor
EN	AMMUNITION FOR SMALL ARMS W/ INCENDIARY PROJECTILES	Ammunition for small arms with incendiary projectile
EQ	HAND SIGNAL DEVICES, HANDLE CAREFULLY - KEEP FIRE AWAY	Hand signal device
EW	CARTRIDGES, PRACTICE AMMUNITION	Cartridge, practice ammunition
EX	TRACERS, HANDLE CAREFULLY	Tracer
FF	SUPPLEMENTARY CHARGE, EXPLOSIVE, HANDLE WITH CARE	Supplementary charge (explosive)
XA	OXIDIZING MATERIAL, N.O.S.	Oxidizing material, N.O.S.
XB	NITROGEN	Nitrogen
XC	HELIUM	Helium
XD	ACCUMULATOR, HYDRAULIC	Hydraulic accumulator or accumulator, hydraulic
XE	ARGON	Argon
XF	ROCKET ENGINES (LIQUID), CLASS B EXPLOSIVES	Rocket engine, liquid
XG	ACTUATING CARTRIDGES, EXPLOSIVE, VALVE-HANDLE CAREFULLY	Actuating cartridge, explosive
XH	DETONATING PRIMERS - HANDLE CAREFULLY	Detonating primer
XJ	EMPTY CARTRIDGE CASES, PRIMED, HANDLE CAREFULLY	Empty cartridge case, primed
XK	BATTERY, ELECTRIC STORAGE, WET	Battery, electric storage, wet
XL	JET THRUST UNITS, CLASS B EXPLOSIVE	Jet thrust unit

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

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Table 37

<u>CODE</u>	<u>DOT MARKING</u>	<u>DOT PROPER SHIPPING NAME</u>
XM	IGNITERS, ROCKET MOTORS, CLASS B EXPLOSIVES	Igniter, rocker motor
XN	SMOKE GRENADES, HANDLE CAREFULLY - KEEP FIRE AWAY	Smoke grenade
XS	POISONOUS GAS, N.O.S.	Poisonous gas, N.O.S.
XT	IGNITER FUSE - METAL CLAD	Igniter fuse, metal clad
XU	EXPLOSIVE POWER DEVICES, CLASS B, HANDLE CAREFULLY - KEEP FIRE AWAY	Explosive power device, Class B
XV	ACTUATING CARTRIDGES, EXPLOSIVE, FIRE EXTINGUISHER - HANDLE CAREFULLY	Actuating cartridge, explosive
XW	AMMUNITION FOR CANNON W/EMPTY PROJECTILES	Ammunition for cannon with empty projectile
XX	AMMUNITION, NONEXPLOSIVE	Ammunition, nonexplosive NOTE: Ammunition, nonexplosive is technically not a DOT marking and containers need not be marked as such for transportation purposes. If containers are presently marked "Ammunition, nonexplosive", they need not be remarked.
XY	CHEMICAL AMMUNITION, NONEXPLOSIVE, CONTAINING A POISON, A MATERIAL	Chemical ammunition, nonexplosive
XZ	MILD DETONATING FUSE, METAL CLAD - HANDLE CAREFULLY	Fuse, mild detonating, metal clad
YA	METHYLHYDRAZINE	Methylhydrazine
YB	NITROGEN TETROXIDE LIQUID	Nitrogen tetroxide, liquid
YD	ETHYLENE OXIDE	Ethylene oxide
YE	EXPLOSIVE RIVETS	Explosive rivet
YF	ELECTROLYTE (ACID), BATTERY FLUID (NOT OVER 47% ACID)	Electrolyte, battery fluid
YG	IGNITERS, ROCKET MOTOR, CLASS A EXPLOSIVES	Igniter, rocket motor
YH	IRRITATING AGENT N.O.S.	Irritating agent, N.O.S.

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 37

<u>CODE</u>	<u>DOT MARKING</u>	<u>DOT PROPER SHIPPING NAME</u>
YI	CHEMICAL AMMUNITION, NON- EXPLOSIVE (CONTAINING AN IRRI- ATING MATERIAL)	Chemical ammunition, nonexplosive (con- taining an irritating material)
YJ	BATTERY, ELECTRIC, STORAGE WET, FILLED WITH ALKALI	Battery, electric, storage, wet, filled with alkali
YK	BATTERY, ELECTRIC, STORAGE, WET, FILLED WITH ACID	Battery, electric, storage, wet, filled with acid
YL	FUZE IGNITER	Fuze igniter
YM	VERY SIGNAL CARTRIDGE - HANDLE CAREFULLY - KEEP FIRE AWAY	Very signal cartridge
YN	OXYGEN (WITH ELECTRIC SQUIB)	Oxygen
YP	TEAR GAS DEVICE	Tear gas device

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 38

DEFINITION OF TERM "TRAINING"

TERM	DEFINITION
training-----	An item which conforms to the configuration of a (specify), required in training operations, such as assembly, testing, and handling. It is not designed to be used in conjunction with a delivery system. It will not contain an explosive or propelling charge. See Training Aids and Devices Federal Supply Group (FSG)69.

Table 39

DEFINITION OF THE TERM "PRACTICE"

TERM	DEFINITION
practice-----	An item which conforms to the configuration of (specify). It may be a modification of a tactical item to be designed specifically for practice. It is used in training associated with firing, flying, prepositioning, and/or dropping operations. This term includes inert loaded items designed to be used with a delivery system. It may contain an explosive or propelling charge.

Table 40

DEFINITION OF THE TERM "DUMMY"

TERM	DEFINITION
dummy -----	An item used to represent or having the appearance of (specify), but lacking internal functional components. It is used for purposes such as display, assembly, handling, and dry-run operations of weapons and weapon system. It is not designed to be used in conjunction with a delivery system. This term includes inert loaded delivery system. It excludes sectionalized and empty items. Also excludes inert loaded items which are designed to be used with a delivery system.

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 41

STANDARD FRACTION TO DECIMAL CONVERSION CHART

4ths	8ths	16ths	32nds	64ths	Places		4ths	8ths	16ths	32nds	64ths	Places	
					To 3	To 4						To 3	To 4
				1/64	.016	.0156					33/64	.516	.5156
			1/32	-----	.031	.0312				17/32	-----	.531	.5312
				3/64	.047	.0469					35/64	.547	.5469
		1/16	-----		.062	.0625			9/16	-----		.562	.5625
				5/64	.078	.0781					37/64	.578	.5781
			3/32	-----	.094	.0938				19/32	-----	.594	.5938
				7/64	.109	.1094					39/64	.609	.6094
	1/8	-----			.125	.1250		5/8	-----			.625	.6250
				9/64	.141	.1406					41/64	.641	.6406
			5/32	-----	.156	.1562				21/32	-----	.656	.6562
				11/64	.172	.1719					43/64	.672	.6719
		3/16	-----		.188	.1875			11/16	-----		.688	.6875
				13/64	.203	.2031					45/64	.703	.7031
			7/32	-----	.219	.2188				23/32	-----	.719	.7188
				15/64	.234	.2344					47/64	.734	.7344
1/4	-----				.250	.2500	3/4	-----				.750	.7500
				17/64	.266	.2656					49/64	.766	.7656
			9/32	-----	.281	.2812				25/32	-----	.781	.7812
				19/64	.297	.2969					51/64	.797	.7969
		5/16	-----		.312	.3125			13/16	-----		.812	.8125
				21/64	.328	.3281					53/64	.828	.8281
			11/32	-----	.344	.3438				27/32	-----	.844	.8438
				23/64	.359	.3594					55/64	.859	.8594
	3/8	-----			.375	.3750		7/8	-----			.875	.8750
				25/64	.391	.3906					57/64	.891	.8906
			13/32	-----	.406	.4062				29/32	-----	.906	.9062
				27/64	.422	.4219					59/64	.922	.9219
		7/16	-----		.438	.4375			15/16	-----		.938	.9375
				29/64	.453	.4531					61/64	.953	.9531
			15/32	-----	.469	.4688				31/32	-----	.969	.9688
				31/64	.484	.4844					63/64	.984	.9844
					.500	.5000						1.000	1.0000

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 42

CELSIUS-FAHRENHEIT CONVERSION TABLE

$$^{\circ} F = 9/5 ^{\circ} C + 32 = 1.8 (^{\circ} C + 17.8) ^{\circ} C - 5/9 (^{\circ} F - 32)$$

The middle column of figures contains the reading ($^{\circ} F$ or $^{\circ} C$) to be converted. If converting from degrees Fahrenheit to degrees Celsius, read the Celsius equivalent in the column headed "Converted to Celsius". If converting from Celsius to Fahrenheit, read the Fahrenheit equivalent in the column headed "Converted to Fahrenheit".

<u>Converted to Celsius</u>	<u>Temp Reading</u>	<u>Converted to Fahrenheit</u>
-62.2	-80	-112.0
-56.7	-70	- 94.0
-51.1	-60	- 76.0
-45.6	-50	- 58.0
-40.0	-40	- 40.0
-34.4	-30	- 22.0
-31.7	-25	- 13.0
-28.9	-20	- 4.0
-26.1	-15	5.0
-23.3	-10	14.0
-20.6	- 5	23.0
-17.8	0	32.0
-15.0	5	41.0
-12.22	10	50.0
- 9.44	15	59.0
- 6.67	20	68.0
- 3.89	25	77.0
- 1.11	30	86.0
1.67	35	95.0
4.44	40	104.0
7.22	45	113.0
10.00	50	122.0
12.78	55	131.0
15.56	60	140.0
18.33	65	149.0
21.11	70	158.0

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 42

<u>Converted to Celsius</u>	<u>Temp Reading</u>	<u>Converted to Fahrenheit</u>
23.89	75	167.0
26.67	80	176.0
29.44	85	185.0
32.22	90	194.0
35.00	95	203.0
37.78	100	212.0
40.56	105	221.0
43.33	110	230.0
46.11	115	239.0
48.89	120	248.0
51.67	125	257.0
54.44	130	266.0
57.22	135	275.0
60.00	140	284.0
65.56	150	302.0
71.11	160	320.0
76.67	170	338.0
82.22	180	356.0
87.78	190	374.0
93.33	200	392.0
98.89	210	410.0
104.44	220	428.0
110.00	230	446.0
115.56	240	464.0
121.11	250	482.0
126.67	260	500.0
132.22	270	518.0
137.78	280	536.0
143.33	290	554.0
148.89	300	572.0
154.44	310	590.0
160.00	320	608.0
165.66	330	626.0
171.11	340	644.0
176.67	350	662.0

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 42

<u>Converted to Celsius</u>	<u>Temp Reading</u>	<u>Converted to Fahrenheit</u>
182.22	360	680.0
187.78	370	698.0
193.33	380	716.0
198.89	390	734.0
204.44	400	752.0
210.00	410	770.0
215.56	420	788.0
221.11	430	806.0
226.67	440	824.0
232.22	450	842.0
237.78	460	860.0
243.33	470	878.0
248.89	480	896.0
254.44	490	914.0
260.00	500	932.0
265.56	510	950.0
271.11	520	968.0
276.67	530	986.0
282.22	540	1004.0
287.78	550	1022.0

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 0000
APPENDIX C

Table 43

CONVERSION FACTORS

NOTE: 1 U.S. gallon of water at 16.7 degree C (62 degrees F) weighs 3.780 kg. or 8.337 pounds (avoir.)
1 British Imperial or Canadian gallon at 16.7 degree C has a mass of 10 pounds (avoir.)

<u>TO CONVERT</u>	<u>INTO</u>	<u>MULTIPLY BY</u>
Cubic Inches	milliliters	16.3868
Cubic Inches	liters	0.0163868
Cubic Inches	drams (U.S. fl.)	4.4332
Cubic Inches	ounces (U.S. fl.)	0.5541
Cubic Inches	ounces (BR. fl.)	0.57651
Milliliters	cubic inches	0.061024
Milliliters	liters	0.001
Milliliters	drams (U.S. fl.)	0.27052
Milliliters	ounces (U.S. fl.)	0.03381
Milliliters	ounces (BR. fl.)	0.03520
Liters	cubic inches	61.024
Liters	milliliters	1000
Liters	drams (U.S. fl.)	270.5179
Liters	ounces (U.S. fl.)	33.8147
Liters	ounces (BR. fl.)	35.196
Drams (U.S. fl. or apoth.)	cubic inches	0.22559
Drams (U.S. fl. or apoth.)	milliliters	3.6966
Drams (U.S. fl. or apoth.)	liters	3.6966X10 ⁻³
Drams (U.S. fl. or apoth.)	ounces	0.125
Drams (U.S. fl. or apoth.)	ounces (BR. fl.)	0.13011
Ounces (U.S. fl.)	cubic inches	1.80469
Ounces (U.S. fl.)	milliliters	29.5729
Ounces (U.S. fl.)	liters	0.029573
Ounces (U.S. fl.)	drams (U.S. fl.)	8
Ounces (U.S. fl.)	BR. fl. ounces	1.0409

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 43

VOLUME

<u>TO CONVERT</u>	<u>INTO</u>	<u>MULTIPLY BY</u>
Ounces (BR. fl.)	cubic inches	1.73459
Ounces (BR. fl.)	milliliters	28.4121
Ounces (BR. fl.)	liters	2.84121X10 ⁻²
Ounces (BR. fl.)	drams (U.S. fl.)	7.6860
Ounces (BR. fl.)	U.S. fl. ounces	0.9607
Gallons (U.S.)	cubic inches	231
Gallons (U.S.)	milliliters	3785.3
Gallons (U.S.)	liters	3.7853
Gallons (U.S.)	drams (U.S. fl.)	1024
Gallons (U.S.)	ounces (U.S. fl.)	128
Gallons (U.S.)	ounces (BR. fl.)	133.23
Gallons (BR.)	cubic inches	277.4
Gallons (BR.)	milliliters	4545.96
Gallons (BR.)	liters	4.54596
Gallons (BR.)	drams (U.S. fl.)	1230
Gallons (BR.)	ounces (U.S. fl.)	153.72
Gallons (BR.)	ounces (BR. fl.)	160
Barrels (U.S.)	cubic inches	7276.5
Barrels (U.S.)	milliliters	1.1924X10 ⁺⁵
Barrels (U.S.)	liters	119.2369
Barrels (U.S.)	drams (U.S. fl.)	32256
Barrels (U.S.)	ounces (U.S. fl.)	41967
Minims (U.S.) (drops)	cubic inches	3.7597X10 ⁻³
Minims (U.S.) (drops)	milliliters	0.061610
Minims (U.S.) (drops)	liters	6.161X10 ⁻⁵
Minims (U.S.) (drops)	drams (U.S. fl.)	0.016667
Minims (U.S.) (drops)	ounces (U.S. fl.)	2.0833X10 ⁻³
Minims (U.S.) (drops)	ounces (BR. fl.)	2.1684X10 ⁻³
Minims (BR.)	cubic inches	3.6122X10 ⁻³
Minims (BR.)	milliliters	.059192
Minims (BR.)	liters	5.9192X10 ⁻⁵

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 43

VOLUME

<u>TO CONVERT</u>	<u>INTO</u>	<u>MULTIPLY BY</u>
Minims (BR.)	drams (U.S. fl.)	0.016013
Minims (BR.)	ounces (U.S. fl.)	2.00154×10^{-3}
Minims (BR.)	ounces (BR. fl.)	2.0833×10^{-3}
Cubic feet	cubic inches	1728
Cubic feet	milliliters	$2.8316 \times 10^{+4}$
Cubic feet	liters	28.316
Cubic feet	drams (U.S. fl.)	7660.60
Cubic feet	ounces (U.S. fl.)	957.568
Cubic feet	ounces (BR. fl.)	997.37

MASS

<u>TO CONVERT</u>	<u>INTO</u>	<u>MULTIPLY BY</u>
Grams	kilograms	0.001
Grams	ounces (avoir)	3.527×10^{-2}
Grams	pounds (avoir)	2.205×10^{-3}
Grams	ounces (troy)	3.215×10^{-2}
Grams	pounds (troy)ap	2.679×10^{-3}
Kilograms	grams	1000
Kilograms	ounces (avoir)	35.274
Kilograms	pounds (avoir)	2.2046
Kilograms	ounces (troy)ap	32.151
Kilograms	pounds (troy)ap	2.6792
Ounces	grams	28.350
Ounces	kilograms	0.028350
Ounces	pounds (avoir)	0.0625
Ounces	ounces (troy)ap	0.91146
Ounces	pounds (troy)ap	0.075955

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 43

MASS

<u>TO CONVERT</u>	<u>INTO</u>	<u>MULTIPLY BY</u>
Pounds (troy)	grams	373.24
pounds (troy)	kilograms	0.37324
Pounds (troy)	ounces (avoir)	13.166
Pounds (troy)	pounds (avoir)	0.82286
Pounds (troy)	ounces (troy)ap	12
Grains	grams	0.06480
Grains	kilograms	6.480×10^{-5}
Grains	ounces (avoir)	2.286×10^{-3}
Grains	pounds (avoir)	1.429×10^{-4}
Grains	ounces (troy)ap	2.083×10^{-3}
Grains	pounds (troy)ap	1.736×10^{-4}
Drams (troy)	grams	3.8879
Drams (troy)	kilograms	3.888×10^{-3}
Drams (troy)	ounces (avoir)	0.13714
Drams (troy)	pounds (avoir)	8.571×10^{-3}
Drams (troy)	ounces (troy)ap	0.1250
Drams (troy)	pounds (troy)ap	1.042×10^{-2}
Milligrams	grams	0.001
Milligrams	kilograms	1×10^{-6}
Milligrams	ounces (avoir)	3.527×10^{-5}
Milligrams	pounds (avoir)	2.205×10^{-6}
Milligrams	ounces (troy)ap	3.215×10^{-5}
Milligrams	pounds (troy)ap	2.679×10^{-6}

* Units of weight and measure NBS Misc. Pub 286.

NOTE: For minus power move the decimal point to the left the number of places required by the exponent. (e.g., $2.286 \times 10^{-3} = .002286$)

For plus power move the decimal point to the right the number of places required by the exponent. (e.g., $1.9354 \times 10^{+6} = 1,935,400.$)

APPENDIX 3-3-C NEW CONCEPT FIIGs

A. General Format Instructions for New Concept FIIGs

1. Data will be prepared in electronic format, readable by ENABLE Word Processing software, whenever possible. It may be transmitted to DLSC via floppy diskette or Rapidnet. Instructions for using Rapidnet are contained in the Rapidnet handbook.
2. Reference Drawings will be submitted in hard copy when required, and in final printable form, if possible.
3. A capitalized title will appear, centered, at the top of each page, identifying the FIIG, INC (if applicable), Section and, when applicable, column headings.
4. Page breaks will be inserted by DLSC.
5. Page numbers will be machine generated at DLSC.

B. Cover Page

1. The FIIG cover will display the following information:

An identifying FIIG number and published or implementation date appearing in the upper-right corner. (This FIIG number is assigned at DLSC. It is a nonsignificant alpha-numeric code beginning with A500A, A500B, etc.)

2. The document will be titled "FEDERAL ITEM IDENTIFICATION GUIDE" and centered beneath will appear the Item Name Code (if applicable) and the Item Name (if applicable). If more than one name appears in the FIIG, the Service/Agency submitting the FIIG will also submit a name for the FIIG.
3. The name, address, and phone number of the Service/Agency responsible for the technical content of the publication.
4. Other information may be displayed as needed to further identify the document, note inclusion of changes or give instructions as to implementation.

C. Section I

New concept FIIG requirements will be constructed in the same format as other FIIG requirements except:

- a. There will be no Applicability Keys.

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APPENDIX 3-3-C
NEW CONCEPT FIIGs

b. All references to the requirements will be MRC (PAC is being eliminated).

c. Reply tables consisting of 25 or less replies and applicable to only one MRC will be located with the requirement in Section I. Tables applicable to more than one MRC or larger than 25 replies will be recorded in Appendix A of the New Concept FIIG.

d. Established MRCs will be used to the fullest extent possible. In those cases which require changes, such as revision to definitions, etc., a new MRC will be assigned. If it is determined by DLSC that the proposed requirement duplicates an established MRC, DLSC will contact the submitter to resolve the differences.

e. Legend letters and requirement numbers are prohibited.

f. Notes included with a requirement will not refer to note(s) for other requirements. Only the word "NOTE" will precede the narrative. All notes will stand alone for each MRC. Exceptions to this, such as tables in an Appendix, must be justified.

g. The following standard/administrative MRCs will be added to all New Concept FIIGs by DLSC: CRTL, PRPY, ELRN, and CLQL.

h. The following standard/supplementary MRCs will be added to all New Concept FIIGs unless specific instructions are provided by the Service/Agency initiating the New Concept FIIG to do otherwise: FEAT, ZZZK, ZZZT, ZZZY, and AGAV. (See sample FIIG in Appendix 3.3.B)

NOTE: THE MRCs LISTED ABOVE ARE NOT ALL INCLUSIVE OR STANDARD AND SUPPLEMENTARY MRCs, JUST THOSE THAT HAVE SPECIAL HANDLING IN NEW CONCEPT FIIGS.

i. The physical/performance MRCs will precede the standard MRCs and supplementary MRCs, such as CLQL and AGAV, will follow.

j. Use of Secondary Address Coding is prohibited. Use of ISAC will be minimized to only that essential. This technique is for extending the MRC so that a unique address is provided for each application of the requirement in relation to the item and is authorized only as instructed within the requirement. Responses coded through this technique will always consist of the following (1) MRC, (2) Indicator Code (a single numeric character determined by the number of positions to follow (1,2,3), (3) Identified Secondary Address Code (1-3 digit alphabetic codes determined by the number of predicted replies), (4) the Mode Code, (5) The Reply Code and/or clear text response, and (6) end with a record separator (*). Steps (1) through (6) are repeated for each application of the requirement.

D. Appendix A

This Appendix will only contain tables with more than 25 replies or tables referenced to multiple MRCs.

a. All tables in Appendix A or Section I will be in alpha reply sequence with the exception of dimensional tables or if there is an underlying need to put them in some other logical sequence.

b. For MRC ZZZT, the standard reply table will be used and will be printed in each FIIG in which the MRC appears.

E. Appendix B

Reference drawings will be tailored as required for each FIIG. Reference drawings should be minimized by utilizing word description requirements, but only if easily understood.

F. Appendix C

1. When applicable, Standard Tables will be contained in Section C of the New Concept FIIG. See Section C Index of the New Concept FIIG sample in Appendix 3-3-B for a complete list of the Standard Tables contained within.

2. When developing a New Concept FIIG, references to Standard Tables formerly found in Appendix C of the FIIG, now shown in Section C of this publication, use the name of the table.

G. Section II

Currently published New Concept FIIGs may contain a statement as to whether Section II will be developed. However, Section II will not be developed in the future for all FIIGs and will be deleted at the time of maintenance for each FIIG.

H. FIIG Example

1. See Appendix 3-3-B for example of FIIG annotated with specific format guidelines:

NOTE: This example of a FIIG is not an actual FIIG. Some of the drawings and other parts may be missing.

2. To obtain this format on floppy disk contact DLSC-SCB, (AV) 932-4325 or (FTS) 552-4325.



**APPENDIX 3-3-D
COORDINATION ADDRESSES
NEW CONCEPT FIIGS**

1. Commander
Defense Electronics Supply Center
ATTN: DESC-ELQD
Dayton, OH 4544-5215
2. General Services Administration
Federal Supply Service
Logistics Data Management Division
ATTN: FCRL - A
Washington, D.C. 20406
3. Commanding Officer
Navy Fleet Material Support Office
P.O. Box 2010
ATTN: Code 9143
Mechanicsburg, PA 17055-0787
4. Commander
Defense Industrial Supply Center
ATTN: DISC-SL
Philadelphia, PA 19111-5096
5. Commander
USAMC Catalog Data Activity
ATTN: AMXCA-PC
New Cumberland Army Depot
New Cumberland, PA 17070-5010
amxcapc@ncad-emh12.army.mil
6. Commander
HQ Cataloging and Standardization Center
(CASC)
FM
74 N. Washington
Battle Creek, MI 49017-3094
7. Commandant
U.S. Coast Guard Headquarters
ATTN: David M. Taffet
2100 2nd Street, S.W.
Washington, D.C. 20593

**APPENDIX 3-3-D
NEW CONCEPT FIGs**

8. Commander
Defense Construction Supply Center
ATTN: DCSC-VLF
P.O. Box 3990
Columbus, OH 43216-5000
hallows@dcsc.dla.mil
9. Commander
Defense General Supply Center
ATTN: DGSC-SL
8000 Jefferson Davis Highway
Richmond, VA 23297-5640
10. Commander
Defense Logistics Services Center
Characteristics Data Management Division
ATTN: DLSC-SCB
Federal Center
74 N. Washington
Battle Creek, MI 49017-3084
11. Commander
Defense Logistics Services Center
International Codification Division
ATTN: DLSC-SD
Federal Center
74 N. Washington
Battle Creek, MI 49017-3084

CHAPTER 4 THE FEDERAL SUPPLY CLASSIFICATION SYSTEM

3.4.1 Purpose. This chapter will describe the structure and organization of the Federal Supply Classification system and the procedures for its modification.

3.4.2 Use. The Federal Supply Classification System is sufficiently comprehensive to permit the classification of all items used by participating activities. A federal Supply Class (FSC) is selected for every item of supply and forms the first four digits of the National Stock Number (NSN). This system, with its structure of groups and classes, represents those groupings and relationships which are based on current as well as anticipated management needs. As these needs change, the structure is modified by the addition of newly developed groups and classes, the subdivision of existing classes, and the revision of definitions for classes.

3.4.3 Structure. The Federal Supply Classification System is composed of commodity classes organized within broad groups. The system permits a total of 99 Federal Supply Groups (FSGs), each of which may be subdivided in 99 Federal Supply Classes (FSCs). The classes within any group are considered to be closely related. Each class covers a relatively homogenous area of commodities with respect to their physical or performance characteristics, their relationship to a next higher assembly, or because they are usually procured or issued together.

a. Code Numbering system. Each class of items is assigned a four digit code. The first two digits represent the FSG and the last two digits specify the class within each group.

b. Expansion of the present number of groups and classes has been provided for by the gaps in sequence left between the code numbers assigned to groups and within groups to adjacent classes. Such expansions may be required by technological advances or by the need for other desirable additions and changes.

c. Whether a class includes the phrase "and components" as part of the class title or not, assemblies, subassemblies, and component parts specially designed for items in the class will be included only where no class exists within the FSC structure for that type of component.

Example 1. FSCs 4810 and 4820 are established for powered and nonpowered valves. Valves of the same type as established in Federal Supply Group 48 will be classified within these classes regardless of a "NOTE" including component parts in the next higher assembly class.

Example 2. Group 25 Vehicular Equipment Components was established for items which otherwise might have been classified in Group 23, Ground Effect Vehicles, Trailer and Cycles and Group 24, Tractors.

d. Condition Codes. A single digit indicating the type of FSC classification for an item in the Numeric Index of the Cataloging Handbook H2-2 and the Alphabetic and Numeric Indexes of the Cataloging Handbook H6.

(1) Condition Code (1). The Approved Item Name (AIN) which may be classified in one and only one specific class of the FSC structure.

(2) Condition Code (2). The AIN which may be classified in two or more specific classes of the FSC structure, as specifically indicated.

(3) Condition Code (3). Not authorized for use.

e. Explanation of Condition Code (2). The Condition Code is included with the AINs in the Cataloging Handbooks H2-2 and H6. Those AINs with Condition Code 2 specifically are entered in the Cataloging Handbook H6 with the FSC and the class modifier which applies. Example of proper application of condition codes are as follows:

Example 1. The AIN "TAPE, SOUND, RECORDING" is classified only in Federal Supply Classes 5835 and 7450. The two specific H6 entries for this AIN both include Condition Code (2) following the class modifiers ("except office type" for FSC 5835, and "office type" for FSC 7450). However, the mandatory classification for each category of sound-recording tape is indicated in the "Class" column on the right-hand side of that particular entry in the Handbook. That is, office-type recording tape is classified in FSC 7450, and all other types (applications) are classified without exception on FSC 5835.

Example 2. The AINs "CIRCUIT BREAKER" and "CIRCUIT BREAKER SUBASSEMBLY" are properly assigned to two different classes based on the voltage and type of current of the item being classified. This is indicated in the H-6 by a series of four entries derived from each AIN, such as "Circuit breakers, above 250 volts DC(2)--6110" and "Circuit breaker subassemblies, 250 volts DC and below (2)---5925". Condition Code (2) does not imply that a given item with the voltage and current shown can be classified in two classes. The modifying phrase in each case governs the classification and restricts the item of supply to one specific class.

f. Classification of Parts Where a Specific Class Exists. Where a specific class of the FSC is applicable to a particular part, that part shall be classified in the specific class and not with its next higher assembly. The FSC may indicate by an exclusion note that the "specially designed" item be classified with the equipment for which it is specially designed, and not be classified therein.

g. Classification of Parts Where No Specific Class Exists. Where no specific class of the FSC is applicable to a particular part, that part shall be classified with the most logical class.

h. Auxiliary Subdivisions of Federal Supply Classification Classes. Where greater commodity classification detail is required by a participating service or activity than is provided for in the basic 4-digit FSC structure, auxiliary subdivisions of classes (commonly referred to as "Auxiliary Classifications;" or "Subclasses") may become necessary. These auxiliary subdivisions of classes may be developed by the participants for their own use. If a universal requirement is found to exist for a particular auxiliary subdivision, consideration will be given to the establishment of additional FSC classes corresponding to the auxiliary subdivision. When used in conjunction with the National Stock Number (NSN), any auxiliary subdivision of a class found necessary by a participant shall be signified by augmentation of the NSN and not by change to the 4-digit FSC class code number. In no event shall any of the 13 digits of the NSN be changed or digits or other symbols be inserted within the 13-digit structure.

i. Classification of Sets, Kits, and Outfits. The following rules shall govern the classification of Sets, Kits, and Outfits:

(1) Sets, Kits, and Outfits consisting of variations (such as size or color) of an item shall be classified in the same class as the individual items.

(2) Sets, Kits, and Outfits consisting of several different items classifiable either in a single class or in several classes of the same group, or in classes of more than one group, shall be classified in the "Sets, Kits, and Outfits" class of the group which logically covers the application or functions purpose for which the set, kit, or outfit was assembled.

(3) If no "Sets, Kits, or Outfits" class is established in the appropriate group which covers the application or functional purpose of the set, kit, or outfit, then the set, kit or outfit shall be classified

in the single class of the appropriate group which logically covers the application or functional purpose for which the set, kit, or outfit was assembled.

(4) If the appropriate 4-digit FSC class cannot be determined by application of the above rules, the set, kit or outfit shall be assigned to the class which is considered most useful for supply management.

(5) If no class is found to be appropriate under any of the above rules, the set, kit, or outfit shall be classified in FSC Class 9999, Miscellaneous Items.

3.4.4 Publications. The following handbooks assist users in establishing the appropriate FSC for each item of supply and help minimize inconsistency in the classification of identical items.

a. Cataloging Handbook H2, Federal Supply Classification, is divided into two parts:

(1) Part 1, Groups and Classes, presents the classification structure, showing all the groups and classes listed in the arrangement of the four digit FSC coding numbering system. Where appropriate, the main commodities included (or excluded) which delimit the coverage of a particular class are shown below the title for the class. In addition, specific notes may be inserted following specific group and class titles which define or delimit the coverage of a particular group or class.

(2) Part 2, Numeric Index of Classes, is arranged by class and lists in alphabetic sequence the names of items included within each class. In addition, the notes following group and class titles in Part 1 are incorporated in Part 2 following the corresponding group and class titles.

b. Cataloging Handbook H6, Federal Item Name Directory for Supply Cataloging, includes a reference to the FSC for each Approved Item Name.

3.4.5 Maintenance of the Federal Supply Classification System.

a. Proposals for Revision to the FSC Structure.

(1) Revisions to the FSC structure are those changes which constitute a significant revision to any of the present groups or classes, such as:

(a) The establishment of a new group or class.

(b) The deletion of an existing group or class.

(c) A revision to the delimitations of an existing group or class which results in a broader or narrower scope.

(d) A revision in a principle or rule for classification.

(2) Submission of Proposals. When applicable, proposals should include corresponding DD Form 180s showing modification to existing item names, and/or any new names which will be developed as a result of the changes.

(a) Submitters.

(1) Participating Military Service activities and Defense Supply Centers submit proposals to the appropriate Headquarters Catalog Office (HCO).

(2) Participating Civil Agencies other than the Veterans Administration submit proposals to the Federal Supply Service, General Services Administration (GSA).

(3) The Veterans Administration submits proposals directly to the Directorate of Logistics Data Management, Defense Logistics Services Center (DLSC).

(4) All other activities submit proposals

directly to the Directorate of Logistics Data Management, Defense Logistics Services Center (DLSC).

(b) Headquarters Catalog Office/Federal Supply Service, GSA:

(1) Reviews proposals submitted by Military Service activities or Defense Supply Centers-/Civil Agencies, conducts internal coordination, and develops unified proposals.

(2) Submits unified proposals to the Directorate of Logistics Data Management, Defense Logistics Services Center (DLSC).

(3) Processing of Proposals.

(a) Responsibilities of the Directorate of Logistics Data Management, Defense Logistics Services Center (DLSC).

(1) Performs non-technical review of the proposals and forwards, by certified mail, with comments as necessary to the following Headquarters Catalog Offices (whichever did not submit the proposal) for concurrence and/or comments:

Army
Navy
Air Force
Marine Corps
Defense Logistics Agency
General Services Administration
Veterans Administration
Defense Nuclear Agency
National Security Agency
Federal Aviation Agency

(2) Forwards proposals to NATO for simultaneous coordination with U.S. activities. NATO will have 60 days to reply.

(3) Reviews comments on the proposals

received from the Headquarters Catalog Offices and/or the Federal Supply Service and NATO. A written reply must be received from the HCOs and/or the Federal Supply Service. If a counterproposal is received, the coordination process will start over with a copy going to the submitting activity.

(4) When a nonconcurrence is received:

(a) Contacts by telephone the originating U.S. activity with the name and telephone number of the nonconcurring activity.

(b) Allows 5 workdays for resolution of differences.

(c) Resolves disagreements and negotiates coordinated proposals.

(5) Submits proposals to DLA-SC for resolution (with a courtesy copy going to the submitting activity), if Directorate of Logistics Data Management, Defense Logistics Services Center (DLSC) is unable to obtain resolution.

(6) Rejects or revises proposals as necessary to obtain concurrence, as a result of recommendations made by DLA-SC's resolution efforts.

(7) Notifies Headquarters Catalog Offices, DLA, Veteran Administration, the Federal Supply Service, GSA, and NATO of approved new FSCs or revisions.

(8) Incorporates the approved new FSCs or revisions into the Cataloging Handbooks H2 and H6.

(9) Notifies managing activities responsible for revision of FLIS data base six months prior to changing the FLIS System.

(10) Issues Letters for C/F Distribution to maintain the Federal Supply Classification in accor-

dance with the requirements stated in the H2-1. These letters are distributed in limited number only to users of the classification engaged in identifying and classifying items of supply in accordance with the criteria established in the Federal Catalog System.

(b) Responsibilities of the Headquarters Catalog Office:

(1) Performs technical review of proposals forwarded by the Directorate of Logistics Data Management, Defense Logistics Services Center, and contacts Military Service activities and Defense Supply Centers, as necessary.

(2) Forwards concurrence and/or comments on proposals to the Directorate of Logistics Data Management, Defense Logistics Services Center (DLSC), within 45 days.

(3) Informs Military Service activities and Defense Supply Centers, as necessary, after DLSC approval.

(c) Responsibilities of the Federal Supply Service, GSA:

(1) Performs technical review of proposals forwarded by the Directorate of Logistics Data Management, Defense Logistics Services Center contacting Civil Agencies, as necessary.

(2) Forwards concurrence and/or comments on proposals to the Directorate of Logistics Data Management, DLSC, within 45 days.

(3) Informs Civil Agencies, as necessary, after DLSC approval.

(d) Responsibilities of the Veterans Administration:

(1) Performs technical review of propos-

als forwarded by the Directorate of Logistics Data Management, Defense Logistics Services Center.

(2) Forwards concurrence and/or comments on proposals to the Directorate of Logistics Data Management, Defense Logistics Services Center within 45 days.

(e) Responsibilities of Headquarters DLA:

(1) Performs technical review of proposals forwarded by the Directorate of Logistics Data Management, DLSC.

(2) Forwards concurrence and/or comments on proposals to the Directorate of Logistics Data Management, Defense Logistics Services Center with 45 days.

(3) Takes further appropriate action to obtain resolution. If reasonable efforts are not successful, makes final decision in the best interests of the majority of the Services and Agencies and the overall Federal Catalog System.

(4) Notifies the Directorate of Logistics Data Management, Defense Logistics Services Center of the results and provides appropriate disposition instructions.

b. Proposals for Revision to the FSC Indexes.

(1) Revisions to the FSC indexes are those changes which affect the individual classification of specific items of supply. (See Volume 4, Chapter 2). These revisions are brought about by conditions such as:

(a) The addition of a new item name.

(b) A revised interpretation of an existing item name.

(c) A revision of an item name which

substantially changes the concept of the item.

(d) A revision of the definition of an item name which substantially changes the concept of the item.

(e) A new design for an item of supply.

(f) A determination of the desirability of a revised classification for an item of supply, within the delimitations of the present FSC structure.

(g) Improper initial classification of an item name.

(h) Change to a condition code.

(2) Submission of Proposals. All proposals for revision to the FSC indexes (except those associated with a proposed revision to the FSC structure) are submitted to the Directorate of Logistics Data Management, DLSC. (See Appendix 3-4-A thru B.) The submissions will contain the following information:

(a) Specific revision, reclassification, and/or addition requested.

(b) Justification for the action proposed.

(c) National Stock Numbers, if available, for items for which the proposed action is sought.

(3) Processing of Proposals.

(a) Directorate of Logistics Data Management, DLSC, reviews proposals within five working days and:

(1) Accepts those which are adequately justified as to the need and desirability for the proposed actions.

(2) Returns those which require a struc-

ture change to the FSC or are incompatible with the FSC system as established.

(3) Collaborates change of an Approved Item Name from one FSC to another with interested activities as shown by the Major Organizational Entity (MOE) Rules on NSNs presently in the FLIS data base for this item name.

(4) After approval and prior to implementation, ensures that necessary coordination has been accomplished between gaining and losing activities when the change includes a transfer of item management responsibility. (See Volume 13 for FSC, MOE Rules, and Management Exception Rule Notes as applicable.)

(5) Incorporates accepted revisions, reclassifications, and/or additions in supplements to the FSC indexes.

(6) Notifies the submitter of the approval or rejection of the proposal. Notification of rejection will include the reasons for disapproval.

(7) Submitters may resubmit a rejected proposal in accordance with paragraph 3.4.5.a above, if the proposal was returned because a change to the FSC Structure was involved.

3.4.6 International Use of the Federal Supply Classification System.

a. NATO Use. In February 1956, the Air Board, Military Agency for Standardization, NATO, convened a Working Party in London which prepared and recommended the adoption of the second draft standardization agreement STANAG 3150. This agreement provided for the adoption of the United States Federal Supply Classification system as the NATO Supply Classification System, with the United States having responsibility for maintenance of the system, including right of decision on all

matters pertaining thereto. This agreement was subsequently ratified by fourteen NATO members, including the United States.

b. Revision to the Classification Structure Under STANAG 3150.

(1) Revisions Proposed by the United States. Revisions to the classification structure which are proposed by the United States shall be forwarded to the NATO member nations prior to approval. A period of 60 days is provided for concurrence and/or comment by individual NATO countries. Upon completion of this coordination, the following actions shall be taken, as appropriate.

(a) The United States (DLA/DLSC) approves the revision, specifying the implementation dates, if complete or majority concurrences are received.

(b) The United States considers and incorporates, if acceptable, modifications to proposed revisions, as submitted by the NATO countries.

(c) The United States resolves any conflicts of opinion if a majority of nonconcurrences, or major proposals for modifications of proposed revisions, are submitted by the NATO countries.

NOTE: Revisions which are proposed by a NATO member nation other than the United States are decided by the United States within a 30-day period, following the 60-day period provided for NATO concurrence actions. Notice of the final disposition of all proposed revisions to the classification system is forwarded by the United States to all NATO countries, stating, as appropriate, the reasons for nonacceptance of comments.

(2) Revisions Proposed by NATO Member Nations. Revisions to the classification structure proposed by any one of the NATO member nations,

are forwarded to all signatories of STANAG 3150 by the originating country. Concurrence and/or comment is forwarded by other signatories to the originating country and to the United States within a period of 60 days. Approved revisions are implemented on the effective date specified in the notification of approval forwarded to all signatories by the United States.

APPENDIX 3-4-A
SAMPLE OF FSC CHANGE

PART "A"		ITEM NAME COLLABORATION ACTION REQUEST		
DATE 26 AUG 93	REFERENCE XX (Activity Code)	FIIG/IIG T266		
Item Names, Basic Names, Definitions, Index Entries and Justification		INC	Appl Key	NCS'
<p><u>ADD FSC:</u></p> <p>MIRROR, GLASS</p> <p>furniture</p> <p>glass, fabricated materials</p> <p><u>DELETE FSC:</u></p> <p>communications</p> <p><u>JUSTIFICATION:</u></p> <p>The uses of other AINs would adequately describe items used for communication.</p> <p>P. O. C. <u>NAME OF SUBMITTER AND PHONE #</u></p> <p>Above proposed cataloging action will/will not require changes to existing item characteristic data of FIIGs as indicated.</p>		08275	LA	7105 (2) 9340 (2) 5895 (2)
NATO Form AC/135 No. 28A		Page 1 of 1		

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APPENDIX 3-4-B
SAMPLE OF FSC CHANGE

PART "A"		ITEM NAME COLLABORATION ACTION REQUEST		
DATE 8 APR 93	REFERENCE XX (Activity Code)	FIIG/IIG A238		
Item Names, Basic Names, Definitions, Index Entries and Justification		INC	Appl Key	NCS'
<p><u>ADD FSC/CHANGE CONDITION CODE:</u></p> <p>MULTIPLEXER-POWER SUPPLY GROUP</p> <p>A collection of items that provide multiplexing and power supply facilities.</p> <p><u>DELETE FSCs:</u></p> <p>MULTIPLEXER-POWER SUPPLY GROUP</p> <p>radio and television communication equipment except airborne telephone and telegraph</p> <p>teletype and facsimile</p> <p>special design</p> <p>fiber optic</p> <p><u>JUSTIFICATION:</u></p> <p>The above item name condition code changes will assist in classifying this item of supply with homogenous items, and is included in the H-2 mid-long term goals.</p> <p><u>P. O. C. NAME OF SUBMITTER AND PHONE #</u></p> <p>Above proposed cataloging action will/will not require changes to existing item characteristic data of FIIGs as indicated.</p>		00558		5895 (1)
		00558		5820 (2) 5805 (2) 5815 (2) 5811 (2) 6008 (2)
NATO Form AC/135 No. 28A		Page 1 of 1		

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CHAPTER 5 DEPARTMENT OF DEFENSE AMMUNITION CODES

3.5.1 Purpose. This chapter will describe the Department of Defense Ammunition Code (DoDAC) and the procedures for its development. The DoDAC system provides uniform, centrally assigned code numbers for generic descriptions applicable to items of supply identified under the Federal Catalog System in Federal Supply Classification Group 13 (Ammunition and Explosives) and Group 14 (Guided Missiles).

3.5.2 Structure. The DoDAC is a nine-position, semi-significant number consisting of the four-position FSC number, a hyphen, and a four-position code (DoDIC) assigned to each generic description within the FSC. The last four characters may be one alpha followed by three numerics (e.g., D548) or two alphas followed by two numerics (e.g., PA38).

3.5.3 Development. DoDACs are centrally assigned by DLSC to generic descriptions submitted by using activities. Each description consists of an Approved Item Name, appropriate FSC, and the common characteristics of items in FSG 13 or 14 which are functionally interchangeable and therefore treated collectively in normal supply operations. A

code number initially assigned to a generic description covering a single item will be used subsequently to cover variations or improvements that are functionally interchangeable with the original item.

