Army Regulation 700-43 DLAM 4215.1 NAVSUP PUB 5009 AFM 78-9

MANAGEMENT OF DEFENSE-OWNED INDUSTRIAL PLANT EQUIPMENT (IPE)

Headquarters
Departments of the Army, the Defense
Logistics Agency, the Navy, and the Air
Force
Washington, DC
14 June 1982

**UNCLASSIFIED** 

# SUMMARY of CHANGE

AR 700-43/DLAM 4215.1/NAVSUP PUB 5009/AFM 78-9
MANAGEMENT OF DEFENSE-OWNED INDUSTRIAL PLANT EQUIPMENT (IPE)

- I. (Change 4) DLAM 4215.1, 19 Nov 73, is changed as follows, pending revision of the entire publication--
- o A. Page 1-3, paragraph 10219: Rescind and substitute:
- o 10219 Industrial Plant Equipment (IPE). IPE is that part of plant equipment with an acquisition cost of \$3,000 or more (see Defense Acquisition Circular 76-36 for policy applicable to contractors); 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 and IPE is identified by Federal Supply Class in Appendix 1A and by descriptive name in Joint DoD Handbooks, DLAH 4215 series as listed in Appendix 1B.
- o B. Page 2-3, paragraph 20301-1: Rescind and substitute:
- 1. Change reporting will be accomplished in accordance with Appendix 2D, or by a listing of identification numbers with an explanation of changes to major elements of data. (Note: Notwithstanding the change in 10219, DIPEC will continue to accept change reports on inventory records between \$1,000 and \$3,000 and the 19 FSCs being deleted from the IPE scope until an effective date for transfer of records is coordinated with a Military Service or Defense Agency). Only the following changes will be reported as they occur except as provided in Appendix 2C:
- o SECTION I MAJOR ELEMENT
- o (DD Form 1342)
- o Block 3 Identification Number
- o 4 Commodity Code
- o 6 Acquisition Cost
- o 11 Service Code
- o 12 Command Code
- o 13 Administering Office
- o 25 Contract Number
- o 28 Present Location

- o C. Page 3-7, paragraph 30401-1: Rescind and substitute:
- 1. DIPEC will act as the central clearing-house for all DoD redistribution of idle/excess IPE for cross-utilization of supply system stocks between Inventory Control Points (ICPs). (Note: DIPEC will continue to honor requisitions for DoD General Reserve Equipment between \$1,001) and \$3,000 and the 19 FSCs being deleted from the IPE scope until the DoD General Reserve has been purged of equipment not meeting the new definition see 10219).
- o D. Appendices 1A, 1B, and 6B: Delete the following Federal Supply Classes:

0	3220	4330
0	3444	4440
0	3461	4910
0	3530	4920
0	3615	5220
0	3625	6625
0	3635	6680
0	3660	6685
0	3685	6695
0	3694	

- o II. SIGNIFICANT CHANGES. These changes will clarify and implement recent OSD IPE management policy contained in OUSD(R&E) Memorandum dated 5 May 1982.
- o III. This change sheet will be filed in front of the publication for reference purposes, after changes have been made.
- o I. (Change 3) DLAM 4215.1, 19 Nov 73, is changed as follows--
- o A. Delete all references to "ASD (MRA&L)", formerly ASD (I&L), and substitute "OUSDR&;E (AP)."
- o B. Page V, Chapter 3, line 1: Delete "Inventory" and substitute "Plant Equipment."
- o C. Page 3-9, para 30501, line 1: Delete "OSD" to
- o D. Page 3-9, para 30501-1, line 1: Delete "OSD Approved."

- o E. Page 3-9, para 30501-2, lines 11 and 12: Delete "ASD (MRA&L)" and substitute "OUSDR&E (AP)."
- o F. Page 4-2, para 40101-3.e, lines 1 thru 4: Delete the entire subparagraph.
- o G. Page 11-1, para 110102-2.a(1), line 1: Delete "30,000" and substitute 1148,000.11
- o H. Page 1C-2, Status Code 1P: Delete "ASD (MRA&L)."
- O I. Page 1C-3: Status Code 3D, line 1 and Status Code 3E, lines land 2: Delete "ASD (MRA&L)" and substitute "DOD Component."
- o J. Page 2A-3, para 20, lines 2 and 3: Delete "ASD (MRA&L) PEP number assigned by the Assistant Secretary of Defense (MRA&)" and substitute "PEP number."
- o K. Page 2B-i, para 2, line 3: Delete the word "file" and substitute "idle."
- o L. Page 2B-1, para 3, NOTE, line 6: Delete "12050-1" and substitute "120501-1."
- o M. Page 2B-2, para 10c, line 5: After "40201-2," insert "and appendix 3C."
- o N. Remove pages listed below and insert revised pages. Changes are indicated by bold stars.

0	Remove Old	Insert New
0	i and ii	i and ii
0	vii	vii
0	1-3 and 1-4	1-3 and 1-4
0	2-1 thru 2-7	2-1 thru 2-6
0	3-1 thru 3-8	3-1 thru 3-7
0	4-3 and 4-4	4-3 and 4-4
0	12-1 thru 12-4	12-1 thru 12-3
0		2F-1 thru 2F-3
0	4A-1 and 4A-2	4A-1 and 4A-2
0		6A-1 thru 6D-1
0	Cover	Cover

- o II. SIGNIFICANT CHANGES. This change adds procedures for recording and reporting Industrial Plant Equipment (IPE) numerically controlled machine data by DD Form 1342 (page 2); revises procedures for processing disposals of DoD-excess IPE; requires DoD component ICPs/IMMs to report excess Supply System Stocks of IPE to Defense Industrial Plant Equipment Center (DIPEC); provides instructions for preparation of page 2 of DD Form 1342; reflects delegation of the responsibility to approve and recertify plant equipment packages (PEP's) to the Assistant Secretaries of the Military Departments and the Director of the Defense Logistics Agency, contained in ODDR& Memorandum, 19 September 1977; and incorporates procedural guidance to reflect the forthcoming revision to DoDD 4275.5, Acquisition and Management of industrial Resources and the cancellation of DoDI 4215.1, Plant Equipment Retention and maintenance, and DoDI 4215.14, Replacement of Industrial Plant Equipment, at the request of OUSDR& (AP).
- o III. This change sheet will be filed in front of the publication for reference purposes, after changes have been made.
- o This publication includes references to Defense Supply Agency (DSA) publications using the letters DIA, even though the publication itself still bears the DSA identifier, e.g., DLAR 4140.55 for DSAR 4140.55.
- o I. (Change 2) DLAM 4215.1, 19 Nov 73, is changed as follows--
- O A. Delete all references to "Defense Supply Agency (DSA)" and substitute "Defense Logistics Agency (DLA)"; delete all references to "ASD (I&L)" and substitute "ASD (MRA&)" including revised pages attached.
- o B. Page 7-2, paragraph 70301-1 b, line 1: Delete "date" and substitute "data".
- O C. Page 8-2, paragraph 80501-1 a, line 4: Delete "." after IPS and change the first letter in the word "within" to lower case.
- o D. Page 10-1, paragraph 100301-2, line 3: Delete "admanistration" and substitute "administration".
- E. Page 3C-3, paragraph 6 b (3), lines 5, 6, and 10: Delete "Marine Corps Supply Center," and substitute "Marine Corps Logistics Support Base, Atlantic,".
- o F. Remove pages listed below and insert revised pages. Changes are indicated by bold stars.