3.5.4 Submittal. A request for the additions, revisions, cancellations, and reinstatements of a DoDAC must include the AIN, FIIG, FSC, generic description, and justification.

a. Additions, cancellations, and changes to DoDACs shall be submitted to the Commander, Defense Logistics Services Center, ATTN: DLSC-SC, Federal Center, Battle Creek, MI 49107-3084.

b. Requests for new DoDACs may be submitted to DLSC, AUTOVON 932-4670, Commercial Area Code (616) 961-4670, or FTS 552-4670. DoDACs will be confirmed by DLSC.

3.5.5 Publication. DoDACs are published within the FED LOG CD Rom System which is available for monthly updates. The Cataloging Handbook H3, the microfiche publication is no longer published.

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SUPPLEMENTARY

INFORMATION



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 Volume 3

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 1 April 1997

FEDERAL LOGISTICS INFORMATION SYSTEM (FLIS) PROCEDURES MANUAL

I. Volume 3, DoD 4100.39-M, 1 January 1995, change as follows: Remove pages listed below and insert revised pages. Additions and changes are indicated by *bold-face italic* type. Deletions are indicated in the Significant Changes paragraph below.

REMOVE OLD

INSERT NEW

Table of Contents
 Chapter 4
 Chapter 6

1 and 2
 3.4-1 thru 3.4-9
 3.6-1 thru 3.6-5

1 and 2
 3.4-1 thru 3.4-8
 3.6-1 thru 3.6-5

II. SIGNIFICANT CHANGES

A. The page changes are effective upon receipt.

B. Significant changes for the entire manual this quarter and the applicable change number for each affected volume are listed on the change sheet for volume 1.

BY ORDER OF THE DIRECTOR:

RANDALL B. HAGLUND
 Colonel, USMC
 Commander
 Defense Logistics Services Center

DLSC - The Key to Readiness

Errata

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III. This change sheet will be filed in front of Volume 3 for reference purposes after changes have been made.

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**DEVELOPMENT AND MAINTENANCE
OF ITEM LOGISTICS DATA TOOLS**

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CHAPTER 4 THE FEDERAL SUPPLY CLASSIFICATION SYSTEM

3.4.1 Purpose. This chapter will describe the structure and organization of the Federal Supply Classification System and the procedures for its modification. This chapter also provides procedural guidance covering the management, control, and maintenance of the Federal Supply Classification System.

3.4.2 Use. The Federal Supply Classification System is sufficiently comprehensive to permit the classification of all items used by participating activities. A FSC is selected for every item of supply and forms the first four digits of the National Stock Number (NSN). The Federal Supply Classification system, with its structure of groups and classes, represents those groupings and relationships which are based on current as well as anticipated management needs. As these needs change, the structure is modified by the addition of newly developed groups and classes, the subdivision of existing classes, and the revision of definitions for classes.

3.4.3 Structure. The Federal Supply Classification System is composed of commodity classes organized within broad groups. The system permits a total of 99 Federal Supply Groups (FSGs), each of which may be subdivided into FSCs. The classes within any group are considered to be closely related. Each class covers a relatively homogenous area of commodities with respect to their physical or performance characteristics, their relationship to a next higher assembly, or because they are usually procured or issued together.

a. Code Numbering system. Each class of items is assigned a four digit code. The first two digits represent the FSG and the last two digits specify the class within each group.

b. Expansion of the present number of groups and classes has been provided for by the gaps in sequence left between the code numbers assigned to groups and within groups to adjacent classes. Such

expansions may be required by technological advances or by the need for other desirable additions and changes.

c. For many classes the phrase "and components" is shown as a part of the class title, indicating that assemblies, subassemblies, and component parts which are specially designed for items in the class are to be included. In those instances where the phrase "and components" does not appear as part of the class title, the inclusion of assemblies, subassemblies, and component parts specially designed for the end items in the class is to be understood, unless otherwise provided for in the classification structure. (For Example, Group 25 Vehicular Equipment Components was established for items which otherwise might have been classified in Group 23, Ground Effect Vehicles, Trailer, and Cycles.)

d. Condition Codes. A single digit indicating the type of classification for an item in the Numeric Index of the Cataloging Handbook H2-2 and the Alphabetic and Numeric Indexes of the Cataloging Handbook H6.

(1) Condition Code (1). The Approved Item Name (AIN) which may be classified in one and only one specific FSC.

(2) Condition Code (2). The AIN which may be classified in two or more FSCs, as specifically indicated.

e. Explanation of Condition Code (2). The Condition Code is included with the AINs in the Cataloging Handbooks H2-2 and H6. Those AINs with Condition Code 2 specifically are entered in the Cataloging Handbook H6 with the FSC and the class modifier which applies. Example of proper application of condition codes are as follows:

Example 1. The AIN "TAPE, SOUND, RECORDING" is classified only in FSCs 5835 and

7450. The two specific H6 entries for this AIN both include Condition Code (2) following the class modifiers ("except office type" for FSC 5835, and "office type" for FSC 7450). However, the mandatory classification for each category of sound-recording tape is indicated in the "Class" column on the right-hand side of that particular entry in the Handbook. That is, office-type recording tape is classified only in FSC 7450, and all other types (applications) are classified without exception on FSC 5835.

Example 2. The AINs "CIRCUIT BREAKER" and "CIRCUIT BREAKER SUBASSEMBLY" are properly assigned to two different classes based on the voltage and type of current of the item being classified. This is indicated in the H-6 by a series of four entries derived from each AIN, such as "Circuit breakers, above 250 volts DC(2)--6110" and "Circuit breaker subassemblies, 250 volts DC and below (2)---5925". Condition Code (2) does not imply that a given item with the voltage and current shown can be classified in two classes. The modifying phrase in each case governs the classification and restricts the item of supply to one specific class.

3.4.4 General Principles and Rules

a. Unique Classification of Each Item of Supply. Each item of supply shall be classified in one, and only one, 4 digit FSC. The assignment of an FSC code number to an item of supply shall not be influenced by the method and type of item identification used to establish the concept of the item.

b. Classification of Parts Where a Specific Class Exists. Where a specific FSC is applicable to a particular part, that part shall be classified in the specific class and not with its next higher assembly, except as indicated below:

(1) A "Specially Designed Item" shall be

classified with its next higher assembly in the class established for the higher assembly when, and only when, the FSC requires such classification. The term "higher assembly" is used for brevity of "next higher classifiable assembly" and is understood to mean the next higher assembly on or with which the item is used as a subassembly, part, attachment, or accessory. In order to be accepted as specifically designed, an item does not have to be designed specifically for use in a single piece or single model of equipment. The item may be designed for use with categories of equipment such as all kinds of printing presses or all kinds of diesel engines. The requirement that a "specially designed item" be classified with the equipment for which it is specially designed is indicated in the FSC by:

(a) A Note. A note at the head of the class or group in Cataloging Handbooks H2-1 or H2-2 directing that "specially designed item" are to be classified with their next higher assemblies. The term "specially designed item" is an abbreviation of the term "specifically designed for specific use on or with specific individual types of equipment" as used in the notes in the Cataloging Handbooks H2-1 and H2-2.

(b) A Modifier. The modifier "multiapplication" added to the name of the item indexed in Cataloging Handbook H2-2 and H6, indicating that the specially designed items are to be classified with their next higher assemblies.

(c) An Exclusion. An exclusion to the class published in Cataloging Handbook H2-1 indicating that the item is not to be classified therein.

(d) An Exception. A term of exception applied to an entry in Cataloging Handbook H2-2 or H6 excluding the item.

(2) When an item of supply has been classified as a "specially designed item" with its next

higher classifiable assembly, the FSC class code number originally assigned shall not be changed to that of a multiapplication class until evidence becomes available that the item does have multiple applications.

c. **Classification of Parts Where No Specific Class Exists.** Where no specific FSC is applicable to a particular part, that part shall be classified with its next higher classifiable assembly in the class established therefor.

d. **Classification of Parts Having Multiple Applications.** The FSC for an item which is to be classified with its next higher assembly but which is used on or with different assemblies classified in two or more classes of the FSC, shall be assigned in accordance with the following:

(1) When a variety of applications to assemblies classified in different classes is known to exist at the time the subassembly, part, attachment, or accessory is initially classified, the FSC code number assigned shall be that which will be most useful in supply management, selected on the basis of:

(a) The most significant application of the item.

(b) The code number least likely to be obsoleted.

(c) The greatest number of application of the item.

(2) When a code number is assigned to a multiple application item after a consideration of the known applications and the application(s) within the class assigned become obsolete, a new class code number shall be selected in accordance with subparagraph 3.4.4.d(1).

(3) When a subassembly, part, attachment, or accessory is assigned an FSC on the basis of its

relationship to a higher assembly, and it is later discovered that the item is used on additional assemblies which are not in the same class as the assembly initially considered, the FSC originally assigned shall be used for all other applications of the item.

c. **Auxiliary Subdivisions of Federal Supply Classification Classes.** Where greater commodity classification detail required by a participating service or activity than is provided for in the basic 4-digit FSC structure, auxiliary subdivisions of classes (commonly referred to as "Auxiliary Classifications" or "Subclasses") may become necessary. These Auxiliary subdivisions of classes may be developed by the participants for their own use. If a universal requirement is found to exist for a particular auxiliary subdivision, consideration will be given to the establishment of additional FSC classes corresponding to the auxiliary subdivision. When used in conjunction with the NSN, any auxiliary subdivision of a class found necessary by a participant shall be signified by augmentation of the NSN and not by change to the 4-digit FSC. In no event shall any of the 13 digits of the NSN be changed or digits or other symbols be inserted within the 13-digit structure.

f. **Classification of Sets, Kits and Outfits.** The following rules shall govern the classification of Sets, Kits, and Outfits:

(1) Sets, Kits and Outfits consisting of variations (such as size or color) of an item shall be classified in the same class as the individual items.

(2) Sets, Kits and Outfits consisting of several different items classifiable either in a single class or in several classes of the same group, or in classes of more than one group, shall be classified in the "Sets, Kits, and Outfits" class of the group which logically covers the application or functions purpose for which the set, kit, or outfit was assembled.

(3) If no "Sets, Kits, or Outfits" class is established in the appropriate group which covers the application or functional purpose of the set, kit or outfit, then the set, kit or outfit shall be classified in the single class of the appropriate group which logically covers the application or functional purpose for which the set, kit, or outfit was assembled.

(4) If the appropriate 4-digit FSC cannot be determined by the application of the above rules, the set, kit or outfit shall be assigned to the class which is considered most useful for supply management.

(5) If no class is found to be appropriate under any of the above rules, the set, kit, or outfit shall be classified in FSC class 9999, Miscellaneous Items.

3.4.5 Publications. The following handbooks assist users in establishing the appropriate FSC for each item of supply and help minimize inconsistency in the classification of identical items.

a. Cataloging Handbook H2, Federal Supply Classification, is divided into two parts:

(1) Part 1, Groups and Classes, presents the classification structure, showing all the groups and classes listed in the arrangement of the four digit FSC numbering system. Where appropriate, the main commodities included (or excluded) which delimit the coverage of a particular class are shown below the title for the class. In addition, specific notes may be inserted following specific group and class titles which define or delimit the coverage of a particular group or class.

(2) Part 2, Numeric Index of Classes, is arranged by class and lists in alphabetic sequence the names of items included within each class. The index facilitates location of the FSCs in which an item shall be placed and location of a range of items in the classification. In addition, the notes following group and class titles in Part 1 are incorporated in

Part 2 following the corresponding group and class titles.

b. Cataloging Handbook H6, Federal Item Name Directory for Supply Cataloging, includes a reference to the FSC for each Approved Item Name.

3.4.6 Maintenance of the Federal Supply Classification System.

a. Proposals for Revision to the FSC Structure.

(1) Revisions to the FSC structure are those, changes which constitute a significant revision to any of the present groups or classes, such as:

(a) The establishment of a new group or class.

(b) The deletion of an existing group or class.

(c) A revision to the delimitations of an existing group or class which results in a broader or narrower scope.

(d) A revision in a principle or rule for classification.

(2) Submission of Proposals. When applicable, proposals should include corresponding DD Form 180s showing modification to existing item names, and/or any new names which will be developed as a result of the changes.

(a) Submitters.

(1.) Participating Military Service activities and Defense Supply Centers submit proposals to the appropriate Headquarters Catalog Office.

(2.) Participating Civil Agencies other than the Veterans Administration submit proposals to the Federal Supply Service, General Services Administration (GSA).

(3.) The Veterans Administration submits proposals directly to the Directorate of Logistics Information Management, Defense Logistics Services Center (DLSC-S).

(4) All other activities submit proposals directly to the Directorate of Logistics Information Management, DLSC-S.

(b) Headquarters Catalog Office/Federal Supply Service, GSA:

(1.) Reviews proposals submitted by Military Service activities or Defense Supply Centers/Civil Agencies, conducts internal coordination, and develops unified proposals.

(2.) Submits unified proposals to the Directorate of Logistics Information Management, DLSC-S.

(3) Processing of Proposals.

(a) Responsibilities of the Directorate of Logistics Information Management, DLSC-S.

(1.) Performs non-technical review of the proposals and forwards, by certified mail, with comments as necessary to the following Headquarters Catalog Offices (whichever did not submit the proposal) for concurrence and/or comments:

Army
Navy
Air Force
Marine Corps
Defense Logistics Agency
General Services Administration
Veterans Administration

(2.) Coordinates with the following agencies when proposals affect their area of interest:

Defense *Special Weapons Agency*
National Security Agency
Federal Aviation Agency
National Weather Service

(3.) Forwards proposals to NATO for simultaneous coordination with U.S. activities. NATO will have 60 days to reply.

(4.) Reviews comments on the proposals received from the Headquarters Catalog Offices and/or the Federal Supply Service and NATO. A written reply must be received from the HCOs and/or the Federal Supply Service. If a counterproposal is received, the coordination process will start over with a copy going to the submitting activity.

(5.) When a nonconcurrence is received:

(a.) Contacts by telephone the originating U.S. activity with the name and telephone number of the nonconcurring activity.

(b.) Allows 5 workdays for resolution of differences.

(c.) Resolves disagreements and negotiates coordinated proposals.

(6.) Submits proposals to Hq DLA (MMSLP/LI) for resolution, if Directorate of Logistics Information Management, DLSC-S is unable to obtain resolution.

(7.) Rejects or revises proposals as necessary to obtain concurrence, as a result of recommendations made by Hq DLA-(MMSLP/LI) resolution efforts.

(8.) Notifies Headquarters Catalog Offices, DLA, Veteran Administration, the Federal Supply Service, GSA, and NATO of approved new FSCs or revisions.

(9.) Incorporates the approved new FSCs or revisions into the Cataloging Handbooks H2 and H6.

(10.) Notifies managing activities responsible for revision of FLIS data base six months prior to changing the FLIS System.

(11.) Issues Letters for C/F Distribution to maintain the Federal Supply Classification in accordance with the requirements stated in the H2-1. These letters are distributed in limited number only to users of the classification engaged in identifying and classifying items of supply in accordance with the criteria established in this manual. These letters promulgate the changes made after the proposed changes have been coordinated and approved. A completely revised Cataloging Handbook H2-1 (Part 1 of The Federal Supply Classification) is issued as required.

(b) Responsibilities of the Headquarters Catalog Office:

(1.) Performs technical review of proposals forwarded by the Directorate of Logistics Information Management, DLSC-S, and contacts Military Service activities and Defense Supply Centers, as necessary.

(2.) Forwards concurrence and/or comments on proposals to the Directorate of Logistics Information Management, DLSC-S, within 45 days.

(3.) Informs Military Service activities and DLA Centers as necessary, after DLSC approval.

(c) Responsibilities of the Federal Supply Service, GSA:

(1.) Performs technical review of proposals forwarded by the Directorate of Logistics Infor-

mation Management, DLSC-S, contacting Civil Agencies, as necessary.

(2.) Forwards concurrence and/or comments on proposals to the Directorate of Logistics Information Management, DLSC-S, within 45 days.

(3.) Informs Civil Agencies, as necessary, after DLSC approval.

(d) Responsibilities of the Veterans Administration:

(1.) Performs technical review of proposals forwarded by the Directorate of Logistics Information Management, DLSC-S.

(2.) Forwards concurrence and/or comments on proposals to the Directorate of Logistics Information Management, DLSC-S within 45 days.

(e) Responsibilities of Headquarters DLA:

(1.) Performs technical review of proposals forwarded by the Directorate of Logistics Information Management, DLSC-S.

(2.) Forwards concurrence and/or comments on proposals to the Directorate of Logistics Information Management, DLSC-S within 45 days.

(3.) Takes further appropriate action to obtain resolution. If reasonable efforts are not successful, makes final decision in the best interests of the majority of the S/As and the overall FLIS.

(4.) Notifies the Directorate of Logistics Information Management, DLSC-S of the results and provides appropriate disposition instructions.

b. Proposals for Revision to the FSC Indexes.

(1) Revisions to the FSC indexes are those changes which affect the individual classification of

specific items of supply. (See Volume 4, Chapter 2). These revisions are brought about by conditions such as:

- (a) The addition of a new item name.
- (b) A revised interpretation of an existing item name.
- (c) A revision of an item name which substantially changes the concept of the item.
- (d) A revision of the definition of an item name which substantially changes the concept of the item.
- (e) A new design for an item of supply.
- (f) A determination of the desirability of a revised classification for an item of supply, within the delimitations of the present FSC structure.
- (g) Improper initial classification of an item name.
- (h) Change to a condition code.

(2) **Submission of Proposals.** All proposals for revision to the FSC indexes (except those associated with a proposed revision to the FSC structure) are submitted to the Directorate of Logistics Information Management, DLSC-S. (See Appendix 3-4-A thru B.) The submissions will contain the following information:

- (a) Specific revision, reclassification, and/or addition requested.
- (b) Justification for the action proposed.
- (c) National Stock Numbers, if available, for items for which the proposed action is sought.

(3) **Processing of Proposals.**

(a) Directorate of Logistics Information Management, DLSC-S, reviews proposals within five working days and:

(1.) Accepts those which are adequately justified as to the need and desirability for the proposed actions.

(2.) Returns those which require a structure change to the FSC or are incompatible with the Federal Supply Classification system as established.

(3.) Collaborates change of an AIN from one FSC to another with interested activities as shown by the Major Organizational Entity (MOE) Rules on NSNs presently in the FLIS data base for this item name.

(4.) After approval and prior to implementation, ensures that necessary coordination has been accomplished between gaining and losing activities when the change includes a transfer of item management responsibility. (See Volume 13 for FSC, MOE Rules, and Management Exception Rule Notes as applicable.)

(5.) Incorporates accepted revisions, reclassifications, and/or additions in supplements to the FSC indexes.

(6.) Notifies the submitter of the approval or rejection of the proposal. Notification of rejection will include the reasons for disapproval.

(b.) Submitters may resubmit a rejected proposal in accordance with paragraph 3.4.6.a above, if the proposal was returned because a change to the FSC Structure was involved.

3.4.7 International Use of the Federal Supply Classification System.

a. NATO Use. In February 1956, the Air Board, Military Agency for Standardization, NATO, con-

vened a Working Party in London which prepared and recommended the adoption of the second draft standardization agreement STANAG 3150. This agreement provided for the adoption of the United States Federal Supply Classification system as the NATO Supply Classification System, with the United States having responsibility for maintenance of the system, including right of decision on all matters pertaining thereto. This agreement was subsequently ratified by fourteen NATO members, including the United States.

b. Revision to the Classification Structure Under STANAG 3150.

(1) Revisions Proposed by the United States. Revisions to the classification structure which are proposed by the United States shall be forwarded to the NATO member nations prior to approval. A period of 60 days is provided for concurrence and/or comment by individual NATO countries. Upon completion of this coordination, the following actions shall be taken, as appropriate.

(a) The United States (DLA/DLSC) approves the revision, specifying the implementation dates, if complete or majority concurrences are received.

(b) The United States considers and incorporates, if acceptable, modifications to proposed revisions, as submitted by the NATO countries.

(c) The United States resolves any conflicts of opinion if a majority of nonconcurrences, or major proposals for modifications of proposed revisions, are submitted by the NATO countries.

NOTE: Revisions which are proposed by a NATO member nation other than the United States are decided by the United States within a 30-day period, following the 60-day period provided for NATO concurrence actions. Notice of the final disposition

of all proposed revisions to the classification system is forwarded by the United States to all NATO countries, stating, as appropriate, the reasons for nonacceptance of comments.

(2) Revisions Proposed by NATO Member Nations. Revisions to the classification structure proposed by any one of the NATO member nations, are forwarded to all signatories of STANAG 3150 by the originating country. Concurrence and/or comment is forwarded by other signatories to the originating country and to the United States within a period of 60 days. Approved revisions are implemented on the effective date specified in the notification of approval forwarded to all signatories by the United States.

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CHANGE NO. 6
 DoD 4100.39-M

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 DoD 4100.39-M
 Volume 3

DLSC-VPH
 1 January 1997

FEDERAL LOGISTICS INFORMATION SYSTEM (FLIS) PROCEDURES MANUAL

I. Volume 3, DoD 4100.39-M, 1 January 1995, change as follows: Remove pages listed below and insert revised pages. Additions and changes are indicated by *bold-face italic* type. Deletions are indicated in the Significant Changes paragraph below.

	<u>REMOVE OLD</u>	<u>INSERT NEW</u>
Glossary	iii thru viii, xv thru xviii, xxvii and xxviii, xxxi thru xxxiv	iii thru viii, xv thru xviii, xxvii and xviii, xxxi thru xxxiv

II. SIGNIFICANT CHANGES

A. The page changes are effective upon receipt.

B. Significant changes for the entire manual this quarter and the applicable change number for each affected volume are listed on the change sheet for volume 1.

BY ORDER OF THE DIRECTOR:

RANDALL B. HAGLUND
 Colonel, USMC
 Commander
 Defense Logistics Services Center

DLSC - The Key to Readiness

Errata

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III. This change sheet will be filed in front of Volume 3 for reference purposes after changes have been made.

DISTRIBUTION: Defense Logistics Agency: 41, 42

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GLOSSARY
PART I - ACRONYMS

		Volume(s)			Volume(s)
AAC	Acquisition Advice Code	6,14,15	ANSI	American National Standards Institute, Inc.	2,3,7
ACN	Advance Change Notice, FLIS	1,2	APSN	Association Package Sequence Number	
ADC	Air Dimension Code	15	AQL	Acceptable Quality Level	2,14
ADP	Automatic Data Processing	1,3,4,7	AR	Army Regulation	2,6,13
ADPEC	Automatic Data Processing Equipment Identification Code	6,15	ARC	Accounting Requirements Code	15
ADPP	Automatic Data Processing Point	15	ASCII	American National Standard Code for Information Interchange	2
ADPS	Automatic Data Processing System	1	ASD	Assistant Secretary of Defense	
AEDA	Ammunition Explosive, and Other Dangerous Articles	10	ASPR	Armed Services Procurement Regulation	7
AFFC	Air Force Fund Code		CAC	Civil Agency Catalog	15
AFLC	Air Force Logistics Command	6,13	CAGE	Commercial and Government Entity Code	1,2,4,5, 6,7,14,15
AFM	Air Force Manual	6,13	CAO	Contract Administration Office	1,15
AIN	Approved Item Name	3,4,6	CB	Change Bulletin	15
AINRP	Approved Item Name Reclassification Program	6	CCAL	Certified Contractor Access List	15
AMC	Acquisition Method Code	6,14	CDA	Catalog Data Activity	6
AMSC	Acquisition Method Suffix Code	6,14			

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CIC	Card Identification	4,6,14			
	Code, Item Management	2	DHCO	Departmental Headquarters Catalog Office	2,14
	Coding Content	2			
	Indicator Code		DIA	Defense Intelligence Agency	13
	Continuation				
	Indicator Code				
CIT	Consumable Item	6	DIC	Document Identifier Code	1,2,4,6,7,13,14,15
	Transfer				
CMD	Catalog Management	1,2,4,5,6,7,14,15	DIPEC	Defense Industrial Plant Equipment Center	1,2,6,7,13
	Data				
COM-RI	Communications Routing Identifier	2,6	DISC	Defense Industrial Supply Center	2,14
CSS	Cataloging Statistical Series	2,14	DLA	Defense Logistics Agency	1,2,4,5,6,13,14,15
DA	Description Available	15	DLAH	Defense Logistics Agency Handbook	
DAAS	Defense Automatic Addressing System	1,2,6	DLAR	Defense Logistics Agency Regulation	6,13
DAASO	Defense Automatic Addressing System Office	1,2,4,5,6,14	DLSC	Defense Logistics Services Center	All
DAC	Document Availability Code	4	DM	Descriptive Method (Item Identification)	2,14
DCN	Document Control Number	1,4	DoD	Department of Defense	All
DCSN	Document Control Serial Number	6	DoDAAC	Department of Defense Activity Address Code	
DD Form	Department of Defense Form	1,2,3,4,5,7,15	DoDAAD	Department of Defense Activity Address Dictionary	
DEMIL	Demilitarization	4,15			
DESC	Defense Electronics Supply Center	2,14			
DFSC	Defense Fuel Supply Center	2,14			

		Volume(s)			Volume(s)
DoDAC	Department of Defense Ammunition Code	3	<i>DSWA</i>	<i>Defense Special Weap- ons Agency</i>	2,4,6,13,14
			<i>DSWACA</i>	<i>Defense Special Weap- ons Agency Cataloging Activity</i>	4
DoDD	Department of Defense Directive	1			
DoDI	Department of Defense Instruction	6,14	EAM	Electronic Accounting Machine	1,2,4, 6,7,13
DOE	Department of Energy	2,4	ED	Effective Date	2,6,13
DRMS	Defense Reutilization and Marketing Service	1,15	ELCD	Extra Long Characteris- tic Description	2,3,4
			ELRN	Extra Long Reference Number	2,3,4
DPSC	Defense Personnel Support Center	2,13,14	EOJ	End of Job	
DRIS	Defense Retail Interservice Support		EOT	End of Transmission	2
			ERRC	Expendability, Recoverability- Reparability Code	
DRN	Data Record Number	1,2,4, 5,6,7,13			
DSC	Defense Supply Center	1,2,4,6	ESDC	Electrostatic Discharge Codes	8,9,10,15
<i>DSCC</i>	<i>Defense Supply Center Columbus</i>	<i>2,14</i>	FAA	Federal Aviation Administration	1,2,4,6,13
<i>DSCR</i>	<i>Defense Supply Center Richmond</i>	<i>2,14</i>	FC	Foreign Countries	2,4,6
			FD	Functional Description	1
DSN	Defense Switched Network (Formerly: Automatic Voice Network)	1,2,3,4,5	FDM	Full Descriptive Method (Item Identification)	2
			FG	Foreign Government	4
DSOR	Depot Source of Repair	6	FII	Federal Item Identifica- tion	2,4,6

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FIIG	Federal Item Identification Guide	1,2,3,4,5,7,14,15	HMIC	Hazardous Material Indicator Code	8,9,10,15
FIND	Federal Item Name Directory	4,15	I&S	Interchangeability and Substitutability	1,5,6,14
FLIS	Federal Logistics Information System	All	ICP	Inventory Control Point	6,13,14
FLIS Data Base	Federal Logistics Information System Data Base	1,2,3,4,5,6,7,13,14	II	Item Identification	1,2,3,4,5,6,13
FMS	Foreign Military Sales	2,13	IIM	Item Intelligence Maintenance	2
FMSN	File Maintenance Sequence Number	2,4,6	ILDT	Item Logistics Data Transmittal	4
FMSO	Fleet Material Support Office	6,13	IMC	Item Management Coding	1,2,6,13,14
FRD	Formerly Restricted Data	4	IMCA	Item Management Classification Activity	2,6
FSC	Federal Supply Classification	1,2,3,4,5,6,13,14,15		Item Management Coding Activity	13,14
FSG	Federal Supply Group	1,5,6,13,14,15	IMM	Integrated Materiel Manager	1,2,4,6,13,14
GIM	Gaining Inventory Manager	2,6	IMMC	Integrated Materiel Management Committee	6
GIMM	Gaining Inventory Materiel Manager	2,6	IMSS	Item Management Statistical Series	6,14
GIRDER	Government/Industry Reference Data Edit and Review	4	INC	Item Name Code	1,3,4,5,6,14,15
GSA	General Services Administration	1,2,3,4,6,7,13,14	IOS	International Organization for Standardization	6
HMC	Hazardous Materiel Code	15	IRRC	Issue, Repair and/or Requisitioning Restriction Code	

		Volume(s)			Volume(s)
ISAC	Identified Secondary Address Coding		MCSA	Marine Corps Supply Activity	
ISC	Item Standardization Code	4,5,6,15	MEC	(Marine Corps) Management Echelon Code	13,15
JAIEG	Joint Atomic Information Exchange Group	4	MFR	Manufacturer	4
JAN	Joint Army-Navy	2	MIL-RI	Military Routing Identifier	6
JANAP	Joint Army-Navy-Air Force Publication	2,7	MILSCAP	Military Standard Contract Administration Procedure	1,7,15
LCL	Less Than Carload Rating Code	15	MILSPEC	Military Specification	3
LIM	Losing Inventory Manager	6	MIL-STAAD	Military Standard Activity Address Directory	
LMF	Language Media Format	2	MIL-STAMP	Military Standard Transportation and Movement Procedure	6
LOA	Level of Authority	2,6,13,14	MILSTD	Military Standard	2,3,4,7
LR	Logistics Reassignment	4,6	MIL-STICCS	Military Standard Item Characteristics Code Structures	3,15
LS	Lead Service	6	MILSTRAP	Military Standard Transaction Reporting and Accounting Procedure	15
LTL	Less Than Truckload Rating Code	15	MILSTRIP	Military Standard Requisitioning and Issue Procedure	6
MAC	Maintenance Action Code	6	MIM	Military Inventory Manager	14
MC	Marine Corps	1,2	MM	Materiel Manager	
MCC	Materiel Category Code Materiel Condition Code				
MCLB	Marine Corps Logistics Base	13			
MCO	Marine Corps Order	13			

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MMAC	Materiel Management Aggregation Code-AF	1,13	NIDS	Nuclear Integrated Data System	4
MMC	Materiel Management Category Code-DoD (Commodity)	13	NIIN	National Item Identification Number	All
MOE	Major Organizational Entity	1,2,3,4,5,6,13,14	NIMSC	Nonconsumable Item Material Support Code	2,6
MOWASP	Mechanization of Warehousing and Shipment Processing	6	NMFC	National Motor Freight Classification (Code)	1,2,6,15
MRC	Master Requirement code	1,3,4,5,15	NOCA	Nuclear Ordnance Cataloging Activity	2,4
MRD	Master Requirement Directory	3,15	NOCO	Nuclear Ordnance Cataloging Office	2,4
MRM	Military Retail Manager	14	NSA	National Security Agency	1,2,4,6,13,14
MTMC	Military Traffic Management Command	1,2,4,6,15	NSN	National Stock Number	1,2,3,4,
NADEX	NATO Data Exchange	1	OCR	Optical Character Recognition (Reader)	1,2,7
NAIN	Non-Approved Item Name		ODRC	Output Data Request Code	1,2,4,5,6
NATO	North Atlantic Treaty Organization	1,2,,4,5,6,7,13,15	OE	Organizational Entity	1,4,5,7,15
NCAGE	NATO Commercial and Government Entity	1,4,5,7,15	PDM	Partial Descriptive Method (Item Identification)	2,4
NCB	National Codification Bureau	2,4	PIC	Priority Indicator Code	1,2,4,5,14
NDUP	Non-Duplicate	4	PICA	Primary Inventory Control Activity	1,2,4,5,6,13,14
NHCI	Nuclear Hardness Critical Item	2,4	PMIC	Precious Metals Indicator Code	6,15
			PORM	Plus or Minus	2,3

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Condition Codes. A condition code is assigned to Approved Item Names to indicate whether the name may be classified in single or multiple FSC(s) as follows:

Code 1 - The AIN may be classified in only one specific FSC.

Code 2 - The AIN may be classified in two or more specific classes of the FSC structure.

Consumable Item Transfer (CIT). A special project transferring consumable items now managed by military services to DLA or GSA. 6

Content Indicator Code. The Content Indicator Code (CIC) consists of four alphabetic characters which appear in positions 5 through 8 of an Automatic Digital Network (AUTODIN) message header and End of Transmission (EOT). It is designed primarily for use by the receiving communications terminal as an aid in determining distribution of data messages. All catalog data being transmitted requires a CIC. 2

Continuation Indicator Code (CIC). See DRN 8555, volume 12. 1,4

Contract Administration Office Code (CAO). See DRN 8870, volume 12. 1,15

Controlled Inventory Item Code (CIIC). See DRN 2863, Volume 12. 15

Conversion. The transformation of a value to an equal or equivalent value in a different term or scale. 3

Coordinating Activity. An activity having the responsibility for inter-Service/Agency coordination.

Criticality Code. See DRN 3843, volume 12. 1,4,5,15

Data Chain. A name given to the use of two or more logically related data elements. For example, the data chain Document Control Number (DRN 1015) is composed of data elements: Originating Activity Code (DRN 4210), Submitting Activity Code (DRN 3720), Date Transaction (DRN 2310), and Document Control Serial Number (DRN 1000). 4,5

Data Changes. All transfers between the descriptive method and the reference method; all reference number changes, item status code changes, withdraw or add owner actions, and cancellations regardless of type of item identification; and item (or part) name and FSC changes for type 2 item identifications. 2,4,6

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Data Code. A number, letter, character, symbol, or any combination thereof used to represent a data item. For example, the data codes JV, KX, and XB represent the data items: Strategic Systems Project Office; Defense Personnel Support Center; and Field Command, Defense <i>Special Weapons</i> Agency, respectively, under the data element: Submitting Activity Code (DRN 3720).	1
Data Element. A grouping of informational units which has a unique meaning and sub-units (data items) of distinct value. Examples of data elements in FLIS are State/U.S. Possession Abbreviation (DRN 0186), Submitting Activity Code (DRN 3720), and DoD Activity Address Code (DRN 3755).	1,4,5,6, 7,15
Data Element Dictionary (DED). An authoritative reference containing the definition and related features of data elements, data chains, and data use identifiers. See volume 12.	1
Data Element Terminator Code. See DRN 8268, volume 12.	1,4
Data Exchange. The submittal of data, not requiring collaboration, through the single submitter to the Defense Logistics Services Center (DLSC).	2
Data Item. A sub-unit of descriptive information or values classified under a data element. For example, the data element Submitting Activity Code (DRN 3720) contains data items such as U.S. Army Electronics Command, Naval Training Device Center, and San Antonio Air Logistics Center.	
Data Range Criteria. Information providing the means (manual or mechanical) for determining item equivalency and substitutability relationships for each item characteristic.	3
Data Record Number (DRN). See DRN 0950, volume 12.	1,2,4,5,6,7,15
Defense Retail Interservice Support (DRIS) Program. A program designed to use inter-Service transfers of material and logistics services to achieve the greatest possible effectiveness and economy in the operations of DoD activities.	
Deletion Reason Code. See DRN 4540, volume 12.	6,14
Demilitarization. The act of destroying the military offensive or defensive advantages inherent in certain types of equipment or materiel. The term comprehends mutilation, dumping at sea, scrapping, melting, burning, or alteration designed to prevent the further use of equipment and materiel for its originally intended military or lethal purpose.	4,15
Department of Defense Activity Address Code (DoDAAC). See DRNs 0395 and 6550, volume 12.	
Depot Source of Repair (DSOR). An organic or contract activity designated as the source to provide depot maintenance of equipment. Only each Service's Maintenance Interservice Support Management Office (MISMO) assigns DSOR codes through the PICA Service cataloging function.	6

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Department of Defense Activity Address Directory (DoDAAD). The file of all Department of Defense customers clear-text addresses, address codes, and billing codes for use in preparation of bills to customers.	
Department of Defense Ammunition Code (DoDAC). See DRN 3767, volume 12.	3.15
Department of Defense Interchangeability and Substitutability (I&S) Family. A grouping of items which possess such physical and functional characteristics as to provide comparable functional performance for a given requirement Design Control Reference. The primary number used to identify an item of production, or a range of items of production, by the manufacturer (individual company, firm, corporation, or Government activity) which controls the design, characteristics, and production of the item by means of its engineering drawings, specifications, and inspection requirements.	2.4
Design Control Reference. The primary number used to identify an item of production, or a range of items of production, by the manufacturer (individual company, firm, corporation, or Government activity) which controls the design, characteristics, and production of the item by means of its engineering drawings, specifications, and inspection requirements.	2.4
Document Availability Code (DAC). See DRN 2640, volume 12.	
Document Control Number. See DRNs 1015 and 3920, volume 12.	4.5,6,15
Document Control Serial Number. See DRN 1000, volume 12.	1,5,6
Document Identifier Code (DIC). See DRN 3920, volume 12.	1,2,4,5,6,7,13,14,15
DoD/Federal Functional Manager. The organizational element responsible for specific functions such as the Federal Catalog Program (DLA-MM), Item Management Coding (DLA-OP), Freight Classification Data (MTMC).	1
DOE Controlled Commercial Items. End items, assemblies, components, and parts (including testing and handling equipment) which are standard commercial items used on or with nuclear weapons. Due to the nuclear weapons reliability concept, they require special testing or DOE control for quality assurance. These items are available only from the DOE through <i>DSWA</i> and are all of "war-reserve quality" or "single quality". They are not security classified and are not commodity classified in FSC group 11. Item identifications for these items will each reflect a reference number coded with CAGE 87991.	4
DOE Special Design Items. End items, assemblies, components, and parts (including testing and handling equipment) designed or manufactured by DOE or design controlled by DOE for use specifically in the nuclear ordnance field. These items are available only from the DOE through the Defense <i>Special Weapons Agency (DSWA)</i> and may be categorized as "war reserve quality", "training quality", or "single quality".	4

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Drop Table. Used by DLSC, when requested by Service/Agency activities, to eliminate distribution of unneeded data.	1
Economic Feasibility. The determination of the cost effectiveness of a data system change. Design, development, programming, implementation, and appropriate Automatic Data Processing (ADP) equipment costs (including separate indication of ADP and non-ADP costs) should be related to the value of the automated data system change under development.	1
Effective Date (ED). The year and Julian day denoting the date that a predetermined condition or action becomes effective in the defense logistics system. This date will always be the first day of a month; e.g., 83121 is 1 May 1983. An effective date will be either a "future" effective date or a "standard" effective date.	2,5,6,13
Electronic Data Transmission. This is a world-wide department of Defense computerized general purpose communications system which provides for the transmission of narrative and data pattern traffic on a store-and-forward(message switching) basis and subscriber (circuit switching) basis. (Formerly: Automatic Digital Network (AUTODIN)).	1,2,4 5,6,7
Electronic Data Message Control. A procedure that may be used by interested recorded users to identify and verify receipt of FLIS data transmitted electronically for a fixed time period. See volume 8, DIC KWA.	2
Electrostatic Discharge Code. A code to indicate whether an item is susceptible to electrostatic discharge or electromagnetic interference damage.	8,9,10,15
End of Transmission (EOT). An ADP term indicating the conclusion of a transmission.	
Equivalency Criteria. Criteria contained in section II of the FIIG consisting of data range conversion formulas and decision rules criteria used to determine characteristic equivalency and substitutability. Replies are equivalent when they are identical or become equivalent through the application of section II criteria. Replies NOT RATED and ANY ACCEPTABLE in the data base are not to be considered equivalent with respect to other definitive replies to a specific input requirement. Equivalent items are always "offered" to the processing activity requesting NSN assignment from DLSC for review and possible acceptance.	3
Estimated Demand. See DRN 0727, volume 12.	
Estimated or Actual Price. See DRN 0731, volume 12.	
Expendability, Recoverability-Reparability Code (ERRC). See DRN 2655, volume 12.	
Extra Long Characteristics Description (ELCD). Characteristics description data which consists of 5,000 characters or more.	2,3,4

Volume(s)

National Motor Freight Classification Code (NMFC). See DRN 2850, volume 12.	1.2,6,15
National Stock Number (NSN). See DRNs 3960, 0126, 8525, 4120, 4150, 0260, 2895, 8875, 8869, 8878, and 8977, volume 12	1.2,3,4, 5,6,13,14,15
NATO Commercial and Government Entity (NCAGE). See DRN 4140, volume 12.	1,4,5,7,15
NATO Stock Number (NSN). An item of supply produced by a NATO member nation other than the U.S. identified by that nation by the assignment of a NATO Stock Number (e.g., 0000-21-000-0000). When such items enter the supply system of the U.S. Government, they will be identified by the NATO Stock Number if codification agreements have been extended to provide for acquisition of foreign item identification data through DLSC. For such items, the NATO Stock Number will be used and recognized as the National Stock Number in internal management of the item in the U.S.	1,4,6
Navy Cognizance Code. See DRN 2608, volume 12.	1,13
Next Higher Classifiable Assembly. This term is understood to mean the next higher assembly on or with which the item is used as a subassembly, part, attachment, or accessory. The term "higher assembly" is used for brevity and may actually include components, sub-assemblies, assemblies, and end items or systems.	4
Nominal Value. A value, excluding tolerance, used for the purpose of general identification usually expressed as a fraction, size number or letter, code number, gage number, or decimal number.	
Non-Approved Item Name (NAIN). See DRN 5020, volume 12.	3
Non-Duplicate (NDUP). When the item identification is sufficiently close to, but not an actual duplicate characteristically of, an existing Federal item identification and there are no matching reference numbers.	4
Normal Source of Procurement. See DRN 0721, volume 12.	
Nuclear Hardness Critical Item (NHCI). As defined in DoD-STD-100C. A hardware item at any assembly that is mission critical and could be designed, repaired, manufactured, installed or maintained for normal operation, and yet degrade system survivability in a nuclear environment if hardness were not considered.	10
On Hand/Due In. See DRN 0722, volume 12.	
Operational Feasibility. The determination of whether a data system change will operate properly and be properly used once developed and implemented.	1
Operational Need Date. See DRN 0726, volume 12.	
Optical Character Recognition (Reader) (OCR). A data processing technique (device) which converts, by optical means, the characters placed on paper into a code suitable for input to a computer.	1,2,7

	Volume(s)
Organizational Entity (O.E.). An organizational element, segment, or entity for cataloging; DoDAAC, bidders, manufacturing, or nonmanufacturing activity or establishment, etc.; and attribute data ascribed in the entity for the purpose of intensifying its meaning, characteristics, responsibility, eligibility, and area(s) of authority.	1,3,4,5,6,7, 14,15
Original Federal Item Identification. An item identification which has been approved by the Defense Logistics Services Center and assigned a National Stock Number, but which has not been revised, transferred, or cancelled.	4
Originating Activity. Any participating activity which originates proposed new or revised cataloging tools and/or proposed new or revised item identifications and related data for submittal directly or indirectly to DLSC for approval. It may be a managing activity which prepares its own catalog data for submittal or may be another activity functioning as a catalog agent for the managing activity. In those cases where the originating activity is authorized to submit proposals directly to DLSC rather than through an intermediate monitoring activity (e.g., Defense Supply Center; Defense <i>Special Weapons</i> Agency), the assumes the status also of a submitting activity.	2,4,5,6
Originating Activity Code. See DRN 4210, volume 12.	1,4,5,6,15
Output Data Request Code (ODRC). See DRN 4690, volume 12.	1,2,4,5,6
Package Sequence Number (PSN). See DRN 1070, volume 12.	1,2,4,5,7,14
Partial Descriptive Method Item Identification (PDM). A Partial Descriptive Method (PDM) of item identification is a type 4 item identification which contains one or more characteristics in addition to the item name but does not contain all characteristics required for an FDM.	2,4,14
Permanent System Control Number (PSCN). See DRN 4250, volume 12.	1,2,4,5,6,15
Physical Security/Arms, Ammunition and Explosives Security Risk/Pilferage Codes. See DRN 2863, volume 12.	15
Possible Duplicate Item-of-Supply Concepts. An item-of-supply concept expressed by an existing item identification shall be considered a possible duplicate of a concept expressed by a proposed item identification or another existing item identification when (1) there is enough similarity in descriptive data and/or (2) there is one or more common reference number(s) related to each item to indicate that the same item of production is involved, or that the one single concept is adequate or may be established to identify the item of supply. Such cases warrant reference to the managing activity(ies) for verification of descriptive and/or reference data. Reconciliation of such data normally will result in revision of one or both concepts to more clearly differentiate the items or in a proposal to cancel one of the item identifications as an actual duplicate, as invalid, or to use the other item identification (cancel-use).	4