0	Remove Old	Insert New
0	2-5 thru 2-7	2-5 thru 2-7
0	3-1 thru 3-6	3-1 thru 3-6
0	3-9 and 3-10	3-9 and 3-10

```
o 4-1 thru 4-4 4-1 thru 4-4

o 7-3 7-3 and 7-4

o 12-1 thru 12-3 12-1 thru 12-3

o IB-3 and IB-4 1B-3 and IB-4

o 1C-3 thru IC-6 IC-3 thru IC-6
```

2B-1 and 2B-2

o II. Concurrent with this change the Defense Industrial Plant Equipment Center (DIPEC) will assume complete responsibility for all aspects of publication of DLAM 4215.1 including direct coordination with the Military Services. Users are encouraged to submit recommended changes and comments to improve the publication to Commander, Defense Industrial Plant Equipment Center, ATTN: DIPEC-P, Memphis, Tennessee 38114. Distribution inquiries will also be directed to DIPEC-P (Telephone: AV 966-9640, Commercial AC 901-744-5640).

2B-1 thru 2B-3

- o III. SIGNIFICANT CHANGES. This change requires that one copy of the completed shipping document be forwarded to the Defense Industrial Plant Equipment Center (DIPEC) for DoD-excess and surplus industrial plant equipment (IPE) authorized for transfer by the General Services Administration; deletes reference to DD Form 770-1, Intra-Departmental Request for Release of Equipment; underlines the requirement to have copies of Formats A, B, and C be provided to DIPEC and the cognizant contract administrative services office on actions taken on Plant Equipment Packages; adds procedures for onsite condition determination; specifies the use of a document number to control each unit of idle/excess IPE reported by DoD components; and relieves the Armed Services Procurement Planning Officer of certifying the retention of idle IPE due to foreseeable future production contracts.
- o IV. This change sheet will be filed in front of the publication for reference purposes, after changes have been made.
- o I (Change 1) DSAM 4215.1, 19 Nov 73, is changed as follows--
- o A. Page 3-1, paragraph 30101-1 b (2), line 2: Delete ", and NIER." and add period.
- O B. Page 3-8, paragraph 30301-3 e (5): Delete in entirety; renumber subparagraphs (6) and (7) to (5) and (6).
- O C. Page 2A-4, paragraph 28, line 9: Delete "10223" and substitute "10222"; line 11: Delete "10222" and substitute "10221".
- O D. Remove pages listed below and insert revised pages. Changes are indicated by bold stars.

0	Remove Old	Insert New
0	Cover	Cover
0	i and ii	i and ii
0	v thru viii	v thru vii
0	1-1 thru 1-4	1-1 thru 1-4
0	2-1 and 2-2	2-1 and 2-2
0	2-5 thru 2-7	2-5 thru 2-7
0	3-5 and 3-6	3-5 and 3-6
0	3-9 and 3-10	3-9 and 3-10
0	4-1 thru 4-4	4-1 thru 4-4
0	8-1 and 8-2	8-1 and 8-2
0	10-1 and 10-2	10-1
0	11-1 and 11-2	11-1 thru 11-3
0	12-1 and 12-2	12-1 and 12-2
0	IB-1 thru 1B-4	1B-1 thru 1B-4
0	IC- 1 thru 1C-5	1C-1 thru 1C-7
0	2A-1 and 2A-2	2A-1 and 2A-2
0	2B-1 and 2B-2	2B-1 and 2B-2
0	3A-1 and 3A-2	3A-1 and 3A-2
0	4A-1 thru 4A-18	4A-1thru 4A-3
0	5A-1 thru 5C-2	5A-1and 5A-2

- O II. SIGNIFICANT CHANGES. This change deletes all references to the National Industrial Equipment Reserve and defines the Defense Industrial Reserve, established by the Defense Industrial Reserve Act, Public Law 93-155; reflects current policy on utilization of aluminum skids, Quality Deficiency Data Reports, budgeting and funding for warehousing services and storage space at central storage sites; and deletes all sample forms. A new cover, changing the manual's title to "Management of Defense-Owned Industrial Plant Equipment (IPE)" is also included.
- o III. This change sheet will be filed in front of the publication for reference purposes after changes have been made.

#### DEFENSE LOGISTICS AGENCY

DEFENSE INDUSTRIAL PLANT EQUIPMENT CENTER MEMPHIS, TENNESSEE 36114

DIPEC-P

19 Nov 73

#### **FOREWORD**

This manual is published under the authority of DoD Directive 4275.5, Acquisition and Management of Industrial Resources and DoD Directive 4215.18, Management of Defense-Owned Industrial Plant Equipment (IPE). It is applicable to all DoD components (Military Departments and DoD agencies) having responsibilities for such functions as acquisition, use, recording, reporting, maintenance, storage, transportation, reutilization, and disposal of DoD-owned Industrial Plant Equipment (IPE). The manual establishes systems and procedures for the control and redistribution of idle IPE within DoD and provides for other management services.

This publication includes references to Defense Supply Agency (DSA) publications using the letters DLA, even though the publication itself still bears the DSA identifier, e.g., DLAR 1000.1 for DSAR 1000.1.

Users of this publication are encouraged to submit recommended changes and comments to improve the publication, through channels, to the Commander, Defense Industrial Plant Equipment Center, ATTN: DIPEC-PMB, Memphis, TN 38114. Recommendations for amendments to this manual will be subject to review and coordination by DoD components prior to publication. Changes are indicated by bold stars.

BY ORDER OF THE DIRECTOR

AUSTIN F. McGOVERN

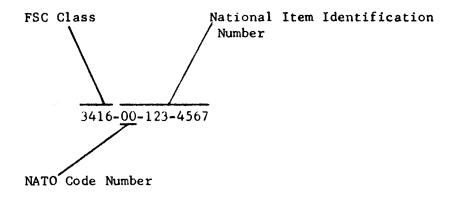
Captain, SC, USN

Commander

#### SPECIAL NOTE

#### Federal Stock Number (FSN)

The National Stock Number (NSN) is the term used to identify the 13-digit stock number which replaces the FSN in all material management functions. The two additional digits of the NSN denote the North Atlantic Treaty Organization (NATO) Code number. The first four digits of the NSN comprise the Federal Supply Classification (FSC) and the following nine digits comprise the National Item Identification Number (NIIN) which uniquely identify the item.