	Volume(s)
Remote Output Format Code. See DRN 0841, chapter 12.2.	16
Reparability Code - Coast Guard. See DRN 0709, chapter 12.2.	1
Reply. A reply (data item) is the answer to a specific requirement.	3,4
Reply Code. A code that represents an established reply to an approved requirement.	3,4
Reply Table. A listing of replies (data items) applicable to a requirement or group of requirements derived from a single data element. Each reply in the table is assigned a different reply code.	3,4
Report Control Symbol (RCS). Set of letters and numbers which identifies an approved report and authorizes its initiation and preparation.	2,14
Reports Generator. Designed to produce one-time listings or reports from the FLIS files.	1,5
Requirement. A definition of a required characteristic.	3,4
Requirement, Lead-In. A general requirement identifying and providing guidance for reply to a specific range of following requirements. A lead-in requirement is never assigned a MRC, nor does it ever require a reply.	3
Requirement, Major. A requirement which, in addition to requiring a reply, may necessitate replies to succeeding subordinate requirements (subrequirements) dependent upon the specific reply given to the major requirement (see definition of Requirement, Lead-In and Requirement, Subordinate).	3
Requirement, Subordinate. A requirement for which the reply is dependent on a lead-in requirement or major requirement (also termed "subrequirement").	3
Retail Manager (RM). A materiel manager or another designated activity within a Military Service/Agency having retail responsibility for an item of supply where the wholesale materiel management functions are performed by a IMM, including <i>DSWA</i> , NSA, and TACOM.	6
Retroactive Coding. Scheduled application of the approved IMC criteria by the ICPs to item(s) in FSC classes designated as commodity oriented which were previously coded for Service retention.	6
Return Coding. A request to effect the return of an item currently coded for Integrated Materiel Management to Service management by the application of IMC criteria.	6
Routine Reclassification Action. Indicated by Card Identification Code F to show that DLSC has reclassified an item from a weapons system oriented to a commodity oriented FSC class and IMC criteria must be applied.	6

	Volume(s)
Routing Identifier Code (RIC). A group of letters or numbers assigned to indicate the geographic location of a station, a fixed headquarters of a command, activity, or unit at a geographic location, and the general location of a tape relay or tributary station to facilitate the routing of traffic over the tape relay networks.	1,2,6
Secondary Address Code (SAC). See DRN 8990, chapter 12.2.	1,3,4
Secondary Address Indicator Code (SAIC). See DRN 9485, chapter 12.2.	3
Secondary Inventory Control Activity (SICA). See DRN 2938, chapter 12.2.	1,2,6,13,14
Service/Agency Designator Code (SADC). See DRN 4672, chapter 12.2.	2,4,15
Service Item Control Center (SICC). An activity which: (1) serves as a Military Service focal point for resolution of support problems for required weapons systems oriented consumable items managed by another Military Service; (2) performs such residual technical functions as configuration control, item qualitative acceptability, allowance list preparation, and maintenance of internal program support responsibility; and (3) provides assistance to the IMM, as necessary, to support requiring Service users on a timely basis.	2,6,13,14
Shelf Life Code (SLC). See DRN 2943, chapter 12.2.	6,15
Simplified File Maintenance (SFM). FLIS output consisting of a monthly maintenance update, a cumulative monthly basic record, and semiannual basic replacement record for activity files shall be provided for Federal Item Identification Data and Catalog Management Data. It shall be distributed in NIIN sequence to authorized subscribing activities on magnetic tapes via mail. Data furnished from two or more functional areas shall be sequenced together.	1,2
Single Quality Items. Items (such as nuclear ordnance test and handling equipment) authorized for use on or with both war-reserve and training nuclear weapons.	4
Single Submitting Activity. See DRN 9255, chapter 12.2.	2,4
Source Controlled Federal Item Identification. A type 1, 1B, 2, 4, or 4B Federal item identification (original, revised, transferred, or reinstated) representing one or more specific manufacturer's items of production certified by an end item manufacturer, or by a Government activity, to be the only known items suitable for the specific application.	4
Source of Supply Code (SOS). See DRN 3690, chapter 12.2.	4,5,6,14,15
Source of Supply Modifier Code (SOSM). See DRN 2948, chapter 12.2.	6

Volume(s)

<p>Specially Designed Item. The term “specially designed item” is an abbreviation of the term “specifically designed for specific use on or with specific individual types of equipment” as used in the notes in Cataloging Handbooks H2-1 and H2-2. In order to be accepted as specially designed, an item does not have to be designed specifically for use on a single piece or single model of equipment; the item may be designed for use with categories of equipment, such as all kinds of printing presses, all kinds of diesel engines.</p>	4
<p>Special Packaging Requirement. See DRN 0725, volume 12.</p>	
<p>Standard Requirement. A lengthy requirement which, because it is used repeatedly in many patterns, has been put in standardized form.</p>	4
<p>Standard Test Data Base (STDB). Maintained at DLSC with data input by Services/Agencies participating in the interface test program.</p>	1
<p>Statistical Indicator Code. See DRN 3708, volume 12.</p>	
<p>Submitted Package Sequence Number (SPSN). See DRN 8328, volume 12.</p>	
<p>Submitter Code. See DRN 2535, volume 12.</p>	
<p>Submitting Activity. Any participating activity which submits proposed catalog data directly to DLSC for approval. The submitting activity may be the activity which originates the catalog data or an intermediate monitoring activity (e.g., Defense Supply Center; Defense <i>Special Weapons</i> Agency) through which the originating activity is required to submit its proposals to DLSC.</p>	1,2,3,4, 5,6,7
<p>Submitting Activity Code. See DRN 3720, volume 12.</p>	1,4,5,15
<p>Supply Management Data. Item data which do not affect NSN assignment but are necessary to support logistics functions.</p>	3,6
<p>Supply Support and Cataloging Action Request. Indicated by Card Identification Code V to show that an SSR other than provisioning received by the IMM from an ICP is the origin of the request when the item is in an FSC class subject to IMC.</p>	6
<p>Supply Support Request (SSR). A request submitted by the activity responsible for supporting an end item being provisioned to a Integrated Materiel Manager which manages some of the support items or is a potential manager of some new support items used in the end item.</p>	2,6
<p>Suspense File. The portion of the process control sector (SSR) which will serve as a temporary repository of unique information of functional value to the Service/Agency for the implementation of a logistics data transaction within DLSC.</p>	1,4,5
<p>System Change Request (SCR). A formal request for modification of the FLIS. The SCR will be assigned one of the following priorities.</p>	1,6,15

	Volume(s)
a. Routine - an SCR requiring at least 45 calendar days for Service/Agency coordination and distribution of the system change by DLSC a minimum of 180 days prior to implementation.	
b. Expedite - an SCR requiring at least 45 calendar days for Service/Agency coordination and distribution of the system change by DLSC a minimum of 90 days prior to implementation.	
c. Emergency - an SCR required to maintain the operational status of FLIS.	
System Control Number (SCN). See DRN 3735, volume 12.	4,6
System Support Record (SSR). The segment of the FLIS data bank containing the sum total of information (guides, program subroutines, tables, rules, controls, statistics, codes, terms) required to support or specify the content and utilization of the FLIS data base. The SSR is comprised of the following files: Organizational Entity, Item Name, FSC, FIIG/DP/Guide, Table Look-Up, Graphics, Process Control, Mass Changes to FLIS data base, Mass Data Retrieval, and Tailored Data Interrogations.	1,2,5,6,7, 13,14,15
Technical Feasibility. The determination of whether the development of a data system change is possible within the limits of available technology.	1
Training Quality Items. Items designated for use on or with training nuclear weapons or on nuclear ordnance test and handling equipment but not authorized for use on war-reserve nuclear weapons.	4
Type of Cargo Code. See DRN 9260, volume 12.	1,2,15
Type of Financial Management Control. See DRN 0729, volume 12.	
Uniform Freight Classification Code (UFC). See DRN 3040, volume 12.	1,2,6,15
Unit of Issue (U/I). See DRN 3050, volume 12.	2,6,14,15
Unit of Issue Conversion Factor. See DRN 3053, volume 12.	6
Unprocessable Transaction. Transactions which did not contain the minimum essential control elements required for processing. These transactions are not queued for further processing and are not retained in the FLIS files.	1,2,4,6
Using Service Code. See DRN 0745, volume 12.	
Voluntary Standard. A product standard developed under procedures published by the Department of Commerce. Its adoption by a particular industry, company, or organization is voluntary. It is used as a standard for the procurement and production of a product.	6
War-Reserve Quality Items. Items authorized for use on or with war-reserve nuclear weapons but not designated for use on training nuclear weapons or test and handling equipment.	4



DEFENSE LOGISTICS AGENCY
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CHANGE NO. 5
 DoD 4100.39-M

CH 5
 DoD 4100.39-M
 Volume 3

DLSC-VPH
 1 July 1996

FEDERAL LOGISTICS INFORMATION SYSTEM (FLIS) PROCEDURES MANUAL

I. Volume 3, DoD 4100.39-M, 1 January 1995, change as follows: Remove pages listed below and insert revised pages. Additions and changes are indicated by *bold-face italic* type. Deletions are indicated in the Significant Changes paragraph below.

	<u>REMOVE OLD</u>	<u>INSERT NEW</u>
Glossary	iii and iv, ix thru xiv, xxi thru xxiv, xxix thru xxxv	iii and iv, ix thru xiv, xxi thru xxiv, xxix thru xxxv
Table of Contents	1 and 2	1 and 2
Chapter 4	3.4-1 thru 3.4-7	3.4-1 thru 3.4-9
Chapter 5	3.5-1	3.5-1
Chapter 6	3.6-1 thru 3.6-5	3.6-1 thru 3.6-5

II. SIGNIFICANT CHANGES

A. The page changes are effective upon receipt.

B. Significant changes for the entire manual this quarter and the applicable change number for each affected volume are listed on the change sheet for volume 1.

BY ORDER OF THE DIRECTOR:

RANDALL B. HAGLUND
 Colonel, USMC
 Commander
 Defense Logistics Services Center

DLSC - The Key to Readiness

Errata

CH 5
DoD 4100.39-M
Volume 3

III. This change sheet will be filed in front of Volume 3 for reference purposes after changes have been made.

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GLOSSARY
PART I - ACRONYMS

		Volume(s)			Volume(s)
AAC	Acquisition Advice Code	6,14,15	ANSI	American National Standards Institute, Inc.	2,3,7
ACN	Advance Change Notice, FLIS	1,2	APSN	Association Package Sequence Number	
ADC	Air Dimension Code	15	AQL	Acceptable Quality Level	2,14
ADP	Automatic Data Processing	1,3,4,7	AR	Army Regulation	2.6.13
ADPEC	Automatic Data Processing Equipment Identification Code	6,15	ARC	Accounting Requirements Code	15
ADPP	Automatic Data Processing Point	15	ASCII	American National Standard Code for Information Interchange	2
ADPS	Automatic Data Processing System	1	ASD	Assistant Secretary of Defense	
AEDA	Ammunition Explosive, and Other Dangerous Articles	10	ASPR	Armed Services Procurement Regulation	7
AFFC	Air Force Fund Code		CAC	Civil Agency Catalog	15
AFLC	Air Force Logistics Command	6,13	CAGE	Commercial and Government Entity Code	1,2,4,5, 6,7,14,15
AFM	Air Force Manual	6,13	CAO	Contract Administration Office	1,15
AIN	Approved Item Name	3,4,6	CB	Change Bulletin	15
AINRP	Approved Item Name Reclassification Program	6	CCAL	Certified Contractor Access List	15
AMC	Acquisition Method Code	6,14	CDA	Catalog Data Activity	6
AMSC	Acquisition Method Suffix Code	6,14			

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		Volume(s)			Volume(s)
CIC	Card Identification Code, Item Management Coding Content Indicator Code Continuation Indicator Code	4,6,14 2 2	DFSC	Defense Fuel Supply Center	2,14
			DGSC	Defense General Supply Center	2,14
			DHCO	Departmental Headquarters Catalog Office	2,14
CIT	Consumable Item Transfer	6	DIA	Defense Intelligence Agency	13
CMD	Catalog Management Data	1,2,4,5, 6,7,14,15	DIC	Document Identifier Code	1.2,4,6,7, 13.14,15
COM-RI	Communications Routing Identifier	2,6	DIPEC	Defense Industrial Plant Equipment Center	1.2,6,7.13
CSS	Cataloging Statistical Series	2,14	DISC	Defense Industrial Supply Center	2,14
DA	Description Available	15	DLA	Defense Logistics Agency	1.2,4,5,6, 13.14,15
DAAS	Defense Automatic Addressing System	1,2,6	DLAH	Defense Logistics Agency Handbook	
DAASO	Defense Automatic Addressing System Office	1,2,4, 5.6.14	DLAR	Defense Logistics Agency Regulation	6,13
DAC	Document Availability Code	4	DLSC	Defense Logistics Services Center	All
DCN	Document Control Number	1,4	DM	Descriptive Method (Item Identification)	2,14
DCSC	Defense Construction Supply Center	2,14	DNA	Defense Nuclear Agency	2,4,6,13,14
DCSN	Document Control Serial Number	6	DNACA	Defense Nuclear Agency Cataloging Activity	4
DD Form	Department of Defense Form	1,2,3, 4,5,7,15			
DEMIL	Demilitarization	4,15			
DESC	Defense Electronics Supply Center	2.14			

		Volume(s)			Volume(s)
PSCN	Permanent System Control Number	1,2,4,5,6,15	RNVC	Reference Number Variation Code	5,6,15
PSMAT	Provisioning Screening Master Address Table	1,5,7	ROFC	Remote Output Format Code	16
PSN	Package Sequence Number	1,2,4,5,7	RPDMRC	Reference/Partial Descriptive Method Reason Code	1,2,4
PSOS	Pseudo Source of Supply	6	S/A	Military Service/Civil Agency	2,13,14
PVC	Price Validation Code		SAC	Secondary Address Code	3,4
Q/R	Query Response. Electronic Data Transmission		SADC	Service/Agency Designator Code	2,4,15
QUP	Quantity Unit Pack	2,6,15	SAIC	Secondary Address Indicator Code	
RCS	Reports Control Symbol	2,14	SCN	System Control Number	1,4
RD	Restricted Data	4	SCR	System Change Request (FLIS)	1,6,15
RIC	Routing Identifier Code	1,2,6	SFM	Simplified File Maintenance	1,2
RM	Reference Method (Item Identification)	2,4,14	SIC	Statistical Indicator Code	
	Retail Manager	6	SICA	Secondary Inventory Control Activity	1,2,5,6,13,14
RNAAC	Reference Number Action Activity Code	1,2,4	SICC	Service Item Control Center	2,6,13,14
RNCC	Reference Number Category Code	2,4,5,6,15	SIN	Submittal Identification Number	
RNFC	Reference Number Format Code	4,5	SLC	Shelf Life Code	2,6,15
RNJC	Reference Number Justification Code	1,4			
RNSC	Reference Number Status Code	4			

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		Volume(s)
SMIC	Special Material Identification code	15
SNOCA	Service Nuclear Ordnance Cataloging Activity	4
SoS	Source of Supply Code	1,2,4,6,4,15
SoSM	Source of Supply Modifier Code	
SPSN	Submitted Package Sequence Number	
SR	Standard Requirement	4
SSR	Supply Support Request	1,2,6,13
	System Support Record	1,2,5,6,7,13,14,15
STDB	Standard Test Data Base	1
TACOM	U.S. Army Tank-Automotive Command	2,6,13,14
TIC	Terminal Identifier Code	
TSN	Terminal Serial Number	
UFC	Uniform Freight Classification (Code)	1,6,15
UI	Unit of Issue	2,6,15
U/M	Unit of Measure	
U/P	Unit Price	15
USCG	United States Coast Guard	1,2,6

GLOSSARY
PART II - TERMS

Volume(s)

Acceptable Quality Level (AQL). The maximum percent defective that, for purposes of sampling inspection, can be considered satisfactory.	2,4,14
Accounting Requirements Code (ARC). See DRN 2665, volume 12.	15
Acquisition Advice Code (AAC). See DRN 2507, volume 12.	2,6,14,15
Acquisition Method Code (AMC). See DRN 2871, volume 12.	6,14
Acquisition Method Suffix Code (AMSC). See DRN 2876, volume 12.	6,14
Activity Code. A two-character code assigned by DLSC, upon request, for use in the Federal Catalog System to identify an activity for cataloging, standardization, or other management purposes.	2,3,4,5,6
Adopt Coding. Application of the approved IMC criteria by an ICP to items of supply currently managed by a IMM, wherein the ICP or another activity within the same Service is not currently recorded as a user in the FLIS data base and desires to add user interest and obtain supply support from the appropriate IMM.	6
Advance Change Notice - See FLIS Advance Change Notice	
Air Commodity/Special Handling Code. See DRN 9215, volume 12.	1,2,15
Air Dimension Code (ADC). See DRN 9220, volume 12.	1,2,15
Air Force Fund Code. See DRN 2695, chapter 12.2.	
American National Standard Code for Information Interchange (ASCII). The bit configuration standard subset requirement for FLIS and all Government computer systems.	2
Applicability Key. The code used to reference the applicability of a requirement to an item name in a FIIG.	3
Approved Item Name (AIN). The name which is selected (approved by the Directorate of Item Identification, DLSC, as the Official designation for an item of supply), and delimited where necessary, to establish a basic concept of the item of supply to which the item belongs and with which it should be compared. It may be a basic name, or a basic name followed by those modifiers necessary to differentiate between item concepts having the same basic name. Approved item names, basic names, and colloquial names are published in Cataloging Handbook H6. When two or more names are applicable to an item, the name which is most commonly used by the Government and industry shall be selected as the item name. The other name(s) shall be cross-indexed to the selected name.	3,4,6,15

	Volume(s)
Approved Item Name Reclassification Program (AINRP). A DoD-directed program designed to (1) identify item names (by five-digit code) which represent large quantities of consumable items originally classified in FSC classes for the next higher assemblies; (2) take action to reclassify such items from the next higher assembly FSC to the "home" FSC class; and, (3) apply IMC procedures to items migrating from weapons system oriented to commodity oriented FSC classes.	6
Association Code. A code number assigned by DLSC, for internal use, to a corporate complex which has two or more divisions, branches, subsidiaries, etc., each of which has been assigned a different Commercial and Government Entity Code (CAGE). This code number is used by DLSC in screening operations for determining duplication and possible duplication when the reference number is the same but the CAGE Code is different.	1,4,5,14
Association Package Sequence Number (APSN). See DRN 8252, volume 12.	
Authorized Item Identification Collaborator Code. See DRN 2533, chapter 12.2.	2,6
Automatic Data Processing Equipment Code (ADPEC). See DRN 0801, volume 12.	8,9,10,15
Cancelled Federal Item Identification. A Federal item identification which is no longer authorized for use to identify an item of supply.	2,4,6
Card Identification Code, Item Management Coding. See DRN 0099, volume 12.	1,2,6,14
Catalog Management Data (CMD). The total range of information compiled and published in Management Data Lists including requisitioning, stock, and financial management and other management control data; and including various referenced relationships to other items, documents, or materiel management conditions.	1,2,4,5, 6,7,14,15
Cataloging Handbook H2. A handbook containing Federal Supply Classification data in Federal Supply Classification order showing all groups and classes in the four-digit FSC code numbering system. Where appropriate, the main inclusions and exclusions which delimit the coverage of a particular class are shown.	3,4,15
Cataloging Handbook H6. Federal Item Name Directory for Supply Cataloging.	3,4,15
Cataloging Statistical Series (CSS). A series of informational type documents which provide statistical data in support of the Federal Cataloging Program.	2,14
Category A Single Submitter. Where management responsibility includes all items of supply in a given FSC, <i>the IMM is the sole submitter of cataloging actions related to items of supply in the applicable class. The IMM is the sole submitter of cataloging actions, both new or changed data and new, reinstatement, or revised item identifications, for items managed in the applicable class. This also includes proposals for new or revised cataloging tools related to FSCs under the activity's cognizance.</i>	2,4

Volume(s)

- Category B Single Submitter.** Where management and cataloging responsibility is established on a by item basis within a given FSC, the IMM is the sole submitter of proposed catalog data changes against existing item identifications representing items of supply under the management cognizance of that activity. This includes *cataloging action, both new or changed data, and new, reinstatement, or revised item identifications, for items managed under the activity's cognizance.* 2
- Central Catalog File.** See FLIS Data Bank. 2,4
- Change Bulletin.** Publications issued following a basic edition for updating purposes. The data content is cumulative. Change bulletin is synonymous with the terms "advance notice" and "supplement". 15
- Change Coding.** The method of changing data elements previously furnished as a result of IMC. Excluded are changes from Service management to Integrated Materiel Management or vice versa. Such latter changes shall be accomplished under initial, maintenance, retroactive, or return coding as appropriate. 6
- Change Indicator.** See DRN 0122, volume 12.
- Characteristics Reply.** The total reply to a FIIG requirement in MILSTICCS format. It consists of the primary address code and may consist of a secondary indicator code, along with a secondary address code (if applicable), or it may consist of a double dollar symbol (\$\$) to identify the AND condition or a single dollar symbol (\$) to identify the OR condition. These symbols will be used to chain materials and the like which do not govern other requirements. Also included is the mode code and the item characteristics (either clear text or coded or a combination of the two as specified in the FIIG) followed by the record separator symbol. 3,4
- Characteristics Search.** An interrogation of the FLIS data base to locate existing items of supply. The input contains specific item characteristics. Criteria is applied in the processing to select items which are similar or may be substituted for another item of supply. Items may or may not meet the requirements of interchangeability or substitutability. Characteristic Search is used primarily for standardization studies, item reduction studies, design improvements or to find substitutes for a primary item.

	Volume(s)
Codification Project Code. A two-character alphabetic code assigned by the Defense Logistics Services Center (DLSC) to identify catalog data related to a codification project for NATO or other foreign countries.	4
Collaborating Activity. An activity designated by a Military Service or participating agency to review proposed item logistics changes.	2,4
Collaborator Code. See DRN 2533, volume 12.	2,13
Commercial and Government Entity Code (CAGE). Any reference number entered into the Federal Catalog System will have a CAGE Code assigned to it prior to entering the central catalog file. The CAGE Code is a five character data element assigned to establishments which are manufacturers or have design control of items of supply procured by the Federal Government. The first and last positions of a CAGE Code will be numeric. Under certain conditions revision actions shall be initiated by DLSC: When a CAGE Code is cancelled and replaced by a code assigned to a single manufacturer; or when DLSC cannot determine, without collaboration, which items formerly manufactured by a defunct organization are now manufactured by the acquiring organization(s).	
Where the applicable CAGE Code cannot be determined under the conditions cited above, recorded cataloging activities shall initiate appropriate action to update the central catalog file. DLSC will not cancel a CAGE Code until all numbers of that manufacturer have been withdrawn.	
Commodity Materiel Management Category Code - DoD. See DRN 2611, volume 12.	
Compiler. A term used to denote the activity responsible for the preparation and maintenance of a catalog.	
Concept Change. A concept change is determined to exist when the identification characteristics expressed by the proposed revision of a Federal item identification differ in content from those expressed by the Federal item identification, and both item identifications represent possible items of supply.	4

	Volume(s)
Full Descriptive Method of Item Identification. The descriptive method of item identification establishes and delimits the concept of an item of supply by the delineation of the essential characteristics of the item which give the item its unique character and serve to differentiate it from every other item of supply. It may contain other characteristic data not used in the assignment of an NSN as specified in section III of the specific FIIG. The Full Descriptive Method (FDM) technique of item identification is a type 1 item identification which contains all essential characteristics of an item and differentiates it from every other item of supply.	2,4,14
Functional Description (FD). The FLIS FD provides:	1.8.9
a. The system requirements to be satisfied which will serve as a basis for mutual understanding between the user and the developer.	
b. Information on performance requirements, preliminary design, and user impacts including fixed and continuing costs.	
c. A basis for the development of systems tests.	
Functional Manager, DoD/Federal. See DoD/Federal Functional Manager.	
Functional/Operational Index (F/O). An index in grid form designed to assist the user in relating the item identification characteristics with the various logistic functions for data output products.	3.5.15
Gaining Inventory Manager (GIM). The inventory manager responsible for assuming wholesale materiel management functions.	2.6
Guide Number, Federal Item Identification Guide (FIIG). See DRN 4065, volume 12.	2.4
Hazardous Materiel Code (HMC). See DRN 2720, volume 12.	1,6,15
Hazardous Material Indicator Code. A code instructing the user on the type of hazardous material(s) used.	8,9,10,15
Immediate Response. The time elapsed from the point at which DLSC receives the last character of input data until DLSC transmits the first character of output data will not exceed one minute.	16
Industrial Plant Equipment (IPE). IPE is that part of DoD-owned plant equipment with an acquisition cost of \$1000 or more; used for the purpose of cutting, abrading, grinding, shaping, forming, joining, testing, measuring, heating, treating, or otherwise altering the physical, electrical, or chemical properties of materials, components, or end items entailed in manufacturing, maintenance, supply, processing, assembly, or research and development operations. IPE is further identified by noun name in joint DoD Handbooks, DLAH 4215 series.	

	Volume(s)
Initial Coding. Application of the established IMC criteria by the ICPs to all National Stock Numbered items existing in FSC classes newly designated as commodity oriented.	6
Initiating Activity. An activity assigned the responsibility for the development, coordination, reconciliation, and submittal to DLSC of a completed FIIG and follow-up maintenance.	3
Integrated Materiel Manager (IMM). <i>The DoD activity or agency that has been assigned wholesale integrated materiel management responsibility for the DoD and participating Civil Agencies. Integrated materiel management responsibilities include cataloging, requirements determination, procurement, distribution, overhaul repair and disposal of materiel. The terms Integrated Materiel Manager (IMM), Inventory Control Point (ICP) and Materiel Manager are synonymous.</i>	1,2,4,6,13
Interchangeability and Substitutability (I&S). Conditions which permit the exchange of one item for another without affecting design or performance beyond acceptable limits.	1,5,6,14
Inventory Account Code - Coast Guard. See DRN 0708, volume 12.	1
Inventory Control Point (ICP). An organizational unit within the supply system of a Military Service/Defense Logistics Agency which is assigned the primary responsibility for the management of a group of items, either within a particular Military Service or for the DoD as a whole. Responsibilities include computation of quantitative requirements; the authority to require procurement, repair materiel. or initiate disposal; development of world-wide quantitative and monetary inventory data; and the positioning and repositioning of materiel.	6,13,14
Item Characteristics. Physical, performance, and other item-related logistics data required to describe, differentiate, and manage items of supply.	3,4
Item Identification (II). A collection and compilation of data to describe an item. The minimum data to develop an item identification are a combination of the item name, CAGE Code, manufacturers' identifying part/reference number, Reference Number Category Code (RNCC), and Reference Number Variation Code (RNVC). The maximum data required are the item name, all of the physical and performance characteristics data prescribed by a specific FIIG, and the manufacturers' identifying part/reference number. It may also include additional related reference numbers.	1,2,3,4, 5,6,13, 14,15
Item Intelligence. The sum total of data for a given item.	4
Item Intelligence Maintenance (IIM). A function in FLIS which provides for the processing of adjustments/revisions to established item identifications and characteristics in the FLIS data base.	
Item Logistics Data Transmittal (ILDT). The medium used for formatting data required to be transmitted to the data bank.	4
Item Management Classification Activity (IMCA). See DRN 4075, volume 12.	2,6

	Volume(s)
Item Management Coding (IMC). The process of determining whether items of supply in <i>Federal Supply Classes</i> assigned for <i>Integrated Materiel Management</i> qualify for management by the individual <i>DoD components other than DLA or GSA</i> . Coding is accomplished in accordance <i>with</i> DoD 4140.26-M, volume I, Defense Integrated Materiel Management for Commodity Oriented Consumable Items.	1,2,6,13,14
Item Management Coding Activity (IMCA). See DRN 2748, volume 12.	2,6,13,14
Item Management Statistical Series (IMSS). A series of informational type documents providing statistical data in support of the Federal Catalog System.	6,14
Item Name. See DRNs 5010 and 5020, volume 12.	1,3,4,5,6,15
Item Name Code (INC). See DRN 4080, volume 12.	1,3,4, 5,6,14,15
Item of Production. Consists of those pieces or objects grouped within a manufacturer's identifying number and conforming to the same engineering drawings, specifications, and inspection.	4
Item of Supply. An item of supply may be a single item of production or two or more items of production that are functionally interchangeable or that may be substituted for the same purpose and that are comparable in terms of use. It is more meticulous (a selection of closer tolerance, specific characteristics, finer quality) than the normal item of production, or may be a modification (accomplished by the user or at request of the user) of a normal item of production.	2,3,4,5,6,7, 14,15
Item Standardization Code (ISC). See DRN 2650, volume 12.	1,4,5,6,14,15
Key Data Element(s). Data element(s) submitted to obtain the desired interrogation/search output as specified by the Output Data Request Code.	5
Language Media Format (LMF). A code used for AUTODIN transmission to the FLIS data bank. The code indicates source media and preferred output media.	2
Less Than Carload Rating Code (LCL). See DRN 2760, volume 12.	1,2,15
Less Than Truckload Rating Code (LTL). See DRN 2770, volume 12.	1,2,15
List. One of the types of catalogs within a series of publications (e.g., Identification List).	4,15
Losing Inventory Manager (LIM). The inventory manager responsible for relinquishing wholesale materiel management functions.	2,6
Electronic Data Transmission Message Control. A procedure that may be used by interested recorded MADS users to identify and verify receipt of FLIS data transmitted <i>electronically</i> for a fixed time period. See volume 8, DIC KWA.	2
Maintenance Action Code (MAC). See DRN 0137, volume 12.	6

	Volume(s)
Maintenance Coding. Application of the approved IMC criteria by the ICPs to all new or existing National Stock Numbered items which enter FSC classes subject to IMC after initial IMC has been accomplished.	6
Major Organizational Entity (MOE). The principal subdivision of Government organization under which component organizational entities are identified (e.g., Army, Navy, Air Force, Marine Corps, DLA, GSA, etc.).	1,2,3,4, 5,6,13,14,15
Management Cognizance. The duties and responsibilities of a DSC, a Military Service activity, other DoD activity(ies), FAA, or GSA for management of an item of supply to the extent indicated by the MOE Rule.	2,6
Manufacturer (Mfr). A manufacturer may be an individual, company, firm, corporation, or Government activity that controls the design and production of an item, or produces an item from crude or fabricated materials or components, with or without modification, into more complex items.	4,7
Mass Change Processing. Mass change processing falls into two categories. Pre-programmed mass change is initiated by an SSR transaction which triggers or permits subsequent multiple actions to the DLSC and/or Service/Agency files. Special project mass change will require that original analysis and programming be accomplished to accommodate the requested actions.	1,2,6
Mass Data Retrieval. Mass data retrieval is designed to extract segment data from the FLIS data base or partial or complete files from the SSR based on the input of key data element(s). The content of the segments from the FLIS data base and the content of data elements from the SSR will be controlled through input of the appropriate Output Data Request Code DRN as indicated in volume 10, table 28 (Output Data Request Code/Access Key(s)).	1,5
Master Requirement Code (MRC). See DRN 3445, volume 12.	1,3,4,5,15
Master Requirements Directory (MRD). A publication containing the requirements, reply tables, Military Standard Item Characteristics Coding Structure (MILSTICCS), Master Requirement Codes (MRCs), and mode codes contained in published Federal Item Identification Guides (FIIGs).	1,3,5
Materiel Category Codes (MCC). See DRNs 2680 and 9256, volume 12.	
Materiel Condition Codes (MCC). See DRN 2835, volume 12.	
Materiel Management. Direction and control of those aspects of logistics which deal with materiel, including the functions of identification, cataloging, standardization, requirements determination, procurement, inspections, quality control, packaging, storage, distribution, disposal, maintenance, mobilization planning. Encompasses materiel control, inventory control, inventory management, and supply management.	2,6
Materiel Management Aggregation Code - AF (MMAC). See DRN 2836, volume 12.	1,13

	Volume(s)
Precious Metal Indicator Code (PMIC). A code indicating the presence of precious metals (Gold, Silver, Platinum or a combination).	8,9,10,15
Price Validation Code, Air Force (PVC). See DRN 0858, volume 12.	
Primary Inventory Control Activity (PICA). See DRN 2866, volume 12.	1,2,4,5, 6,13,14
Primary Reference Number. The number used to identify an item of production or a range of items of production by the manufacturer (individual company, firm, corporation, or Government activity) which controls the design, characteristics, and production of the item through its engineering drawings, specifications, and inspection requirements. The number is the "design control reference".	4
Priority Indicator Code (PIC). See DRN 2867, volume 12.	2,4,5,14
Procurement Method Code (PIC). See DRN 2871, volume 12.	6,14
Procurement Method Suffix Code (PMSC). See DRN 2876, volume 12.	6,14
Production Lead Time. See DRN 0730, volume 12.	
Proposed Original Item Identification. An item identification for an item in or entering a supply system which has not yet been approved by the Defense Logistics Services Center (DLSC) as a Federal item identification assigned a National Stock Number.	2,4
Provisioning Screening Master Address Table (PSMAT). See DRN 0232, volume 12.	1,5,7
Provisioning Supply Support Request. Indicated by Card Identification Code P to show that a Supply Support Request received by the IMM from an ICP is the origin of the request when the item is in an FSC class subject to IMC.	2,6
Qualitative Value. The portion of a reply that expresses quality such as color, shape, material, condition, etc.	3
Quantitative Value. The portion of a reply which expresses a numeric value for such characteristics as dimensions, measure, magnitude, electrical rating, etc.	3
Quantity Unit Pack (QUP). See DRN 6106, volume 12.	6,15
Rail Variation Code. See DRN 4760, volume 12.	1,2,6,15
Reactivation Coding. Application of the approved IMC criteria by the ICPs to inactivated NSNs for which a IMM was the last manager, and the ICP is not currently recorded as a user.	6
Receiver Code. See DRN 2534, volume 12.	

	Volume(s)
Record Separator. The symbol used to indicate the completion of a characteristic reply or to indicate end of record.	16
<i>Reference Drawing. Reference Drawing Groups (RDG) appear in Appendix B of the Federal Item Identification Guide (FIIG). The drawings will be isometric when possible, and will be configured with dimensional requirements necessary to describe basic item features.</i>	
Reference Method of Item Identification (RM). The reference method of item identification establishes and delimits the concept of an item of supply by reference(s) to the item-identifying number(s) of one or more manufacturers denoting the item or items of production included under the concept. Thus, under the reference method the essential characteristics of the item of supply are not delineated in the item identification but are ascertainable by research of the data represented by the manufacturers item-identifying number(s).	2,4,6,14
Reference Number. A reference number is any number, other than an activity stock number, used to identify an item of production or, either by itself or in conjunction with other reference numbers, to identify an item of supply. Reference numbers include manufacturers part, drawing, model, type, source-controlling, or specification-controlling numbers and the manufacturers trade name, when the manufacturer identifies the item by trade name only; NATO Stock Numbers; specification or standard part, drawing, or type numbers. The submittal of all known reference numbers related to an item of production or an item of supply, with the applicable Reference Number Category Code, the applicable Document Availability Code, and the applicable Reference Number Variation Code, is mandatory.	2.4.5,14.15
Reference Number Action Activity Code (RNAAC). See DRN 2900, chapter 12.2.	1,4
Reference Number Category Code (RNCC). See DRN 2910, chapter 12.2.	2,4.5,6,15
Reference Number Category Code Combination. Consists of the Reference Number Category Code (RNCC), Reference Number Variation Code (RNVC), and Document Availability Code (DAC) as expressed in volume 10, table 8.	
Reference Number Format Code (RNFC). See DRN 2920, chapter 12.2.	4,5
Reference Number Justification Code (RNJC). See DRN 2750, chapter 12.2.	1,4
Reference Number Status Code (RNSC). See DRN 2923, chapter 12.2.	
Reference Number Variation Code (RNVC). See DRN 4780, chapter 12.2.	2,4,5,15
Reference/Partial Descriptive Method Reason Code (RPDMRC). See DRN 4765, chapter 12.2.	1,2,4
Reinstated Federal Item Identification. A Federal item identification which has been cancelled but which has subsequently been reauthorized for use to identify an item of supply.	4,6

Volume(s)

Remote Output Format Code. See DRN 0841, chapter 12.2.	16
Reparability Code - Coast Guard. See DRN 0709, chapter 12.2.	1
Reply. A reply (data item) is the answer to a specific requirement.	3,4
Reply Code. A code that represents an established reply to an approved requirement.	3,4
Reply Table. A listing of replies (data items) applicable to a requirement or group of requirements derived from a single data element. Each reply in the table is assigned a different reply code.	3,4
Report Control Symbol (RCS). Set of letters and numbers which identifies an approved report and authorizes its initiation and preparation.	2,14
Reports Generator. Designed to produce one-time listings or reports from the FLIS files.	1,5
Requirement. A definition of a required characteristic.	3,4
Requirement, Lead-In. A general requirement identifying and providing guidance for reply to a specific range of following requirements. A lead-in requirement is never assigned a MRC, nor does it ever require a reply.	3
Requirement, Major. A requirement which, in addition to requiring a reply, may necessitate replies to succeeding subordinate requirements (subrequirements) dependent upon the specific reply given to the major requirement (see definition of Requirement, Lead-In and Requirement, Subordinate).	3
Requirement, Subordinate. A requirement for which the reply is dependent on a lead-in requirement or major requirement (also termed "subrequirement").	3
Retail Manager (RM). A materiel manager or another designated activity within a Military Service/Agency having retail responsibility for an item of supply where the wholesale materiel management functions are performed by a IMM, including DNA, NSA, and TACOM.	6
Retroactive Coding. Scheduled application of the approved IMC criteria by the ICPs to item(s) in FSC classes designated as commodity oriented which were previously coded for Service retention.	6
Return Coding. A request to effect the return of an item currently coded for Integrated Materiel Management to Service management by the application of IMC criteria.	6
Routine Reclassification Action. Indicated by Card Identification Code F to show that DLSC has reclassified an item from a weapons system oriented to a commodity oriented FSC class and IMC criteria must be applied.	6

	Volume(s)
Routing Identifier Code (RIC). A group of letters or numbers assigned to indicate the geographic location of a station, a fixed headquarters of a command, activity, or unit at a geographic location, and the general location of a tape relay or tributary station to facilitate the routing of traffic over the tape relay networks.	1,2,6
Secondary Address Code (SAC). See DRN 8990, chapter 12.2.	1,3,4
Secondary Address Indicator Code (SAIC). See DRN 9485, chapter 12.2.	3
Secondary Inventory Control Activity (SICA). See DRN 2938, chapter 12.2.	1,2,6,13,14
Service/Agency Designator Code (SADC). See DRN 4672, chapter 12.2.	2,4,15
Service Item Control Center (SICC). An activity which: (1) serves as a Military Service focal point for resolution of support problems for required weapons systems oriented consumable items managed by another Military Service; (2) performs such residual technical functions as configuration control, item qualitative acceptability, allowance list preparation, and maintenance of internal program support responsibility; and (3) provides assistance to the IMM, as necessary, to support requiring Service users on a timely basis.	2,6,13,14
Shelf Life Code (SLC). See DRN 2943, chapter 12.2.	6,15
Simplified File Maintenance (SFM). FLIS output consisting of a monthly maintenance update, a cumulative monthly basic record, and semiannual basic replacement record for activity files shall be provided for Federal Item Identification Data and Catalog Management Data. It shall be distributed in NIIN sequence to authorized subscribing activities on magnetic tapes via mail. Data furnished from two or more functional areas shall be sequenced together.	1,2
Single Quality Items. Items (such as nuclear ordnance test and handling equipment) authorized for use on or with both war-reserve and training nuclear weapons.	4
Single Submitting Activity. See DRN 9255, chapter 12.2.	2,4
Source Controlled Federal Item Identification. A type 1, 1B, 2, 4, or 4B Federal item identification (original, revised, transferred, or reinstated) representing one or more specific manufacturer's items of production certified by an end item manufacturer, or by a Government activity, to be the only known items suitable for the specific application.	4
Source of Supply Code (SOS). See DRN 3690, chapter 12.2.	4,5,6,14,15
Source of Supply Modifier Code (SOSM). See DRN 2948, chapter 12.2.	6

Volume(s)

- Specially Designed Item.** The term “specially designed item” is an abbreviation of the term “specifically designed for specific use on or with specific individual types of equipment” as used in the notes in Cataloging Handbooks H2-1 and H2-2. In order to be accepted as specially designed, an item does not have to be designed specifically for use on a single piece or single model of equipment; the item may be designed for use with categories of equipment, such as all kinds of printing presses, all kinds of diesel engines. 4
- Special Packaging Requirement.** See DRN 0725, volume 12.
- Standard Requirement.** A lengthy requirement which, because it is used repeatedly in many patterns, has been put in standardized form. 4
- Standard Test Data Base (STDB).** Maintained at DLSC with data input by Services/Agencies participating in the interface test program. 1
- Statistical Indicator Code.** See DRN 3708, volume 12.
- Submitted Package Sequence Number (SPSN).** See DRN 8328, volume 12.
- Submitter Code.** See DRN 2535, volume 12.
- Submitting Activity.** Any participating activity which submits proposed catalog data directly to DLSC for approval. The submitting activity may be the activity which originates the catalog data or an intermediate monitoring activity (e.g., Defense Supply Center; Defense Nuclear Agency) through which the originating activity is required to submit its proposals to DLSC. 1,2,3,4, 5,6,7
- Submitting Activity Code.** See DRN 3720, volume 12. 1,4,5,15
- Supply Management Data.** Item data which do not affect NSN assignment but are necessary to support logistics functions. 3,6
- Supply Support and Cataloging Action Request.** Indicated by Card Identification Code V to show that an SSR other than provisioning received by the IMM from an ICP is the origin of the request when the item is in an FSC class subject to IMC. 6
- Supply Support Request (SSR).** A request submitted by the activity responsible for supporting an end item being provisioned to a Integrated Materiel Manager which manages some of the support items or is a potential manager of some new support items used in the end item. 2,6
- Suspense File.** The portion of the process control sector (SSR) which will serve as a temporary repository of unique information of functional value to the Service/Agency for the implementation of a logistics data transaction within DLSC. 1,4,5
- System Change Request (SCR).** A formal request for modification of the FLIS. The SCR will be assigned one of the following priorities. 1,6,15

a. Routine - an SCR requiring at least 45 calendar days for Service/Agency coordination and distribution of the system change by DLSC a minimum of 180 days prior to implementation.

b. Expedite - an SCR requiring at least 45 calendar days for Service/Agency coordination and distribution of the system change by DLSC a minimum of 90 days prior to implementation.

c. Emergency - an SCR required to maintain the operational status of FLIS.

System Control Number (SCN). See DRN 3735, volume 12. 4,6

System Support Record (SSR). The segment of the FLIS data bank containing the sum total of information (guides, program subroutines, tables, rules, controls, statistics, codes, terms) required to support or specify the content and utilization of the FLIS data base. The SSR is comprised of the following files: Organizational Entity, Item Name, FSC, FIIG/DP/Guide, Table Look-Up, Graphics, Process Control, Mass Changes to FLIS data base, Mass Data Retrieval, and Tailored Data Interrogations. 1,2,5,6,7, 13,14,15

Technical Feasibility. The determination of whether the development of a data system change is possible within the limits of available technology. 1

Training Quality Items. Items designated for use on or with training nuclear weapons or on nuclear ordnance test and handling equipment but not authorized for use on war-reserve nuclear weapons. 4

Type of Cargo Code. See DRN 9260, volume 12. 1,2,15

Type of Financial Management Control. See DRN 0729, volume 12.

Uniform Freight Classification Code (UFC). See DRN 3040, volume 12. 1,2,6,15

Unit of Issue (U/I). See DRN 3050, volume 12. 2,6,14,15

Unit of Issue Conversion Factor. See DRN 3053, volume 12. 6

Unprocessable Transaction. Transactions which did not contain the minimum essential control elements required for processing. These transactions are not queued for further processing and are not retained in the FLIS files. 1,2,4,6

Using Service Code. See DRN 0745, volume 12.

Voluntary Standard. A product standard developed under procedures published by the Department of Commerce. Its adoption by a particular industry, company, or organization is voluntary. It is used as a standard for the procurement and production of a product. 6

War-Reserve Quality Items. Items authorized for use on or with war-reserve nuclear weapons but not designated for use on training nuclear weapons or test and handling equipment. 4

Volume(s)

Water Commodity Code. See DRN 9275, volume 12.

1,2,15

Withdraw. The word "withdraw" in these procedures refers specifically to activity action to remove existing data from DLSC files.

2,6

DEVELOPMENT AND MAINTENANCE
OF ITEM LOGISTICS DATA TOOLS

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CHAPTER 4 THE FEDERAL SUPPLY CLASSIFICATION SYSTEM

3.4.1 Purpose. This chapter will describe the structure and organization of the Federal Supply Classification System and the procedures for its modification. *This chapter also provides procedural guidance covering the management, control, and maintenance of the Federal Supply Classification System with objectives to:*

a. Control the Federal Supply Class (FSC) structure in such a manner as to insure its compatibility with the requirements of the total FLIS.

b. Provide for the resolution of any differences of opinion with regard to proposed changes in the FSC structure.

c. Provide for the orderly evolution of the FSC structure, as necessary, to satisfy operational requirements of the participating activities.

d. Insure uniform application of the rules and principles embodied in the Federal Supply System.

e. Provide equitable solutions to any controversial problems arising in the area of property classification assignment.

3.4.2 Use. The Federal Supply Classification System is sufficiently comprehensive to permit the classification of all items used by participating activities. A FSC is selected for every item of supply and forms the first four digits of the National Stock Number (NSN). *The Federal Supply Classification system, with its structure of groups and classes, represents those groupings and relationships which are based on current as well as anticipated management needs. As these needs change, the structure is modified by the addition of newly developed groups and classes, the subdivision of existing classes, and the revision of definitions for classes.*

3.4.3 Structure. The Federal Supply Classifica-

tion System is composed of commodity classes organized within broad groups. The system permits a total of 99 Federal Supply Groups (FSGs), each of which may be subdivided *into FSCs*. The classes within any group are considered to be closely related. Each class covers a relatively homogenous area of commodities with respect to their physical or performance characteristics, their relationship to a next higher assembly, or because they are usually procured or issued together.

a. Code Numbering system. Each class of items is assigned a four digit code. The first two digits represent the FSG and the last two digits specify the class within each group.

b. Expansion of the present number of groups and classes has been provided for by the gaps in sequence left between the code numbers assigned to groups and within groups to adjacent classes. Such expansions may be required by technological advances or by the need for other desirable additions and changes.

c. *For many classes the phrase "and components" is shown as a part of the class title, indicating that assemblies, subassemblies, and component parts which are specially designed for items in the class are to be included. In those instances where the phrase "and components" does not appear as part of the class title, the inclusion of assemblies, subassemblies, and component parts specially designed for the end items in the class is to be understood, unless otherwise provided for in the classification structure. (For Example, Group 25 Vehicular Equipment Components was established for items which otherwise might have been classified in Group 23, Ground Effect Vehicles, Trailer, and Cycles.)*

d. Condition Codes. A single digit indicating the type of classification for an item in the Numeric

Index of the Cataloging Handbook H2-2 and the Alphabetic and Numeric Indexes of the Cataloging Handbook H6.

(1) Condition Code (1). The Approved Item Name (AIN) which may be classified in one and only one specific FSC.

(2) Condition Code (2). The AIN which may be classified in two or more FSCs, as specifically indicated.

e. Explanation of Condition Code (2). The Condition Code is included with the AINs in the Cataloging Handbooks H2-2 and H6. Those AINs with Condition Code 2 specifically are entered in the Cataloging Handbook H6 with the FSC and the class modifier which applies. Example of proper application of condition codes are as follows:

Example 1. The AIN "TAPE, SOUND, RECORDING" is classified only in FSCs 5835 and 7450. The two specific H6 entries for this AIN both include Condition Code (2) following the class modifiers ("except office type" for FSC 5835, and "office type" for FSC 7450). However, the mandatory classification for each category of sound-recording tape is indicated in the "Class" column on the right-hand side of that particular entry in the Handbook. That is, office-type recording tape is classified *only* in FSC 7450, and all other types (applications) are classified without exception on FSC 5835.

Example 2. The AINs "CIRCUIT BREAKER" and "CIRCUIT BREAKER SUBASSEMBLY" are properly assigned to two different classes based on the voltage and type of current of the item being classified. This is indicated in the H-6 by a series of four entries derived from each AIN, such as "Circuit breakers, above 250 volts DC(2)--6110" and "Circuit breaker subassemblies, 250 volts DC and below (2)---5925". Condition Code

(2) does not imply that a given item with the voltage and current shown can be classified in two classes. The modifying phrase in each case governs the classification class and restricts the item of supply to one specific class.

3.4.4 General Principles and Rules

a. Unique Classification of Each Item of Supply. Each item of supply shall be classified in one, and only one, 4 digit FSC. The assignment of an FSC code number to an item of supply shall not be influenced by the method and type of item identification used to establish the concept of the item.

b. Classification of Parts Where a Specific Class Exists. Where a specific FSC is applicable to a particular part, that part shall be classified in the specific class and not with its next higher assembly, except as indicated below:

(1) A "Specially Designed Item" shall be classified with its next higher assembly in the class established for the higher assembly when, and only when, the FSC requires such classification. The term "higher assembly" is used for brevity of "next higher classifiable assembly" and is understood to mean the next higher assembly on or with which the item is used as a subassembly, part, attachment, or accessory. In order to be accepted as specifically designed, an item does not have to be designed specifically for use in a single piece or single model of equipment. The item may be designed for use with categories of equipment such as all kinds of printing presses or all kinds of diesel engines. The requirement that a "specially designed item" be classified with the equipment for which it is specially designed is indicated in the FSC by:

(a) A Note. A note at the head of the class or group in Cataloging Handbooks H2-1 or H2-2 directing that "specially designed item" are to be

classified with their next higher assemblies. The term "specially designed item" is an abbreviation of the term "specifically designed for specific use on or with specific individual types of equipment" as used in the notes in the Cataloging Handbooks H2-1 and H2-2.

(b) *A Modifier.* The modifier "multiapplication" added to the name of the item indexed in Cataloging Handbook H2-2 and H6, indicating that the specially designed items are to be classified with their next higher assemblies.

(c) *An Exclusion.* An exclusion to the class published in Cataloging Handbook H2-1 indicating that the item is not to be classified therein.

(d) *An Exception.* A term of exception applied to an entry in Cataloging Handbook H2-2 or H6 excluding the item.

(2) When an item of supply has been classified as a "specially designed item" with its next higher classifiable assembly, the FSC class code number originally assigned shall not be changed to that of a multiapplication class until evidence becomes available that the item does have multiple applications.

c. *Classification of Parts Where No Specific Class Exists.* Where no specific FSC is applicable to a particular part, that part shall be classified with its next higher classifiable assembly in the class established therefor.

d. *Classification of Parts Having Multiple Applications.* The FSC for an item which is to be classified with its next higher assembly but which is used on or with different assemblies classified in two or more classes of the FSC, shall be assigned in accordance with the following:

(1) When a variety of applications to assem-

blies classified in different classes is known to exist at the time the subassembly, part, attachment, or accessory is initially classified, the FSC code number assigned shall be that which will be most useful in supply management, selected on the basis of:

(a) The most significant application of the item.

(b) The code number least likely to be obsolete.

(c) The greatest number of application of the item.

(2) When a code number is assigned to a multiple application item after a consideration of the known applications and the application(s) within the class assigned become obsolete, a new class code number shall be selected in accordance with subparagraph 3.4.4.d(1).

(3) When a subassembly, part, attachment, or accessory is assigned an FSC on the basis of its relationship to a higher assembly, and it is later discovered that the item is used on additional assemblies which are not in the same class as the assembly initially considered, the FSC originally assigned shall be used for all other applications of the item.

c. *Auxiliary Subdivisions of Federal Supply Classification Classes.* Where greater commodity classification detail required by a participating service or activity than is provided for in the basic 4-digit FSC structure, auxiliary subdivisions of classes (commonly referred to as "Auxiliary Classifications" or "Subclasses") may become necessary. These Auxiliary subdivisions of classes may be developed by the participants for their own use. If a universal requirement is found to exist for a particular auxiliary subdivision, consideration will be given to the establishment of additional FSC

classes corresponding to the auxiliary subdivision. When used in conjunction with the NSN, any auxiliary subdivision of a class found necessary by a participant shall be signified by augmentation of the NSN and not by change to the 4-digit FSC. In no event shall any of the 13 digits of the NSN be changed or digits or other symbols be inserted within the 13-digit structure.

f. Classification of Sets, Kits and Outfits. The following rules shall govern the classification of Sets, Kits, and Outfits:

(1) Sets, Kits and Outfits consisting of variations (such as size or color) of an item shall be classified in the same class as the individual items.

(2) Sets, Kits and Outfits consisting of several different items classifiable either in a single class or in several classes of the same group, or in classes of more than one group, shall be classified in the "Sets, Kits, and Outfits" class of the group which logically covers the application or functions purpose for which the set, kit, or outfit was assembled.

(3) If no "Sets, Kits, or Outfits" class is established in the appropriate group which covers the application or functional purpose of the set, kit or outfit, then the set, kit or outfit shall be classified in the single class of the appropriate group which logically covers the application or functional purpose for which the set, kit, or outfit was assembled.

(4) If the appropriate 4-digit FSC cannot be determined by the application of the above rules, the set, kit or outfit shall be assigned to the class which is considered most useful for supply management.

(5) If no class is found to be appropriate under any of the above rules, the set, kit, or outfit

shall be classified in FSC class 9999, Miscellaneous Items.

3.4.5 Publications. The following handbooks assist users in establishing the appropriate FSC for each item of supply and help minimize inconsistency in the classification of identical items.

a. Cataloging Handbook H2, Federal Supply Classification, is divided into two parts:

(1) Part 1, Groups and Classes, presents the classification structure, showing all the groups and classes listed in the arrangement of the four digit FSC numbering system. Where appropriate, the main commodities included (or excluded) which delimit the coverage of a particular class are shown below the title for the class. In addition, specific notes may be inserted following specific group and class titles which define or delimit the coverage of a particular group or class.

(2) Part 2, Numeric Index of Classes, is arranged by class and lists in alphabetic sequence the names of items included within each class. *The index facilitates location of the FSCs in which an item shall be placed and location of a range of items in the classification.* In addition, the notes following group and class titles in Part 1 are incorporated in Part 2 following the corresponding group and class titles.

b. Cataloging Handbook H6, Federal Item Name Directory for Supply Cataloging, includes a reference to the FSC for each Approved Item Name.

3.4.6 Maintenance of the Federal Supply Classification System.

The Defense Logistics Agency (DLA) is responsible for the development and maintenance of the Government wide classification system. The DLA has delegated this function to the Defense Logistics

Services Center (DLSC). Authority for establishment of the classification is contained in Chapter 145, Title 10, U.S. Code and Section 487, Title 40, U.S. Code. Maintenance of the Federal Supply Classification System is divided into two categories: revision to the FSC structure and revisions to the FSC index.

a. Proposals for Revision to the FSC Structure.

(1) Revisions to the FSC structure are those, changes which constitute a significant revision to any of the present groups or classes, such as:

(a) The establishment of a new group or class.

(b) The deletion of an existing group or class.

(c) A revision to the delimitations of an existing group or class which results in a broader or narrower scope.

(d) A revision in a principle or rule for classification.

(2) Submission of Proposals. When applicable, proposals should include corresponding DD Form 180s showing modification to existing item names, and/or any new names which will be developed as a result of the changes.

(a) Submitters.

(1.) Participating Military Service activities and Defense Supply Centers submit proposals to the appropriate Headquarters Catalog Office.

(2.) Participating Civil Agencies other than the Veterans Administration submit proposals to the Federal Supply Service, General Services Administration (GSA).

(3.) The Veterans Administration submits

proposals directly to the Directorate of Logistics *information* Management, Defense Logistics Services Center (DLSC-S).

(4) All other activities submit proposals directly to the Directorate of Logistics *Information* Management, *DLSC-S*.

(b) Headquarters Catalog Office/Federal Supply Service, GSA:

(1.) Reviews proposals submitted by Military Service activities or Defense Supply Centers/Civil Agencies, conducts internal coordination, and develops unified proposals.

(2.) Submits unified proposals to the Directorate of Logistics *Information* Management, *DLSC-S*.

(3) Processing of Proposals.

(a) Responsibilities of the Directorate of Logistics *Information* Management, *DLSC-S*.

(1.) Performs non-technical review of the proposals and forwards, by certified mail, with comments as necessary to the following Headquarters Catalog Offices (whichever did not submit the proposal) for concurrence and/or comments:

Army
Navy
Air Force
Marine Corps
Defense Logistics Agency
General Services Administration
Veterans Administration

(2.) *Coordinates with the following agencies when proposals affect their area of interest:*

Defense Nuclear Agency
National Security Agency

Federal Aviation Agency
National Weather Service

(3.) Forwards proposals to NATO for simultaneous coordination with U.S. activities. NATO will have 60 days to reply.

(4.) Reviews comments on the proposals received from the Headquarters Catalog Offices and/or the Federal Supply Service and NATO. A written reply must be received from the HCOs and/or the Federal Supply Service. If a counterproposal is received, the coordination process will start over with a copy going to the submitting activity.

(5.) When a nonconcurrency is received:

(a.) Contacts by telephone the originating U.S. activity with the name and telephone number of the nonconcurring activity.

(b.) Allows 5 workdays for resolution of differences.

(c.) Resolves disagreements and negotiates coordinated proposals.

(6.) Submits proposals to *Hq DLA (MMSLP/LI)* for resolution, if Directorate of Logistics *Information Management, DLSC-S* is unable to obtain resolution.

(7.) Rejects or revises proposals as necessary to obtain concurrence, as a result of recommendations made by *Hq DLA-(MMSLP/LI)* resolution efforts.

(8.) Notifies Headquarters Catalog Offices, DLA, Veteran Administration, the Federal Supply Service, GSA, and NATO of approved new FSCs or revisions.

(9.) Incorporates the approved new FSCs

or revisions into the Cataloging Handbooks H2 and H6.

(10.) Notifies managing activities responsible for revision of FLIS data base six months prior to changing the FLIS System.

(11.) Issues Letters for C/F Distribution to maintain the Federal Supply Classification in accordance with the requirements stated in the H2-1. These letters are distributed in limited number only to users of the classification engaged in identifying and classifying items of supply in accordance with the criteria established in *this manual. These letters promulgate the changes made after the proposed changes have been coordinated and approved. A completely revised Cataloging Handbook H2-1 (Part 1 of The Federal Supply Classification) is issued as required.*

(b) Responsibilities of the Headquarters Catalog Office:

(1.) Performs technical review of proposals forwarded by the Directorate of Logistics *Information Management, DLSC-S*, and contacts Military Service activities and Defense Supply Centers, as necessary.

(2.) Forwards concurrence and/or comments on proposals to the Directorate of Logistics *Information Management, DLSC-S*, within 45 days.

(3.) Informs Military Service activities and *DLA Centers* as necessary, after DLSC approval.

(c) Responsibilities of the Federal Supply Service, GSA:

(1.) Performs technical review of proposals forwarded by the Directorate of Logistics *Information Management, DLSC-S*, contacting Civil Agencies, as necessary.

(2.) Forwards concurrence and/or comments on proposals to the Directorate of Logistics *Information Management, DLSC-S*, within 45 days.

(3.) Informs Civil Agencies, as necessary, after DLSC approval.

(d) Responsibilities of the Veterans Administration:

(1.) Performs technical review of proposals forwarded by the Directorate of Logistics *Information Management, DLSC-S*.

(2.) Forwards concurrence and/or comments on proposals to the Directorate of Logistics *Information Management, DLSC-S* within 45 days.

(e) Responsibilities of Headquarters DLA.

(1.) Performs technical review of proposals forwarded by the Directorate of Logistics *Information Management, DLSC-S*.

(2.) Forwards concurrence and/or comments on proposals to the Directorate of Logistics *Information Management, DLSC-S* within 45 days.

(3.) Takes further appropriate action to obtain resolution. If reasonable efforts are not successful, makes final decision in the best interests of the majority of the *S/As* and the overall *FLIS*.

(4.) Notifies the Directorate of Logistics *Information Management, DLSC-S* of the results and provides appropriate disposition instructions.

b. Proposals for Revision to the FSC Indexes.

(1) Revisions to the FSC indexes are those changes which affect the individual classification of specific items of supply. (See Volume 4, Chapter 2). These revisions are brought about by conditions such as:

(a) The addition of a new item name.

(b) A revised interpretation of an existing item name.

(c) A revision of an item name which substantially changes the concept of the item.

(d) A revision of the definition of an item name which substantially changes the concept of the item.

(e) A new design for an item of supply.

(f) A determination of the desirability of a revised classification for an item of supply, within the delimitations of the present FSC structure.

(g) Improper initial classification of an item name.

(h) Change to a condition code.

(2) Submission of Proposals. All proposals for revision to the FSC indexes (except those associated with a proposed revision to the FSC structure) are submitted to the Directorate of Logistics *Information Management, DLSC-S*. (See Appendix 3-4-A thru B.) The submissions will contain the following information:

(a) Specific revision, reclassification, and/or addition requested.

(b) Justification for the action proposed.

(c) National Stock Numbers, if available, for items for which the proposed action is sought.

(3) Processing of Proposals.

(a) Directorate of Logistics *Information*

Management, DLSC-S, reviews proposals within five working days and:

(1.) Accepts those which are adequately justified as to the need and desirability for the proposed actions.

(2.) Returns those which require a structure change to the FSC or are incompatible with the *Federal Supply Classification* system as established.

(3.) Collaborates change of an *AIN* from one FSC to another with interested activities as shown by the Major Organizational Entity (MOE) Rules on NSNs presently in the FLIS data base for this item name.

(4.) After approval and prior to implementation, ensures that necessary coordination has been accomplished between gaining and losing activities when the change includes a transfer of item management responsibility. (See Volume 13 for FSC, MOE Rules, and Management Exception Rule Notes as applicable.)

(5.) Incorporates accepted revisions, reclassifications, and/or additions in supplements to the FSC indexes.

(6.) Notifies the submitter of the approval or rejection of the proposal. Notification of rejection will include the reasons for disapproval.

(b.) Submitters may resubmit a rejected proposal in accordance with paragraph 3.4.6.a above, if the proposal was returned because a change to the FSC Structure was involved.

3.4.7 International Use of the Federal Supply Classification System.

a. NATO Use. In February 1956, the Air Board, Military Agency for Standardization, NATO, con-

vened a Working Party in London which prepared and recommended the adoption of the second draft standardization agreement STANAG 3150. This agreement provided for the adoption of the United States Federal Supply Classification system as the NATO Supply Classification System, with the United States having responsibility for maintenance of the system, including right of decision on all matters pertaining thereto. This agreement was subsequently ratified by fourteen NATO members, including the United States.

b. Revision to the Classification Structure Under STANAG 3150.

(1) Revisions Proposed by the United States. Revisions to the classification structure which are proposed by the United States shall be forwarded to the NATO member nations prior to approval. A period of 60 days is provided for concurrence and/or comment by individual NATO countries. Upon completion of this coordination, the following actions shall be taken, as appropriate.

(a) The United States (DLA/DLSC) approves the revision, specifying the implementation dates, if complete or majority concurrences are received.

(b) The United States considers and incorporates, if acceptable, modifications to proposed revisions, as submitted by the NATO countries.

(c) The United States resolves any conflicts of opinion if a majority of nonconcurrences, or major proposals for modifications of proposed revisions, are submitted by the NATO countries.

NOTE: Revisions which are proposed by a NATO member nation other than the United States are decided by the United States within a 30-day period, following the 60-day period provided for NATO concurrence actions. Notice of the final disposition

of all proposed revisions to the classification system is forwarded by the United States to all NATO countries, stating, as appropriate, the reasons for nonacceptance of comments.

(2) Revisions Proposed by NATO Member Nations. Revisions to the classification structure proposed by any one of the NATO member nations, are forwarded to all signatories of STANAG 3150 by the originating country. Concurrence and/or comment is forwarded by other signatories to the originating country and to the United States within a period of 60 days. Approved revisions are implemented on the effective date specified in the notification of approval forwarded to all signatories by the United States.

CHAPTER 5 DEPARTMENT OF DEFENSE AMMUNITION CODES

3.5.1 Purpose. This chapter will describe the Department of Defense Ammunition Code (DoDAC) and the procedures for its development. The DoDAC system provides uniform, centrally assigned code numbers for generic descriptions applicable to items of supply identified under the *FLIS* in *FSGs* 13 (Ammunition and Explosives) and 14 (Guided Missiles).

3.5.2 Structure. The DoDAC is a nine-position, semi-significant number consisting of the four-position FSC number, a hyphen, and a four-position code (DoDIC) assigned to each generic description within the FSC. The last four characters may be one alpha followed by three numerics (e.g., D548) or two alphas followed by two numerics (e.g., PA38).

3.5.3 Development. DoDACs are centrally assigned by DLSC to generic descriptions submitted by using activities. Each description consists of an *AIN*, appropriate FSC, and the common characteristics of items in *FSG* 13 or 14 which are functionally interchangeable and therefore treated collectively in normal supply operations. A code number initially assigned to a generic description covering a

single item will be used subsequently to cover variations or improvements that are functionally interchangeable with the original item.

3.5.4 Submittal. A request for the additions, revisions, cancellations, and reinstatements of a DoDAC must include the *AIN*, *FIIG*, *FSC*, generic description, and justification.

a. Additions, cancellations, and changes to DoDACs shall be submitted to the Commander, Defense Logistics Services Center, ATTN: DLSC-SC, Federal Center, Battle Creek, MI 49107-3084.

b. Requests for new DoDACs may be submitted to DLSC, DSN 932-4670, Commercial Area Code (616) 961-4670, or FTS 552-4670. DoDACs will be confirmed by DLSC.

3.5.5 Publication. DoDACs are published within the FED LOG CD Rom System which is available for monthly updates. The Cataloging Handbook H3, the microfiche publication is no longer published.

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DEFENSE LOGISTICS AGENCY
 DEFENSE LOGISTICS SERVICES CENTER
 74 WASHINGTON AVE N
 BATTLE CREEK MI 49017-3084



CHANGE NO. 4
 DoD 4100.39-M

CH 4
 DoD 4100.39-M
 Volume 3

DLSC-VPH
 1 January 1996

FEDERAL LOGISTICS INFORMATION SYSTEM (FLIS) PROCEDURES MANUAL

I. Volume 3, DoD 4100.39-M, 1 January 1995, change as follows: Remove pages listed below and insert revised pages. Additions and changes are indicated by *bold-face italic* type. Deletions are indicated in the Significant Changes paragraph below.

	<u>REMOVE OLD</u>	<u>INSERT NEW</u>
Glossary	iii and iv, xiii thru xvi	iii and iv, xiii thru xvi
Chapter 2	3.2-9 and 3.2-10, 3.2-13 thru 3.2-17	3.2-9 and 3.2-10, 3.2-13 thru 3.2-17
Chapter 3	3.3-3 thru 3.3-12	3.3-3 thru 3.3-12
Appendix 3-3-B	69 thru 72	69 thru 72
Appendix 3-3-D	1 and 2	1 and 2
Chapter 4	3.4-1 and 3.4-2	3.4-1 and 3.4-2

II. SIGNIFICANT CHANGES

A. The page changes are effective upon receipt.

B. Significant changes for the entire manual this quarter and the applicable change number for each affected volume are listed on the change sheet for volume 1.

BY ORDER OF THE DIRECTOR:

RANDALL B. HAGLUND
 Colonel, USMC
 Commander
 Defense Logistics Services Center

DLSC - The Key to Readiness

Errata

CH 4
DoD 4100.39-M
Volume 3

III. This change sheet will be filed in front of Volume 3 for reference purposes after changes have been made.

DISTRIBUTION: Defense Logistics Agency: 41, 42

Army: To be distributed in accordance with Special Distribution List.

Navy: To be distributed in accordance with Special Distribution List maintained at NPFC.

Stocked:
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5801 Tabor Avenue
Philadelphia, PA 19120

Air Force: Distribution "X"

GLOSSARY
PART I - ACRONYMS

		Volume(s)			Volume(s)
AAC	Acquisition Advice Code	6,14,15	ANSI	American National Standards Institute, Inc.	2,3,7
ACN	Advance Change Notice, FLIS	1,2	APSN	Association Package Sequence Number	
ADC	Air Dimension Code	15	AQL	Acceptable Quality Level	2,14
ADP	Automatic Data Processing	1,3,4,7	AR	Army Regulation	2,6,13
ADPEC	Automatic Data Processing Equipment Identification Code	6,15	ARC	Accounting Requirements Code	15
ADPP	Automatic Data Processing Point	15	ASCII	American National Standard Code for Information Interchange	2
ADPS	Automatic Data Processing System	1	ASD	Assistant Secretary of Defense	
AEDA	Ammunition Explosive, and Other Dangerous Articles	10	ASPR	Armed Services Procurement Regulation	7
AFFC	Air Force Fund Code		CAC	Civil Agency Catalog	15
AFLC	Air Force Logistics Command	6,13	CAGE	Commercial and Government Entity Code	1,2,4,5, 6,7,14,15
AFM	Air Force Manual	6,13	CAO	Contract Administration Office	1,15
AIN	Approved Item Name	3,4,6	CB	Change Bulletin	15
AINRP	Approved Item Name Reclassification Program	6	CCAL	Certified Contractor Access List	15
AMC	Acquisition Method Code	6,14	CDA	Catalog Data Activity	6
AMSC	Acquisition Method Suffix Code	6,14			

		Volume(s)			Volume(s)
CIC	Card Identification Code, Item Management Coding Content Indicator Code	4,6,14	DEMIL	Demilitarization	4,15
	Continuation Indicator Code	2	DESC	Defense Electronics Supply Center	2,14
		2	DFSC	Defense Fuel Supply Center	2,14
CIMM	Commodity Integrated Materiel Manager	1,2,5, 6,13,14	DGSC	Defense General Supply Center	2,14
CIT	Consumable Item Transfer	6	DHCO	Departmental Headquarters Catalog Office	2,14
CMD	Catalog Management Data	1,2,4,5, 6,7,14,15	DIA	Defense Intelligence Agency	13
COM-RI	Communications Routing Identifier	2,6	DIC	Document Identifier Code	1,2,4,6,7, 13,14,15
CSS	Cataloging Statistical Series	2,14	DIPEC	Defense Industrial Plant Equipment Center	1,2,6,7,13
DA	Description Available	15	DISC	Defense Industrial Supply Center	2,14
DAAS	Defense Automatic Addressing System	1,2,6	DLA	Defense Logistics Agency	1,2,4,5,6, 13,14,15
DAASO	Defense Automatic Addressing System Office	1,2,4, 5,6,14	DLAH	Defense Logistics Agency Handbook	
DAC	Document Availability Code	4	DLAR	Defense Logistics Agency Regulation	6,13
DCN	Document Control Number	1,4	DLSC	Defense Logistics Services Center	All
DCSC	Defense Construction Supply Center	2,14	DM	Descriptive Method (Item Identification)	2,14
DCSN	Document Control Serial Number	6	DNA	Defense Nuclear Agency	2,4,6,13,14
DD Form	Department of Defense Form	1,2,3, 4,5,7,15	DNACA	Defense Nuclear Agency Cataloging Activity	4

Volume(s)

- Category B Single Submitter.** Where management and cataloging responsibility is established on a by item basis within a given FSC class, the IMM is the sole submitter of proposed catalog data changes against existing item identifications representing items of supply under the management cognizance of that activity. This includes add, delete, or change MOE Rule data; changes in item status codes; add or delete references, etc.; but excludes original and reinstatement item identifications and proposed new or revised cataloging tools. 2
- Central Catalog File.** See FLIS Data Bank. 2,4
- Change Bulletin.** Publications issued following a basic edition for updating purposes. The data content is cumulative. Change bulletin is synonymous with the terms "advance notice" and "supplement". 15
- Change Coding.** The method of changing data elements previously furnished as a result of IMC. Excluded are changes from Service management to Integrated Materiel Management or vice versa. Such latter changes shall be accomplished under initial, maintenance, retroactive, or return coding as appropriate. 6
- Change Indicator.** See DRN 0122, volume 12.
- Characteristics Reply.** The total reply to a FIIG requirement in MILSTICCS format. It consists of the primary address code and may consist of a secondary indicator code, along with a secondary address code (if *applicable*), or it may consist of a double dollar symbol (\$\$) to identify the AND condition or a single dollar symbol (\$) to identify the OR condition. These symbols will be used to chain materials and the like which do not govern other requirements. Also included is the mode code and the item characteristics (either clear text or coded or a combination of the two as specified in the FIIG) followed by the record separator symbol. 3,4
- Characteristics Search.** An interrogation of the FLIS data base to locate existing items of supply. The input contains specific item characteristics. Criteria is applied in the processing to select items which are similar or may be substituted for another item of supply. Items may or may not meet the requirements of interchangeability or substitutability. Characteristic Search is used primarily for standardization studies, item reduction studies, design improvements or to find substitutes for a primary item.
- CIMM Assignment on a By-Item Basis.** For items of supply classified in those FSC classes included in the CIMM assignment but the management assignment for each individual item of supply is determined on a by-item management coding basis. 1,2,6

	Volume(s)
Codification Project Code. A two-character alphabetic code assigned by the Defense Logistics Services Center (DLSC) to identify catalog data related to a codification project for NATO or other foreign countries.	4
Collaborating Activity. An activity designated by a Military Service or participating agency to review proposed item logistics changes.	2,4
Collaborator Code. See DRN 2533, volume 12.	2,13
Commercial and Government Entity Code (CAGE). Any reference number entered into the Federal Catalog System will have a CAGE Code assigned to it prior to entering the central catalog file. The CAGE Code is a five character data element assigned to establishments which are manufacturers or have design control of items of supply procured by the Federal Government. The first and last positions of a CAGE Code will be numeric. Under certain conditions revision actions shall be initiated by DLSC: When a CAGE Code is cancelled and replaced by a code assigned to a single manufacturer; or when DLSC cannot determine, without collaboration, which items formerly manufactured by a defunct organization are now manufactured by the acquiring organization(s).	
Where the applicable CAGE Code cannot be determined under the conditions cited above, recorded cataloging activities shall initiate appropriate action to update the central catalog file. DLSC will not cancel a CAGE Code until all numbers of that manufacturer have been withdrawn.	
Commodity Integrated Materiel Manager (CIMM). The activity/agency designated to exercise integrated materiel management for a commodity oriented Federal Supply Classification group/class, commodity, or item on a DoD and/or Civil Agency basis.	1,2,5,6, 13,14
Commodity Materiel Management Category Code - DoD. See DRN 2611, volume 12.	
Compiler. A term used to denote the activity responsible for the preparation and maintenance of a catalog.	
Concept Change. A concept change is determined to exist when the identification characteristics expressed by the proposed revision of a Federal item identification differ in content from those expressed by the Federal item identification, and both item identifications represent possible items of supply.	4

Volume(s)

Condition Codes. A condition code is assigned to Approved Item Names to indicate whether the name may be classified in single or multiple FSC(s) as follows:

Code 1 - The AIN may be classified in only one specific FSC.

Code 2 - The AIN may be classified in two or more specific classes of the FSC structure.

Consumable Item Transfer (CIT). A special project transferring consumable items now managed by military services to DLA or GSA. 6

Content Indicator Code. The Content Indicator Code (CIC) consists of four alphabetic characters which appear in positions 5 through 8 of an Automatic Digital Network (AUTODIN) message header and End of Transmission (EOT). It is designed primarily for use by the receiving communications terminal as an aid in determining distribution of data messages. All catalog data being transmitted requires a CIC. 2

Continuation Indicator Code (CIC). See DRN 8555, volume 12. 1,4

Contract Administration Office Code (CAO). See DRN 8870, volume 12. 1,15

Controlled Inventory Item Code (CIIC). See DRN 2863, Volume 12. 15

Conversion. The transformation of a value to an equal or equivalent value in a different term or scale. 3

Coordinating Activity. An activity having the responsibility for inter-Service/Agency coordination.

Criticality Code. See DRN 3843, volume 12. 1,4,5,15

Data Chain. A name given to the use of two or more logically related data elements. For example, the data chain Document Control Number (DRN 1015) is composed of data elements: Originating Activity Code (DRN 4210), Submitting Activity Code (DRN 3720), Date Transaction (DRN 2310), and Document Control Serial Number (DRN 1000). 4,5

Data Changes. All transfers between the descriptive method and the reference method; all reference number changes, item status code changes, withdraw or add owner actions, and cancellations regardless of type of item identification; and item (or part) name and FSC changes for type 2 item identifications. 2,4,6

	Volume(s)
Data Code. A number, letter, character, symbol, or any combination thereof used to represent a data item. For example, the data codes JV, KX, and XB represent the data items: Strategic Systems Project Office; Defense Personnel Support Center; and Field Command, Defense Nuclear Agency, respectively, under the data element: Submitting Activity Code (DRN 3720).	1
Data Element. A grouping of informational units which has a unique meaning and sub-units (data items) of distinct value. Examples of data elements in FLIS are State/U.S. Possession Abbreviation (DRN 0186), Submitting Activity Code (DRN 3720), and DoD Activity Address Code (DRN 3755).	1,4,5,6, 7,15
Data Element Dictionary (DED). An authoritative reference containing the definition and related features of data elements, data chains, and data use identifiers. See volume 12.	1
Data Element Terminator Code. See DRN 8268, volume 12.	1,4
Data Exchange. The submittal of data, not requiring collaboration, through the single submitter to the Defense Logistics Services Center (DLSC).	2
Data Item. A sub-unit of descriptive information or values classified under a data element. For example, the data element Submitting Activity Code (DRN 3720) contains data items such as U.S. Army Electronics Command, Naval Training Device Center, and San Antonio Air Logistics Center.	
Data Range Criteria. Information providing the means (manual or mechanical) for determining item equivalency and substitutability relationships for each item characteristic.	3
Data Record Number (DRN). See DRN 0950, volume 12.	1,2,4,5,6,7,15
Defense Retail Interservice Support (DRIS) Program. A program designed to use inter-Service transfers of material and logistics services to achieve the greatest possible effectiveness and economy in the operations of DoD activities.	
Deletion Reason Code. See DRN 4540, volume 12.	6,14
Demilitarization. The act of destroying the military offensive or defensive advantages inherent in certain types of equipment or materiel. The term comprehends mutilation, dumping at sea, scrapping, melting, burning, or alteration designed to prevent the further use of equipment and materiel for its originally intended military or lethal purpose.	4,15
Department of Defense Activity Address Code (DoDAAC). See DRNs 0395 and 6550, volume 12.	
Depot Source of Repair (DSOR). An organic or contract activity designated as the source to provide depot maintenance of equipment. Only each Service's Maintenance Interservice Support Management Office (MISMO) assigns DSOR codes through the PICA Service cataloging function.	6

Examples: TRUCK, FIRE FIGHTING
TRAILER, DUMP

(b) If the equipment contains mounted special equipment or apparatus necessary to perform a specific function, reflect this broad type of transport with one of the modifiers for mobile units.

Examples: BAKERY PLANT, TRAILER
MOUNTED
TEXTILE REPAIR SHOP,
SEMITRAILER MOUNTED
DECONTAMINATING
APPARATUS, POWER
DRIVEN, TRUCK MOUNTED

EXCEPTION: Mobile units in which the specific function is the governing characteristic of the design.

Examples: TRUCK, FIREFIGHTING
TRAILER, DUMP

(c) When the equipment design function requires some form of mobility, either vehicular mounted or self-propelled, one of the modifiers shall reflect the broad type of transport for which mounted or the source of mobility (prime mover) data.

Examples: SCRUBBING MACHINE,
PAVEMENT, TRUCK
MOUNTED
CLEANER, VACUUM, SELF-
PROPELLED

A term such as SEMITRAILER MOUNTED, TRACTOR MOUNTED, TRUCK MOUNTED, etc., when used as a modifier in the item name for a mobile unit, shall indicate that when the equipment is removed from the mounting, there remains a complete semitrailer, tractor, trailer, truck, or chassis thereof. The term SELF-PROPELLED shall indicate

that the source of mobility (prime mover) is (1) a designed part of the equipment, or (2) a conventional vehicle modified to the extent that the designed purpose of the vehicle is destroyed when it is used as a source of mobility for the equipment.

(d) When the equipment design is for a specific transport mounting but the transport is not a part of the item of supply, the name may reflect the type of transport.

Example: SHOP EQUIPMENT,
WELDING, TRUCK
MOUNTED

(e) Do not reflect the broad type of transport in an item name for equipment such as pumps, compressors, or generator sets, which are not normally mobile but which may be mounted on some form of vehicle. Reflect this type of mounting in the appropriate FIIG.

b. Delimitations.

(1) Types of Delimitations. A delimitation shall be accomplished by one or a combination of the following methods, depending upon the degree of demarcation necessary for uniqueness in the basic concept name or item name as described in this subsection:

Definition
Exclusion of related name
Inclusion of synonymous names
Restriction of use
Cross-referencing to related names

(a) Delimitation by Definition. Develop a single definition for each basic concept name and item name except for the following: (1) a subsistence, drug, or chemical (basic, not application) item when the name appears in an official standard recognized industry-wide or the name completely

defines the item; (2) a technical term contained in an official standard or technical manual recognized industry-wide; or (3) an item name consisting of a basic concept modified by subsistence, drug, chemical, or technical terms as specified in exemptions (1) or (2) above.

(1) Each definition shall clearly explain the characteristics involved in the item concept to which it applies and shall serve to distinguish the item concept from other similar or closely related concepts.

(2) When an item name includes a basic concept name, define the item in terms of the basic concept name. A basic concept name is one that delimits and identifies a particular meaning for that name when other meanings are possible or known, such as Lens. There are camera lenses, flashlight lenses, ophthalmic lenses, and optical lenses. Defined and number the basic concepts.

Example: Resistor

1. (Electrical) A device, the primary purpose of which is to introduce opposition to the flow of current in an electrical circuit.

Acceptable

RESISTOR (1), VARIABLE, NON-WIRE WOUND, NONPRECISION

A resistor in which a sliding or rolling contact moves over an exposed area of the resistive element to change the ohmic value of the output.

Nonacceptable

RESISTOR, VARIABLE, NON WIRE WOUND

An item having electrical resistance whose primary purpose is to limit the flow of current in either direction in an electrical circuit, designed

The functional tolerance (linearity), is given, *if* the output is greater than plus or minus 1 percent on linear outputs. Specified outputs such as sine, cosine, tangent, etc., shall be considered to be precision. For items having manually positioned taps designed to be set and fixed prior to use, see RESISTOR, ADJUSTABLE. For items with step by step variation see RHEOSTAT and RESISTOR, STEP BY STEP. For tandem mounted items designed to function together as an attenuator (and rated accordingly), see ATTENUATOR(1), VARIABLE. Excludes RESISTOR (1), VARIABLE, WIRE WOUND, NONPRECISION; RESISTOR (1), VARIABLE, NON-WIRE WOUND, PRECISION: and RESISTOR (1), VARIABLE, WIRE WOUND, PRECISION.

to allow a nominally continuous variation in the ohmic value of the resistive element.

(3) When an item name does not include a basic concept name, do not define the item name in terms of the basic name.

Example: When PLATE is undefined.

(a) To separate a modifier from a basic name or from a preceding modifier:

Examples: CAMERA, MOTION PICTURE
SAW, HAND, CROSSCUT

(b) When an item name contains three or more principal components.

Examples: ASPIRIN, PHENACETIN, AND
CAFFEIN TABLETS
BENZOCAINE, SODIUM
BORATE, AND METHOL
TABLETS

EXCEPTION: When an item name includes a preposition such as WITH in the item name.

Examples: BEEFSTEAK AND POTATOES
WITH GRAVY, CANNED
BEEF AND MACARONI WITH
CHEESE SAUCE, CANNED

(5) Use of Parentheses in an Approved Item Name. Do not use parentheses to enclose any portion of an Approved Item Name except in certain drugs and chemicals.

Example: N-(1-NAPHTHYL)-
ETHYLENEDIAMINE
DIHYDROCHLOR-
IDE, ANALYZED REAGENT

d. Non-Approved Item Names (NAINs). When no appropriate AIN exists for an item, the designated name is a Non-Approved Item Name (See 3.2.2c). INC 77777 represents NAINs. The name may be a part name given by a manufacturer, but its structure shall conform to the guidelines used in the development of Approved Item Names (see 3.2.4.a and 3.2.4c) except as noted below:

(1) Use of Punctuation. Do not put a space after

any comma in a NAIN. Use the period only before or between numeric characters.

(2) Duplication of Part Names. Sometimes we use two or more part names to express one item concept because we base the reference method of item identification upon the manufacturer's code and part number and not upon the name of the item. Take the following steps to delete duplications and to establish a single item name for each different item concept.

(a) An activity may select one of the names, or develop a more descriptive name.

(b) By mutual agreement, two or more Government activities may select one name which represents an item in each of their supply systems.

e. Colloquial Names. (See 3.2.2d) You may submit alternate or common usage names as well as cancelled AINs as colloquial names. Colloquial name structure may or may not follow format guidelines for Approved Item Names. Form these in the manner best designed to assist in AIN selection. Usually colloquial names do not reflect the inverted sequence of the referenced AIN.

(1) You may submit colloquial Names as part of an Item Identification (II) by using MRC CLQL (administrative MRC covered in General Information of the FIIG) or the formalized DD Form 180. (See Appendix 3-2-B).

(a) No II colloquial submittal is automatically entered in the FLIS data base. DLSC validates the submittal manually prior to entering it into the Cataloging Handbook H6.

(b) DLSC will forward approved colloquial submittals to the submitting activity with the effective date. Return disapproved colloquial submittals

to the submitting activity with justification comments.

(2) DLSC publishes Colloquial Names submitted and approved in the Alphabetic Index of Names, Section A, Cataloging Handbook H6, of the Federal Item Name Directory for Supply Cataloging, in lower-case letters and reference them to at least one Approved Item Name. DLSC does not index them directly to a Federal Item Identification Guide nor duplicate existing entries, such as AINs, a basic name or another colloquial.

Acceptable

Nonacceptable

baker's cap

CAP, FOOD HANDLER'S

See CAP, FOOD HANDLER'S

See FIIG A217A

(3) Reference a colloquial name that is applicable to more than one Approved Item Name to a basic name followed by the phrase "as modified" in parentheses, or to each of the Approved Item Names listed successively, separated by semi-colons.

(4) A colloquial name shall not reference its next higher assembly i.e., a part which references its end item.

Example: indicator, polarity -- See TEST SET SUBASSEMBLY

(5) Do not reference a colloquial name to an unrelated item of supply.

Example: circuit breaker -- See CIRCUIT CARD ASSEMBLY

(6) A colloquial name shall not be too broad or too generalized so as to interpret it as applying to almost any AIN.

Example: meter, modified -- See WATT-METER.

3.2.5 Item Name Submittal. Submit all proposed additions, revisions, and cancellations on the Names Transmittal Form DD Form 180, Remote Accelerated Prototype Item Identification Data Network (*RAPIDNET*) or Fascimile (FAX) affecting item names (see Appendix 3-2-A). Forward to DLSC, ATTN: DLSC-SCB. Proposals submitted by NATO, electronically or by telephone in accordance with Accelerated Name Assignment Procedures outlined below will include all the information required by the DD Form 180. DLSC will prepared a permanent record using the form. All proposed name actions will include a written justification which supports the request technically and procedurally.

a. Completion of the DD Form 180.