Requisitions are to cite the 11-digit FSN until September 1974, unless otherwise advised by the Military Services.

Headquarters Departments of the Army, the Defense Logistics Agency, the Navy, and the Air Force Washington, DC 14 June 1982

Army Regulation 700–43 DLAM 4215.1 **NAVSUP PUB 5009** AFM 78-9

Effective 14 June 1982

#### MANAGEMENT OF DEFENSE-OWNED INDUSTRIAL PLANT EQUIPMENT (IPE)

BY ORDER OF THE DIRECTOR:

**History.** This publication has been reorganized to make it compatible with the Army electronic publishing database. No content has been changed.

**Summary.** The purpose of this manual is to establish procedures for the management of idle industrial plant equipment (IPE) within the Department of Defense and for providing services to the Military Departments and other DoD components in the performance of other functions.

Applicability. This manual is applicable to all DoD components involved in such functions as acquisition, use, recording, reporting, maintenance, storage, transportation, reutilization, and disposal of DoD-owned IPE.

Proponent and exception authority. This manual is published under the authority of DoD Directive 4275.5, Acquisition and Management of Industrial Resources, and DoD Directive 4215.18, Management of Defense-Owned Industrial Plant Equipment (IPE).

Army management control process. The manual establishes systems and procedures for the control and redistribution of idle IPE within DoD and provides for other management services.

**Supplementation.** Not applicable.

Suggested Improvements. Users of this publication are encouraged to submit recommended changes and comments to improve the publication, through channels, to the Commander, Defense Industrial Plant Equipment Center, ATTN: DIPEC-PMB, Memphis, TN 38114. Recommendations for amendments to this manual will be subject to review and coordination by DoD components prior to publication.

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#### Reproducible Forms

**RESERVED** 

### Chapter I GENERAL

#### Section I GENERAL

#### 10101. Purpose.

The purpose of this manual is to establish procedures for the management of idle industrial plant equipment (IPE) within the Department of Defense and for providing services to the Military Departments and other DoD components in the performance of other functions.

#### 10102. Scope.

This manual is applicable to all DoD components involved in such functions as acquisition, use, recording, reporting, maintenance, storage, transportation, reutilization, and disposal of DoD—owned IPE. The scope of this manual as it applies to IPE in the possession of contractors must be consistent with provisions of the Armed Services Procurement Regulation. Chapter 12 is applicable only to those DoD activities within a military supply system which will record and report IPE items (in use at military installations and activities or held in supply system stocks) on a line item basis according to the agreements between DSA and the DoD components.

### Section II DEFINITIONS

#### 10201. Armed Services Procurement Regulation (ASPR).

This regulation, issued by the Assistant Secretary of Defense (Installations and Logistics) (ASD (I&L)) by direction of the Secretary of Defense and in coordination with the Secretaries of the Army, Navy and Air Force and the Director of the Defense Supply Agency, establishes uniform policies and procedures for the Department of Defense, relating to the procurement of supplies and services under the authority of Chapter 137, Title 10 of the United States Code, or under other statutory authority.

#### 10202. Automatic Release Date (ARD).

- (1) Contractor Inventory. The date established by the cognizant plant clearance officer to indicate the completion of the utilization screening period.
- (2) Other than Contractor Inventory. The date established by the Defense Industrial Plant Equipment Center (DIPEC) to indicate the completion of the utilization screening period.

#### 10203. Change Report.

A mechanized report or DD Form 1342, DoD Property Record, marked "Active" and "Change" in block I indicating a change to be made on an existing record in the DoD inventory as specified in paragraph 20301.

#### 10204. Classified IPE.

IPE which is classified by a DoD component to protect a defense program, military operation, system or equipment application.

#### 10205. Contaminated IPE.

IPE which has been exposed to hazardous material and under conditions incident to handling or storage may cause fire, create serious damage by chemical action or create a serious hazard to personnel or property. Hazardous material includes explosives, flammable substances, toxics, chemicals, compressed gases, sources of radiation or radiant energy, biological or radiological agents, or any compound, mixture, element or material which because of its nature, is a real or potential danger to life and properties.

#### 10206. Decontaminated IPE.

IPE which has been made free of hazardous contaminants and is safe for handling, transportation, and storage by unprotected personnel and harmless to all property and surroundings.

#### 10207. Defense Industrial Plant Equipment Center (DIPEC).

A primary level field activity of the Defense Supply Agency (DSA) responsible for providing services to DoD components in performance of the functions set forth in this manual.

#### 10208. Defense Industrial Reserve (DIR).

Defense Industrial Reserve means a general reserve of industrial manufacturing equipment, including machine tools,

selected by the Secretary of Defense for retention for national defense or for other emergency use; industrial plants and installations, held by and under the control of the Department of Defense in active or inactive status, including Government—owned/Government—operated plants and installations and Government—owned/contractor—operated plants and installations which are retained for use in their entirety, or in part, for production of military weapon systems, munitions, components, or supplies; industrial plants and installations, under the control of the Secretary of Defense which are not required for the immediate need of any department or agency of the Government and which should be sold, leased, or otherwise disposed of.

#### 10209. Defense Standardization Program.

A program, established by law, which requires the standardization of material, components, equipment, and processes with respect to items of supply and services; approved for use by the Military Services to improve the efficiency and effectiveness of logistical support and operational readiness and conserve money, manpower, time, production facilities, and natural resources in the Department of Defense.

#### 10210. DoD Component.

A Military Department or defense agency and its subordinate activities.

#### 10211. DoD General Reserve.

An unassigned inventory of IPE held under the direction and control of DSA to support current and projected DoD requirements.

#### 10212. Elephant Tools.

Items of industrial plant equipment with an acquisition cost of \$100,000 or more, exclusive of numerical control attachments. They are long procurement and installation lead time tools (e.g., 18 months), requiring building alterations to install, are difficult to remove, usually requiring dismantling and building rehabilitation.

#### 10213. Excess IPE.

Items of IPE which are not required by the owning DoD component, and which are not required by DIPEC to support current and future requirements of DoD in accordance with the policies and procedures contained in DoD Directive 4215.18 and this manual.

#### 10214. Facilities Contract.

A contract under which Government facilities, and occasionally special tooling and special test equipment, are provided to a contractor or a subcontractor by the Government for use in connection with the performance of a separate contract or contracts for supplies or services.

#### 10215. Historical Record.

A record or group of records on each item of IPE, which accompanies the equipment on transfer. (See paragraph 20203.)

#### 10216. Idle Change Report.

A DD Form 1342 marked "Idle" and "Change" in block 1 indicating a correction to be made on a previously submitted report of idle IPE.

#### 10217. Idle IPE.

Idle IPE. DoD-owned equipment (in contractors' plants, in military installations or activities, or in supply system stocks) which meets all the criteria for IPE, is excess to contractual or mission requirements and is available to DSA for the General Reserve, for redistribution, or for reporting to the General Services Administration (GQA1 for other Federal agency screening. See Appendix IC for appropriate status codes.