(1) DATE: Type in the current date.

(2) SUBMITTING ACTIVITY: Enter the two position Activity Code (see Volume 10, Table 104).

(3) FIIG: *Enter* the Federal Item Identification Guide number applicable to the proposed name action. (e.g., A217A, A022B, or T093-A). List only one FIIG for each DD Form 180.

(4) NAME AND DELIMITATIONS: *Enter* the name(s), delimitations, colloquials, and any FIIG requirements incorporated in or affected by the proposal following the format outlined below. Include the name, office symbol and telephone number of the submitter. Include the justification in this portion of the DD Form 180.

(a) List names in alphabetic sequence followed by any applicable colloquial names. (See 3.2.4e)

(b) Align names two typed spaces from the left imprinted margin. Align delimitations in box

form seven typed spaces from the left imprinted margin.

(c) Double line-spacing will separate all names. Use single line-spacing between a name and its delimitation and within the body of the delimitation.

(d) Capitalization shall follow procedures explained in section 3.2.4 above to distinguish between Basic Names, Approved Item Names, and Colloquial Names.

(e) Label individual name actions within each proposal "ADD;"; "REVISE DEFINITION;"; "CANCEL;"; "REPLACED BY;"; or other notation to identify the action. (See Appendix 3-2-C thru 3-2-I.)

(f) Organize proposals that include both add and cancel actions so that all cancellations follow the additions.

(5) APPLICABILITY KEY: Enter the letter(s) indicating the FIIG Applicability Key on the same line as the name to which it applies. Utilize Applicability Key "A" for all name requests pertaining to FIIG A238 and FIIG A239. For new concept FIIGs enter N/A (not applicable).

(6) FSC NUMBER: Enter the four-digit Federal Supply Class on the same line as the name for which it is recommended. Beneath this number enter in parentheses the appropriate Condition Code. List specified FSCs for Condition Code 2 with an FSC Modifier (in lower case) on the same line. List all modifiers for Condition Code 2 FSCs regardless of action. List the FSCs in numeric order, (See Appendix 3-4-A thru B.)

(7) TAILORED CHARACTERISTICS: The five DLA Centers participating in the Tailored Characteristics program, DCSC, DESC, DGSC, DISC

and DPSC (Medical), must include the MRCs, in desired output order, for inclusion into the Tailored Characteristics Table. When no output required, enter "No Tailored Data Required."

(8) Page Notation. Use additional copies of the DD Form 180 as continuation forms when required to complete the listing of all name proposals applicable to a FIIG. Number all forms (e.g., PAGE 1 OF 5 PAGES) at the bottom of the form.

b. Accelerated Name Assignment Procedure (ANAP). This procedure is for NATO USE ONLY and developed to expedite the assignment of new Approved Item Names to facilitate NSN assignment. DLSC will coordinate names processed via ANAP with the FIIG Initiator and FSC Manager. (Drugs, medical, and subsistence items are exempt from ANAP.)

(1) Processing Criteria.

(a) The proposal must be a request for a new item name.

(b) The proposed name must use an existing FIIG Applicability Key.

(c) The proposal must not require change of the FIIG document, other than addition of the name itself (e.g., no new MRCs or reply codes).

(d) A delimitation must be *included* in accordance with paragraph 3.2.4.b.

(2) Methods for Transmittal. All proposals must include the information required for completion of the DD Form 180 outlined in 3.2.5.a. above plus the CAGE Code (DRN 9250) and Logistics Reference Number (DRN 3570).

(a) DLSC will process proposals forwarded to DLSC-SCB via mail that meet the criteria for ANAP within eight working days from receipt of request to

the response to the submitter. Format is the same as described in 3.2.5.a.

(b) Telephone submittals should use DSN 932-4325, FTS 552-4325, or commercial Area Code (616) 961-4325.

(c) Address Electronically Transmitted Messages (ETM) to DLSC, Battle Creek, MI., ATTN: DLSC-SCB.

(d) Address FAX messages to DLSC-SCB, at DSN 932-4352, FTS 552-4352, or commercial Area Code (616) 961-4352.

c. 5-Day Name Assignment. Established for U. S. Activities using FIIGs A238 or A239 only.

(1) Processing Criteria.

(a) The proposal must be a request for a new item name.

(b) Originator must coordinate, resolve differences and document all actions prior to submission to DLSC. The submittal must show, on the proposal, the FIIG Initiator, FSC Manager and phone number and name of person concurring, if different than submitting activity.

(c) The proposal must be a request within an existing FSC.

(d) The proposal must not require change of the FIIG document, other than addition of the name itself (e.g., no new MRCs or reply codes).

(2) Methods for Transmittal. All proposals must include the information required for completion of the DD Form 180 outlined in 3.2.5.a. above. ***They may be submitted through the Item Names Bulletin Board at 1-800-841-4431 or via FAX at either DSN 932-4352, FTS 552-4352 or commercial area code (616)-961-4352.***

3.2.6 Item Name Coordination.

a. Submitting activities will coordinate new names with FSC Manager(s) and FIIG Initiator prior to submittal to DLSC. Upon receipt of the new name proposal, DLSC will review the submittal for compliance with procedures, format, and possible duplication and assign the Item Name Code (INC). When required, DLSC will coordinate the revised name proposal with those services, agencies, and users affected by the change(s) to solicit concurrence or nonconcurrence and comments.

(1) Normally a proposed action to a revised name having more than (15) fifteen users shall require a C/C Distribution letter to notify all activities participating in the Federal Catalog System. We require a response within a 30-day timeframe.

(2) Normally when fifteen (15) or fewer activities have an interest in a revised name proposal, DLSC will coordinate the action with only those activities. We require a Response to a coordination letter, normally within 30 days.

(3) DLSC will coordinate proposals concerning drugs and medical items with at least the Defense Personnel Support Center (DPSC) and the Veterans Administration (VA) and coordinate proposals concerning subsistence items with at least the VA, DPSC and the United States Department of Agriculture (USDA).

(4) DLSC will coordinate name proposals with NATO and other countries when a restriction occurs. We require a response within a 45-day timeframe (e.g., going from a Condition Code 2 to a Condition Code 1).

b. DLSC processes Item Names within a 5-180 day timeframe which may include collaboration/coordination reconciliation, edit update, system changes and publications.

3.2.7 Item Name Approval/Disapproval. The approval of a proposed name action depends upon acceptance by DLSC and the results of any coordination effort. DLSC views justifiable nonconcurrency on a proposal as a reason for disapproval.

a. Item Name Code (INC) Assignment.

(1) Upon approval, DLSC assigns Item Names a five-position numeric Item Name Code (INC).

(2) DLSC references these INCs by numeric code to the AIN, FIIG, and FSC(s) in the Numeric Index of Item Names, Section B of the Federal Item Name Directory (Cataloging Handbook H6).

b. Notification of Approval/Disapproval. DLSC will forward approved proposals for the addition of a new item name to the submitter with the INC and its effective date and return disapproved proposals to the submitter with justification comments. If unable to resolve the nonconcurrency, DLSC forwards the complete package to HQ DLA for resolution.

c. DLSC designates names for use only by NATO/foreign countries as "All Except USA", enclosed within parentheses, as the first part of the name definition.

d. For U. S. Activities: Names that are no longer required for U. S. use may either contain a CANCEL/REPLACE action with the cancelled name becoming "All Except USA" (AEUSA) or just making the CANCELLED name AEUSA.

e. Publications.

DLSC updates the FLIS files used to support publication of name related data as required to incorporate approved name actions. Documents affected by name changes include:

(1) Federal Item Name Directory (FIND) for Supply Cataloging, Handbook H6-A and H6-B.

(2) Federal Supply Classification, Handbook H2-1 and H2-2.

(3) H2/H6 Advance Notice (used to present cumulative changes to the above handbooks between printings).

(4) Federal Item Identification Guides.

posed FSC. Coordinate with the FSC Manager of FIIGs developed/proposed by other than IMM for the FSC. Forward proper documentation reflecting this coordination to DLSC concurrent with the preparer's request for FIIG publication. For incorrect FSC management, the receiving IMM is responsible for forwarding to the appropriate IMM with notification to the originator. When an originator cannot determine the responsible IMM, send the proposal to DLSC-SC so stating. Identify IMM in Appendix 3-3-D or DoD 4100.39-M, Volume 13, Chapter 2, Appendix 13-2-A, Standard FSC Table.

(5) Forward requests for maintenance to FIIGs developed by a NATO country (other than the U.S.; identified on cover) to DLSC-SCB for collaboration with the FIIG initiating activity.

(6) Until implementation of a bulletin board to provide visibility of name development, the following will apply:

(a) Each developing activity will notify all other activities of their names scheduled for development of New Concept FIIGs.

(b) The list will include the name/definition, FSC, proposed date of development, and name/number of point of contact.

(c) Forward the list to the appropriate initiators found in Appendix 3-3-D. All responses to the initiator will receive the same distribution.

(d) DLSC will advise NATO/foreign countries.

(7) Naming Authority. The naming authority will remain at DLSC for control purposes. In those cases where conflicts arise concerning technical content, the initiating activity (IMM FSC Manager) having commodity expertise will be responsible for the technical content of the item name and/or defi-

nition. For unresolved conflicts between the DSC and S/As, refer the item name to DLSC for reconciliation.

(8) Transfer of Names. The IMM may decide which item names to transfer to the applicable New Concept FIIG. "All Except USA" item names will be identified with a crosshatch (#) in the Index of Approved Item Names. Once DLSC establishes a New Concept FIIG it is the IMM's responsibility to consider all future name transfer requests to or from the New Concept FIIG. DLSC will monitor these transfers to insure that sufficient justification warrants the action. DLSC will determine if it is necessary to coordinate with the user(s).

g. New Concept FIIGs. (NATO foreign countries.)

(1) Submit requests for a new INC and a New Concept FIIG to DLSC with all supporting technical documentation.

(2) DLSC will send the FIIG to the appropriate IMM for review. The IMM approves or disapproves the FIIG for U.S. use, annotates changes, and returns the FIIG to DLSC for processing. If disapproved, DLSC will return the FIIG to the appropriate NATO country with comments submitted from the IMM.

(3) DLSC will process FIIGs approved for U.S. use like all other FIIGs.

(4) DLSC will publish FIIGs not adopted for U.S. use but not include in the U.S. mechanized system. MRCs assigned are visible in the MRD. DLSC will include the INC in the H2/H6 publications as "All Except USA" (AEUSA).

(5) The IMM determines characteristics requirements for the U.S. DLSC will continue to support NATO foreign country requirements. FIIG requirements developed by NATO/

foreign countries become AEUSA if not adopted by the U.S. DLSC will resolve duplicate requirements and incorrect FIIGs.

(6) DLSC will process reports of FIIG deficiencies and requests for changes to New Concept FIIGs same as those for any other FIIGs. NATO/foreign countries will *collaborate maintenance requests with all countries (per ACodP-P1) and send them to DLSC-SCB.*

(7) The U.S. will not initiate a New Concept FIIG for AEUSA names. DLSC will publish country-requested FIIGs for AEUSA names when there is no U.S. interest. The U.S. mechanized system will not allow processing of items covered by the AEUSA name. If there is duplication or overlap of existing names, DLSC will return with recommendations. Resubmit with justification for reconsideration.

(8) There will be no conversion of New Concept FIIG numbers to INCs. The assigned numbers are permanent.

(9) DLSC will not reject NATO/foreign country requests for assignment of AEUSA names to FIIG A239. DLSC may however, recommend another existing FIIG in lieu of FIIG A239, when appropriate.

(10) The responsible IMM will consider requested addition of AEUSA names to the New Concept FIIG when appropriate. See 3.3.4f.(7).

h. Formatting

(1) General Format Instructions.

(a) Prepare data on 8 1/2x11 inch plain computer paper.

(b) Use plain typing in all FIIG preparation. Use bold and italic for new and revised information.

(c) A capitalized title (including FIIG number) will appear centered, at the top of each page of section, appendix, and index of the FIIG.

(d) Number the FIIG pages sequentially. The General Information Section will start with Arabic numeral one, except for New Concept FIIGs which contain no General Information Section. In Appendix B, DLSC will assign reference drawing numbers which will appear on even numbered point pages (e.g., MRCs on page 108 and the drawings on pages 108.1, 108.2, and the like).

(e) Underline columnar titles.

(2) Cover Page. The FIIG cover will display the following information:

(a) An identifying FIIG number and publishing date shall appear in the upper-right corner.

(b) DLSC will assign only New Concept FIIGs which begin with A500.

(c) Title the document: "FEDERAL ITEM IDENTIFICATION GUIDE," centered, beneath which will appear the title of the commodity area it represents. For New Concept FIIGs, the INC may also appear.

(d) Note the name and address of DLSC as the activity responsible for publication. The New Concept FIIGs will also contain the name, address, and telephone number of the IMM.

(3) General Information. This section of the FIIG introduces and describes the contents. For New Concept FIIGs, see Appendix 3-3-B and 3-3-C. It also provides general and special instructions and technical changes as required. DLSC is responsible for developing the standard General Information section. The responsible activity may add pertinent information.

(a) Format Instructions:

(1) Number paragraphs and separate by two line spaces.

(2) Paragraph titles will be concise and underlined. Capitalize the first letter of each major word.

(3) Indent subparagraphs and number or letter in accordance with general letter format.

(b) Structure. The Standard General Information section will describe the following topics in sequence:

Purpose and Scope

Contents (Lists contents of FIIG)

Index of Approved Item Names (New Concept FIIGs do not contain this unless FIIG contains more than one Item Name.)

Applicability Key Index (New Concept FIIGs do not contain this)

Section I - Item Characteristics Data Requirements

Appendix A - Reply Tables (as applicable for New Concept FIIGs)

Appendix B - Reference Drawings (as applicable)

Appendix C - Technical Data Tables (as applicable)

Administrative Data - Provides instructions for input of Administrative MRC CLQL (see Appendix 3-3-C for New Concept FIIGs)

Special Instructions - Provides special instructions such as input for measurements (see Appendix 3-3-C for New Concept FIIGs)

Special Notes - Contains any special notes pertinent to FIIG

Maintenance - Identifies preparing activity and instructions for requesting changes (New Concept FIIGs do not contain this)

(4) Index of Data Requirements. The FIIG

initiating activity prepares this index. Arranged in alphabetic sequence by MRC, cross referenced to the applicable data requirements code and page number. New Concept FIIGs do not contain this information.

(5) Index of Approved Item Names (AINs). This index provides the user with the item names, their definitions, INCs, and Applicability Keys covered by the FIIG. Do not reference any AIN to more than one FIIG. New Concept FIIGs may contain this index if more than one name applies.

(a) Content. The index will contain the AINs with definitions and INCs as they appear in the Federal Item Name Directory for Supply Cataloging, Cataloging Handbook H6, which is applicable to the FIIG. Each item name will have an Applicability Key recorded to indicate the applicability of each requirement to that item name. Assign same Applicability Key to AINs referencing the same requirements MRCs. New Concept FIIGs do not contain an Applicability Key.

(b) Format. Display information in a columnar fashion.

(1) The first column, titled "Approved Item Name," will list the AINs with their definitions in alphabetic sequence.

(2) The second column, titled "INC" will list the five-position INC matched to each AIN entry.

(3) The third column, titled "App Key," will list the alphabetic Applicability Key for each AIN. New Concept FIIGs will not contain the App Key column.

(6) Applicability Key Index. This index provides the user with a reference table with MRC requirements for each Applicability Key. New Concept FIIGs do not contain this index.

(a) Content. The index will include all MRCs, the page numbers on which they appear, all Applicability Keys, and notations indicating "required" or "as required" conditions.

(b) Format. Arrange the index in columns.

(1) The first column, titled "MRC" will list all MRCs in the same order as they appear in the FIIG.

(2) The second column, titled "Page No.," will identify the page on which each MRC appears.

(3) The third column, titled "Applicability Key," will list every Applicability Key. These will list designators for each MRC.

(a) "X" indicates that the MRC is mandatory.

(b) "AR" indicates that the MRC is optional, dependent upon another MRC, or is dependent upon a note.

(c) A blank space indicates that the MRC does not apply to the specified Applicability Key.

(7) Section I - Item Characteristics Data Requirements. Section I is the main body of the FIIG. By answering requirements in this section, the user builds a formatted, machineable description for an item of supply. Use the required information accumulated in this description to differentiate items for NSN assignment for other logistic functions. The development of requirements shall conform to procedures given in the MILSTICCS Procedures Manual, DLAM 4140.6, Aug 1970.

(a) Content. Section I contains requirement statements and definitions with appropriate instruc-

tions and replies needed to properly identify items within the commodity area of the FIIG.

(1) Requirements. Establish a requirement in such a manner that resulting replies will be brief, fully describe the physical and performance characteristics defined, and are not subject to arbitrary interpretation. It consists of a Master Requirement Code (MRC), a title, and a definition. Provide reply instructions to mandate the format for answers to the requirement. New Concept FIIGs must use only reply table MA01 for material MRCs and SF01 for surface treatment MRCs. Do not use MRCs in the MRD which have "/D/" recorded. The mechanized system does not allow these MRCs.

(a) Single Characteristic per Requirement. Each requirement shall reflect only one characteristic. For example, key actual size to tolerance range to provide "size" which is the characteristic stated as the FIIG requirement. A requirement such as Quantity and Size of Mounting Holes, however, is not acceptable. These involve two characteristics and two variables. Code as one reply a requirement for two variables to describe a single characteristic. For example, express the characteristics electrical resistance by selection of the reply code for megohms followed by the variable value. Express an electrical resistance value of 1,000,000 ohms as M1.0 in which "M" represents megohms and "1.0" represents the value of megohms.

(b) Single Requirement for Characteristics. Do not include the same characteristics or variables in more than one requirement. This does not preclude use of the characteristic or variable in more than one table referring to different requirements. For example, "size" may be the key element in various dimensional tables in Appendices, though as a specific requirement in Section I it can appear only once. A requirement must not appear more than once, even if expressed in a different fashion.

(c) Do not include requirements estimated to be applicable to less than one percent of total item coverage (or 100 items, whichever is smaller). Considered these for a reply using a features MRC (FEAT or CBBL, as applicable): MRC CBBL is preferred.

(d) The requirement name should be short and concise, immediately identifying and describing the characteristic of the item. The following guidelines shall apply to development of requirement names.

(1.) The requirement name shall not contain punctuation marks.

(2.) Singular word forms are preferred over plural word forms.

(3.) Do not use words such as "designator", "indicator", "symbol", or "code", unless required by technical content.

(4.) Use existing requirement statements in the Master Requirements Directory (MRD), however, if they are not consistent with these guidelines, consider the intent of the MRD statement and use as a model for a new requirement statement that does comply with these guidelines under a new MRC.

(5.) The FIIG or item names covered by the FIIG shall not appear in requirement names.

(6.) A specific unit of measurement may appear in the requirement name only when such measurement is never acceptable in differing form or multiple. (For example, "ARC in Degrees" may be acceptable, whereas "Length in Inches" is never acceptable.) Use Mode Code B or F when the unit of measurement appears in the requirement name.

(7.) When a newly standardized term for

rating or measuring is used, the previous term in parentheses shall follow the new term, e.g., CELSIUS (centigrade): HERTZ (cycles per second). The citation shall also be made at least the first time the new term is used in the requirement instruction.

(e) Requirement definitions shall be as general as possible but adequately enough to describe the characteristic.

(f) Reply instructions form a very important part of a requirement and shall include the following, as applicable:

(1.) Specify conversions from fractions to decimal format.

(2.) Provisions for replies to requirements in the terms as recorded on the source document, such as inches and millimeters, and state whether values are nominal or minimum and maximum.

(3.) The type of reply, including reference to location of reply tables.

(4.) Sample (typical) replies to demonstrate the structure of an expected reply. Place the typical replies in a parenthetical expression with the abbreviation "e.g.," followed by a comma introducing one or more properly structured replies. Show an asterisk (*) completing each typical reply. Examples of scalar replies shall reflect both U.S. Customary and metric scales. (e.g., ABHPJAA0.050*; ABHPJAB0.045\$\$JAC0.055*; ABHPJLA45.8*)

(5.) Reference to drawings and legend letters.

(6.) Relationships of the requirement to other requirements.

(7.) Priority of replies.

(8.) Secondary address coding instructions.

(9.) Use of symbols.

(g) Any note(s) applicable to a requirement(s) or subrequirement(s) shall be in capital letters and shall immediately precede the requirement or first subrequirement. The format will be NOTE FOR MRC(S) XXXX:, followed by the appropriate information. Insert the statement "(see note above)" directly above the MRC involved. For New Concept FIIGs, the statement "(see note above)" does not apply. The notes stand alone for each MRC in New Concept FIIGs.

(2) FIIG Requirements/Reply Structure Concept. Structure replies to requirements in either coded or clear text language or a combination of the two (as specified) in accordance with the principles of MILSTICCS.

(a) Coded Replies. Qualitative replies which can be predicted shall be included in a table from which a selection can be made readily by the user of the FIIG. The tables of replies shall be coded using the following rules:

(1.) Reply codes shall be as short as possible and still provide sufficient code lengths to cover the quantity of known replies or predicted replies in a table. In development of a MRC reply table, establish a single character as a reply code when expected reply codes are ten or fewer. When the possibility of replies exceeds ten, use two or more characters for each code.

(2.) Reply codes shall be mnemonic whenever possible. (e.g., the replies LEFT and RIGHT are always code L and R respectively.)

(3.) Reply codes will be all alphabetic or

controlled alphanumeric within a given table.

(b) Scalar Replies. Requirements for dimensional or other scale-type replies which can be stated in terms of both U.S. and International scales shall be established and coded tables used to identify the appropriate scale, applying Mode Code J. When two or more units in a decimal scale may be cited, such as ohms, kilohms, and megohms, the reply code shall be similarly given to identify the appropriate units.

(1.) When the International System of Units (SI or metric) scale identifies the value in a reply, indicate the unit or units most appropriate to the commodity in the requirement instructions and establish in the reply table under the following codes:

P -- pico -- (e.g., picofarad)
U -- micro -- (e.g., microfarad)
L -- milli -- (e.g., millimeter, milligram)
C -- centi -- (e.g., centimeter, centiliter)
D -- deci -- (e.g., decigram)
Q -- the unit -- (e.g., meter, ohm, gram)
T -- deca or deka -- (e.g., decagram, decameter)
H -- hecto -- (e.g., hectometer, hectogram)
K -- kilo -- (e.g., kilometer, kilogram)
M -- mega -- (e.g., megohm, megahertz)
G -- giga -- (e.g., gigohm, gigahertz)

(2.) Sequence the measurement scale table specified above in accordance with the requirement title when used in conjunction with a dimensional requirement. The first table in a requirement such as "type and measurement", for example, would be for types while the second table would indicate measurement scales.

(3.) Do not use fractions and/or number-type replies (e.g., 1/4, No. 10) for input unless specifically authorized by the FIIG. FIIGs devel-

oped for commodity areas where replies of this nature are applicable contain tables of acceptable replies in the appropriate section or appendix.

(c) Use of "Any Acceptable." Characterize items by the broadest tolerance acceptable, unless otherwise indicated in the FIIG. Do not use the reply "any acceptable" unless specifically authorized by the FIIG requirement instructions. DLSC requires full justification for its use.

(d) New Concept FIIGs do not use MRCs with yes or no type table responses such as "provided" or "not provided". Use MRC CBBL, FEATURES PROVIDED. "Any Acceptable" replies are not authorized for these FIIGs.

(3) The FIIG reflects requirement applicability of all requirements to each AIN by the use or absence of an Applicability Key.

(a) Identify a major requirement by the Applicability Key to an AIN when it addresses a characteristic normally associated with such items. New Concept FIIGs do not contain Applicability Keys.

(b) The absence of a key in the applicability column indicates a subordinate requirement representing an "as-required" condition for the characteristic. The preceding major requirement is the governing requirement for the as-required condition. New Concept FIIGs do not contain subordinate requirements.

(c) Dashes in the applicability column indicate a lead-in requirement, requiring no reply. Requirement instructions provide guidance as to what action is necessary to satisfy the lead-in requirement. A lead-in requirement is one such as MOUNTING DIMENSIONS. Appendix B of the FIIG contains the applicable requirements.

(d) Applicability Keys appear above each major requirement. "ALL" (*without an asterisk*) indicates that you must answer the requirement for all items covered by the FIIG. A specific letter(s) indicates that you must satisfy the requirement only for the specific item name(s) assigned to that Applicability Key. An asterisk following the applicability key indicates the requirement may not be applicable to all items covered by the Applicability Key and mean "as required."

(b) Format. Organize Section I within a standard columnar format as explained below. Refer to the FIIG example provided in Appendix 3-3-A. Refer to Appendix 3-3-B for New Concept FIIG examples.

(1) Head each page by four capitalized column titles separated from the text by a dividing line. New Concept FIIGs contain three capitalized column titles.

(2) Title the first page of Section I "SECTION I, ITEM CHARACTERISTICS DATA REQUIREMENTS." Title New Concept FIIGs "SECTION I".

(3) The first column, titled: "APPL KEY," will contain the Applicability Key indicator(s) for each requirement. New Concept FIIGs do not contain this column.

(4) The second column, titled: "MRC," will list the four-position Master Requirement Code that corresponds to each requirement. This is the first column in new concept FIIGs.

(5) The third column, titled: "MODE CODE" will identify the one-position, alphabetic Mode Code assigned to each MRC. This is the second column in New Concept FIIGs.

(6) The fourth column, titled:

“REQUIREMENTS” will contain the requirement titles, definitions, reply instructions, reply tables, notes, and special instructions. The first MRC requirement in Section I is always the MRC NAME, ITEM NAME, followed in sequence (insofar as possible) by requirements common to all item names covered by the FIIG, requirements specific to particular item names, other requirements necessary for identification, the standard data requirements, and then, after MRC ELCD (Extra Long Characteristics Description), those requirements needed to support logistics functions other than NSN assignment. This is the third column in New Concept FIIGs.

(8) Section II - Data Range Criteria. Section II will be deleted from all FIIGs, This will occur at *reprint* time of each individual FIIG.

(9) Do not include Section III (Supplementary Technical and Supply Management Data) in new FIIGs. Include all requirements needed to support logistics functions other than NSN Assignment in Section I of the FIIG following MRC ELCD. DLSC will identify these MRCs on Segment M output with the Roman numeral III. Fully coordinated (tan covered) and New Concept FIIGs do not contain Section III. Include these MRCs in Section I before MRC FEAT.

(10) Appendix A - Reply Tables.

(a) Content. This appendix consists of reply tables and tables of Identified Secondary Address Codes (ISACs) organized for reference by Section I requirements. Include tables based upon the following criteria:

(1) Tables of ten or more replies or ISACs. Tables of 25 or more replies for New Concept FIIGs.

(2) Tables of more than five replies or ISACs, when referenced by more than one requirement.

(b) Format.

(1) Title the first page “INDEX TO APPENDIX A” and list all the tables in sequence. Number each table and label as *Table 1*, *Table 2*, etc. The first column of the index lists the table number, followed by a dash and the capitalized title. The second column titled “Page No” gives page numbers that apply to each table.

(2) Arrange the body of Appendix A in table sequence, each identified by a capitalized title and a table number. Head ISAC tables with a list of all applicable MRCs. Reply tables shall note in parentheses, after the table number, the four-position code assigned to each reply table in the MRD. Tables generally consist of two columns:

(a) The first column, titled “REPLY CODE” lists the reply codes or ISACs. Capitalize alpha-codes/alphanumeric codes.

(b) The second column, titled “REPLY” lists the replies (capitalized) in alphabetic or other logical sequence.

(11) Appendix B - Reference Drawing Groups. This appendix displays drawings of item configurations with dimensional requirements necessary to describe basic item features.

(a) Content. Appendix B contains drawings, dimensional requirements, and instructions as required.

(1) Drawings which appear in Appendix B will be isometric, if at all possible. This will be at the discretion of the initiating activity.

(2) DLSC will accept sketches, drawings, illustrations, or photographs and prepare in final form.

(3) Avoid use of legend letters on drawings. Use legend letters only in the reference drawings of those FIIGs where it is impossible or impractical to reflect the specific MRCs for the dimensional/physical characteristics requirements. Submit a full justification for their use. DLSC will attempt to change these at reprint time.

(4) Locate reference drawings in Section I of the FIIG if they appear on four or less pages and are only referenced by one MRC. Related dimensional requirements will follow the drawings. However, if any one drawing group does not meet this criteria and has to appear in Appendix B, then locate all drawings for the FIIG in Appendix B.

(5) The FIIG initiator will assign a pseudo style number to new styles added to a FIIG. Pseudo numbers will begin with A and ascend alphabetically. They should be consistent with the character *length* of the rest of the assigned style numbers (e.g., Styles A, B, C or AA, AB, AC, etc.). DLSC will assign the authorized style number upon receipt of the drawing. Provide unique style titles for the new styles when assigned a Mode Code L. The style titles will not utilize the AIN or any portion thereof in their construction.

(b) Format.

(1) Title the first page "INDEX TO APPENDIX B" and arranged in columns. The first column titled "Reference Drawing" lists the Reference Drawing Groups/Sections identified by letter designations and titles. The second column titled "Page No" lists page numbers that apply to each group.

(2) Precede each Reference Drawing Group that includes MRCs by a page(s) titled "INDEX OF MASTER REQUIREMENT CODES" beneath which provide the group title (such as PERIPHERAL SHAPES). This index includes notes, reply instructions, reply tables and all the requirements applicable to that Reference Drawing Group. Organize the requirements in column as follows:

(a) Title the first column "MRC."

(b) The second column, titled "Mode Code" lists the applicable Mode Code for each MRC. DLSC will group MRCs by Mode Code.

(c) The third column titled "Name of Dimension" gives the requirement title.

(3) Label pages of drawings with the applicable group/section designation and title and enclosed by a printed border margin. Give each drawing an identifying style number.

(12) Appendix C - Technical Data Tables.

(a) Content. Reserve this appendix for reference data, conversion charts and other useful information or table not expressed elsewhere in the FIIG.

(b) Format.

(1) Title the first page "INDEX TO APPENDIX C," and list all the tables in sequence. Number each table and label as: Table 1, Table 2, etc. The first column of the index lists the table number, followed by a dash and the capitalized title. The second column, titled "Page No.," gives page numbers that apply to each table.

(2) Arrange the data in columns, tables, or

other suitable format that will be readily understandable to the user. Label each table with a title and table number.

(3) See Appendix 3-3-B for Appendix C standard tables. New Concept FIIGs may contain Appendix C.

3.3.5 FIIG Page Change. DLSC will review each page change that effects the technical content of the FLIS data base. DLSC will determine if the Mass Change Program or Database Discipline is required. The following criteria and procedures apply:

a. Mass Change

(1) The changes must be simple and clear cut.

(2) DLSC requires approximately two weeks to process the mass change.

(3) DLSC will lock out the FIIG for the period of time necessary to process the mass change.

(4) DLSC will send notification to Services/Agencies two weeks before lock out.

(5) DLSC will notify Services/Agencies when *the lock out is over*.

(6) DLSC will mail implementation rejects to the Services/Agencies and forward any error conditions to the item manager for manual correction.

b. Data Base Discipline. Items that require manual correction will be identified and mailed to the Services/Agencies.

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 12
DEFINITION AND CLARIFICATION OF TERMS

MATERIAL: The input for MRC MATT will be the name of the basic material and the chemical analysis designator when applicable.

CHEMICAL ANALYSIS DESIGNATOR: The assigned designation that represents and indicates the percentage or proportions of the various elements within a material.

MATERIAL DOCUMENT: The specification and/or standard that restricts the percentage or proportions of the various elements within a material.

PHYSICAL PRIORITIES: The various physical conditions of a material/surface treatment such as a class, temper, and etc.

SURFACE TREATMENT: The input for MRC SFTT will be the name of the protective coating and the compound designator when applicable.

COMPOUND DESIGNATION: The assigned designation that represents and indicates the percentage or proportions of various elements within a surface treatment.

DATA CHAIN: A data chain representing an encoded data characteristic in a characteristic description of an item. It consists of the Master Requirement Code, Mode Code and the reply field in coded and/or clear text as designated by the mode code. It may include the Secondary Address Code and the Secondary Address Code Indicator when there is more than one reply within a Master Requirement Code, and may include either of the AND/OR symbols.

Detailed Recording Instructions

- A. An item fabricated from a single material and/or protected by a single surface treatment.

STEEL, QQ-S-634, COMP 1020, COND CD
CADMIUM, QQ-P-416, TYPE 1, CLASS 2.

MATT2AADST1020*
MDCL2AAJBAQQ-S-634, COND CD*
SFTT2AADCD0000*
STDC2AAJBAQQ-P-416, TYPE 1, CLASS 2.

- B. An item fabricated from multiple materials and/or protected by multiple surface treatments.

ALUMINUM ALLOY, QQ-A-250/5, ALLOY 2024, TEMPER 4 and

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 12

STEEL, QQ-S-634, COMP 1020, COND CD.
ANODIZED, MIL-A-8625, TYPE 1, CLASS 1 and
CADMIUM, QQ-P-416, TYPE 1, CLASS 2.

MATT2AADAL2024\$\$DST1020*
MDCL2AAJBBQQ-A-250/5,T4\$\$JBCQQ-S-634, COND CD*
SFTT2AADAN0000\$\$DCD0000*
STDC2AAJDBMIL-A-8625, TYPE 1, CLASS 1\$\$JBCQQ-P-416,
TYPE 1, CLASS 2*

C. An item fabricated from optional materials and/or protected by optional surface treatments.

ALUMINUM ALLOY, QQ-A-250/5, ALLOY 2024, TEMPER 4 or
STEEL, QQ-S-634, COMP 1020, COND CD and
ANODIZED, MIL-A-8625, TYPE 1, CLASS 1 or
CADMIUM, QQ-P-416, TYPE 1, CLASS 2

MATT2AADAL2024\$DST1020*
MDCL2AAJDDQQ-S-250/5, T4\$JBCQQ-S-634, COND CD*
SFTT2AADAN0000\$DCD0000*
STDC2AAJDBMIL-A-8625, TYPE 1, CLASS 1\$JBCQQ-P-416,
TYPE 1, CLASS 2*.

D. An item fabricated from optional - multiple materials and/or protected by optional - multiple surface treatments.

ALUMINUM ALLOY, QQ-A-250/5, ALLOY 2024, T4 and
STEEL, QQ-S-634,COMP 1020, COND CD or
ALUMINUM ALLOY, QQ-A-250/5, ALLOY 2024, T4 and
STEEL, QQ-S-634, COMP 1040, COND ACD and
ANODIZED, MIL-A-8625, TYPE 1, CLASS 1 and
CADMIUM, QQ-P-416, TYPE 1, CLASS 2 or
ANODIZED, MIL-A-8625, TYPE 1, CLASS 2 and
CADMIUM, QQ-P-416, TYPE 1, CLASS 1.

MATT2AADAL2024\$\$DST1020\$DAL2024\$\$ST1040*
MDCL2AAJBBQQ-A-250/5,T4\$\$JBCQQ-S-634, COND CD\$JBDQQ-A-250/5,
T4\$\$JBEQQ-S-634, COND ACD*

SFTT2AADAN0000\$\$DCD0000\$DAN0000\$\$DCD0000*

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 12

STDC2AAJDBMIL-A-8625, TYPE 1, CLASS 1\$\$JBCQQ-P-416, TYPE 1,
CLASS 2\$\$JDDMIL-A-8625, TYPE 1, CLASS 2\$\$JBEQQ-P-416, TYPE 1,
CLASS 1*

E. An item fabricated from material that reflects and manufacturers reference.

- (1) ALUMINUM ALLOY, 415136-2125, ALLOY 5052-H32, Texas Instruments, Inc.

MATT2AADAL5052*

MDCL2AAJFA415136-2125, H32, CAGE Code 14859*

- (2) ALUMINUM ALLOY, 521-0194-004, North American Rockwell Corp.

MATT2AADAL0000*

MDCL2AAJFA521-0194-004, CAGE Code 88750*

In the first example E. (1) above, the chemical analysis designator is noted specification/standard, drawing, chemical designator or a combination of all. Therefore, if the chemical analysis designator can not be clearly recognized these numbers will not be entered in MRC MATT, but may be input to MRC MDCL. If only MRCs MATT and SFTT are replied to then it will be considered to be as NOT OTHERWISE SPECIFIED. If both MRC combinations MATT-MDCL and SFTT-STDC are replied to, it is to be considered as NOT OTHERWISE SPECIFIED, as a chemical analysis designator is not readily identifiable, although the data in MRCs MDCL and STDC may restrict the percentage or proportions of the various elements.

F. Many material compositions can be assigned the same chemical analysis designator, but be recognized by various names. Therefore, the following material names will no longer be used for valid material replies:

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 12

ALUMINUM BRONZE	If no chemical analysis designator cited use COPPER ALLOY. If a designator is cited use COPPER ALLOY with applicable designator. USE COPPER, ALLOY.
BERYLLIUM COPPER	
BRASS	
BRONZE	
MANGANESE BRONZE	
NICKEL SILVER	
PHOSPHOR BRONZE	
NYLON	Use PLASTIC, POLYIMIDE
POLYIMIDE NYLON	
CRES	If no chemical analysis designator cited use STEEL. If a designator is cited use STEEL with applicable designator.
STEEL, STAINLESS	
STAINLESS STEEL	
CLOTH	Use the specific material of which this type of reply is fabricated from.
FABRIC	
FELT	
FIBER	

When a material such as ALUMINUM-COPPER (NOS) the use of AND (\$\$) will be necessary to record the reply, ALUMINUM AND COPPER. If a specification/standard restricts the percentage or proportions to equal amounts, the dual input to MRC MATT must be utilized. This also will be used for surface treatment.

RUBBER: There are only two replies for RUBBER, NATURAL/SYNTHETIC, as the designations that are being used, cite physical conditions of the material, not the chemical analysis designations. If the data reflected by these designations is required for NSN assignment, requirements must be added to Section I for the data input. If this data is not required for NSN assignment, input the designations to MRC MDCL.

(Explanation of Designations)

TYPE: Environmental Protection CLASS: Natural/Synthetic

GRADE 410: First Digit - Shore A Durometer Hardness Range
Second and Third Digit - Minimum Tensile Strength

SUFFIXES: Indicates additional requirements for that particular grade.

Identified Secondary Address Coding

**APPENDIX 3-3-D
COORDINATION ADDRESSES
NEW CONCEPT FIGS**

1. Commander
Defense Electronics Supply Center
ATTN: DESC-*ELVC*
Dayton, OH 4544-5215
2. General Services Administration
Federal Supply Service
Logistics Data Management Division
ATTN: FCRL - A
Washington, D.C. 20406
3. Commanding Officer
Navy Fleet Material Support Office
P.O. Box 2010
ATTN: Code 9143
Mechanicsburg, PA 17055-0787
4. Commander
Defense Industrial Supply Center
ATTN: DISC-SL
Philadelphia, PA 19111-5096
5. Commander
USAMC Catalog Data Activity
ATTN: AMXCA-PC
New Cumberland Army Depot
New Cumberland, PA 17070-5010
amxcapc@ncad-emh12.army.mil
6. Commander
HQ Cataloging and Standardization Center
(CASC)
FM
74 N. Washington
Battle Creek, MI 49017-3094
7. Commandant
U.S. Coast Guard Headquarters
ATTN: David M. Taffet
2100 2nd Street, S.W.
Washington, D.C. 20593

APPENDIX 3-3-D
NEW CONCEPT FIGs

8. Commander
Defense Construction Supply Center
ATTN: DCSC-VLF
P.O. Box 3990
Columbus, OH 43216-5000
hallows@dcsc.dla.mil
9. Commander
Defense General Supply Center
ATTN: DGSC-VCB(FIIG)
8000 Jefferson Davis Highway
Richmond, VA 23297-5640
10. Commander
Defense Logistics Services Center
Characteristics Data Management Division
ATTN: DLSC-SCB
Federal Center
74 N. Washington
Battle Creek, MI 49017-3084
11. Commander
Defense Logistics Services Center
International Codification Division
ATTN: DLSC-SD
Federal Center
74 N. Washington
Battle Creek, MI 49017-3084

CHAPTER 4 THE FEDERAL SUPPLY CLASSIFICATION SYSTEM

3.4.1 Purpose. This chapter will describe the structure and organization of the Federal Supply Classification System and the procedures for its modification.

3.4.2 Use. The Federal Supply Classification System is sufficiently comprehensive to permit the classification of all items used by participating activities. A Federal Supply Class (FSC) is selected for every item of supply and forms the first four digits of the National Stock Number (NSN). This system, with its structure of groups and classes, represents those groupings and relationships which are based on current as well as anticipated management needs. As these needs change, the structure is modified by the addition of newly developed groups and classes, the subdivision of existing classes, and the revision of definitions for classes.

3.4.3 Structure. The Federal Supply Classification System is composed of commodity classes organized within broad groups. The system permits a total of 99 Federal Supply Groups (FSGs), each of which may be subdivided in 99 Federal Supply Classes (FSCs). The classes within any group are considered to be closely related. Each class covers a relatively homogenous area of commodities with respect to their physical or performance characteristics, their relationship to a next higher assembly, or because they are usually procured or issued together.

a. Code Numbering system. Each class of items is assigned a four digit code. The first two digits represent the FSG and the last two digits specify the class within each group.

b. Expansion of the present number of groups and classes has been provided for by the gaps in sequence left between the code numbers assigned to groups and within groups to adjacent classes. Such expansions may be required by technological advances or by the need for other desirable additions and changes.

c. Whether a class includes the phrase "and components" as part of the class title or not, assemblies, subassemblies, and component parts specially designed for items in the class will be included only where no class exists within the FSC structure for that type of component.

Example 1. FSCs 4810 and 4820 are established for powered and nonpowered valves. Valves of the same type as established in Federal Supply Group 48 will be classified within these classes regardless of a "NOTE" including component parts in the next higher assembly class.

Example 2. Group 25 Vehicular Equipment Components was established for items which otherwise might have been classified in Group 23, Ground Effect Vehicles, Trailer and Cycles and Group 24, Tractors.

d. Condition Codes. A single digit indicating the type of FSC classification for an item in the Numeric Index of the Cataloging Handbook H2-2 and the Alphabetic and Numeric Indexes of the Cataloging Handbook H6.

(1) Condition Code (1). The Approved Item Name (AIN) which may be classified in one and only one specific class of the FSC structure.

(2) Condition Code (2). The AIN which may be classified in two or more specific classes of the FSC structure, as specifically indicated.

(3) Condition Code (3). Not authorized for use.

e. Explanation of Condition Code (2). The Condition Code is included with the AINs in the Cataloging Handbooks H2-2 and H6. Those AINs with Condition Code 2 specifically are entered in the Cataloging Handbook H6 with the FSC and the class modifier which applies. Example of proper application of condition codes are as follows:

Example 1. The AIN "TAPE, SOUND, RECORDING" is classified only in Federal Supply Classes 5835 and 7450. The two specific H6 entries for this AIN both include Condition Code (2) following the class modifiers ("except office type" for FSC 5835, and "office type" for FSC 7450). However, the mandatory classification for each category of sound-recording tape is indicated in the "Class" column on the right-hand side of that particular entry in the Handbook. That is, office-type recording tape is classified in FSC 7450, and all other types (applications) are classified without exception on FSC 5835.

Example 2. The AINs "CIRCUIT BREAKER" and "CIRCUIT BREAKER SUBASSEMBLY" are properly assigned to two different classes based on the voltage and type of current of the item being classified. This is indicated in the H-6 by a series of four entries derived from each AIN, such as "Circuit breakers, above 250 volts DC(2)--6110" and "Circuit breaker subassemblies, 250 volts DC and below (2)---5925". Condition Code (2) does not imply that a given item with the voltage and current shown can be classified in two classes. The modifying phrase in each case governs the classification and restricts the item of supply to one specific class.

f. Classification of Parts Where a Specific Class Exists. Where a specific class of the FSC is applicable to a particular part, that part shall be classified in the specific class and not with its next higher assembly. The FSC may indicate by an exclusion note that the "specially designed" item be classified with the equipment for which it is specially designed, and not be classified therein.

g. Classification of Parts Where No Specific Class Exists. Where no specific class of the FSC is applicable to a particular part, that part shall be classified with the most logical class.

h. Auxiliary Subdivisions of Federal Supply Classification Classes. Where greater commodity classification detail is required by a participating service or activity than is provided for in the basic 4-digit FSC structure, auxiliary subdivisions of classes (commonly referred to as "Auxiliary Classifications;" or "Subclasses") may become necessary. These auxiliary subdivisions of classes may be developed by the participants for their own use. If a universal requirement is found to exist for a particular auxiliary subdivision, consideration will be given to the establishment of additional FSC classes corresponding to the auxiliary subdivision. When used in conjunction with the National Stock Number (NSN), any auxiliary subdivision of a class found necessary by a participant shall be signified by augmentation of the NSN and not by change to the 4-digit FSC class code number. In no event shall any of the 13 digits of the NSN be changed or digits or other symbols be inserted within the 13-digit structure.

i. Classification of Sets, Kits, and Outfits. The following rules shall govern the classification of Sets, Kits, and Outfits:

(1) Sets, Kits, and Outfits consisting of variations (such as size or color) of an item shall be classified in the same class as the individual items.

(2) Sets, Kits, and Outfits consisting of several different items classifiable either in a single class or in several classes of the same group, or in classes of more than one group, shall be classified in the "Sets, Kits, and Outfits" class of the group which logically covers the application or functions purpose for which the set, kit, or outfit was assembled.

(3) If no "Sets, Kits, or Outfits" class is established in the appropriate group which covers the application or functional purpose of the set, kit, or outfit, then the set, kit or outfit shall be classified



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CHANGE NO. 3
 DoD 4100.39-M

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 Volume 3

DLSC-VPH
 1 October 1995

FEDERAL LOGISTICS INFORMATION SYSTEM (FLIS) PROCEDURES MANUAL

I. Volume 3, DoD 4100.39-M. 1 January 1995, change as follows: Remove pages listed below and insert revised pages. Additions and changes are indicated by *bold-face italic* type. Deletions are indicated in the Significant Changes paragraph below.

	<u>REMOVE OLD</u>	<u>INSERT NEW</u>
Appendix 3-3-A	9 and 10	9 and 10
Appendix 3-3-C	3	3

II. SIGNIFICANT CHANGES

A. The page changes are effective upon receipt.

B. Significant changes for the entire manual this quarter and the applicable change number for each affected volume are listed on the change sheet for volume 1.

BY ORDER OF THE DIRECTOR:

RANDALL B. HAGLUND
 Colonel, USMC
 Commander
 Defense Logistics Services Center

DLSC - The Key to Readiness

Errata

CH 3
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III. This change sheet will be filed in front of Volume 3 for reference purposes after changes have been made.

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5801 Tabor Avenue
Philadelphia, PA 19120

Air Force: Distribution "X"

APPENDIX 3-3-A
SAMPLE OF FIG INFORMATION

MRC	Section I/III Requirement	Page No.
ABMZ	DIAMETER	70
ADTD #	NOMINAL PRESSURE RATING	15
AEHZ	MAXIMUM OPERATING TEMP	15
ASDB	WIDTH ACROSS FLATS	70
ATKT	FIRST END THREAD SERIES	71
ATLB	SECOND END THREAD SERIES	71
CBBL	FEATURES PROVIDED	17
CQBB	SECOND END RELATIONSHIP WITH FIRST END	13
CQCF	CONSTRUCTION	14
CQGM	MAXIMUM OPERATING PRESSURE	14
CQHT	SURFACE CONDITION AND LOCATION	16
CQYM	FIRST END NOMINAL THREAD SIZE	71
CRNB	SECOND END NOMINAL THREAD SIZE	71
CRTL	CRITICALITY CODE JUSTIFICATION	20
CRWF	THREAD PROTECTIVE DEVICE AND QUANTITY	17
CRXX	MEASURING METHOD AND LENGTH	12
CSQH #	FIRST END THREAD PITCH IN MILLIMETERS	71
CTDX #	SECOND END THREAD PITCH IN MILLIMETERS	71
CWBM #	FIRST END THREAD TOLERANCE CLASS	72
CXNC #	SECOND END THREAD TOLERANCE CLASS	72
ELCD	EXTRA LONG CHARACTERISTIC DESCRIPTION	71
ELRN	EXTRA LONG REFERENCE NUMBER	21
FEAT	SPECIAL FEATURES	17
HEAT	HEAT TREATMENT	16
HGTH	HEIGHT	70
MATL	MATERIAL	11
NAME	ITEM NAME	11
PRPY	PROPRIETARY CHARACTERISTICS	21
SPCL	SPECIAL TEST FEATURES	18
STLC	SURFACE TREATMENT AND LOCATION	16
TEST	TEST DATA DOCUMENT	18
ZZZK	SPECIFICATION/STANDARD DATA	19
ZZZT	NONDEFINITIVE SPEC/STD DATA	19
ZZZW	DEPARTURE FROM CITED DOCUMENT	20

APPENDIX 3-3-A
SAMPLE OF FIG INFORMATION

MRC	Section I/III Requirement	Page No.
ZZZX	DEPARTURE FROM CITED DESIGNATOR	20
ZZZY	REFERENCE NUMBER DIFFERENTIATING CHARACTERISTICS	20
Section III Requirements		
AGAV	END ITEM IDENTIFICATION	50
BBRH	INSPECTION FREQUENCY	48
CBME	CUBIC MEASURE	48
ECWT	EXTERIOR CONTAINER WEIGHT	51
EXME	EXTERIOR CONTAINER CUBIC MEASURE	52
EXQT	EXTERIOR CONTAINER QUANTITY	51
PKQT	INTERMEDIATE PACKAGE QUANTITY	51
PKWT	UNPACKAGED UNIT WEIGHT	48
PMLC	PRECIOUS MATERIAL AND LOCATION	49
PMWT	PRECIOUS MATERIAL AND WEIGHT	49
PRMT	PRECIOUS MATERIAL	49
SUCB	UNIT OF ISSUE CUBE	52
SUPP	SUPPLEMENTARY FEATURES	50
SUWT	UNIT OF ISSUE WEIGHT	51
ZZZP	PURCHASE DESCRIPTION IDENTIFICATION	50

6. Maintenance

This FIG was prepared by the Defense Construction Supply Center. Requests for revisions and other changes will be directed to:

Commander
Defense Construction Supply Center
ATTN: DCSC-VLF
Columbus, OH 43215-5000

(COMM) 614-236-2911
(DSN) 850-2911

D. Appendix A

This Appendix will only contain tables with more than 25 replies or tables referenced to multiple MRCs.

a. All tables in Appendix A or Section I will be in alpha reply sequence with the exception of dimensional tables or if there is an underlying need to put them in some other logical sequence.

b. For MRC ZZZT, the standard reply table will be used and will be printed in each FIIG in which the MRC appears.

E. Appendix B

Reference drawings will be tailored as required for each FIIG. Reference drawings should be minimized by utilizing word description requirements, but only if easily understood.

F. Appendix C

1. When applicable, Standard Tables will be contained in Section C of the New Concept FIIG. See Section C Index of the New Concept FIIG sample in Appendix 3-3-B for a complete list of the Standard Tables contained within.

2. When developing a New Concept FIIG, references to Standard Tables formerly found in Appendix C of the FIIG, now shown in Section C of this publication, use the name of the table.

G. Section II

Currently published New Concept FIIGs may contain a statement as to whether Section II will be developed. However, Section II will not be developed in the future for all FIIGs and will be deleted at the time of maintenance for each FIIG.

H. FIIG Example

1. See Appendix 3-3-B for example of FIIG annotated with specific format guidelines:

NOTE: This example of a FIIG is not an actual FIIG. Some of the drawings and other parts may be missing.

2. To obtain this format on floppy disk contact DLSC-SCB, (DSN) 932-4325 or (FTS) 552-4325.



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	<u>REMOVE OLD</u>	<u>INSERT NEW</u>
Glossary	iii thru x, xvii thru xxxiv	iii thru x, xvii thru xxiv
Chapter 2	3.2-15 and 3.2-16	3.2-15 and 3.2-16
Appendix 3-3-B	63 and 64, 75 and 76, 105 and 106	63 and 64, 75 and 76, 105 and 106
Chapter 5	3.5-1	3.5-1

II. SIGNIFICANT CHANGES

A. The page changes are effective upon receipt.

B. Significant changes for the entire manual this quarter and the applicable change number for each affected volume are listed on the change sheet for volume 1.

BY ORDER OF THE DIRECTOR:

RANDALL B. HAGLUND
 Colonel, USMC
 Commander

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GLOSSARY
PART I - ACRONYMS

		Volume(s)			Volume(s)
AAC	Acquisition Advice Code	6,14,15	ANSI	American National Standards Institute, Inc.	2,3,7
ACN	Advance Change Notice, FLIS	1,2	APSN	Association Package Sequence Number	
ADC	Air Dimension Code	15	AQL	Acceptable Quality Level	2,14
ADP	Automatic Data Processing	1,3,4,7	AR	Army Regulation	2,6,13
ADPEC	Automatic Data Processing Equipment Identification Code	6,15	ARC	Accounting Requirements Code	15
ADPP	Automatic Data Processing Point	15	ASCII	American National Standard Code for Information Interchange	2
ADPS	Automatic Data Processing System	1	ASD	Assistant Secretary of Defense	
AEDA	Ammunition Explosive, and Other Dangerous Articles	10	ASPR	Armed Services Procurement Regulation	7
AFFC	Air Force Fund Code		CAC	Civil Agency Catalog	15
AFLC	Air Force Logistics Command	6,13	CAGE	Commercial and Government Entity Code	1,2,4,5,6,7,14,15
AFM	Air Force Manual	6,13	CAO	Contract Administration Office	1,15
AIN	Approved Item Name	3,4,6	CB	Change Bulletin	15
AINRP	Approved Item Name Reclassification Program	6	CCAL	Certified Contractor Access List	15
AMC	Acquisition Method Code	6,14	CDA	Catalog Data Activity	6
AMSC	Acquisition Method Suffix Code	6,14			

CH 2
DoD 4100.39-M
Volume 3

		Volume(s)			Volume(s)
CIC	Card Identification Code, Item Management Coding Content Indicator Code Continuation Indicator Code	4,6,14 2 2	DEMIL	Demilitarization	4,15
			DESC	Defense Electronics Supply Center	2,14
			DFSC	Defense Fuel Supply Center	2,14
CIMM	Commodity Integrated Materiel Manager	1,2,5, 6,13,14	DGSC	Defense General Supply Center	2,14
			DHCO	Departmental Headquarters Catalog Office	2,14
CIT	Consumable Item Transfer	6	DIA	Defense Intelligence Agency	13
CMD	Catalog Management Data	1,2,4,5, 6,7,14,15	DIC	Document Identifier Code	1,2,4,6,7, 13,14,15
COM-RI	Communications Routing Identifier	2,6	DIPEC	Defense Industrial Plant Equipment Center	1,2,6,7,13
CSS	Cataloging Statistical Series	2,14	DISC	Defense Industrial Supply Center	2,14
DA	Description Available	15	DLA	Defense Logistics Agency	1,2,4,5,6, 13,14,15
DAAS	Defense Automatic Addressing System	1,2,6	DLAH	Defense Logistics Agency Handbook	
DAASO	Defense Automatic Addressing System Office	1,2,4, 5,6,14	DLAR	Defense Logistics Agency Regulation	6,13
DAC	Document Availability Code	4	DLSC	Defense Logistics Services Center	All
DCN	Document Control Number	1,4	DM	Descriptive Method (Item Identification)	2,14
DCSC	Defense Construction Supply Center	2,14	DNA	Defense Nuclear Agency	2,4,6,13,14
DCSN	Document Control Serial Number	6	DNACA	Defense Nuclear Agency Cataloging Activity	4
DD Form	Department of Defense Form	1,2,3, 4,5,7,15			

		Volume(s)			Volume(s)
DoD	Department of Defense	All	DSN	<i>Defense Switched Network</i> <i>(Formerly: Automatic Voice Network)</i>	1,2,3,4,5
DoDAAC	Department of Defense Activity Address Code		DSOR	Depot Source of Repair	6
DoDAAD	Department of Defense Activity Address Dictionary		EAM	Electronic Accounting Machine	1,2,4,6,7,13
DoDAC	Department of Defense Ammunition Code	3	ED	Effective Date	2,6,13
			ELCD	Extra Long Characteristic Description	2,3,4
DoDD	Department of Defense Directive	1	ELRN	Extra Long Reference Number	2,3,4
DoDI	Department of Defense Instruction	6,14	EOJ	End of Job	
DOE	Department of Energy	2,4	EOT	End of Transmission	2
DRMS	Defense Reutilization and Marketing Service	1,15	ERRC	Expendability, Recoverability-Reparability Code	
			ESDC	Electrostatic Discharge Codes	8,9,10,15
DPSC	Defense Personnel Support Center	2,13,14	FAA	Federal Aviation Administration	1,2,4,6,13
DRIS	Defense Retail Interservice Support		FC	Foreign Countries	2,4,6
DRN	Data Record Number	1,2,4,5,6,7,13	FD	Functional Description	1
			FDM	Full Descriptive Method (Item Identification)	2
DSC	Defense Supply Center	1,2,4,6	FG	Foreign Government	4
			FII	Federal Item Identification	2,4,6

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Volume 3

		Volume(s)			Volume(s)
FIIG	Federal Item Identification Guide	1,2,3,4, 5,7,14,15	HMIC	Hazardous Material Indicator Code	8,9,10,15
FIND	Federal Item Name Directory	4,15	I&S	Interchangeability and Substitutability	1,5,6,14
FLIS	Federal Logistics Information System	All	ICP	Inventory Control Point	6,13,14
FLIS Data Base	Federal Logistics Information System Data Base	1,2,3,4,5,6, 7,13,14	II	Item Identification	1,2,3,4, 5,6,13
FMS	Foreign Military Sales	2,13	IIM	Item Intelligence Maintenance	2
FMSN	File Maintenance Sequence Number	2,4,6	ILDT	Item Logistics Data Transmittal	4
FMSO	Fleet Material Support Office	6,13	IMC	Item Management Coding	1,2,6,13,14
FRD	Formerly Restricted Data	4	IMCA	Item Management Classification Activity	2,6
FSC	Federal Supply Classification	1,2,3,4, 5,6,13, 14,15		Item Management Coding Activity	13,14
FSG	Federal Supply Group	1,5,6, 13,14,15	IMM	Integrated Materiel Manager	1,2,4, 6,13,14
GIM	Gaining Inventory Manager	2,6	IMMC	Integrated Materiel Management Committee	6
GIMM	Gaining Inventory Materiel Manager	2,6	IMSS	Item Management Statistical Series	6,14
GIRDER	Government/Industry Reference Data Edit and Review	4	INC	Item Name Code	1,3,4, 5,6,14,15
GSA	General Services Administration	1,2,3,4, 6,7,13,14	IOS	International Organization for Standardization	6
HMC	Hazardous Materiel Code	15	IRRC	Issue, Repair and/or Requisitioning Restriction Code	

		Volume(s)			Volume(s)
ISAC	Identified Secondary Address Coding		MCSA	Marine Corps Supply Activity	
ISC	Item Standardization Code	4,5,6,15	MEC	(Marine Corps) Management Echelon Code	13,15
JAIEG	Joint Atomic Information Exchange Group	4	MFR	Manufacturer	4
JAN	Joint Army-Navy	2	MIL-RI	Military Routing Identifier	6
JANAP	Joint Army-Navy-Air Force Publication	2,7	MILSCAP	Military Standard Contract Administration Procedure	1,7,15
LCL	Less Than Carload Rating Code	15	MILSPEC	Military Specification	3
LIM	Losing Inventory Manager	6	MIL-STAAD	Military Standard Activity Address Directory	
LMF	Language Media Format	2	MIL-STAMP	Military Standard Transportation and Movement Procedure	6
LOA	Level of Authority	2,6,13,14	MILSTD	Military Standard	2,3,4,7
LR	Logistics Reassignment	4,6	MIL-STICCS	Military Standard Item Characteristics Code Structures	3,15
LS	Lead Service	6	MILSTRAP	Military Standard Transaction Reporting and Accounting Procedure	15
LTL	Less Than Truckload Rating Code	15	MILSTRIP	Military Standard Requisitioning and Issue Procedure	6
MAC	Maintenance Action Code	6	MIM	Military Inventory Manager	14
MC	Marine Corps	1,2	MM	Materiel Manager	
MCC	Materiel Category Code Materiel Condition Code				
MCLB	Marine Corps Logistics Base	13			
MCO	Marine Corps Order	13			

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		Volume(s)			Volume(s)
MMAC	Materiel Management Aggregation Code-AF	1,13	NIIN	National Item Identification Number	All
MMC	Materiel Management Category Code-DoD (Commodity)	13	NIMSC	Nonconsumable Item Material Support Code	2,6
MOE	Major Organizational Entity	1,2,3,4,5,6,13,14	NMFC	National Motor Freight Classification (Code)	1,2,6,15
MOWASP	Mechanization of Warehousing and Shipment Processing	6	NOCA	Nuclear Ordnance Cataloging Activity	2,4
MRC	Master Requirement code	1,3,4,5,15	NOCO	Nuclear Ordnance Cataloging Office	2,4
MRD	Master Requirement Directory	3,15	NSA	National Security Agency	1,2,4,6,13,14
MRM	Military Retail Manager	14	NSCM	NATO Supply Code for Manufacturers	1,4,5,7,15
MTMC	Military Traffic Management Command	1,2,4,6,15	NSN	National Stock Number	1,2,3,4,
NADEX	NATO Data Exchange	1	OCR	Optical Character Recognition (Reader)	1,2,7
NAIN	Non-Approved Item Name		ODRC	Output Data Request Code	1,2,4,5,6
NATO	North Atlantic Treaty Organization	1,2,,4,5,6,7,13,15	OE	Organizational Entity	1,4,5,7,15
NCB	National Codification Bureau	2,4	PDM	Partial Descriptive Method (Item Identification)	2,4
NDUP	Non-Duplicate	4	PIC	Priority Indicator Code	1,2,4,5,14
NHCI	Nuclear Hardness Critical Item	2,4	PICA	Primary Inventory Control Activity	1,2,4,5,6,13,14
NIDS	Nuclear Integrated Data System	4	PMIC	Precious Metals Indicator Code	6,15
			PORM	Plus or Minus	2,3

		Volume(s)			Volume(s)
PSCN	Permanent System Control Number	1,2,4,5,6,15	RNVC	Reference Number Variation Code	5,6,15
PSMAT	Provisioning Screening Master Address Table	1,5,7	ROFC	Remote Output Format Code	16
PSN	Package Sequence Number	1,2,4,5,7	RPDMRC	Reference/Partial Descriptive Method Reason Code	1,2,4
PSOS	Pseudo Source of Supply	6	S/A	Military Service/Civil Agency	2,13,14
PVC	Price Validation Code		SAC	Secondary Address Code	3,4
Q/R	Query Response, <i>Electronic Data Transmission</i>		SADC	Service/Agency Designator Code	2,4,15
QUP	Quantity Unit Pack	2,6,15	SAIC	Secondary Address Indicator Code	
RCS	Reports Control Symbol	2,14	SAN	System Advisory Notice (FLIS)	1
RD	Restricted Data	4	SCN	System Control Number	1,4
RIC	Routing Identifier Code	1,2,6	SCR	System Change Request (FLIS)	1,6,15
RM	Reference Method (Item Identification)	2,4,14	SFM	Simplified File Maintenance	1,2
	Retail Manager	6	SIC	Statistical Indicator Code	
RNAAC	Reference Number Action Activity Code	1,2,4	SICA	Secondary Inventory Control Activity	1,2,5,6,13,14
RNCC	Reference Number Category Code	2,4,5,6,15	SICC	Service Item Control Center	2,6,13,14
RNFC	Reference Number Format Code	4,5	SIN	Submittal Identification Number	
RNJC	Reference Number Justification Code	1,4			
RNSC	Reference Number Status Code	4			

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		Volume(s)			Volume(s)
SLC	Shelf Life Code	2,6,15	U/M	Unit of Measure	
SMIC	Special Material Identification code	15	U/P	Unit Price	15
SMR	System Management Release, FLIS	1	USCG	United States Coast Guard	1,2,6
SNOCA	Service Nuclear Ordnance Cataloging Activity	4	WIMM	Weapons Integrated Materiel Manager	2,4,5,6,13,14
SoS	Source of Supply Code	1,2,4,6,4,15			
SoSM	Source of Supply Modifier Code				
SPSN	Submitted Package Sequence Number				
SR	Standard Requirement	4			
SSR	Supply Support Request	1,2,6,13			
	System Support Record	1,2,5,6,7,13,14,15			
STDB	Standard Test Data Base	1			
STIR	Sequential Total Item Record	2,6			
TACOM	U.S. Army Tank-Automotive Command	2,6,13,14			
TIC	Terminal Identifier Code				
TSN	Terminal Serial Number				
UFC	Uniform Freight Classification (Code)	1,6,15			
UI	Unit of Issue	2,6,15			

Volume(s)

Department of Defense Activity Address Directory (DoDAAD). The file of all Department of Defense customers clear-text addresses, address codes, and billing codes for use in preparation of bills to customers.

Department of Defense Ammunition Code (DoDAC). See DRN 3767, volume 12. 3,15

Department of Defense Interchangeability and Substitutability (I&S) Family. A grouping of items which possess such physical and functional characteristics as to provide comparable functional performance for a given requirement Design Control Reference. The primary number used to identify an item of production, or a range of items of production, by the manufacturer (individual company, firm, corporation, or Government activity) which controls the design, characteristics, and production of the item by means of its engineering drawings, specifications, and inspection requirements. 2,4

Design Control Reference. The primary number used to identify an item of production, or a range of items of production, by the manufacturer (individual company, firm, corporation, or Government activity) which controls the design, characteristics, and production of the item by means of its engineering drawings, specifications, and inspection requirements. 2,4

Document Availability Code (DAC). See DRN 2640, volume 12.

Document Control Number. See DRNs 1015 and 3920, volume 12. 4,5,6,15

Document Control Serial Number. See DRN 1000, volume 12. 1,5,6

Document Identifier Code (DIC). See DRN 3920, volume 12. 1,2,4,5,6,7,13,14,15

DoD/Federal Functional Manager. The organizational element responsible for specific functions such as the Federal Catalog Program (DLA-MM), Item Management Coding (DLA-OP), Freight Classification Data (MTMC). 1

DOE Controlled Commercial Items. End items, assemblies, components, and parts (including testing and handling equipment) which are standard commercial items used on or with nuclear weapons. Due to the nuclear weapons reliability concept, they require special testing or DOE control for quality assurance. These items are available only from the DOE through DNA and are all of "war-reserve quality" or "single quality". They are not security classified and are not commodity classified in FSC group 11. Item identifications for these items will each reflect a reference number coded with CAGE 87991. 4

DOE Special Design Items. End items, assemblies, components, and parts (including testing and handling equipment) designed or manufactured by DOE or design controlled by DOE for use specifically in the nuclear ordnance field. These items are available only from the DOE through the Defense Nuclear Agency (DNA) and may be categorized as "war reserve quality", "training quality", or "single quality". 4

	Volume(s)
Drop Table. Used by DLSC, when requested by Service/Agency activities, to eliminate distribution of unneeded data.	1
Economic Feasibility. The determination of the cost effectiveness of a data system change. Design, development, programming, implementation, and appropriate Automatic Data Processing (ADP) equipment costs (including separate indication of ADP and non-ADP costs) should be related to the value of the automated data system change under development.	1
Effective Date (ED). The year and Julian day denoting the date that a predetermined condition or action becomes effective in the defense logistics system. This date will always be the first day of a month; e.g., 83121 is 1 May 1983. An effective date will be either a "future" effective date or a "standard" effective date.	2,5,6,13
Electronic Data Transmission. This is a world-wide department of Defense computerized general purpose communications system which provides for the transmission of narrative and data pattern traffic on a store-and-forward(message switching) basis and subscriber (circuit switching) basis. (Formerly: Automatic Digital Network (AUTODIN)).	1,2,4 5,6,7
Electronic Data Message Control. A procedure that may be used by interested recorded users to identify and verify receipt of FLIS data transmitted electronically for a fixed time period. See volume 8, DIC KWA.	2
Electrostatic Discharge Code. A code to indicate whether an item is susceptible to electrostatic discharge or electromagnetic interference damage.	8,9,10,15
End of Transmission (EOT). An ADP term indicating the conclusion of a transmission.	
Equivalency Criteria. Criteria contained in section II of the FIIG consisting of data range conversion formulas and decision rules criteria used to determine characteristic equivalency and substitutability. Replies are equivalent when they are identical or become equivalent through the application of section II criteria. Replies NOT RATED and ANY ACCEPTABLE in the data base are not to be considered equivalent with respect to other definitive replies to a specific input requirement. Equivalent items are always "offered" to the processing activity requesting NSN assignment from DLSC for review and possible acceptance.	3
Estimated Demand. See DRN 0727, volume 12.	
Estimated or Actual Price. See DRN 0731, volume 12.	
Expendability, Recoverability-Reparability Code (ERRC). See DRN 2655, volume 12.	
Extra Long Characteristics Description (ELCD). Characteristics description data which consists of 5,000 characters or more.	2,3,4

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Extra Long Reference Number (ELRN). A reference which exceeds the allowed field of 32 positions and must be carried forward to additional cards.	2,3,4
Federal Catalog System. A Federal program administered by DoD in conjunction with GSA. It shall name, describe, classify, and number each item repetitively used, bought, stocked, or distributed by the Federal Government so that only one distinctive combination of letters or numerals (or both) identifies the same item throughout the Federal Government.	1,3,4,6, 14,15
Federal Cataloging Program Statistical Series. A series of statistics required to reflect information pertaining to all Federal Cataloging Program transactions recorded in FLIS files against items which are managed by DoD activities, Civil Agencies, or foreign countries participating in the Federal Cataloging Program.	14
Federal Item Identification (FIID). A description of an item of supply which consists of minimum data essential to establish those characteristics which give an item its unique character, and differentiate it from every other item of supply within the Federal Catalog System, and required related management data.	2,4,6
Federal Item Identification Guide (FIIG). A guide prescribing standard requirements, formats, and machine oriented coding structure for the collection of item characteristics and other item-related logistics data.	1,2,3,4, 5,7,14,15
Federal Item Name Director (FIND). Published as Cataloging Handbook H6 Series; provides item name data to Services/Agencies for use in development of item identifications.	4,15
Federal Logistics Information System (FLIS). An ADP system designed to provide a centralized data bank in support of the Department of Defense, Federal Civil Agencies, and foreign countries participating in the integrated logistics support program.	All
Federal Logistics Information System Data Base . The segment of the FLIS data bank containing the sum total of information (word, codes, and numbers) on an item required for identification and related data necessary to support various logistics functions. The FLIS data base is comprised of the following files: NIIN, Characteristics, Reference Number, and Graphics.	1,2,3,4, 5,6,7, 13,14,15

	Volume(s)
Federal Supply Classification (FSC). Permits the classification of all items of personal property used by participating activities. Groups and classes have been established for the universe of commodities with emphasis on the items known to be in the supply systems of participating activities. This classification system with its present structure of groups and classes represents those groupings and relationships which are based on current, as well as anticipated, management needs. The Federal Supply Classification structure is modified, as the needs of management change, by the addition of newly developed groups and classes, the subdivision of existing classes, and the revision of definitions of classes. The uniform Federal Supply Classification is governed by daily management requirements and provides uniform management categories throughout military activities and Civil Agency organizations, functions, operations, and supply pipelines. It permits greater uniformity within and between Military Services and Civil Agencies in the operations of reporting, accounting, financial management, inventory control, and budgeting.	1,2,3,4, 5,6,13, 14,15
Federal Supply Classification Group 11, Nuclear Ordnance. A Federal Supply Classification group which includes those nuclear ordnance items which are not specifically commodity classified elsewhere.	4
Federal Supply Group (FSG). See DRNs 3994 and 3996, volume 12.	1,5,6, 13,14,15
File Maintenance Sequence Number (FMSN). See DRN 1515, volume 12.	4,6
Financial Inventory Accounting (FIA). Establishment and maintenance of inventory accounts in monetary terms and the rendition of reports thereon. Covers materiel in storage, in process, on hand, in transit, and on consignment.	
FLIS Advance Change Notice. A notification, to users of DoD 4100.39-M, of changes that must be implemented in the period between quarterly publication of changes and revisions.	1
FLIS Data Bank. A totally integrated logistics information repository, including graphics, necessary to support the various logistics functions. The central data is organized in two segments, the FLIS data base segment and the System Support Record segment.	1,2,3,4, 5,6,15
Foreign Countries (FC). (Changed from: Friendly Foreign Governments). A non-NATO nation participating in the Federal Cataloging Program through an agreement which provides for the furnishing of Federal catalog data and cataloging services by the United States on a reimbursable basis.	1,2,4,5, 6,7,15
Freight Classification. The division of articles into groups according to physical characteristics for the purpose of transportation.	1,2,4,5, 6,15

Volume(s)

Full Descriptive Method of Item Identification. The descriptive method of item identification establishes and delimits the concept of an item of supply by the delineation of the essential characteristics of the item which give the item its unique character and serve to differentiate it from every other item of supply. It may contain other characteristic data not used in the assignment of an NSN as specified in section III of the specific FIIG. The Full Descriptive Method (FDM) technique of item identification is a type 1 item identification which contains all essential characteristics of an item and differentiates it from every other item of supply. 2,4,14

Functional Description (FD). The FLIS FD provides: 1,8,9

a. The system requirements to be satisfied which will serve as a basis for mutual understanding between the user and the developer.

b. Information on performance requirements, preliminary design, and user impacts including fixed and continuing costs.

c. A basis for the development of systems tests.

Functional Manager, DoD/Federal. See DoD/Federal Functional Manager.

Functional/Operational Index (F/O). An index in grid form designed to assist the user in relating the item identification characteristics with the various logistic functions for data output products. 3,5,15

Gaining Inventory Manager (GIM). The inventory manager responsible for assuming wholesale materiel management functions. 2,6

Guide Number, Federal Item Identification Guide (FIIG). See DRN 4065, volume 12. 2,4

Hazardous Materiel Code (HMC). See DRN 2720, volume 12. 1,6,15

Hazardous Material Indicator Code. A code instructing the user on the type of hazardous material(s) used. 8,9,10,15

Immediate Response. The time elapsed from the point at which DLSC receives the last character of input data until DLSC transmits the first character of output data will not exceed one minute. 16

Industrial Plant Equipment (IPE). IPE is that part of DoD-owned plant equipment with an acquisition cost of \$1000 or more; used for the purpose of cutting, abrading, grinding, shaping, forming, joining, testing, measuring, heating, treating, or otherwise altering the physical, electrical, or chemical properties of materials, components, or end items entailed in manufacturing, maintenance, supply, processing, assembly, or research and development operations. IPE is further identified by noun name in joint DoD Handbooks, DLAH 4215 series.

	Volume(s)
Initial Coding. Application of the established IMC criteria by the ICPs to all National Stock Numbered items existing in FSC classes newly designated as commodity oriented.	6
Initiating Activity. An activity assigned the responsibility for the development, coordination, reconciliation, and submittal to DLSC of a completed FIIG and follow-up maintenance.	3
Integrated Materiel Manager (IMM). See DRN 9090, volume 12.	1,2,4,6,13
Interchangeability and Substitutability (I&S). Conditions which permit the exchange of one item for another without affecting design or performance beyond acceptable limits.	1,5,6,14
Inventory Account Code - Coast Guard. See DRN 0708, volume 12.	1
Inventory Control Point (ICP). An organizational unit within the supply system of a Military Service/Defense Logistics Agency which is assigned the primary responsibility for the management of a group of items, either within a particular Military Service or for the DoD as a whole. Responsibilities include computation of quantitative requirements; the authority to require procurement, repair materiel, or initiate disposal; development of world-wide quantitative and monetary inventory data; and the positioning and repositioning of materiel.	6,13,14
Item Characteristics. Physical, performance, and other item-related logistics data required to describe, differentiate, and manage items of supply.	3,4
Item Identification (II). A collection and compilation of data to describe an item. The minimum data to develop an item identification are a combination of the item name, CAGE Code, manufacturers' identifying part/reference number, Reference Number Category Code (RNCC), and Reference Number Variation Code (RNVC). The maximum data required are the item name, all of the physical and performance characteristics data prescribed by a specific FIIG, and the manufacturers' identifying part/reference number. It may also include additional related reference numbers.	1,2,3,4, 5,6,13, 14,15
Item Intelligence. The sum total of data for a given item.	4
Item Intelligence Maintenance (IIM). A function in FLIS which provides for the processing of adjustments/revisions to established item identifications and characteristics in the FLIS data base.	
Item Logistics Data Transmittal (ILDIT). The medium used for formatting data required to be transmitted to the data bank.	4
Item Management Classification Activity (IMCA). See DRN 4075, volume 12.	2,6

	Volume(s)
Item Management Coding (IMC). The process of determining whether items of supply in FSC classes assigned for integrated materiel management qualify for management by the individual Military Services or other DoD components. Coding is accomplished in accordance with established IMC criteria contained in DoD 4140.26-M, volume I, Defense Integrated Materiel Management for Commodity Oriented Consumable Items.	1,2,6,13,14
Item Management Coding Activity (IMCA). See DRN 2748, volume 12.	2,6,13,14
Item Management Statistical Series (IMSS). A series of informational type documents providing statistical data in support of the Federal Catalog System.	6,14
Item Name. See DRNs 5010 and 5020, volume 12.	1,3,4,5,6,15
Item Name Code (INC). See DRN 4080, volume 12.	1,3,4, 5,6,14,15
Item of Production. Consists of those pieces or objects grouped within a manufacturer's identifying number and conforming to the same engineering drawings, specifications, and inspection.	4
Item of Supply. An item of supply may be a single item of production or two or more items of production that are functionally interchangeable or that may be substituted for the same purpose and that are comparable in terms of use. It is more meticulous (a selection of closer tolerance, specific characteristics, finer quality) than the normal item of production, or may be a modification (accomplished by the user or at request of the user) of a normal item of production.	2,3,4,5,6,7, 14,15
Item Standardization Code (ISC). See DRN 2650, volume 12.	1,4,5,6,14,15
Key Data Element(s). Data element(s) submitted to obtain the desired interrogation/search output as specified by the Output Data Request Code.	5
Language Media Format (LMF). A code used for AUTODIN transmission to the FLIS data bank. The code indicates source media and preferred output media.	2
Less Than Carload Rating Code (LCL). See DRN 2760, volume 12.	1,2,15
Less Than Truckload Rating Code (LTL). See DRN 2770, volume 12.	1,2,15
List. One of the types of catalogs within a series of publications (e.g., Identification List).	4,15
Losing Inventory Manager (LIM). The inventory manager responsible for relinquishing wholesale materiel management functions.	2,6
Electronic Data Transmission Message Control. A procedure that may be used by interested recorded MADS users to identify and verify receipt of FLIS data transmitted <i>electronically</i> for a fixed time period. See volume 8, DIC KWA.	2
Maintenance Action Code (MAC). See DRN 0137, volume 12.	6

	Volume(s)
Maintenance Coding. Application of the approved IMC criteria by the ICPs to all new or existing National Stock Numbered items which enter FSC classes subject to IMC after initial IMC has been accomplished.	6
Major Organizational Entity (MOE). The principal subdivision of Government organization under which component organizational entities are identified (e.g., Army, Navy, Air Force, Marine Corps, DLA, GSA, etc.).	1,2,3,4, 5,6,13,14,15
Management Cognizance. The duties and responsibilities of a DSC, a Military Service activity, other DoD activity(ies), FAA, or GSA for management of an item of supply to the extent indicated by the MOE Rule.	2,6
Manufacturer (Mfr). A manufacturer may be an individual, company, firm, corporation, or Government activity that controls the design and production of an item, or produces an item from crude or fabricated materials or components, with or without modification, into more complex items.	4,7
Mass Change Processing. Mass change processing falls into two categories. Pre-programmed mass change is initiated by an SSR transaction which triggers or permits subsequent multiple actions to the DLSC and/or Service/Agency files. Special project mass change will require that original analysis and programming be accomplished to accommodate the requested actions.	1,2,6
Mass Data Retrieval. Mass data retrieval is designed to extract segment data from the FLIS data base or partial or complete files from the SSR based on the input of key data element(s). The content of the segments from the FLIS data base and the content of data elements from the SSR will be controlled through input of the appropriate Output Data Request Code DRN as indicated in volume 10, table 28 (Output Data Request Code/Access Key(s)).	1,5
Master Requirement Code (MRC). See DRN 3445, volume 12.	1,3,4,5,15
Master Requirements Directory (MRD). A publication containing the requirements, reply tables, Military Standard Item Characteristics Coding Structure (MILSTICCS), Master Requirement Codes (MRCs), and mode codes contained in published Federal Item Identification Guides (FIIGs).	1,3,5
Materiel Category Codes (MCC). See DRNs 2680 and 9256, volume 12.	
Materiel Condition Codes (MCC). See DRN 2835, volume 12.	
Materiel Management. Direction and control of those aspects of logistics which deal with materiel, including the functions of identification, cataloging, standardization, requirements determination, procurement, inspections, quality control, packaging, storage, distribution, disposal, maintenance, mobilization planning. Encompasses materiel control, inventory control, inventory management, and supply management.	2,6
Materiel Management Aggregation Code - AF (MMAC). See DRN 2836, volume 12.	1,13

Volume(s)

- Materiel Manager (MM).** The director or organizational component responsible for performing the materiel management functions for assigned items. 1
- Mechanization of Warehousing and Shipment Processing (MOWASP).** A uniform data system designed to maintain consolidated freight location data and shipment handling information. 6
- Military Service-Controlled Commercial Items.** End items, assemblies, components, and parts (including testing and handling equipment) which, due to the nuclear weapons reliability concept, require special testing or control for quality assurance. The items or the data for the items are available only from the design controlling military activity; they may be categorized as "war-reserve quality" or "single quality". They are not security classified and are not commodity classified in FSC group 11. Item identifications for these items will reflect a reference number coded with CAGE Codes 57991, 67991, or 77991. 4
- Military Service Special Design Items.** End items, assemblies, components, and parts (including testing and handling equipment), designed or manufactured by a Military Service or design controlled by a Military Service, for use specifically in the nuclear ordnance field. The items or the data for the items are available only from the design controlling military activity; they may be categorized as "war-reserve quality", "training quality", or "single quality". They may be security classified or nonsecurity classified and are not necessarily classified in FSC group 11. 4
- Military Specification (MILSPEC).** A procurement specification in the military series promulgated by one or more of the military agencies and used for the procurement of military supplies, equipment, or services. 3
- Military Standard (MILSTD).** An established or accepted level of performance in the military used as a yardstick in evaluating actual progress. 2,3,4,7
- Military Standard Contract Administration Procedure (MILSCAP).** MILSCAP will provide uniform procedures, rules, formats, time standards, and standard data elements for the interchange of contract related information between and among DoD components and contractors. The provisions of the Armed Services Procurement Regulation are to be implemented in machine processable form, where feasible, in MILSCAP. The system administrator and the chairman of the ASPR Committee will assure compatibility between the two procedures. 1,7,15
- Military Standard Item Characteristics Code Structures (MILSTICCS).** The coding structure used to code characteristics data for item identifications, transmission, storage, and processing. 3,15

Military Standard Requisitioning and Issue Procedures (MILSTRIP). MILSTRIP will prescribe uniform procedures, codes, formats, documents, and time standards for the interchange of requisitioning and issue information for all materiel commodities (unless specifically exempted by the ASD (MRA&L)) between requisitioners and supply control/distribution systems in DoD and other participating agencies. MILSTRIP will include the applicable provisions of the Uniform Materiel Movement and Issue Priority System (UMMIPS). 6

Military Standard Transaction Reporting and Accounting Procedures (MILSTRAP). MILSTRAP will prescribe uniform procedures, data elements, documents, and time standards for the flow of inventory accounting information pertaining to receipt, issue, and adjustment actions between inventory control points, stock control activities, storage sites/depots, and posts, camps or bases (unless specifically exempted by the ASD (MRA&L)). Card formats and data elements employed in MILSTRAP will be designed to complement the techniques prescribed in MILSTRIP and to provide the means for generating financial inventory data required for management and transaction reports and financial reports.

Military Standard Transportation and Movement Procedure (MILSTAMP). The MILSTAMP DoD Regulation will contain all necessary forms, formats, codes, procedures, rules, and methods required by DoD components in the movement of materiel. It is a complete reference for policy and procedures governing data elements, documentation and information flow. Supplementing procedures are authorized only to the extent of assuring more detailed operating instruction required by action offices or to cover variances in capabilities.

Prescribed address-marking data elements, formats, and requirements are contained in MILSTAMP and will be reflected in MIL-STD-129, Military Standard Marking for Shipment and Storage, which is maintained by the Department of the Army. MILSTAMP will include the applicable provisions of the Uniform Materiel Movement and Issue Priority System (UMMIPS).