Note. IPE in contractor plants but certified to the effect that (1) equipment will be required to support a Prime Contract Schedule–DD Form 1619, DoD Industrial Preparedness Program Production Planning Schedule, for which a PEP # has not been assigned, (2) mobilization base requirements are being developed in support of a planned emergency production schedule, (3) equipment is required to support foreseeable future military production contracts will be reported to DIPEC as status code 4F. IPE authorized at a military installation or activity, subject to intermittent use, but required to remain in place to support a current assigned mission, will be reported to DIPEC under status code 3H.

#### 10218. Idle Report.

A DD Form 1342 marked idle in block 1, signifying that idle IPE is being reported in accordance with paragraph 20501.

#### 10219. Industrial Plant Equipment (IPE).

IPE is that part of plant equipment with an acquisition cost of \$1,000 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, and IPE is identified by descriptive name in Joint DoD Handbooks, DSAH 4216 series as listed in Appendix 113.

#### 10220. Initial Report.

A Mechanized report or DD Form 1342 marked "Active" and "Initial" in block I for an item being reported to the DoD inventory for the first time. If an idle item has not previously been reported as "Active," the report will be marked "Idle" and "Initial".

#### 10221. IPE Accessory.

A device identified to the basic unit of IPE which facilitates or enhances the operation but which is not essential for its operation, such as remote control devices.

#### 10222. IPE Auxiliary.

A device identified to the basic unit of IPE without which the basic unit cannot operate, such as motors for pumps and machine tools.

#### 10223. IPE Material Release

Order/Shipping Instructions. Shipping instructions issued by DIPEC to direct shipment of idle IPE will be by MILSTRIP documentation (DD Form 1348M DoD Single Line Item Requisition System Document (Mechanical); DD Form 1348–1 DoD Single Line Item Release/ Receipt Document, or MILSTRIP teletype format).

#### 10224. Machine Tools.

A category of metalworking machines which meet the definition of IPE (see paragraph 10219) and found in Federal Supply Classes 3405, 3408, 3410 through 3419, and 3441 through 3449.

#### 10225. Manufacturing System.

Machines and equipment, including accessory and auxiliary items, which are interconnected to form a single operating unit to perform continuously the same manufacturing process.

#### 10226. Military Sealift Command.

A Single Manager Operating Agency under the Department of Navy Command responsible for providing ocean transportation support to the DoD components.

#### 10227. Military Traffic Management Command (MTMC).

A command under the Department of Army, responsible for procurement, use, cost, and control of commercial transportation services required in the movement of cargo and passengers for the DoD components within the continental United States; and for input control of military traffic into all air and ocean terminals.

#### 10228. Modernization Costs.

Expenditures, which result from increasing the original capacities and capabilities of IPE, or an increase in its efficiency or operating economy.

#### 10229. Modernization/Replacement.

Refers to the replacement of one or more existing items of equipment in order to achieve economic or industrial preparedness advantages to the DoD through increased efficiency. Items which are government–furnished may be replaced either by 1.3 new procurement or equipment from idle inventories. Replacement action must be supported by an analysis of cost savings or industrial preparedness benefits to be realized.

#### 10230. Plant Equipment.

Personal property of a capital nature (consisting of equipment, machine tools, test equipment, furniture, vehicles, and accessory and auxiliary items, but excluding special tooling and special test equipment) used or capable of use in the manufacture of supplies or in the performance of services or for any administrative or general purpose.

#### 10231. Plant Equipment Package (PEP).

A complement of active and idle plant equipment approved for retention by the Assistant Secretaries of the Military Departments and the Director of the Defense Logistics Agency in accordance with DoD Directives and this manual.

#### 10232. Plant Equipment Code (PEC).

A twelve-digit subclassification system within the framework of the Federal Supply Classification (FSC) to encode the primary characteristics of items of IPE.

#### 10233. Quality Assurance.

Quality assurance comprises a planned and systematic pattern of all actions necessary to provide adequate confidence that the item will perform satisfactorily in service.

#### 10234. Rebuild/Overhaul.

To restore an item to a standard as near as possible to original or new condition in appearance, performance and life expectancy.

#### 10235. Repair.

The specified maintenance required to correct material damage or failure, as necessary, to restore the end item, assembly or subassembly to the normal operating condition.

#### 10236. Replacement of Industrial Plant Equipment.

This refers to replacement of one or more existing items of Industrial equipment by another item or items in order to achieve economic and/or industrial preparedness advantage to the DoD through increased efficiency.

#### 10237. Serviceable Item.

Item in new or used condition suitable for issue and use.

#### 10238. Service Code.

A one-digit code signifying DoD component ownership and/or management control.

#### 10239. Supply System Stocks of IPE.

Inventory Control Point (ICP) controlled materiel identified by NSN, determined to be IPE and reported to DIPEC by mutual agreement between DLA and other DoD components.

#### 10240. Transfer Report.

A shipment status card or a shipping document, stamped "Notification of Shipment" and containing shipment status data, such as bill of lading number, date and made of shipment, which is furnished to DIPEC signifying that IPE has been transferred in accordance with a DIPEC shipping instruction.

#### 10241. Ummtidactory Material Report (UMR).

A customer complaint concerning the unsatisfactory quality of an item for which DLA has management cognizance. This also includes complaints where DLA procured or shipped items at the request of the customer.

#### Chapter 2

#### INVENTORY ACCOUNTING, RECORDING AND REPORTING

#### Section I

#### **POLICY**

This chapter prescribes the policy and procedures for inventory accounting, recording and reporting of DoD-owned IPE

#### 20101. Inventory Accounting.

- (1) DIPEC will maintain central item and financial property accountability for all DoD-owned idle IPE in DLA operated storage sites or at other locations as may be determined between the DoD components and DLA. DIPEC will not assume accountability for:
  - (a) Approved Plant Equipment Packages (PEP's).
  - (b) IPE installed in mobile vans and ships.
  - (c) Service mission stocks.
  - (d) Idle IPE stored at a contractor's plant.

In the event idle IPE is stored at a contractor's plant, the IPE must be covered by an appropriate contractual instrument and accountability and responsibility will remain with the contractor. Such contract will be administered by the

cognizant; DoD components identified in DoD 4105.59-H, DoD Directory of Contract Administration Services Components.

- (2) As agreed to between DoD components and DLA, accountability records for approved PEPs located in DLA operated storage sites will be maintained by one of the following:
  - (a) The owning DoD component.
  - (b) A duly appointed property officer on site under a property account number of the owning DoD component.
  - (c) Contractor as provided under terms of the contract.
  - (3) Property accountability for in-use IPE will be in accordance with individual DoD component regulations.