Military Traffic Management Command (MTMC). A command under the Department of the Army responsible for procurement, use, cost, and control of commercial transportation services required in the movement of cargo and passengers for the DoD components. 1,2,4,6,15

MINIMIZE. A condition wherein normal message and telephone traffic is drastically reduced in order that messages connected with an actual or simulated emergency shall not be delayed. 2,4

MOE Rule Related Data. Consists of Item Management Status Data and the NIMSC Code, AF Materiel Management Aggregation Code, supplementary data collaborators/receivers, Item Management Code, the IMCA, and effective date. 2,4,6

National Codification Bureau (NCB) Code. See DRN 4130, volume 12. 4

National Item Identification Number (NIIN). See DRN 4000, volume 12. All

	Volume(s)
National Motor Freight Classification Code (NMFC). See DRN 2850, volume 12.	1,2,6,15
National Stock Number (NSN). See DRNs 3960, 0126, 8525, 4120, 4150, 0260, 2895, 8875, 8869, 8878, and 8977, volume 12.	1,2,3,4, 5,6,13,14,15
NATO Stock Number (NSN). An item of supply produced by a NATO member nation other than the U.S. identified by that nation by the assignment of a NATO Stock Number (e.g., 0000-21-000-0000). When such items enter the supply system of the U.S. Government, they will be identified by the NATO Stock Number if codification agreements have been extended to provide for acquisition of foreign item identification data through DLSC. For such items, the NATO Stock Number will be used and recognized as the National Stock Number in internal management of the item in the U.S.	1,4,6
NATO Supply Code for Manufacturers (NSCM). See DRN 4140, volume 12.	1,4,5,7,15
Navy Cognizance Code. See DRN 2608, volume 12.	1,13
Next Higher Classifiable Assembly. This term is understood to mean the next higher assembly on or with which the item is used as a subassembly, part, attachment, or accessory. The term "higher assembly" is used for brevity and may actually include components, sub-assemblies, assemblies, and end items or systems.	4
Nominal Value. A value, excluding tolerance, used for the purpose of general identification usually expressed as a fraction, size number or letter, code number, gage number, or decimal number.	
Non-Approved Item Name (NAIN). See DRN 5020, volume 12.	3
Non-Duplicate (NDUP). When the item identification is sufficiently close to, but not an actual duplicate characteristically of, an existing Federal item identification and there are no matching reference numbers.	4
Normal Source of Procurement. See DRN 0721, volume 12.	
Nuclear Hardness Critical Item (NHCI). As defined in DoD-STD-100C. A hardware item at any assembly that is mission critical and could be designed, repaired, manufactured, installed or maintained for normal operation, and yet degrade system survivability in a nuclear environment if hardness were not considered.	10
On Hand/Due In. See DRN 0722, volume 12.	
Operational Feasibility. The determination of whether a data system change will operate properly and be properly used once developed and implemented.	1
Operational Need Date. See DRN 0726, volume 12.	
Optical Character Recognition (Reader) (OCR). A data processing technique (device) which converts, by optical means, the characters placed on paper into a code suitable for input to a computer.	1,2,7

	Volume(s)
Organizational Entity (O.E.). An organizational element, segment, or entity for cataloging; DoDAAC, bidders, manufacturing, or nonmanufacturing activity or establishment, etc.; and attribute data ascribed in the entity for the purpose of intensifying its meaning, characteristics, responsibility, eligibility, and area(s) of authority.	1,3,4,5,6,7, 14,15
Original Federal Item Identification. An item identification which has been approved by the Defense Logistics Services Center and assigned a National Stock Number, but which has not been revised, transferred, or cancelled.	4
Originating Activity. Any participating activity which originates proposed new or revised cataloging tools and/or proposed new or revised item identifications and related data for submittal directly or indirectly to DLSC for approval. It may be a managing activity which prepares its own catalog data for submittal or may be another activity functioning as a catalog agent for the managing activity. In those cases where the originating activity is authorized to submit proposals directly to DLSC rather than through an intermediate monitoring activity (e.g., Defense Supply Center; Defense Nuclear Agency), the originating activity assumes the status also of a submitting activity.	2,4,5,6
Originating Activity Code. See DRN 4210, volume 12.	1,4,5,6,15
Output Data Request Code (ODRC). See DRN 4690, volume 12.	1,2,4,5,6
Package Sequence Number (PSN). See DRN 1070, volume 12.	1,2,4,5,7,14
Partial Descriptive Method Item Identification (PDM). A Partial Descriptive Method (PDM) of item identification is a type 4 item identification which contains one or more characteristics in addition to the item name but does not contain all characteristics required for an FDM.	2,4,14
Permanent System Control Number (PSCN). See DRN 4250, volume 12.	1,2,4,5,6,15
Physical Security/Arms, Ammunition and Explosives Security Risk/Pilferage Codes. See DRN 2863, volume 12.	15
Possible Duplicate Item-of-Supply Concepts. An item-of-supply concept expressed by an existing item identification shall be considered a possible duplicate of a concept expressed by a proposed item identification or another existing item identification when (1) there is enough similarity in descriptive data and/or (2) there is one or more common reference number(s) related to each item to indicate that the same item of production is involved, or that the one single concept is adequate or may be established to identify the item of supply. Such cases warrant reference to the managing activity(ies) for verification of descriptive and/or reference data. Reconciliation of such data normally will result in revision of one or both concepts to more clearly differentiate the items or in a proposal to cancel one of the item identifications as an actual duplicate, as invalid, or to use the other item identification (cancel-use).	4

Volume(s)

Precious Metal Indicator Code (PMIC). A code indicating the presence of precious metals (Gold, Silver, Platinum or a combination).	8,9,10,15
Price Validation Code, Air Force (PVC). See DRN 0858, volume 12.	
Primary Inventory Control Activity (PICA). See DRN 2866, volume 12.	1,2,4,5, 6,13,14
Primary Reference Number. The number used to identify an item of production or a range of items of production by the manufacturer (individual company, firm, corporation, or Government activity) which controls the design, characteristics, and production of the item through its engineering drawings, specifications, and inspection requirements. The number is the "design control reference".	4
Priority Indicator Code (PIC). See DRN 2867, volume 12.	2,4,5,14
Procurement Method Code (PIC). See DRN 2871, volume 12.	6,14
Procurement Method Suffix Code (PMSC). See DRN 2876, volume 12.	6,14
Production Lead Time. See DRN 0730, volume 12.	
Proposed Original Item Identification. An item identification for an item in or entering a supply system which has not yet been approved by the Defense Logistics Services Center (DLSC) as a Federal item identification assigned a National Stock Number.	2,4
Provisioning Screening Master Address Table (PSMAT). See DRN 0232, volume 12.	1,5,7
Provisioning Supply Support Request. Indicated by Card Identification Code P to show that a Supply Support Request received by the IMM from an ICP is the origin of the request when the item is in an FSC class subject to IMC.	2,6
Qualitative Value. The portion of a reply that expresses quality such as color, shape, material, condition, etc.	3
Quantitative Value. The portion of a reply which expresses a numeric value for such characteristics as dimensions, measure, magnitude, electrical rating, etc.	3
Quantity Unit Pack (QUP). See DRN 6106, volume 12.	6,15
Rail Variation Code. See DRN 4760, volume 12.	1,2,6,15
Reactivation Coding. Application of the approved IMC criteria by the ICPs to inactivated NSNs for which a IMM was the last manager, and the ICP is not currently recorded as a user.	6
Receiver Code. See DRN 2534, volume 12.	

	Volume(s)
Record Separator. The symbol used to indicate the completion of a characteristic reply or to indicate end of record.	16
Reference Method of Item Identification (RM). The reference method of item identification establishes and delimits the concept of an item of supply by reference(s) to the item-identifying number(s) of one or more manufacturers denoting the item or items of production included under the concept. Thus, under the reference method the essential characteristics of the item of supply are not delineated in the item identification but are ascertainable by research of the data represented by the manufacturers item-identifying number(s).	2,4,6,14
Reference Number. A reference number is any number, other than an activity stock number, used to identify an item of production or, either by itself or in conjunction with other reference numbers, to identify an item of supply. Reference numbers include manufacturers part, drawing, model, type, source-controlling, or specification-controlling numbers and the manufacturers trade name, when the manufacturer identifies the item by trade name only; NATO Stock Numbers; specification or standard part, drawing, or type numbers. The submittal of all known reference numbers related to an item of production or an item of supply, with the applicable Reference Number Category Code, the applicable Document Availability Code, and the applicable Reference Number Variation Code, is mandatory.	2,4,5,14,15
Reference Number Action Activity Code (RNAAC). See DRN 2900, chapter 12.2.	1,4
Reference Number Category Code (RNCC). See DRN 2910, chapter 12.2.	2,4,5,6,15
Reference Number Category Code Combination. Consists of the Reference Number Category Code (RNCC), Reference Number Variation Code (RNVC), and Document Availability Code (DAC) as expressed in volume 10, table 8.	
Reference Number Format Code (RNFC). See DRN 2920, chapter 12.2.	4,5
Reference Number Justification Code (RNJC). See DRN 2750, chapter 12.2.	1,4
Reference Number Status Code (RNSC). See DRN 2923, chapter 12.2.	
Reference Number Variation Code (RNVC). See DRN 4780, chapter 12.2.	2,4,5,15
Reference/Partial Descriptive Method Reason Code (RPDMRC). See DRN 4765, chapter 12.2.	1,2,4
Reinstated Federal Item Identification. A Federal item identification which has been cancelled but which has subsequently been reauthorized for use to identify an item of supply.	4,6
Remote Output Format Code. See DRN 0841, chapter 12.2.	16
Reparability Code - Coast Guard. See DRN 0709, chapter 12.2.	1
Reply. A reply (data item) is the answer to a specific requirement.	3,4

Volume(s)

Reply Code. A code that represents an established reply to an approved requirement.	3,4
Reply Table. A listing of replies (data items) applicable to a requirement or group of requirements derived from a single data element. Each reply in the table is assigned a different reply code.	3,4
Report Control Symbol (RCS). Set of letters and numbers which identifies an approved report and authorizes its initiation and preparation.	2,14
Reports Generator. Designed to produce one-time listings or reports from the FLIS files.	1,5
Requirement. A definition of a required characteristic.	3,4
Requirement, Lead-In. A general requirement identifying and providing guidance for reply to a specific range of following requirements. A lead-in requirement is never assigned a MRC, nor does it ever require a reply.	3
Requirement, Major. A requirement which, in addition to requiring a reply, may necessitate replies to succeeding subordinate requirements (subrequirements) dependent upon the specific reply given to the major requirement (see definition of Requirement, Lead-In and Requirement, Subordinate).	3
Requirement, Subordinate. A requirement for which the reply is dependent on a lead-in requirement or major requirement (also termed "subrequirement").	3
Retail Manager (RM). A materiel manager or another designated activity within a Military Service/Agency having retail responsibility for an item of supply where the wholesale materiel management functions are performed by a IMM, including DNA, NSA, and TACOM.	6
Retroactive Coding. Scheduled application of the approved IMC criteria by the ICPs to item(s) in FSC classes designated as commodity oriented which were previously coded for Service retention.	6
Return Coding. A request to effect the return of an item currently coded for Integrated Materiel Management to Service management by the application of IMC criteria.	6
Routine Reclassification Action. Indicated by Card Identification Code F to show that DLSC has reclassified an item from a weapons system oriented to a commodity oriented FSC class and IMC criteria must be applied.	6
Routing Identifier Code (RIC). A group of letters or numbers assigned to indicate the geographic location of a station, a fixed headquarters of a command, activity, or unit at a geographic location, and the general location of a tape relay or tributary station to facilitate the routing of traffic over the tape relay networks.	1,2,6
Secondary Address Code (SAC). See DRN 8990, chapter 12.2.	1,3,4
Secondary Address Indicator Code (SAIC). See DRN 9485, chapter 12.2.	3

	Volume(s)
Secondary Inventory Control Activity (SICA). See DRN 2938, chapter 12.2.	1,2,6,13,14
Service/Agency Designator Code (SADC). See DRN 4672, chapter 12.2.	2,4,15
Service Item Control Center (SICC). An activity which: (1) serves as a Military Service focal point for resolution of support problems for required weapons systems oriented consumable items managed by another Military Service; (2) performs such residual technical functions as configuration control, item qualitative acceptability, allowance list preparation, and maintenance of internal program support responsibility; and (3) provides assistance to the IMM, as necessary, to support requiring Service users on a timely basis.	2,6,13,14
Shelf Life Code (SLC). See DRN 2943, chapter 12.2.	6,15
Simplified File Maintenance (SFM). FLIS output consisting of a monthly maintenance update, a cumulative monthly basic record, and semiannual basic replacement record for activity files shall be provided for Federal Item Identification Data and Catalog Management Data. It shall be distributed in NIIN sequence to authorized subscribing activities on magnetic tapes via mail. Data furnished from two or more functional areas shall be sequenced together.	1,2
Single Quality Items. Items (such as nuclear ordnance test and handling equipment) authorized for use on or with both war-reserve and training nuclear weapons.	4
Single Submitting Activity. See DRN 9255, chapter 12.2.	2,4
Source Controlled Federal Item Identification. A type 1, 1B, 2, 4, or 4B Federal item identification (original, revised, transferred, or reinstated) representing one or more specific manufacturer's items of production certified by an end item manufacturer, or by a Government activity, to be the only known items suitable for the specific application.	4
Source of Supply Code (SOS). See DRN 3690, chapter 12.2.	4,5,6,14,15
Source of Supply Modifier Code (SOSM). See DRN 2948, chapter 12.2.	6
Specially Designed Item. The term "specially designed item" is an abbreviation of the term "specifically designed for specific use on or with specific individual types of equipment" as used in the notes in Cataloging Handbooks H2-1 and H2-2. In order to be accepted as specially designed, an item does not have to be designed specifically for use on a single piece or single model of equipment; the item may be designed for use with categories of equipment, such as all kinds of printing presses, all kinds of diesel engines.	4
Special Packaging Requirement. See DRN 0725, volume 12.	
Standard Requirement. A lengthy requirement which, because it is used repeatedly in many patterns, has been put in standardized form.	4

Volume(s)

Standard Test Data Base (STDB). Maintained at DLSC with data input by Services/Agencies participating in the interface test program.	1
Statistical Indicator Code. See DRN 3708, volume 12.	
Submitted Package Sequence Number (SPSN). See DRN 8328, volume 12.	
Submitter Code. See DRN 2535, volume 12.	
Submitting Activity. Any participating activity which submits proposed catalog data directly to DLSC for approval. The submitting activity may be the activity which originates the catalog data or an intermediate monitoring activity (e.g., Defense Supply Center; Defense Nuclear Agency) through which the originating activity is required to submit its proposals to DLSC.	1,2,3,4, 5,6,7
Submitting Activity Code. See DRN 3720, volume 12.	1,4,5,15
Supply Management Data. Item data which do not affect NSN assignment but are necessary to support logistics functions.	3,6
Supply Support and Cataloging Action Request. Indicated by Card Identification Code V to show that an SSR other than provisioning received by the IMM from an ICP is the origin of the request when the item is in an FSC class subject to IMC.	6
Supply Support Request (SSR). A request submitted by the activity responsible for supporting an end item being provisioned to a Integrated Materiel Manager which manages some of the support items or is a potential manager of some new support items used in the end item.	2,6
Suspense File. The portion of the process control sector (SSR) which will serve as a temporary repository of unique information of functional value to the Service/Agency for the implementation of a logistics data transaction within DLSC.	1,4,5
System Advisory Notice (SAN). Notification to Services/Agencies of the SCRs scheduled for implementation in a given SMR. The SAN will be published approximately 300 days prior to a scheduled implementation date.	1
System Change Request (SCR). A formal request for modification of the FLIS. The SCR will be assigned one of the following priorities.	1,6,15
a. Routine - an SCR requiring at least 45 calendar days for Service/Agency coordination and distribution of the system change by DLSC a minimum of 180 days prior to implementation.	
b. Expedite - an SCR requiring at least 45 calendar days for Service/Agency coordination and distribution of the system change by DLSC a minimum of 90 days prior to implementation.	
c. Emergency - an SCR required to maintain the operational status of FLIS.	
System Control Number (SCN). See DRN 3735, volume 12.	4,6

	Volume(s)
System Management Release (SMR). Notification to Services/Agencies of a scheduled change that will be implemented. The SMR will be published approximately 240 days prior to a scheduled implementation date.	1
System Support Record (SSR). The segment of the FLIS data bank containing the sum total of information (guides, program subroutines, tables, rules, controls, statistics, codes, terms) required to support or specify the content and utilization of the FLIS data base. The SSR is comprised of the following files: Organizational Entity, Item Name, FSC, FIIG/DP/Guide, Table Look-Up, Graphics, Process Control, Mass Changes to FLIS data base, Mass Data Retrieval, and Tailored Data Interrogations.	1,2,5,6,7, 13,14,15
Technical Feasibility. The determination of whether the development of a data system change is possible within the limits of available technology.	1
Training Quality Items. Items designated for use on or with training nuclear weapons or on nuclear ordnance test and handling equipment but not authorized for use on war-reserve nuclear weapons.	4
Type of Cargo Code. See DRN 9260, volume 12.	1,2,15
Type of Financial Management Control. See DRN 0729, volume 12.	
Uniform Freight Classification Code (UFC). See DRN 3040, volume 12.	1,2,6,15
Unit of Issue (U/I). See DRN 3050, volume 12.	2,6,14,15
Unit of Issue Conversion Factor. See DRN 3053, volume 12.	6
Unprocessable Transaction. Transactions which did not contain the minimum essential control elements required for processing. These transactions are not queued for further processing and are not retained in the FLIS files.	1,2,4,6
Using Service Code. See DRN 0745, volume 12.	
Voluntary Standard. A product standard developed under procedures published by the Department of Commerce. Its adoption by a particular industry, company, or organization is voluntary. It is used as a standard for the procurement and production of a product.	6
War-Reserve Quality Items. Items authorized for use on or with war-reserve nuclear weapons but not designated for use on training nuclear weapons or test and handling equipment.	4
Water Commodity Code. See DRN 9275, volume 12.	1,2,15
Weapons Integrated Materiel Manager (WIMM). The Military Service Inventory Control Point (ICP) which performs the DoD integrated materiel management functions for assigned consumable items.	2,5,6,13,14

form seven typed spaces from the left imprinted margin.

(c) Double line-spacing will separate all names. Use single line-spacing between a name and its delimitation and within the body of the delimitation.

(d) Capitalization shall follow procedures explained in section 3.2.4 above to distinguish between Basic Names, Approved Item Names, and Colloquial Names.

(e) Label individual name actions within each proposal "ADD;," "REVISE DEFINITION;," "CANCEL;," "REPLACED BY;," or other notation to identify the action. (See Appendix 3-2-C thru 3-2-I.)

(f) Organize proposals that include both add and cancel actions so that all cancellations follow the additions.

(5) **APPLICABILITY KEY:** Enter the letter(s) indicating the FIIG Applicability Key on the same line as the name to which it applies. Utilize Applicability Key "A" for all name requests pertaining to FIIG A238 and FIIG A239. For new concept FIIGs enter N/A (not applicable).

(6) **FSC NUMBER:** Enter the four-digit Federal Supply Class on the same line as the name for which it is recommended. Beneath this number enter in parentheses the appropriate Condition Code. List specified FSCs for Condition Code 2 with an FSC Modifier (in lower case) on the same line. List all modifiers for Condition Code 2 FSCs regardless of action. List the FSCs in numeric order, (See Appendix 3-4-A thru B.)

(7) **TAILORED CHARACTERISTICS:** The five DLA Centers participating in the Tailored Characteristics program, DCSC, DESC, DGSC, DISC

AND DPSC (Medical), must include the MRCs, in desired output order, for inclusion into the Tailored Characteristics Table. When no output required, enter "No Tailored Data Required."

(8) **Page Notation.** Use additional copies of the DD Form 180 as continuation forms when required to complete the listing of all name proposals applicable to a FIIG. Number all forms (e.g., PAGE 1 OF 5 PAGES) at the bottom of the form.

b. **Accelerated Name Assignment Procedure (ANAP).** This procedure is for NATO USE ONLY and developed to expedite the assignment of new Approved Item Names to facilitate NSN assignment. DLSC will coordinate names processed via ANAP with the FIIG Initiator and FSC Manager. (Drugs, medical, and subsistence items are exempt from ANAP.)

(1) **Processing Criteria.**

(a) The proposal must be a request for a new item name.

(b) The proposed name must use an existing FIIG Applicability Key.

(c) The proposal must not require change of the FIIG document, other than addition of the name itself (e.g., no new MRCs or reply codes).

(d) A delimitation must be uncluded in accordance with paragraph 3.2.4.b.

(2) **Methods for Transmittal.** All proposals must include the information required for completion of the DD Form 180 outlined in 3.2.5.a. above plus the CAGE Code (DRN 9250) and Logistics Reference Number (DRN 3570).

(a) DLSC will process proposals forwarded to DLSC-SCB via mail that meet the criteria for ANAP within eight working days from receipt of request to

the response to the submitter. Format is the same as described in 3.2.5.a.

(b) Telephone submittals should use *DSN* 932-4325, FTS 552-4325, or commercial Area Code (616) 961-4325.

(c) Address Electronically Transmitted Messages (ETM) to DLSC, Battle Creek, MI., ATTN: DLSC-SCB.

(d) Address FAX messages to DLSC-SCB, at *DSN* 932-4352, FTS 552-4352, or commercial Area Code (616) 961-4352.

c. 5-Day Name Assignment. Established for U. S. Activities using FIIGs A238 or A239 only.

(1) Processing Criteria.

(a) The proposal must be a request for a new item name.

(b) Originator must coordinate, resolve differences and document all actions prior to submission to DLSC. The submittal must show, on the proposal, the FIIG Initiator, FSC Manager and phone number and name of person concurring, if different than submitting activity.

(c) The proposal must be a request within an existing FSC.

(d) The proposal must not require change of the FIIG document, other than addition of the name itself (e.g., no new MRCs or reply codes).

(2) Methods for Transmittal. All proposals must include the information required for completion of the DD Form 180 outlined in 3.2.5.a. above. Must come in on RAPIDENT or FAX at *DSN* 932-4352, FTS 552-4352, or commercial Area Code (616) 961-4352.

3.2.6 Item Name Coordination.

a. Submitting activities will coordinate new names with FSC Manager(s) and FIIG Initiator prior to submittal to DLSC. Upon receipt of the new name proposal, DLSC will review the submittal for compliance with procedures, format, and possible duplication and assign the Item Name Code (INC). When required, DLSC will coordinate the revised name proposal with those services, agencies, and users affected by the change(s) to solicit concurrence or nonconcurrence and comments.

(1) Normally a proposed action to a revised name having more than (15) fifteen users shall require a C/C Distribution letter to notify all activities participating in the Federal Catalog System. We require a response within a 30-day timeframe.

(2) Normally when fifteen (15) or fewer activities have an interest in a revised name proposal, DLSC will coordinate the action with only those activities. We require a Response to a coordination letter, normally within 30 days.

(3) DLSC will coordinate proposals concerning drugs and medical items with at least the Defense Personnel Support Center (DPSC) and the Veterans Administration (VA) and coordinate proposals concerning subsistence items with at least the VA, DPSC and the United States Department of Agriculture (USDA).

(4) DLSC will coordinate name proposals with NATO and other countries when a restriction occurs. We require a response within a 45-day timeframe (e.g., going from a Condition Code 2 to a Condition Code 1).

b. DLSC processes Item Names within a 5-180 day timeframe which may include collaboration/coordination reconciliation, edit update, system changes and publications.

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 9
METRIC CONVERSION CHART

ORIGINAL VALUE		DESIRED VALUE								
		<u>Giga</u>	<u>Mega</u>	<u>Kilo</u>	<u>*Unit</u>	<u>Deci</u>	<u>Centi</u>	<u>Milli</u>	<u>Micro</u>	<u>Pico</u>
<u>PREFIX</u>	<u>POWER of 10</u>	10 ⁹	10 ⁶	10 ³	10 ⁰	10 ⁻¹	10 ⁻²	10 ⁻³	10 ⁻⁶	10 ⁻¹²
Giga	10 ⁹		3 -->	6 -->	9 -->	10 -->	11 -->	12 -->	15 -->	21 -->
Mega	10 ⁶	<-- 3		3 -->	6 -->	7 -->	8 -->	9 -->	12 -->	18 -->
Kilo	10 ³	<-- 6	<-- 3		3 -->	4 -->	5 -->	6 -->	9 -->	15 -->
*Unit	10 ⁰	<-- 9	<-- 6	<-- 3		1 -->	2 -->	3 -->	6 -->	12 -->
Deci	10 ⁻¹	<-- 10	<-- 7	<-- 4	<-- 1		1 -->	2 -->	5 -->	11 -->
Centi	10 ⁻²	<-- 11	<-- 8	<-- 5	<-- 2	<-- 1		1 -->	4 -->	10 -->
Milli	10 ⁻³	<-- 12	<-- 9	<-- 6	<-- 3	<-- 2	<-- 1		3 -->	9 -->
Micro	10 ⁻⁶	<-- 15	<-- 12	<-- 9	<-- 6	<-- 5	<-- 4	<-- 3		6 -->
Pico	10 ⁻¹²	<-- 21	<-- 18	<-- 15	<-- 12	<-- 11	<-- 10	<-- 9	<-- 6	

*The notation "unit" represents the basic unit of measurement, such as amperes, farads, grams, hertz, meters, ohms, volts, watts, etc.

To convert from one notation (metric or a power of ten) to another, locate the original or given value in the left-hand column. Follow this line horizontally to the vertical column headed by the desired notation. The figure and arrow at the intersection of these two columns indicates the direction and number of places the decimal point is to be moved (e.g., to convert 25,000 kilohertz to megahertz, at the intersection of the horizontal column for kilo and the vertical column for mega find the figure and directional arrow <-- 3. Thus, shifting the decimal in 25,000 kilohertz 3 places to the left results in the value of 25 megahertz).

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 10
DECIMAL AND METRIC EQUIVALENTS

DECIMAL AND METRIC EQUIVALENTS OF FRACTIONS OF AN INCH

Frac- tion	1/32ds	1/64ths	Decimal	Milli- meters	Frac- tion	1/32ds	1/64ths	Decimal	Milli- meters
		1	.015625	0.3968			27	.421875	10.7154
	1	2	.03125	0.7937	7/16	14	28	.4375	11.1122
		3	.046875	1.1906					
1/16	2	4	.0625	1.5875			29	.453125	11.5091
						15	30	.46875	11.9060
		5	.078125	1.9843			31	.484375	12.3029
	3	6	.09375	2.3812	1/2	16	32	.5	12.6997
		7	.109375	2.7780			33	.515625	13.0966
1/8	4	8	.125	3.1749		17	34	.53125	13.4934
							35	.546875	13.8903
		9	.140625	3.5718	9/16	18	36	.5625	14.2872
	5	10	.15625	3.9686					
		11	.171875	4.3655			37	.578125	14.6841
3/16	6	12	.1875	4.7624		19	38	.59375	15.0809
							39	.609375	15.4778
		13	.203125	5.1592	5/8	20	40	.625	15.8747
	7	14	.21875	5.5561					
		15	.234375	5.9530			41	.640625	16.2715
1/4	8	16	.25	6.3498		21	42	.65625	16.6684
							43	.671875	17.0653
		17	.265625	6.7467	11/16	22	44	.6875	17.4621
	9	18	.28125	7.1436					
		19	.296875	7.5404			45	.703125	17.8590
5/16	10	20	.3125	7.9373		23	46	.71875	18.2559
							47	.734375	18.6527
		21	.328125	8.3342	3/4	24	48	.75	19.0496
	11	22	.34375	8.7310					
		23	.359375	9.1279			49	.765625	19.4465
3/8	12	24	.375	9.5248		25	50	.78125	19.8433
							51	.796875	20.2402
		25	.390625	9.9216	13/16	26	52	.8125	20.6371
	13	26	.40625	10.3185					

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

Table 12

2AK	Identifies Inner Ring
AL5086	1st Material (input)
\$\$	AND Coding
ST4130	2nd Material

(B) MDCL2AKJBBQQ-A-250/7, T4\$\$JBCQQ-S-634, COND CD*

2AK	Identifies Inner Ring
B	Fed Spec Identifier (Table 1)
B	1st Material Response Identifier (Table 2)
QQ-A-250/7,T4	1st Material Spec/Std
\$\$	AND Coding
B	FedSpec Identifier (Table 1)
C	2nd Material Response Identifier (Table 2)
QQ-S-634,COND CD	2nd Material Spec/Std

DECODE OUTPUT:

MATERIAL----ALUMINUM ALLOY 5086 and STEEL COMP 4130 INNER RING

MATT Document and Classification----FED SPEC QQ-A-250/7, T4 1st Material Response and
FED SPEC QQ-S-634, COND CD 2nd Material Response Inner
Ring

EXAMPLE 2

Incorrect use of Table 1, MRCs MDCL and STDC

(A) CODED INPUT - OUTER RING

MATT2AMDAL5086\$\$DST1040\$DAL2024\$\$DST4130*

2AM	Identifies Outer Ring
AL5086	1st Material (input)
\$\$	AND Coding
ST1040	2nd Material (input) (No Spec/Std)
\$	OR Coding

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIIG

FIIG SAMPLE
INC 00000
APPENDIX C

Table 12

AL2024	3rd Material (input)
\$\$	AND Coding
ST4130	4th Material (input)

(B) MDCL2AMJBBQQ-A-250/7, T4\$\$JBCQQ-A-250/5\$\$JBDQQ-S-634*

2AM	Identifies Outer Ring
B	Fed Spec Identifier (Table 1)
B	1st Material Response Identifier (Table 2)
QQ-A-250/7, T4	1st Material Spec/Std
\$\$	AND Coding
B	Fed Spec Identifier (Table 1)
C	2nd Material Response Identifier (Table 2)
QQ-A-250/5	2nd Material Spec/Std
\$	OR Coding
B	Fed Spec Identified (Table 1)
D	3rd Material Response Identifier (Table 3)
QQ-S-634	3rd Material Spec/Std

DECODED OUTPUT - OUTER RING

MATERIAL----ALUMINUM, ALLOY 5086 AND (1st Material)
STEEL, COMP 1040 OR (2nd Material)
ALUMINUM, ALLOY 2024 AND (3rd Material)
STEEL, COMP 4130 OUTER RING (4th Material)

MATERIAL DOCUMENT AND CLASSIFICATION----

FED SPEC QQ-A-250/7, T4 1st Material Response AND (Matches the 1st input)
FED SPEC QQ-A-250/5 2nd Material Response OR
FED SPEC QQ-S-634 3rd Material Response Outer Ring

(Does not match 2nd input MATT as no Spec/Std Outer Ring data reflected the material, therefore, 3rd input does not match)

The decoded data for Example 2 has no meaningful relationship due to improper use of Table 1, as the Spec/Std are erroneous for the recorded data.

The input to MRCs MATT and SFTT must be identified consecutively within each data chain, utilizing Table 2.

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

TABLE 20
DECIMAL AND METRIC EQUIVALENTS

DECIMAL AND METRIC EQUIVALENTS OF FRACTIONS OF AN INCH

Fraction	1/32ds	1/64ths	Decimal	Milli-meters	Fraction	1/32ds	1/64ths	Decimal	Milli-meters
		1	.015625	0.3968			27	.421875	10.7154
	1	2	.03125	0.7937	7/16	14	28	.4375	11.1122
		3	.046875	1.1906			29	.453125	11.5091
1/16	2	4	.0625	1.5875		15	30	.46875	11.9060
		5	.078125	1.9843			31	.484375	12.3029
	3	6	.09375	2.3812	1/2	16	32	.5	12.6997
		7	.109375	2.7780			33	.515625	13.0966
1/8	4	8	.125	3.1749		17	34	.53125	13.4934
		9	.140625	3.5718	9/16	18	35	.546875	13.8903
	5	10	.15625	3.9686			36	.5625	14.2872
		11	.171875	4.3655			37	.578125	14.6841
3/16	6	12	.1875	4.7624		19	38	.59375	15.0809
		13	.203125	5.1592	5/8	20	39	.609375	15.4778
	7	14	.21875	5.5561			40	.625	15.8747
		15	.234375	5.9530			41	.640625	16.2715
1/4	8	16	.25	6.3498		21	42	.65625	16.6684
		17	.265625	6.7467	11/16	22	43	.671875	17.0653
	9	18	.28125	7.1436			44	.6875	17.4621
		19	.296875	7.5404			45	.703125	17.8590
5/16	10	20	.3125	7.9373		23	46	.71875	18.2559
		21	.328125	8.3342	3/4	24	47	.734375	18.6527
	11	22	.34375	8.7310			48	.75	19.0496
		23	.359375	9.1279		25	49	.765625	19.4465
3/8	12	24	.375	9.5248			50	.78125	19.8433
		25	.390625	9.9216	13/16	26	51	.796875	20.2402
	13	26	.40625	10.3185			52	.8125	20.6371
							53	.828125	21.0339

APPENDIX 3-3-B
SAMPLE OF NEW CONCEPT FIG

FIG SAMPLE
INC 00000
APPENDIX C

TABLE 20

Fraction	1/32ds	1/64ths	Decimal	Milli-meters	Fraction	1/32ds	1/64ths	Decimal	Milli-meters
	27	54	.84375	21.4308	15/16	30	60	.9375	23.8120
		55	.859375	21.8277					
7/8	28	56	.875	22.2245			61	.953125	24.2089
						31	62	.96875	24.6057
		57	.890625	22.6214			63	.984375	25.0026
	29	58	.90625	23.0183	1	32	64	1.	25.3995
		59	.921875	23.4151					

CHAPTER 5 DEPARTMENT OF DEFENSE AMMUNITION CODES

3.5.1 Purpose. This chapter will describe the Department of Defense Ammunition Code (DoDAC) and the procedures for its development. The DoDAC system provides uniform, centrally assigned code numbers for generic descriptions applicable to items of supply identified under the Federal Catalog System in Federal Supply Classification Group 13 (Ammunition and Explosives) and Group 14 (Guided Missiles).

3.5.2 Structure. The DoDAC is a nine-position, semi-significant number consisting of the four-position FSC number, a hyphen, and a four-position code (DoDIC) assigned to each generic description within the FSC. The last four characters may be one alpha followed by three numerics (e.g., D548) or two alphas followed by two numerics (e.g., PA38).

3.5.3 Development. DoDACs are centrally assigned by DLSC to generic descriptions submitted by using activities. Each description consists of an Approved Item Name, appropriate FSC, and the common characteristics of items in FSG 13 or 14 which are functionally interchangeable and therefore treated collectively in normal supply operations. A

code number initially assigned to a generic description covering a single item will be used subsequently to cover variations or improvements that are functionally interchangeable with the original item.

3.5.4 Submittal. A request for the additions, revisions, cancellations, and reinstatements of a DoDAC must include the AIN, FIIG, FSC, generic description, and justification.

a. Additions, cancellations, and changes to DoDACs shall be submitted to the Commander, Defense Logistics Services Center, ATTN: DLSC-SC, Federal Center, Battle Creek, MI 49107-3084.

b. Requests for new DoDACs may be submitted to DLSC, *DSN* 932-4670, Commercial Area Code (616) 961-4670, or FTS 552-4670. DoDACs will be confirmed by DLSC.

3.5.5 Publication. DoDACs are published within the FED LOG CD Rom System which is available for monthly updates. The Cataloging Handbook H3, the microfiche publication is no longer published.



DEFENSE LOGISTICS AGENCY
DEFENSE LOGISTICS SERVICES CENTER
74 WASHINGTON AVE N
BATTLE CREEK MI 49017-3084



CHANGE NO. 1
DoD 4100.39-M

CH 1
DoD 4100.39-M
Volume 3

DLSC-VPH
1 April 1995

FEDERAL LOGISTICS INFORMATION SYSTEM (FLIS) PROCEDURES MANUAL

I. Volume 3, DoD 4100.39-M, 1 January 1995, change as follows: Remove pages listed below and insert revised pages. Additions and changes are indicated by *bold-face italic* type. Deletions are indicated in the Significant Changes paragraph below.

	<u>REMOVE OLD</u>	<u>INSERT NEW</u>
Glossary	iii thru xxx	iii thru xxx
Table of Contents	1 and 2	1 and 2

II. SIGNIFICANT CHANGES

A. The page changes are effective upon receipt.

III. This change sheet will be filed in front of Volume 3 for reference purposes after changes have been made.

BY ORDER OF THE DIRECTOR:

LAURENCE E. SIMPSON
Colonel, USMC
Commander
Defense Logistics Services Center

DLSC - The Key to Readiness

Errata

CH 1
DoD 4100.39-M
Volume 3

DISTRIBUTION: Defense Logistics Agency: 41, 42

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GLOSSARY
PART I - ACRONYMS

		Volume(s)			Volume(s)
AAC	Acquisition Advice Code	6,14,15	ANSI	American National Standards Institute, Inc.	2,3,7
ACN	Advance Change Notice, FLIS	1,2	APSN	Association Package Sequence Number	
ADC	Air Dimension Code	15	AQL	Acceptable Quality Level	2,14
ADP	Automatic Data Processing	1,3,4,7	AR	Army Regulation	2,6,13
ADPEC	Automatic Data Processing Equipment Identification Code	6,15	ARC	Accounting Requirements Code	15
ADPP	Automatic Data Processing Point	15	ASCII	American National Standard Code for Information Interchange	2
ADPS	Automatic Data Processing System	1	ASD	Assistant Secretary of Defense	
AEDA	Ammunition Explosive, and Other Dangerous Articles	10	ASPR	Armed Services Procurement Regulation	7
AFFC	Air Force Fund Code		AUTOVON	Automatic Voice Network	1,2,3,4,5,15
AFLC	Air Force Logistics Command	6,13	CAC	Civil Agency Catalog	15
AFM	Air Force Manual	6,13	CAGE	Commercial and Government Entity Code	1,2,4,5,6,7,14,15
AIN	Approved Item Name	3,4,6	CAO	Contract Administration Office	1,15
AINRP	Approved Item Name Reclassification Program	6	CB	Change Bulletin	15
AMC	Acquisition Method Code	6,14	CCAL	Certified Contractor Access List	15
AMSC	Acquisition Method Suffix Code	6,14	CDA	Catalog Data Activity	6

		Volume(s)			Volume(s)
CIC	Card Identification Code, Item Management Coding Content Indicator Code Continuation Indicator Code	4,6,14 2 2	DEMIL	Demilitarization	4,15
			DESC	Defense Electronics Supply Center	2,14
			DFSC	Defense Fuel Supply Center	2,14
CIMM	Commodity Integrated Materiel Manager	1,2,5, 6,13,14	DGSC	Defense General Supply Center	2,14
CIT	Consumable Item Transfer	6	DHCO	Departmental Headquarters Catalog Office	2,14
CMD	Catalog Management Data	1,2,4,5, 6,7,14,15	DIA	Defense Intelligence Agency	13
COM-RI	Communications Routing Identifier	2,6	DIC	Document Identifier Code	1,2,4,6,7, 13,14,15
CSS	Cataloging Statistical Series	2,14	DIPEC	Defense Industrial Plant Equipment Center	1,2,6,7,13
DA	Description Available	15	DISC	Defense Industrial Supply Center	2,14
DAAS	Defense Automatic Addressing System	1,2,6	DLA	Defense Logistics Agency	1,2,4,5,6, 13,14,15
DAASO	Defense Automatic Addressing System Office	1,2,4, 5,6,14	DLAH	Defense Logistics Agency Handbook	
DAC	Document Availability Code	4	DLAR	Defense Logistics Agency Regulation	6,13
DCN	Document Control Number	1,4	DLSC	Defense Logistics Services Center	All
DCSC	Defense Construction Supply Center	2,14	DM	Descriptive Method (Item Identification)	2,14
DCSN	Document Control Serial Number	6	DNA	Defense Nuclear Agency	2,4,6,13,14
DD Form	Department of Defense Form	1,2,3, 4,5,7,15	DNACA	Defense Nuclear Agency Cataloging Activity	4

		Volume(s)			Volume(s)
DoD	Department of Defense	All	EAM	Electronic Accounting Machine	1,2,4,6,7,13
DoDAAC	Department of Defense Activity Address Code		ED	Effective Date	2,6,13
			ELCD	Extra Long Characteristic Description	2,3,4
DoDAAD	Department of Defense Activity Address Dictionary		ELRN	Extra Long Reference Number	2,3,4
DoDAC	Department of Defense Ammunition Code	3	EOJ	End of Job	
			EOT	End of Transmission	2
DoDD	Department of Defense Directive	1	ERRC	Expendability, Recoverability-Reparability Code	
DoDI	Department of Defense Instruction	6,14	ESDC	Electrostatic Discharge Codes	8,9,10,15
DOE	Department of Energy	2,4	FAA	Federal Aviation Administration	1,2,4,6,13
DRMS	Defense Reutilization and Marketing Service	1,15	FC	Foreign Countries	2,4,6
			FD	Functional Description	1
DPSC	Defense Personnel Support Center	2,13,14	FDM	Full Descriptive Method (Item Identification)	2
DRIS	Defense Retail Interservice Support		FG	Foreign Government	4
			FII	Federal Item Identification	2,4,6
DRN	Data Record Number	1,2,4,5,6,7,13	FIIG	Federal Item Identification Guide	1,2,3,4,5,7,14,15
DSC	Defense Supply Center	1,2,4,6	FIND	Federal Item Name Directory	4,15
DSOR	Depot Source of Repair	6	FLIS	Federal Logistics Information System	All

		Volume(s)			Volume(s)
FLIS Data Base	Federal Logistics Information System Data Base	1,2,3,4,5,6,7,13,14	II	Item Identification	1,2,3,4,5,6,13
FMS	Foreign Military Sales	2,13	IIM	Item Intelligence Maintenance	2
FMSN	File Maintenance Sequence Number	2,4,6	ILDT	Item Logistics Data Transmittal	4
FMSO	Fleet Material Support Office	6,13	IMC	Item Management Coding	1,2,6,13,14
FRD	Formerly Restricted Data	4	IMCA	Item Management Classification Activity	2,6
FSC	Federal Supply Classification	1,2,3,4,5,6,13,14,15		Item Management Coding Activity	13,14
FSG	Federal Supply Group	1,5,6,13,14,15	IMM	Integrated Materiel Manager	1,2,4,6,13,14
GIM	Gaining Inventory Manager	2,6	IMMC	Integrated Materiel Management Committee	6
GIMM	Gaining Inventory Materiel Manager	2,6	IMSS	Item Management Statistical Series	6,14
GIRDER	Government/Industry Reference Data Edit and Review	4	INC	Item Name Code	1,3,4,5,6,14,15
GSA	General Services Administration	1,2,3,4,6,7,13,14	IOS	International Organization for Standardization	6
HMC	Hazardous Materiel Code	15	IRRC	Issue, Repair and/or Requisitioning Restriction Code	
HMIC	Hazardous Material Indicator Code	8,9,10,15	ISAC	Identified Secondary Address Coding	
I&S	Interchangeability and Substitutability	1,5,6,14	ISC	Item Standardization Code	4,5,6,15
ICP	Inventory Control Point	6,13,14	JAIEG	Joint Atomic Information Exchange Group	4

		Volume(s)			Volume(s)
JAN	Joint Army-Navy	2	MFR	Manufacturer	4
JANAP	Joint Army-Navy-Air Force Publication	2,7	MIL-RI	Military Routing Identifier	6
LCL	Less Than Carload Rating Code	15	MILSCAP	Military Standard Contract Administration Procedure	1,7,15
LIM	Losing Inventory Manager	6	MILSPEC	Military Specification	3
LMF	Language Media Format	2	MIL- STAAD	Military Standard Activity Address Directory	
LOA	Level of Authority	2,6,13,14	MIL- STAMP	Military Standard Transportation and Movement Procedure	6
LR	Logistics Reassignment	4,6	MILSTD	Military Standard	2,3,4,7
LS	Lead Service	6	MIL- STICCS	Military Standard Item Characteristics Code Structures	3,15
LTL	Less Than Truckload Rating Code	15	MILSTRAP	Military Standard Transaction Reporting and Accounting Procedure	15
MAC	Maintenance Action Code	6	MILSTRIP	Military Standard Requisitioning and Issue Procedure	6
MADS	Message Accountability Delivery System	1,2,4 5,6,7	MIM	Military Inventory Manager	14
MC	Marine Corps	1,2	MM	Materiel Manager	
MCC	Materiel Category Code Materiel Condition Code		MMAC	Materiel Management Aggregation Code-AF	1,13
MCLB	Marine Corps Logistics Base	13			
MCO	Marine Corps Order	13			
MCSA	Marine Corps Supply Activity				
MEC	(Marine Corps) Man- agement Echelon Code	13,15			

		Volume(s)			Volume(s)
MMC	Materiel Management Category Code-DoD (Commodity)	13	NIMSC	Nonconsumable Item Material Support Code	2,6
MOE	Major Organizational Entity	1,2,3,4,5,6,13,14	NMFC	National Motor Freight Classification (Code)	1,2,6,15
MOWASP	Mechanization of Warehousing and Shipment Processing	6	NOCA	Nuclear Ordnance Cataloging Activity	2,4
MRC	Master Requirement code	1,3,4,5,15	NOCO	Nuclear Ordnance Cataloging Office	2,4
MRD	Master Requirement Directory	3,15	NSA	National Security Agency	1,2,4,6,13,14
MRM	Military Retail Manager	14	NSCM	NATO Supply Code for Manufacturers	1,4,5,7,15
MTMC	Military Traffic Management Command	1,2,4,6,15	NSN	National Stock Number	1,2,3,4,
NADEX	NATO Data Exchange	1	OCR	Optical Character Recognition (Reader)	1,2,7
NAIN	Non-Approved Item Name		ODRC	Output Data Request Code	1,2,4,5,6
NATO	North Atlantic Treaty Organization	1,2,,4,5,6,7,13,15	OE	Organizational Entity	1,4,5,7,15
NCB	National Codification Bureau	2,4	PDM	Partial Descriptive Method (Item Identification)	2,4
NDUP	Non-Duplicate	4	PIC	Priority Indicator Code	1,2,4,5,14
NHCI	Nuclear Hardness Critical Item	2,4	PICA	Primary Inventory Control Activity	1,2,4,5,6,13,14
NIDS	Nuclear Integrated Data System	4	PMIC	Precious Metals Indicator Code	6,15
NIIN	National Item Identification Number	All	PORM	Plus or Minus	2,3
			PSCN	Permanent System Control Number	1,2,4,5,6,15

		Volume(s)			Volume(s)
PSMAT	Provisioning Screening Master Address Table	1,5,7	ROFC	Remote Output Format Code	16
PSN	Package Sequence Number	1,2,4,5,7	RPDMRC	Reference/Partial Descriptive Method Reason Code	1,2,4
PSOS	Pseudo Source of Supply	6	S/A	Military Service/Civil Agency	2,13,14
PVC	Price Validation Code		SAC	Secondary Address Code	3,4
Q/R	Query Response, AUTODIN		SADC	Service/Agency Designator Code	2,4,15
QUP	Quantity Unit Pack	2,6,15	SAIC	Secondary Address Indicator Code	
RCS	Reports Control Symbol	2,14	SAN	System Advisory Notice (FLIS)	1
RD	Restricted Data	4	SCN	System Control Number	1,4
RIC	Routing Identifier Code	1,2,6	SCR	System Change Request (FLIS)	1,6,15
RM	Reference Method (Item Identification)	2,4,14	SFM	Simplified File Maintenance	1,2
	Retail Manager	6	SIC	Statistical Indicator Code	
RNAAC	Reference Number Action Activity Code	1,2,4	SICA	Secondary Inventory Control Activity	1,2,5,6,13,14
RNCC	Reference Number Category Code	2,4,5,6,15	SICC	Service Item Control Center	2,6,13,14
RNFC	Reference Number Format Code	4,5	SIN	Submittal Identification Number	
RNJC	Reference Number Justification Code	1,4	SLC	Shelf Life Code	2,6,15
RNSC	Reference Number Status Code	4			
RNVC	Reference Number Variation Code	5,6,15			

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		Volume(s)			Volume(s)
SMIC	Special Material Identification code	15	U/P	Unit Price	15
SMR	System Management Release, FLIS	1	USCG	United States Coast Guard	1,2,6
SNOCA	Service Nuclear Ordnance Cataloging Activity	4	WIMM	Weapons Integrated Materiel Manager	2,4,5,6,13,14
SoS	Source of Supply Code	1,2,4,6,4,15			
SoSM	Source of Supply Modifier Code				
SPSN	Submitted Package Sequence Number				
SR	Standard Requirement	4			
SSR	Supply Support Request	1,2,6,13			
	System Support Record	1,2,5,6,7,13,14,15			
STDB	Standard Test Data Base	1			
STIR	Sequential Total Item Record	2,6			
TACOM	U.S. Army Tank-Automotive Command	2,6,13,14			
TIC	Terminal Identifier Code				
TSN	Terminal Serial Number				
UFC	Uniform Freight Classification (Code)	1,6,15			
U/I	Unit of Issue	2,6,15			
U/M	Unit of Measure				

GLOSSARY
PART II - TERMS

	Volume(s)
Acceptable Quality Level (AQL). The maximum percent defective that, for purposes of sampling inspection, can be considered satisfactory.	2,4,14
Accounting Requirements Code (ARC). See DRN 2665, volume 12.	15
Acquisition Advice Code (AAC). See DRN 2507, volume 12.	2,6,14,15
Acquisition Method Code (AMC). See DRN 2871, volume 12.	6,14
Acquisition Method Suffix Code (AMSC). See DRN 2876, volume 12.	6,14
Activity Code. A two-character code assigned by DLSC, upon request, for use in the Federal Catalog System to identify an activity for cataloging, standardization, or other management purposes.	2,3,4,5,6
Adopt Coding. Application of the approved IMC criteria by an ICP to items of supply currently managed by a IMM, wherein the ICP or another activity within the same Service is not currently recorded as a user in the FLIS data base and desires to add user interest and obtain supply support from the appropriate IMM.	6
Advance Change Notice - See FLIS Advance Change Notice	
Air Commodity/Special Handling Code. See DRN 9215, volume 12.	1,2,15
Air Dimension Code (ADC). See DRN 9220, volume 12.	1,2,15
Air Force Fund Code. See DRN 2695, chapter 12.2.	
American National Standard Code for Information Interchange (ASCII). The bit configuration standard subset requirement for FLIS and all Government computer systems.	2
Applicability Key. The code used to reference the applicability of a requirement to an item name in a FIIG.	3
Approved Item Name (AIN). The name which is selected (approved by the Directorate of Item Identification, DLSC, as the Official designation for an item of supply), and delimited where necessary, to establish a basic concept of the item of supply to which the item belongs and with which it should be compared. It may be a basic name, or a basic name followed by those modifiers necessary to differentiate between item concepts having the same basic name. Approved item names, basic names, and colloquial names are published in Cataloging Handbook H6. When two or more names are applicable to an item, the name which is most commonly used by the Government and industry shall be selected as the item name. The other name(s) shall be cross-indexed to the selected name.	3,4,6,15

	Volume(s)
Approved Item Name Reclassification Program (AINRP). A DoD-directed program designed to (1) identify item names (by five-digit code) which represent large quantities of consumable items originally classified in FSC classes for the next higher assemblies; (2) take action to reclassify such items from the next higher assembly FSC to the "home" FSC class; and, (3) apply IMC procedures to items migrating from weapons system oriented to commodity oriented FSC classes.	6
Association Code. A code number assigned by DLSC, for internal use, to a corporate complex which has two or more divisions, branches, subsidiaries, etc., each of which has been assigned a different Commercial and Government Entity Code (CAGE). This code number is used by DLSC in screening operations for determining duplication and possible duplication when the reference number is the same but the CAGE Code is different.	1,4,5,14
Association Package Sequence Number (APSN). See DRN 8252, volume 12.	
Authorized Item Identification Collaborator Code. See DRN 2533, chapter 12.2.	2,6
Automatic Data Processing Equipment Code (ADPEC). See DRN 0801, volume 12.	8,9,10,15
Cancelled Federal Item Identification. A Federal item identification which is no longer authorized for use to identify an item of supply.	2,4,6
Card Identification Code, Item Management Coding. See DRN 0099, volume 12.	1,2,6,14
Catalog Management Data (CMD). The total range of information compiled and published in Management Data Lists including requisitioning, stock, and financial management and other management control data; and including various referenced relationships to other items, documents, or materiel management conditions.	1,2,4,5, 6,7,14,15
Cataloging Handbook H2. A handbook containing Federal Supply Classification data in Federal Supply Classification order showing all groups and classes in the four-digit FSC code numbering system. Where appropriate, the main inclusions and exclusions which delimit the coverage of a particular class are shown.	3,4,15
Cataloging Handbook H6. Federal Item Name Directory for Supply Cataloging.	3,4,15
Cataloging Statistical Series (CSS). A series of informational type documents which provide statistical data in support of the Federal Cataloging Program.	2,14
Category A Single Submitter. Where management responsibility includes all items of supply in a given FSC class, the IMM is the sole submitter of cataloging actions related to items of supply in the applicable class. This includes proposals for new or revised cataloging tools; new, reinstatement, or revised item identifications; and new or changed data related to existing item identifications such as add, delete, or change MOE Rule data, changes in item status codes, add or delete references, etc.	2,4

Volume(s)

- Category B Single Submitter.** Where management and cataloging responsibility is established on a by item basis within a given FSC class, the IMM is the sole submitter of proposed catalog data changes against existing item identifications representing items of supply under the management cognizance of that activity. This includes add, delete, or change MOE Rule data; changes in item status codes; add or delete references, etc.; but excludes original and reinstatement item identifications and proposed new or revised cataloging tools. 2
- Central Catalog File.** See FLIS Data Bank. 2,4
- Change Bulletin.** Publications issued following a basic edition for updating purposes. The data content is cumulative. Change bulletin is synonymous with the terms "advance notice" and "supplement". 15
- Change Coding.** The method of changing data elements previously furnished as a result of IMC. Excluded are changes from Service management to Integrated Materiel Management or vice versa. Such latter changes shall be accomplished under initial, maintenance, retroactive, or return coding as appropriate. 6
- Change Indicator.** See DRN 0122, volume 12.
- Characteristics Reply.** The total reply to a FIIG requirement in MILSTICCS format. It consists of the primary address code and may consist of a secondary indicator code, along with a secondary address code (if applicable), or it may consist of a double dollar symbol (\$\$) to identify the AND condition or a single dollar symbol (\$) to identify the OR condition. These symbols will be used to chain materials and the like which do not govern other requirements. Also included is the mode code and the item characteristics (either clear text or coded or a combination of the two as specified in the FIIG) followed by the record separator symbol. 3,4
- Characteristics Screening.** A computer process which identifies potential duplicate items of supply by comparing the characteristics description of items proposed to be added to the system to those already assigned NSNs. This comparison occurs automatically when a new National Stock Number is being requested or when maintenance actions to the FLIS data base are submitted by item managers. The screening criteria is designed so that items matched will be interchangeable in all applications. The results are manually reviewed to verify true duplication.
- Characteristics Search.** An interrogation of the FLIS data base to locate existing items of supply. The input contains specific item characteristics. Criteria is applied in the processing to select items which are similar or may be substituted for another item of supply. Items may or may not meet the requirements of interchangeability or substitutability. Characteristic Search is used primarily for standardization studies, item reduction studies, design improvements or to find substitutes for a primary item.
- CIMM Assignment on a By-Item Basis.** For items of supply classified in those FSC classes included in the CIMM assignment but the management assignment for each individual item of supply is determined on a by-item management coding basis. 1,2,6

	Volume(s)
Codification Project Code. A two-character alphabetic code assigned by the Defense Logistics Services Center (DLSC) to identify catalog data related to a codification project for NATO or other foreign countries.	4
Collaborating Activity. An activity designated by a Military Service or participating agency to review proposed item logistics changes.	2,4
Collaborator Code. See DRN 2533, volume 12.	2,13
Commercial and Government Entity Code (CAGE). Any reference number entered into the Federal Catalog System will have a CAGE Code assigned to it prior to entering the central catalog file. The CAGE Code is a five character data element assigned to establishments which are manufacturers or have design control of items of supply procured by the Federal Government. The first and last positions of a CAGE Code will be numeric. Under certain conditions revision actions shall be initiated by DLSC: When a CAGE Code is cancelled and replaced by a code assigned to a single manufacturer; or when DLSC cannot determine, without collaboration, which items formerly manufactured by a defunct organization are now manufactured by the acquiring organization(s).	
Where the applicable CAGE Code cannot be determined under the conditions cited above, recorded cataloging activities shall initiate appropriate action to update the central catalog file. DLSC will not cancel a CAGE Code until all numbers of that manufacturer have been withdrawn.	
Commodity Integrated Materiel Manager (CIMM). The activity/agency designated to exercise integrated materiel management for a commodity oriented Federal Supply Classification group/class, commodity, or item on a DoD and/or Civil Agency basis.	1,2,5,6, 13,14
Commodity Materiel Management Category Code - DoD. See DRN 2611, volume 12.	
Compiler. A term used to denote the activity responsible for the preparation and maintenance of a catalog.	
Concept Change. A concept change is determined to exist when the identification characteristics expressed by the proposed revision of a Federal item identification differ in content from those expressed by the Federal item identification, and both item identifications represent possible items of supply.	4

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Condition Codes. A condition code is assigned to Approved Item Names to indicate whether the name may be classified in single or multiple FSC(s) as follows:

Code 1 - The AIN may be classified in only one specific FSC.

Code 2 - The AIN may be classified in two or more specific classes of the FSC structure.

Code 3 - The AIN may be classified in any logical class of the FSC structure.

Consumable Item Transfer (CIT). A special project transferring consumable items now managed by military services to DLA or GSA. 6

Content Indicator Code. The Content Indicator Code (CIC) consists of four alphabetic characters which appear in positions 5 through 8 of an Automatic Digital Network (AUTODIN) message header and End of Transmission (EOT). It is designed primarily for use by the receiving communications terminal as an aid in determining distribution of data messages. All catalog data being transmitted requires a CIC. 2

Continuation Indicator Code (CIC). See DRN 8555, volume 12. 1,4

Contract Administration Office Code (CAO). See DRN 8870, volume 12. 1,15

Controlled Inventory Item Code (CIIC). See DRN 2863, Volume 12. 15

Conversion. The transformation of a value to an equal or equivalent value in a different term or scale. 3

Coordinating Activity. An activity having the responsibility for inter-Service/Agency coordination.

Criticality Code. See DRN 3843, volume 12. 1,4,5,15

Data Chain. A name given to the use of two or more logically related data elements. For example, the data chain Document Control Number (DRN 1015) is composed of data elements: Originating Activity Code (DRN 4210), Submitting Activity Code (DRN 3720), Date Transaction (DRN 2310), and Document Control Serial Number (DRN 1000). 4,5

Data Changes. All transfers between the descriptive method and the reference method; all reference number changes, item status code changes, withdraw or add owner actions, and cancellations regardless of type of item identification; and item (or part) name and FSC changes for type 2 item identifications. 2,4,6

	Volume(s)
Data Code. A number, letter, character, symbol, or any combination thereof used to represent a data item. For example, the data codes JV, KX, and XB represent the data items: Strategic Systems Project Office; Defense Personnel Support Center; and Field Command, Defense Nuclear Agency, respectively, under the data element: Submitting Activity Code (DRN 3720).	1
Data Element. A grouping of informational units which has a unique meaning and sub-units (data items) of distinct value. Examples of data elements in FLIS are State/U.S. Possession Abbreviation (DRN 0186), Submitting Activity Code (DRN 3720), and DoD Activity Address Code (DRN 3755).	1,4,5,6, 7,15
Data Element Dictionary (DED). An authoritative reference containing the definition and related features of data elements, data chains, and data use identifiers. See volume 12.	1
Data Element Terminator Code. See DRN 8268, volume 12.	1,4
Data Exchange. The submittal of data, not requiring collaboration, through the single submitter to the Defense Logistics Services Center (DLSC).	2
Data Item. A sub-unit of descriptive information or values classified under a data element. For example, the data element Submitting Activity Code (DRN 3720) contains data items such as U.S. Army Electronics Command, Naval Training Device Center, and San Antonio Air Logistics Center.	
Data Range Criteria. Information providing the means (manual or mechanical) for determining item equivalency and substitutability relationships for each item characteristic.	3
Data Record Number (DRN). See DRN 0950, volume 12.	1,2,4,5,6,7,15
Defense Retail Interservice Support (DRIS) Program. A program designed to use inter-Service transfers of material and logistics services to achieve the greatest possible effectiveness and economy in the operations of DoD activities.	
Deletion Reason Code. See DRN 4540, volume 12.	6,14
Demilitarization. The act of destroying the military offensive or defensive advantages inherent in certain types of equipment or materiel. The term comprehends mutilation, dumping at sea, scrapping, melting, burning, or alteration designed to prevent the further use of equipment and materiel for its originally intended military or lethal purpose.	4,15
Department of Defense Activity Address Code (DoDAAC). See DRNs 0395 and 6550, volume 12.	
Depot Source of Repair (DSOR). An organic or contract activity designated as the source to provide depot maintenance of equipment. Only each Service's Maintenance Interservice Support Management Office (MISMO) assigns DSOR codes through the PICA Service cataloging function.	6

Volume(s)

- Department of Defense Activity Address Directory (DoDAAD).** The file of all Department of Defense customers clear-text addresses, address codes, and billing codes for use in preparation of bills to customers.
- Department of Defense Ammunition Code (DoDAC).** See DRN 3767, volume 12. 3,15
- Department of Defense Interchangeability and Substitutability (I&S) Family.** A grouping of items which possess such physical and functional characteristics as to provide comparable functional performance for a given requirement Design Control Reference. The primary number used to identify an item of production, or a range of items of production, by the manufacturer (individual company, firm, corporation, or Government activity) which controls the design, characteristics, and production of the item by means of its engineering drawings, specifications, and inspection requirements. 2,4
- Design Control Reference.** The primary number used to identify an item of production, or a range of items of production, by the manufacturer (individual company, firm, corporation, or Government activity) which controls the design, characteristics, and production of the item by means of its engineering drawings, specifications, and inspection requirements. 2,4
- Document Availability Code (DAC).** See DRN 2640, volume 12.
- Document Control Number.** See DRNs 1015 and 3920, volume 12. 4,5,6,15
- Document Control Serial Number.** See DRN 1000, volume 12. 1,5,6
- Document Identifier Code (DIC).** See DRN 3920, volume 12. 1,2,4,5,6,7,13,14,15
- DoD/Federal Functional Manager.** The organizational element responsible for specific functions such as the Federal Catalog Program (DLA-MM), Item Management Coding (DLA-OP), Freight Classification Data (MTMC). 1
- DOE Controlled Commercial Items.** End items, assemblies, components, and parts (including testing and handling equipment) which are standard commercial items used on or with nuclear weapons. Due to the nuclear weapons reliability concept, they require special testing or DOE control for quality assurance. These items are available only from the DOE through DNA and are all of "war-reserve quality" or "single quality". They are not security classified and are not commodity classified in FSC group 11. Item identifications for these items will each reflect a reference number coded with CAGE 87991. 4
- DOE Special Design Items.** End items, assemblies, components, and parts (including testing and handling equipment) designed or manufactured by DOE or design controlled by DOE for use specifically in the nuclear ordnance field. These items are available only from the DOE through the Defense Nuclear Agency (DNA) and may be categorized as "war reserve quality", "training quality", or "single quality". 4

	Volume(s)
Drop Table. Used by DLSC, when requested by Service/Agency activities, to eliminate distribution of unneeded data.	1
Economic Feasibility. The determination of the cost effectiveness of a data system change. Design, development, programming, implementation, and appropriate Automatic Data Processing (ADP) equipment costs (including separate indication of ADP and non-ADP costs) should be related to the value of the automated data system change under development.	1
Effective Date (ED). The year and Julian day denoting the date that a predetermined condition or action becomes effective in the defense logistics system. This date will always be the first day of a month; e.g., 83121 is 1 May 1983. An effective date will be either a "future" effective date or a "standard" effective date.	2,5,6,13
Electrostatic Discharge Code. A code to indicate whether an item is susceptible to electrostatic discharge or electromagnetic interference damage.	8,9,10,15
End of Transmission (EOT). An ADP term indicating the conclusion of a transmission.	
Equivalency Criteria. Criteria contained in section II of the FIIG consisting of data range conversion formulas and decision rules criteria used to determine characteristic equivalency and substitutability. Replies are equivalent when they are identical or become equivalent through the application of section II criteria. Replies NOT RATED and ANY ACCEPTABLE in the data base are not to be considered equivalent with respect to other definitive replies to a specific input requirement. Equivalent items are always "offered" to the processing activity requesting NSN assignment from DLSC for review and possible acceptance.	3
Estimated Demand. See DRN 0727, volume 12.	
Estimated or Actual Price. See DRN 0731, volume 12.	
Expendability, Recoverability-Reparability Code (ERRC). See DRN 2655, volume 12.	
Extra Long Characteristics Description (ELCD). Characteristics description data which consists of 5,000 characters or more.	2,3,4
Extra Long Reference Number (ELRN). A reference which exceeds the allowed field of 32 positions and must be carried forward to additional cards.	2,3,4
Federal Catalog System. A Federal program administered by DoD in conjunction with GSA. It shall name, describe, classify, and number each item repetitively used, bought, stocked, or distributed by the Federal Government so that only one distinctive combination of letters or numerals (or both) identifies the same item throughout the Federal Government.	1,3,4,6, 14,15

	Volume(s)
Federal Cataloging Program Statistical Series. A series of statistics required to reflect information pertaining to all Federal Cataloging Program transactions recorded in FLIS files against items which are managed by DoD activities, Civil Agencies, or foreign countries participating in the Federal Cataloging Program.	14
Federal Item Identification (FII). A description of an item of supply which consists of minimum data essential to establish those characteristics which give an item its unique character, and differentiate it from every other item of supply within the Federal Catalog System, and required related management data.	2,4,6
Federal Item Identification Guide (FIIG). A guide prescribing standard requirements, formats, and machine oriented coding structure for the collection of item characteristics and other item-related logistics data.	1,2,3,4, 5,7,14,15
Federal Item Name Director (FIND). Published as Cataloging Handbook H6 Series; provides item name data to Services/Agencies for use in development of item identifications.	4,15
Federal Logistics Information System (FLIS). An ADP system designed to provide a centralized data bank in support of the Department of Defense, Federal Civil Agencies, and foreign countries participating in the integrated logistics support program.	All
Federal Logistics Information System Data Base . The segment of the FLIS data bank containing the sum total of information (word, codes, and numbers) on an item required for identification and related data necessary to support various logistics functions. The FLIS data base is comprised of the following files: NIIN, Characteristics, Reference Number, and Graphics.	1,2,3,4, 5,6,7, 13,14,15
Federal Supply Classification (FSC). Permits the classification of all items of personal property used by participating activities. Groups and classes have been established for the universe of commodities with emphasis on the items known to be in the supply systems of participating activities. This classification system with its present structure of groups and classes represents those groupings and relationships which are based on current, as well as anticipated, management needs. The Federal Supply Classification structure is modified, as the needs of management change, by the addition of newly developed groups and classes, the subdivision of existing classes, and the revision of definitions of classes. The uniform Federal Supply Classification is governed by daily management requirements and provides uniform management categories throughout military activities and Civil Agency organizations, functions, operations, and supply pipelines. It permits greater uniformity within and between Military Services and Civil Agencies in the operations of reporting, accounting, financial management, inventory control, and budgeting.	1,2,3,4, 5,6,13, 14,15
Federal Supply Classification Group 11, Nuclear Ordnance. A Federal Supply Classification group which includes those nuclear ordnance items which are not specifically commodity classified elsewhere.	4

	Volume(s)
Federal Supply Group (FSG). See DRNs 3994 and 3996, volume 12.	1,5,6, 13,14,15
File Maintenance Sequence Number (FMSN). See DRN 1515, volume 12.	4,6
Financial Inventory Accounting (FIA). Establishment and maintenance of inventory accounts in monetary terms and the rendition of reports thereon. Covers materiel in storage, in process, on hand, in transit, and on consignment.	
FLIS Advance Change Notice. A notification, to users of DoD 4100.39-M, of changes that must be implemented in the period between quarterly publication of changes and revisions.	1
FLIS Data Bank. A totally integrated logistics information repository, including graphics, necessary to support the various logistics functions. The central data is organized in two segments, the FLIS data base segment and the System Support Record segment.	1,2,3,4, 5,6,15
Foreign Countries (FC). (Changed from: Friendly Foreign Governments). A non-NATO nation participating in the Federal Cataloging Program through an agreement which provides for the furnishing of Federal catalog data and cataloging services by the United States on a reimbursable basis.	1,2,4,5, 6,7,15
Freight Classification. The division of articles into groups according to physical characteristics for the purpose of transportation.	1,2,4,5, 6,15
Full Descriptive Method of Item Identification. The descriptive method of item identification establishes and delimits the concept of an item of supply by the delineation of the essential characteristics of the item which give the item its unique character and serve to differentiate it from every other item of supply. It may contain other characteristic data not used in the assignment of an NSN as specified in section III of the specific FIIG. The Full Descriptive Method (FDM) technique of item identification is a type 1 item identification which contains all essential characteristics of an item and differentiates it from every other item of supply.	2,4,14
Functional Description (FD). The FLIS FD provides:	1,8,9
a. The system requirements to be satisfied which will serve as a basis for mutual understanding between the user and the developer.	
b. Information on performance requirements, preliminary design, and user impacts including fixed and continuing costs.	
c. A basis for the development of systems tests.	
Functional Manager, DoD/Federal. See DoD/Federal Functional Manager.	
Functional/Operational Index (F/O). An index in grid form designed to assist the user in relating the item identification characteristics with the various logistic functions for data output products.	3,5,15

	Volume(s)
Gaining Inventory Manager (GIM). The inventory manager responsible for assuming wholesale materiel management functions.	2,6
Guide Number, Federal Item Identification Guide (FIIG). See DRN 4065, volume 12.	2,4
Hazardous Materiel Code (HMC). See DRN 2720, volume 12.	1,6,15
Hazardous Material Indicator Code. A code instructing the user on the type of hazardous material(s) used.	8,9,10,15
Immediate Response. The time elapsed from the point at which DLSC receives the last character of input data until DLSC transmits the first character of output data will not exceed one minute.	16
Industrial Plant Equipment (IPE). IPE is that part of DoD-owned plant equipment with an acquisition cost of \$1000 or more; used for the purpose of cutting, abrading, grinding, shaping, forming, joining, testing, measuring, heating, treating, or otherwise altering the physical, electrical, or chemical properties of materials, components, or end items entailed in manufacturing, maintenance, supply, processing, assembly, or research and development operations. IPE is further identified by noun name in joint DoD Handbooks, DLAH 4215 series.	
Initial Coding. Application of the established IMC criteria by the ICPs to all National Stock Numbered items existing in FSC classes newly designated as commodity oriented.	6
Initiating Activity. An activity assigned the responsibility for the development, coordination, reconciliation, and submittal to DLSC of a completed FIIG and follow-up maintenance.	3
Integrated Materiel Manager (IMM). See DRN 9090, volume 12.	1,2,4,6,13
Interchangeability and Substitutability (I&S). Conditions which permit the exchange of one item for another without affecting design or performance beyond acceptable limits.	1,5,6,14
Inventory Account Code - Coast Guard. See DRN 0708, volume 12.	1
Inventory Control Point (ICP). An organizational unit within the supply system of a Military Service/Defense Logistics Agency which is assigned the primary responsibility for the management of a group of items, either within a particular Military Service or for the DoD as a whole. Responsibilities include computation of quantitative requirements; the authority to require procurement, repair materiel, or initiate disposal; development of world-wide quantitative and monetary inventory data; and the positioning and repositioning of materiel.	6,13,14
Item Characteristics. Physical, performance, and other item-related logistics data required to describe, differentiate, and manage items of supply.	3,4

	Volume(s)
Item Identification (II). A collection and compilation of data to describe an item. The minimum data to develop an item identification are a combination of the item name, CAGE Code, manufacturers' identifying part/reference number, Reference Number Category Code (RNCC), and Reference Number Variation Code (RNVC). The maximum data required are the item name, all of the physical and performance characteristics data prescribed by a specific FIIG, and the manufacturers' identifying part/reference number. It may also include additional related reference numbers.	1,2,3,4, 5,6,13, 14,15
Item Intelligence. The sum total of data for a given item.	4
Item Intelligence Maintenance (IIM). A function in FLIS which provides for the processing of adjustments/revisions to established item identifications and characteristics in the FLIS data base.	
Item Logistics Data Transmittal (ILDT). The medium used for formatting data required to be transmitted to the data bank.	4
Item Management Classification Activity (IMCA). See DRN 4075, volume 12.	2,6
Item Management Coding (IMC). The process of determining whether items of supply in FSC classes assigned for integrated materiel management qualify for management by the individual Military Services or other DoD components. Coding is accomplished in accordance with established IMC criteria contained in DoD 4140.26-M, volume I, Defense Integrated Materiel Management for Commodity Oriented Consumable Items.	1,2,6,13,14
Item Management Coding Activity (IMCA). See DRN 2748, volume 12.	2,6,13,14
Item Management Statistical Series (IMSS). A series of informational type documents providing statistical data in support of the Federal Catalog System.	6,14
Item Name. See DRNs 5010 and 5020, volume 12.	1,3,4,5,6,15
Item Name Code (INC). See DRN 4080, volume 12.	1,3,4, 5,6,14,15
Item of Production. Consists of those pieces or objects grouped within a manufacturer's identifying number and conforming to the same engineering drawings, specifications, and inspection.	4
Item of Supply. An item of supply may be a single item of production or two or more items of production that are functionally interchangeable or that may be substituted for the same purpose and that are comparable in terms of use. It is more meticulous (a selection of closer tolerance, specific characteristics, finer quality) than the normal item of production, or may be a modification (accomplished by the user or at request of the user) of a normal item of production.	2,3,4,5,6,7, 14,15
Item Standardization Code (ISC). See DRN 2650, volume 12.	1,4,5,6,14,15

	Volume(s)
Key Data Element(s). Data element(s) submitted to obtain the desired interrogation/search output as specified by the Output Data Request Code.	5
Language Media Format (LMF). A code used for AUTODIN transmission to the FLIS data bank. The code indicates source media and preferred output media.	2
Less Than Carload Rating Code (LCL). See DRN 2760, volume 12.	1,2,15
Less Than Truckload Rating Code (LTL). See DRN 2770, volume 12.	1,2,15
List. One of the types of catalogs within a series of publications (e.g., Identification List).	4,15
Losing Inventory Manager (LIM). The inventory manager responsible for relinquishing wholesale materiel management functions.	2,6
MADS Data Transmission Message Control. A procedure that may be used by interested recorded MADS users to identify and verify receipt of FLIS data transmitted over MADS for a fixed time period. See volume 8, DIC KWA.	2
Maintenance Action Code (MAC). See DRN 0137, volume 12.	6
Maintenance Coding. Application of the approved IMC criteria by the ICPs to all new or existing National Stock Numbered items which enter FSC classes subject to IMC after initial IMC has been accomplished.	6
Major Organizational Entity (MOE). The principal subdivision of Government organization under which component organizational entities are identified (e.g., Army, Navy, Air Force, Marine Corps, DLA, GSA, etc.).	1,2,3,4, 5,6,13,14,15
Management Cognizance. The duties and responsibilities of a DSC, a Military Service activity, other DoD activity(ies), FAA, or GSA for management of an item of supply to the extent indicated by the MOE Rule.	2,6
Manufacturer (Mfr). A manufacturer may be an individual, company, firm, corporation, or Government activity that controls the design and production of an item, or produces an item from crude or fabricated materials or components, with or without modification, into more complex items.	4,7
Mass Change Processing. Mass change processing falls into two categories. Pre-programmed mass change is initiated by an SSR transaction which triggers or permits subsequent multiple actions to the DLSC and/or Service/Agency files. Special project mass change will require that original analysis and programming be accomplished to accommodate the requested actions.	1,2,6

	Volume(s)
Mass Data Retrieval. Mass data retrieval is designed to extract segment data from the FLIS data base or partial or complete files from the SSR based on the input of key data element(s). The content of the segments from the FLIS data base and the content of data elements from the SSR will be controlled through input of the appropriate Output Data Request Code DRN as indicated in volume 10, table 28 (Output Data Request Code/Access Key(s)).	1,5
Master Requirement Code (MRC). See DRN 3445, volume 12.	1,3,4,5,15
Master Requirements Directory (MRD). A publication containing the requirements, reply tables, Military Standard Item Characteristics Coding Structure (MILSTICCS), Master Requirement Codes (MRCs), and mode codes contained in published Federal Item Identification Guides (FIIGs).	1,3,5
Materiel Category Codes (MCC). See DRNs 2680 and 9256, volume 12.	
Materiel Condition Codes (MCC). See DRN 2835, volume 12.	
Materiel Management. Direction and control of those aspects of logistics which deal with materiel, including the functions of identification, cataloging, standardization, requirements determination, procurement, inspections, quality control, packaging, storage, distribution, disposal, maintenance, mobilization planning. Encompasses materiel control, inventory control, inventory management, and supply management.	2,6
Materiel Management Aggregation Code - AF (MMAC). See DRN 2836, volume 12.	1,13
Materiel Manager (MM). The director or organizational component responsible for performing the materiel management functions for assigned items.	1
Mechanization of Warehousing and Shipment Processing (MOWASP). A uniform data system designed to maintain consolidated freight location data and shipment handling information.	6
Message Accountability System (MADS). This system is a world-wide Department of Defense computerized general purpose communications system which provides for the transmission of narrative and data pattern traffic on a store-and-forward(message switching) basis and subscriber (circuit switching) basis. (Formerly: Automatic Digital Network (AUTODIN)).	1,2,4 5,6,7
Military Service-Controlled Commercial Items. End items, assemblies, components, and parts (including testing and handling equipment) which, due to the nuclear weapons reliability concept, require special testing or control for quality assurance. The items or the data for the items are available only from the design controlling military activity; they may be categorized as "war-reserve quality" or "single quality". They are not security classified and are not commodity classified in FSC group 11. Item identifications for these items will reflect a reference number coded with CAGE Codes 57991, 67991, or 77991.	4

	Volume(s)
Military Service Special Design Items. End items, assemblies, components, and parts (including testing and handling equipment), designed or manufactured by a Military Service or design controlled by a Military Service, for use specifically in the nuclear ordnance field. The items or the data for the items are available only from the design controlling military activity; they may be categorized as "war-reserve quality", "training quality", or "single quality". They may be security classified or nonsecurity classified and are not necessarily classified in FSC group 11.	4
Military Specification (MILSPEC). A procurement specification in the military series promulgated by one or more of the military agencies and used for the procurement of military supplies, equipment, or services.	3
Military Standard (MILSTD). An established or accepted level of performance in the military used as a yardstick in evaluating actual progress.	2,3,4,7
Military Standard Contract Administration Procedure (MILSCAP). MILSCAP will provide uniform procedures, rules, formats, time standards, and standard data elements for the interchange of contract related information between and among DoD components and contractors. The provisions of the Armed Services Procurement Regulation are to be implemented in machine processable form, where feasible, in MILSCAP. The system administrator and the chairman of the ASPR Committee will assure compatibility between the two procedures.	1,7,15
Military Standard Item Characteristics Code Structures (MILSTICCS). The coding structure used to code characteristics data for item identifications, transmission, storage, and processing.	3,15
Military Standard Requisitioning and Issue Procedures (MILSTRIP). MILSTRIP will prescribe uniform procedures, codes, formats, documents, and time standards for the interchange of requisitioning and issue information for all materiel commodities (unless specifically exempted by the ASD (MRA&L)) between requisitioners and supply control/distribution systems in DoD and other participating agencies. MILSTRIP will include the applicable provisions of the Uniform Materiel Movement and Issue Priority System (UMMIPS).	6
Military Standard Transaction Reporting and Accounting Procedures (MILSTRAP). MILSTRAP will prescribe uniform procedures, data elements, documents, and time standards for the flow of inventory accounting information pertaining to receipt, issue, and adjustment actions between inventory control points, stock control activities, storage sites/depots, and posts, camps or bases (unless specifically exempted by the ASD (MRA&L)). Card formats and data elements employed in MILSTRAP will be designed to complement the techniques prescribed in MILSTRIP and to provide the means for generating financial inventory data required for management and transaction reports and financial reports.	

Military Standard Transportation and Movement Procedure (MILSTAMP). The MILSTAMP DoD Regulation will contain all necessary forms, formats, codes, procedures, rules, and methods required by DoD components in the movement of materiel. It is a complete reference for policy and procedures governing data elements, documentation and information flow. Supplementing procedures are authorized only to the extent of assuring more detailed operating instruction required by action offices or to cover variances in capabilities.

Prescribed address-marking data elements, formats, and requirements are contained in MILSTAMP and will be reflected in MIL-STD-129, Military Standard Marking for Shipment and Storage, which is maintained by the Department of the Army. MILSTAMP will include the applicable provisions of the Uniform Materiel Movement and Issue Priority System (UMMIPS).

Military Traffic Management Command (MTMC). A command under the Department of the Army responsible for procurement, use, cost, and control of commercial transportation services required in the movement of cargo and passengers for the DoD components. 1,2,4,6,15

MINIMIZE. A condition wherein normal message and telephone traffic is drastically reduced in order that messages connected with an actual or simulated emergency shall not be delayed. 2,4

MOE Rule Related Data. Consists of Item Management Status Data and the NIMSC Code, AF Materiel Management Aggregation Code, supplementary data collaborators/receivers, Item Management Code, the IMCA, and effective date. 2,4,6

National Codification Bureau (NCB) Code. See DRN 4130, volume 12. 4

National Item Identification Number (NIIN). See DRN 4000, volume 12. All

National Motor Freight Classification Code (NMFC). See DRN 2850, volume 12. 1,2,6,15

National Stock Number (NSN). See DRNs 3960, 0126, 8525, 4120, 4150, 0260, 2895, 8875, 8869, 8878, and 8977, volume 12. 1,2,3,4, 5,6,13,14,15

NATO Stock Number (NSN). An item of supply produced by a NATO member nation other than the U.S. identified by that nation by the assignment of a NATO Stock Number (e.g., 0000-21-000-0000). When such items enter the supply system of the U.S. Government, they will be identified by the NATO Stock Number if codification agreements have been extended to provide for acquisition of foreign item identification data through DLSC. For such items, the NATO Stock Number will be used and recognized as the National Stock Number in internal management of the item in the U.S. 1,4,6

NATO Supply Code for Manufacturers (NSCM). See DRN 4140, volume 12. 1,4,5,7,15

Navy Cognizance Code. See DRN 2608, volume 12. 1,13

	Volume(s)
Next Higher Classifiable Assembly. This term is understood to mean the next higher assembly on or with which the item is used as a subassembly, part, attachment, or accessory. The term "higher assembly" is used for brevity and may actually include components, sub-assemblies, assemblies, and end items or systems.	4
Nominal Value. A value, excluding tolerance, used for the purpose of general identification usually expressed as a fraction, size number or letter, code number, gage number, or decimal number.	
Non-Approved Item Name (NAIN). See DRN 5020, volume 12.	3
Non-Duplicate (NDUP). When the item identification is sufficiently close to, but not an actual duplicate characteristically of, an existing Federal item identification and there are no matching reference numbers.	4
Normal Source of Procurement. See DRN 0721, volume 12.	
Nuclear Hardness Critical Item (NHCI). As defined in DoD-STD-100C. A hardware item at any assembly that is mission critical and could be designed, repaired, manufactured, installed or maintained for normal operation, and yet degrade system survivability in a nuclear environment if hardness were not considered.	10
On Hand/Due In. See DRN 0722, volume 12.	
Operational Feasibility. The determination of whether a data system change will operate properly and be properly used once developed and implemented.	1
Operational Need Date. See DRN 0726, volume 12.	
Optical Character Recognition (Reader) (OCR). A data processing technique (device) which converts, by optical means, the characters placed on paper into a code suitable for input to a computer.	1,2,7
Organizational Entity (O.E.). An organizational element, segment, or entity for cataloging; DoDAAC, bidders, manufacturing, or nonmanufacturing activity or establishment, etc.; and attribute data ascribed in the entity for the purpose of intensifying its meaning, characteristics, responsibility, eligibility, and area(s) of authority.	1,3,4,5,6,7, 14,15
Original Federal Item Identification. An item identification which has been approved by the Defense Logistics Services Center and assigned a National Stock Number, but which has not been revised, transferred, or cancelled.	4

	Volume(s)
Originating Activity. Any participating activity which originates proposed new or revised cataloging tools and/or proposed new or revised item identifications and related data for submittal directly or indirectly to DLSC for approval. It may be a managing activity which prepares its own catalog data for submittal or may be another activity functioning as a catalog agent for the managing activity. In those cases where the originating activity is authorized to submit proposals directly to DLSC rather than through an intermediate monitoring activity (e.g., Defense Supply Center; Defense Nuclear Agency), the originating activity assumes the status also of a submitting activity.	2,4,5,6
Originating Activity Code. See DRN 4210, volume 12.	1,4,5,6,15
Output Data Request Code (ODRC). See DRN 4690, volume 12.	1,2,4,5,6
Package Sequence Number (PSN). See DRN 1070, volume 12.	1,2,4,5,7,14
Partial Descriptive Method Item Identification (PDM). A Partial Descriptive Method (PDM) of item identification is a type 4 item identification which contains one or more characteristics in addition to the item name but does not contain all characteristics required for an FDM.	2,4,14
Permanent System Control Number (PSCN). See DRN 4250, volume 12.	1,2,4,5,6,15
Physical Security/Arms, Ammunition and Explosives Security Risk/Pilferage Codes. See DRN 2863, volume 12.	15
Possible Duplicate Item-of-Supply Concepts. An item-of-supply concept expressed by an existing item identification shall be considered a possible duplicate of a concept expressed by a proposed item identification or another existing item identification when (1) there is enough similarity in descriptive data and/or (2) there is one or more common reference number(s) related to each item to indicate that the same item of production is involved, or that the one single concept is adequate or may be established to identify the item of supply. Such cases warrant reference to the managing activity(ies) for verification of descriptive and/or reference data. Reconciliation of such data normally will result in revision of one or both concepts to more clearly differentiate the items or in a proposal to cancel one of the item identifications as an actual duplicate, as invalid, or to use the other item identification (cancel-use).	4
Precious Metal Indicator Code (PMIC). A code indicating the presence of precious metals (Gold, Silver, Platinum or a combination).	8,9,10,15
Price Validation Code, Air Force (PVC). See DRN 0858, volume 12.	
Primary Inventory Control Activity (PICA). See DRN 2866, volume 12.	1,2,4,5, 6,13,14

	Volume(s)
Primary Reference Number. The number used to identify an item of production or a range of items of production by the manufacturer (individual company, firm, corporation, or Government activity) which controls the design, characteristics, and production of the item through its engineering drawings, specifications, and inspection requirements. The number is the "design control reference".	4
Priority Indicator Code (PIC). See DRN 2867, volume 12.	2,4,5,14
Procurement Method Code (PIC). See DRN 2871, volume 12.	6,14
Procurement Method Suffix Code (PMSC). See DRN 2876, volume 12.	6,14
Production Lead Time. See DRN 0730, volume 12.	
Proposed Original Item Identification. An item identification for an item in or entering a supply system which has not yet been approved by the Defense Logistics Services Center (DLSC) as a Federal item identification assigned a National Stock Number.	2,4
Provisioning Screening Master Address Table (PSMAT). See DRN 0232, volume 12.	1,5,7
Provisioning Supply Support Request. Indicated by Card Identification Code P to show that a Supply Support Request received by the IMM from an ICP is the origin of the request when the item is in an FSC class subject to IMC.	2,6
Qualitative Value. The portion of a reply that expresses quality such as color, shape, material, condition, etc.	3
Quantitative Value. The portion of a reply which expresses a numeric value for such characteristics as dimensions, measure, magnitude, electrical rating, etc.	3
Quantity Unit Pack (QUP). See DRN 6106, volume 12.	6,15
Rail Variation Code. See DRN 4760, volume 12.	1,2,6,15
Reactivation Coding. Application of the approved IMC criteria by the ICPs to inactivated NSNs for which a IMM was the last manager, and the ICP is not currently recorded as a user.	6
Receiver Code. See DRN 2534, volume 12.	
Record Separator. The symbol used to indicate the completion of a characteristic reply or to indicate end of record.	16

	Volume(s)
Reference Method of Item Identification (RM). The reference method of item identification establishes and delimits the concept of an item of supply by reference(s) to the item-identifying number(s) of one or more manufacturers denoting the item or items of production included under the concept. Thus, under the reference method the essential characteristics of the item of supply are not delineated in the item identification but are ascertainable by research of the data represented by the manufacturers item-identifying number(s).	2,4,6,14
Reference Number. A reference number is any number, other than an activity stock number, used to identify an item of production or, either by itself or in conjunction with other reference numbers, to identify an item of supply. Reference numbers include manufacturers part, drawing, model, type, source-controlling, or specification-controlling numbers and the manufacturers trade name, when the manufacturer identifies the item by trade name only; NATO Stock Numbers; specification or standard part, drawing, or type numbers. The submittal of all known reference numbers related to an item of production or an item of supply, with the applicable Reference Number Category Code, the applicable Document Availability Code, and the applicable Reference Number Variation Code, is mandatory.	2,4,5,14,15
Reference Number Action Activity Code (RNAAC). See DRN 2900, chapter 12.2.	1,4
Reference Number Category Code (RNCC). See DRN 2910, chapter 12.2.	2,4,5,6,15
Reference Number Category Code Combination. Consists of the Reference Number Category Code (RNCC), Reference Number Variation Code (RNVC), and Document Availability Code (DAC) as expressed in volume 10, table 8.	
Reference Number Format Code (RNFC). See DRN 2920, chapter 12.2.	4,5
Reference Number Justification Code (RNJC). See DRN 2750, chapter 12.2.	1,4
Reference Number Status Code (RNSC). See DRN 2923, chapter 12.2.	
Reference Number Variation Code (RNVC). See DRN 4780, chapter 12.2.	2,4,5,15
Reference/Partial Descriptive Method Reason Code (RPDMRC). See DRN 4765, chapter 12.2.	1,2,4
Reinstated Federal Item Identification. A Federal item identification which has been cancelled but which has subsequently been reauthorized for use to identify an item of supply.	4,6
Remote Output Format Code. See DRN 0841, chapter 12.2.	16
Reparability Code - Coast Guard. See DRN 0709, chapter 12.2.	1
Reply. A reply (data item) is the answer to a specific requirement.	3,4
Reply Code. A code that represents an established reply to an approved requirement.	3,4

DEVELOPMENT AND MAINTENANCE
OF ITEM LOGISTICS DATA TOOLS

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