#### 20102. Inventory Recording and Reporting.

- (1) DIPEC will:
- (a) Develop, publish and administer an inventory recording and reporting system for use throughout the DoD. This system will provide for the recording of specific data such as location, identification, classification, condition, and operational status of all reportable IPE.
- (b) Maintain an accurate and complete central inventory record of all active and idle IPE, reported by DoD activities and Defense contractors and a central inventory record of supply system stocks of IPE held by Inventory Control Points (ICP's).
- (c) Upon request, assist DoD components in reporting items of IPE not previously reported as part of the central inventory record.
  - (d) Accumulate statistical data, provide services, and submit required reports and information to DoD components.
  - (e) Determine IPE excess to DIPEC requirements through the processes outlined in paragraph 30301-3.
- (2) DoD components will report to DIPEC the necessary IPE data relative to new item acquisitions, in-use items, supply system stocks, declared service/agency excesses, disposals, data or status changes for the active inventory, changes of an item from active to idle status, including those items being held in support of approved departmental mobilization reserve requirements.
- (a) Reporting of individual IPE items may be accomplished by manual media or by mechanized procedure where feasible and agreed to by DIPEC and the reporting activity. Mechanized reports are prepared on 80–column EAM cards or magnetic tape and submitted to DIPEC by mail or via AUTODIN. Magnetic tapes will be prepared on one–half inch; nine channel tape, even parity, with 16UO BPI and labels omitted. New acquisitions and changes to the active inventory will be prepared as single 80–character records. A hard copy of the IPE inventory record, furnished by DIPEC when mechanized reports are processed, may be used to establish the historical record (see par. 20203).
- (b) In-use IPE not required to be reported by individual item in accordance with Section II below will be reported by line item according to Chapter 12.
  - (c) Supply system stock of IPE will be reported using the format in Appendix 2E. See- Chapter 12.
  - (3) Exempt from, reporting to DIPEC are the following:
  - (a) In-use IPE in custody of military units tactically deployed or capable of being deployed.
  - (b) In-use IIIE installed in mobile conveyances such as shop van and ships.
  - (c) Special purpose equipment peculiar to one DoD component, except as may be requested for inclusion.
  - (d) IPE specified by the DOD component as classified for security reasons (to be reported when declassified)
- (e) General purpose components of special test equipment, which would otherwise qualify as IPE (to be reported when idle—see paragraph 20201.2b).
  - (f) IPE condition coded X or S.
- (g) IPE that is idle but has been exposed to any type hazardous contamination and is unsuitable or hazardous for general purpose use (to be reported idle when decontaminated).

### . Section II INITIAL REPORTING.

#### 20201. Procedure.

- (1) In- use IPE field by a DoD component will be reported to DIPEC as agreed to between the DOD component and DLA.
- (2) Upon initial acquisition, all IPE (see paragraph 10219 for definition) will be reported to DIPEC except as noted in paragraph 20102–3. Appendix 1A is for reference purposes only and lists those Federal Supply Classes (FSCs) which contain 1PE reportable to DIPEC. IPE reportable to DIPEC is further identified by descriptive name in the IPE handbook listed in Appendix 113.

- (a) When IPE is included in an assembly of machinery and equipment (such as a plating line) which is interconnected—to form a single operating unit to perform continuously the same manufacturing process, report each separate component which is identifiable as a reportable IPE item.
- (b) When IPE is installed as a general purpose component of special test equipment, which is no longer, required by the using DOD component and cannot be utilized to meet other approved special test equipment requirements, it will be reported to DIPEC. Contractor held IPE components will be reported in accordance with ASPR 24–205.4 and B–306, 1.
- (3) Within 30 days after initial receipt of equipment into the DOD inventory from any source, except transfers directed by DIPEC or the controlling DOD component, the office charged with property administration or accountability will complete, or ensure the completion of a DD Form 1342, or mechanized report, for each item of equipment so acquired. In the case of numerically controlled IPE, Type Codes 5, 6, and 7, Section VI of DD Form 1342 (Page 2) will be completed and transmitted with the DD Form 1342 (Page 1). Reports submitted to DIPEC with incomplete or incorrect information will be returned to the submitting office for correction and resubmission.

#### 20202. Preparation of DD Form 1342, DoD Property Record.

The DD Form 1342 will be prepared by typewriter by the appropriate reporting officer or contractor in possession and must contain all information required by Appendix 2A. A copy of the DD Form 1342 will be placed in the historical record established and maintained in accordance with paragraph 20203. One copy of the DD Form 1342 will be forwarded to DIPEC. The original copy of the form will be retained by the contractor as prescribed by the ASPR or by the accountable property office.

#### 20203. Historical Records.

- (1) The historical record will include the following data on each item of IPE:
- (a) Copy of inventory, inspection and change data or supplementary data, such as DD Form 1342 or the equivalent.
- (b) Copy of any document marked "packing list" which describes the basic item and lists all accessories and auxiliaries identified to the basic item.

Note. DD Form 1342 appropriately marked may be used.

- (c) When available, copy of inspection and test records, reports, and forms, such as DIPEC Metalworking Equipment Inspection—Test Records for analytical tests, work orders, maintenance expenditures, cost estimates of repair or rebuild and related data, which will fully depict the current operating condition of the equipment.
- (d) Copy of purchase order, purchase description, receiving reports, DD Form 250, Material Inspection and Receiving–Report, shipping instruction, shipping document, damage or shortage reports, and related control documents which are not retained in other administrative or official contract files or used for other purposes.
- (e) When available, technical data, including operating and installation instruction, diagrams of electrical and hydraulic systems and utility connections, photographs, manuals and other manufacturer's literature, machine parts lists and lubricating charts that are acquired from the manufacturer when IPE is purchased.
  - (2) Disposition of historical records will be accomplished as follows:
  - (a) When IPE is transferred to another DoD component, the historical record will be forwarded to the consignee.
- (b) When IPE is transferred or donated to a non-DoD agency or organization, or when the equipment is sold, the file consisting only of the technical data such as drawings, diagrams, manuals, other manufacturer's literature and analytical test forms, will be offered for transfer with the IPE. All other historical record data which are no longer required for the IPE will be discarded.
- (c) When an item of IPE is destroyed or abandoned, all historical record data will be disposed of, unless a known requirement exists.

#### 20204. IPE Accessories and Auxiliary Equipment.

- (1) All accessories and auxiliary equipment attached or identified to an item of IPE will be entered and described on the DD Form 1342 in accordance with Appendices 2A and 2B. When mechanized reporting procedures are used in lieu of DD Form 1342, appropriate documentation will be filed in the IPE historical record to reflect accessories and auxiliary equipment currently identified to the basic item. In the event accessories and auxiliary equipment are added, removed, or reassigned to another item of IPE, the using/holding DoD component will update the respective DD Forms 1342 or other appropriate documentation to reflect the change in accessories and auxiliaries and to adjust the acquisition costs of the IPE. Precision fitted accessories and auxiliary equipment will not be assigned to another item of equipment.
  - (2) When necessary to ensure that all accessories and auxiliary items are retained with the IPE and returned when

idle, each separate accessory and auxiliary item will be identified to the item of IPE by use of a system of marking or tagging. When stored separately, a record will be maintained as to the separate location.

#### 20205. IPE Identification/Government Tag Number.

IPE identification numbers assigned by a DoD component and affixed to plant equipment in accordance with DoD component procedures and ASPR B-404 will be used for identification and reporting of IPE. The assigned number will be permanent and will not be changed as long as IPE remains under the control of the DoD, except when necessary to eliminate duplicate numbers. A DIPEC control number may be assigned to IPE when the permanent identification number is not suitable for property records identification or central inventory control purposes. DIPEC will advise the holding/using DoD component when a DIPEC control number is assigned. The original identification number assigned by a DoD component will be permanently retained and recorded on the DD Form 1342 and in the Central Inventory Record.

*Note.*: DoD components should obtain DoD component serial numbers locally or from the cognizant property administration or procuring activity. Air Force identification numbered plates are obtained by forwarding a requisition to DIPEC.

### Section III CHANGE REPORTING

#### 20301. Reporting Changes.

(1) Change reporting will be accomplished in accordance with Appendix 2D, or by a listing of identification numbers with an explanation of changes to major elements of data. Only the following type changes will be reported as they occur except as provided in Appendix 2C:

#### SECTION I - MAJOR ELEMENT

(DD Form	1342)
Block 3	Identification Number
Block 4	Commodity Code
Block 6	Acquisition Cost
Block 11	Service Code
Block 12	Command Code
Block 13	Administering Office
Block 25e	Contract Number
Block 28	Present Location

Note. Changes in corporate name or military organizational designation in block 28 will also be reported as they occur.

- (2) Changes which involve elements other than identified in subparagraph 1 above will be reported at the time any of the above changes are reported or when the item is declared idle.
- (3) Changes to status codes (see Appendix 10 in central records will be made by DIPEC upon receipt of appropriate documents (e.g., DD Form 1342, DD Form 1419, DoD Industrial Plant Equipment Requisition) from owning DoD component.

### Section IV REPORTING TRANSFERS

#### 20401. Procedure.

- (1) Administering offices within the Department of Defense will affect the transfer of DoD-owned idle IPE only after receipt of a shipping instruction issued by DIPEC. (See paragraph 10223). DIPEC will advise DoD components when reporting requirements of appendix 2C are waived. InterService transfer of supply system IPE under management of an ICP of a DoD component will be processed in accordance with chapter 12.
- (2) The DoD component's acceptance of an item offered by DIPEC as the result of a DD Form 1419 or MILSTRIP requisition will result in issuance of a shipping instruction (see chapter 3, Section 11, Requisitioning). The shipping instruction issued by DIPEC and forwarded to the administering office will be the authority for the transfer (see chapter 4, section III Transportation). Preparation for shipment will be accomplished in accordance with the requirements of MIL–STD–107 and MILHKBK–701. (Appendix 3C will be used for guidance to assure the proper levels of preservations and packing are specified and that required documentation is distributed.) The date and method of shipment will be reported by the consignor (shipper) in accordance with appendix 2C.
- (3) Transfers of DoD-excess and surplus IPE authorized by GSA will be reported by sending a shipment status card or one copy of the completed shipping document to DIPEC.

### Section V IDLE DECLARATIONS

#### 20501. Procedure.

(1) IPE will be reported to DIPEC by the last user through required intermediate activity within 15 working days after becoming idle, except as noted below. The inspection data necessary to determine operating condition will be obtained by operational testing of equipment while connected to power whenever possible (see paragraph 70401). Also, tolerance capabilities and maintenance and quality control records should be checked and the machine operator and maintenance personnel consulted before the test. If significant problems are encountered during the inspection, technically qualified equipment specialists and quality assurance personnel will also be consulted. In the case of numerically controlled IPE costing \$50,000 or more, the last user will forward advance notice to DIPEC through required intermediate activity at least 30 days prior to the anticipated date of idle reporting for scheduling removal of the IPE to another user or to coordinate and provide other disposition. The condition code must be compatible with the estimated repair or rebuild costs. Idle IPE may be reported by mechanized media (paragraph 20102–2, DD Form 1342 (appendix 213), or by appropriate notification (subparagraph 2 below).

*Note.* If any numerical control data for IPE has changed since submission of the initial report, submit a new page 2 of the DD Form 1342 showing the corrected data in the appropriate block(s).

- (a) Prior to intraservice agency redistribution/movement of DoD component controlled IPE assets, a minimum data query (i.e., NSN or other identification data, unit cost, current location, proposed location) will be made to DIPEC to determine availability, of an idle asset at a more appropriate location. Within 10 working days, DIPEC will advise that there is, or is not, a suitable item in the idle reserve. In the event a suitable item is available which would reduce packing, handling and transportation costs, DIPEC will forward a DD Form 1342 or equivalent for review. DIPEC will be notified of acceptance or rejection of the offer within 10 working days.
- (b) Supply system items of idle (local excess) IPE at DoD component using activities will be reported in accordance with chapter 12.
- (c) National Stock Numbered (NSN) supply system stocks of IPE, which are under the management control of an ICP, will be reported in accordance with chapter 12.
- (2) If there is a planned phase–down of a production operation which will result in a substantial number of idle items, or when the use of all items at a facility will terminate upon completion of the purpose for which the IPE was authorized or provided, the administering office will, at the earliest practical date, forward a notification to DIPEC of the estimated number of items, the name and location of the facility, and the approximate date the equipment will become idle. In collaboration with the reporting DOD component, DIPEC will determine the IPE to be removed from the plant and will schedule its removal to other areas of use or provide other disposition. Items selected for retention will be analytically inspected/operationally tested to the maximum extent practical in accordance with paragraph 70401.
- (3) DOD components will report to DIPEC all IPE located on Government—owned real property that is excess to Military Department requirements. If the owning DOD component proposes to hold intact the idle IPE as a part of excess real property which will be offered for sale, it should be reported idle under Status Code 4E, indicating that OUSDR&E (AP) approval is being requested to exclude the equipment from redistribution action pending a decision on the sale. Such requests will be forwarded to reach OUSDR&E (AP) within 30 days from the date the equipment is reported idle to DIPEC. DIPEC will hold these items in idle status pending decision by OUSDR&E (AP).
- (4) During the first 30 days after the date of an idle declaration, D I PEC will give first priority for allocation to the reporting, DoD component. During this, 30 day priority period the equipment will remain at the location from which it was reported. DOD components may waive the priority period when immediate disposition instructions are required, when the equipment is beyond economical repair, or otherwise not desired for use by the reporting Department or Agency. If the service priority is to be waived, this should be reported by entering Status Code 4C in the report (see appendix 10. While DIPEC will maintain central inventory records for all items stored in central storage sites, including PEP type items, no distribution or utilization of package items will be made without approved DD Form 7470, Request for Release of Equipment assigned to Plant Equipment Packages.
- (5) Prior to exchanging or selling nonexcess IPE selected for replacement under exchange/sale procedures, DOD components will report the item(s) as idle to DIPEC for screening and redistribution within the DOD on a nonreimbursement basis in accordance with paragraph 20601–1a and DODI 4160.1. GSA authorized transfer to agencies outside the DoD will require reimbursement. (Exchange/sale IPE will not be made available for donation screening.)

#### Section VI DoD EXCESS AND DISPOSAL REPORTING

#### 20601. Procedure.

- (1) DIPEC will:
- (a) Process idle reports (DD Forms 1342) according to paragraph 30401.
- (b) Provide disposition instructions on all idle reports.

- (c) Follow-up to the military submitting/bolding activity at 30-day intervals until notification is received from the Defense Property Disposal Service (DPDS) that accountability has been transferred to the disposal activity.
  - (d) Submit reports of DoD-excess IPE to the General Services Administration (GSA).
  - (e) Collect, maintain and report disposal data, including sales of IPE to small and large businesses.
- (2) The MILSTRIP Document Number assigned by the reporting DOD component to each DD Form 1342 according to DoD 4160.21–M, Chapter VI, Paragraph B51 (also see appendix 213, paragraph 3 of this manual) will be included in the DIPEC disposition instructions. When disposition instructions require turn–in of DoD–excess IPE to a Defense Property Disposal Office (DPDO), the same MILSTRIP Document Number will be used as the Disposal Turn–in Document (DTID) number. In addition, disposition instructions to military activities and contractors will include a DIPEC Excess Report Number for each DD Form 1342. The DIPEC Excess Report Number will be constructed in the same manner as the MILSTRIP Document Number using the DIPEC Activity Address Code SE4300 to expedite processing through DPDS and to aid in communications between GSA and DIPEC Documentation used for transfer of IPE accountability to DPDOs will include two copies of the DD Form 1342 and one copy of the DIPEC disposition instructions. Except for contractor inventory, DIPEC will not report DoD–excess IPE to GSA until notice of receipt by the DPDO has been received from DPDS.
- (3) Donation, sale, abandonment, or destruction of IPE by contractors will be reported to DIPEC (see ASPR B-306.1 or C-306.1). Block 3, block 4 or block 5, and block 28a of the DD Form 1342 will be verified, Section IV will be completed and the DD Form 1342 returned to DIPEC. If IPE is sold, Section IV will be annotated to identify the purchaser as large or small business (see ASPR 24–206.1(k) and 24–302.8 (b) 00.
- (4) Final disposal data for IPE (other than contractor inventory) will be reported to DIPEC in accordance with Integrated Disposal Management System (IDMS) Procedures (DPDSH 4160.3).

*Note.* DIPEC will be advised to drop items from the central inventory record which are in condition codes X or S, or contaminated, and are excluded from idle reporting in accordance with paragraph 20102–3.

### Chapter 3 PLANT EQUIPMENT MANAGEMENT

### Section I POLICY

This chapter prescribes the policy and procedures for inventory management of DoD-owned IPE.

#### 30101. Inventory Management.

- 1. DIPEC will:
- (a) Control all equipment allocations and distribution actions for all DoD-owned idle IPE. ICP controlled supply system stocks are redistributed according to procedures in chapter 12. NOTE: While DIPEC will maintain central inventory records for all items in central storage sites, including Plant Equipment Packages, no redistribution or utilization of package items will be made without approval of the cognizant DoD component.
  - (b) Receive idle declarations from the DoD components and Reserve.
- (1) Allocate to fill current requirements. Subject to priority requirements, give first preference for reuse to the reporting department or agency that materialize within 30 days after the date of the idle declaration.
  - (2) Select items for retention in the General
  - (3) Provide notices of actions taken.
- (c) Receive requisitions from DoD components and provide suitable equipment or issue Certificates of Non-Availability (CNA). In the event suitable equipment is undergoing, or is available for rehabilitation at a maintenance depot and will be available on or before the required date indicated in DD Form 1419, section 11, block 14, the requisitioning activity will be so advised, and the issuance of a CNA will be deferred.
- (d) In instances where DIPEC and the requisitioning activity cannot agree on deferrals of CNA or any allocations of equipment, arrangements will be made with the requisitioning activity to prepare and submit a justification for the rejection. The justification will be transmitted to OUSDR&E (AP) via HQ, DLA for adjudication.
  - (e) Select, compile, maintain, and control a balanced general reserve pursuant to DoD policy.
- (f) Establish and maintain a holding/set aside system for each DoD component based upon projected requirements and assets available in DIPEC.
  - (g) Maintain a location record for numerically controlled (NC) IPE and elephant tools.
  - (h) Transfer DoD-owned unassigned idle IPE to the DoD component on a nonreimbursable basis.
  - (2) DoD Components will:
- (a) Determine and submit to DIPEC all current and projected IPE operational, mobilization reserve, and modernization requirements for IPE.
  - (b) Exercise management control over all in-use equipment and mission stocks.

- (c) Identify and report to DIPEC, IPE located at DoD in-house installations and activities held for intermittent use as mission support items,
- (d) Assure that idle IPE which remains in possession of Defense contractors pending completion of mobilization planning is certified by the Armed Services Procurement Planning Officer (ASPPO) and the Procuring Conti-acting Officer (PCO) as authorized under planned mobilization requirements. The PCO also certifies retention of IPE to support foreseeable future military production contracts. Certification for retention of idle IPE under this temporary status will be entered on the idle declaration forwarded to DIPEC, reference appendix 1C, Status Code 4F. A DD Form 1519 or a certified V status code is not a substitute fm contractual authority; therefore, pending receipt of a new production or package contract, contractual coverage must continue to be maintained either by extension of the current contract or by the execution of a storage agreement. See paragraph 11f, appendix 2B.
- (1) Quarterly listings of idle IPE reported as being held under status 4F will be prepared by DIPEC and forwarded to the ASPPO/PCO responsible for certification of IPE requirement. After each annual review by the ASPPO/PCO/DoD component of the need for continuing retention under status V, a recertification of such need will be made at the end of the calendar year and forwarded to reach OUSDR&E (AP), with copy to DIPEC not later than March 1 of each year. DIPEC will furnish disposition instructions to the certifying official or DoD component for items removed from 4F status.
- (2) When requisitions cannot be filled by DIPEC from the DoD General Reserve and there are suitable assets in status 4F. DIPEC will issue a certificate of Non-Availability and forward a list of the status V items and their locations. The requester will be responsible for determining their availability and coordinating with DIPEC for preparation of necessary shipping instructions.
  - (e) Make available information on excess elephant tool and numerically controlled IPE capacity.

#### 30102. Plant Equipment Package Management.

- (1) The Assistant Secretaries of the Military Departments and Director of the Defense Logistics Agency will be responsible for the following actions involving plant equipment packages (PEPs):
  - (a) Approve each group of items determined to be essential for a mobilization program.
  - (b) Review and recertify annually the requirement for PEP items.
  - (c) Discontinue PEPs when requirements no longer exist.
- (d) Continue to use currently assigned PEP numbers as long as the facilities are retained for the original designated purpose.
  - (e) When new PEPs are established, assign numbers consecutively from those listed below:
    - (1) Army Numbers 1000 thru 1999
    - (2) Navy Numbers 2000 thru 2999
    - (3) AF Numbers 3000 thru 3999
    - (4) DLA Numbers 4000 thru 4999
  - (2) The responsible DoD component will:
- (a) Prior to inactivation of in-use plant equipment, determine the need for retention for industrial preparedness based on the following criteria:
- (1) It provides production capacity to meet critical mobilization preparedness or surge capacity needs of the sponsoring Military Department(s) derived through the use of, and in consonance with, current Secretary of Defense Planning Guidance in accordance with DoD Instruction 7045.7, Planning, Programming and Budget System.
- (2) A determination that adequate source(s) will not be available to produce specific military items based on studies of time-phased mobilization capacities of military industrial facilities and private industry.
- (3) A need for such capacity in accordance with the policies set forth in DoDD 4006.1, Industrial Preparedness Planning.
  - (b) Forward to DIPEC and to cognizant contract administrative service office copies of:
    - (1) Approved Format A reports or other notice of approval showing approval number.
- (2) Approved Format B reports or other recertification. Approval will be assumed by DIPEC if information copy is not received within 45 days after the annual review date.
- (3) Approved Format C reports for each PEP which no longer meet the criteria for retention and disposition instructions to include as a minimum: PEC, identification number. This will indicate plant equipment to be declared excess and reassigned. A DD Form 1419 will be attached for each unit of IPE to be reassigned. A letter may be used in lieu of the DD Form 1419 to requisition for bulk transfer to another location. A DD Form 1342 will be furnished to DIPEC for each unit in reparable condition not previously reported.
- (4) Additions/deletions to an approved PEP by either a DD Form 1342 or an equipment listing containing the ID number, Government tag number, PEC, acquisition cost, and possessor code for each unit of plant equipment involved.
- (c) Show the PEP approval number on each DD Form 1342 and other records relating to that particular package indicating concurrence in the establishment or continuation of the package. All items of plant equipment comprising the complete complement of equipment of an approved PEP will be retained intact and will not be allocated to other use, except as provided in paragraph 30201–2.

- (d) Screen through DIPEC idle inventories for availability prior to procurement when changes in end item design, increases in production schedules, or technical obsolescence of plant equipment held in PEPs require replacement or additional equipment to maintain required production capability.
- (3) DIPEC will maintain and provide a quarterly report on PEP status (Planning Data for PEPs) to each DoD component and the OUSDR&E (AP).

#### 30103. Modernization/Replacement of Industrial Plant Equipment.

- (1) DD Form 1106, Industrial Plant Equipment Replacement Analysis worksheet, will be prepared as prescribed in Appendix 6A.
- (2) For all IPE other than those listed in Appendix 6B which will be used on a current contract/program of sufficient duration to amortize the required investment, replacement will be justified in accordance with the procedures set forth in DODI 7041.3, Economic Analysis and Program Evaluation for Resource Management.
- (3) Replacement should be accomplished to preclude technical obsolescence of plant equipment retained to provide industrial capabilities when analysis of existing facilities indicates the advisability of such action although specific itemized economic justification cannot be developed. Before authorizing such replacement a determination should be made, in each instance, that the equipment is in fact required to be retained for fulfillment of a specific industrial preparedness assignment, which could not be fulfilled as efficiently and economically by the equipment on hand.
- (4) When replacement is planned, action will first be taken to obtain suitable equipment from the DoD General Reserve in accordance with paragraph 30201.
- (5) Upon determination that replacement of additional IPE is required by new procurement, the requirements will be programmed in accordance with existing procedures. Where reprogramming of appropriate funds is involved, policy and, procedures contained in DODI 7250.10, Implementation of Reprogramming of Appropriate Funds, will apply.

### Section II REQUISITIONNG

#### 30201. Procedure.

- (1) Requisitions will be submitted to DIPEC and processed as follows:
- (a) DD Form 1419 will be prepared as prescribed in appendix 3A to provide DIPEC with the original and two copies. To allow sufficient time (or screening the DoD General Reserve and providing Certificates of Non–Availability (CNA) when assets are not available, requisitions will be submitted to DIPEC 10 calendar days in advance of the CNA required date (appendix 3A, paragraph 4g). Urgent requirements are submitted according to subparagraph d below.
- (b) DoD components may also submit MILSTRIP requisitions to DIPEC using DD Forms 1348–6 and 1348–M or MILSTRIP message format. When MILSTRIP requisitions are submitted and the item of IPE is available, DIPEC will offer IPE in accordance with subparagraph 2c below. In cases where acceptance and inspection notices are waived based on previous negotiations with DIPEC MILSTRIP requisitions will be submitted by teletype or mail. When required, cite the Packing, Crating, Handling and Transportation appropriation (see paragraph 40102–3b) and budget activity number. Special shipping instructions will be included as exception data in the remarks section of the MILSTRIP requisition. DIPEC will initiate shipping action in accordance with paragraph 2d below, and provide standard MILSTRIP supply and shipment data required by the media and status code (column 7).
- (c) A separate DD Form 1419 or MILSTRIP requisition must be submitted for each individual item of equipment except as authorized in subparagraph h.
- (d) When warranted by the urgency of the situation, requests may be submitted to DIPEC for screening by whatever means deemed expedient. When submitting urgent screening requirements other than on a DD Form— 1419 or MILSTRIP requisition, the following elements of information must be furnished for each item of equipment: (1) Requisition number.
  - (2) NSN/PEC, manufacturer's code, and part
  - (3) Description.
  - (4) Date item desired.
  - (5) Name and address of requiring agency.
  - (6) Contract number and program.
- (7) Statement as to whether item is for production, maintenance, mobilization, replacement, or modernization, and whether item will be procured if not available.
  - (8) Assigned urgency rating.
  - (9) Estimated cost.
- (e) Request must contain sufficient descriptive data (subparagraph d (3) above) to enable DIPEC to search the idle inventory. If acceptance and inspection notices are waived on the basis of previous negotiations with DIPEC, the information required by appendix 3A, paragraph 9, must be furnished with the request.
- (f) IPE requisitioned from the DoD General Reserve will be equipped with attachments and accessories as provided for in paragraph 70301–2a.

- (g) DoD components must submit requests through established approval authority. DoD component supply system approved requests forwarded to DIPEC will indicate in section VIII of the DD Form 1419 if DIPEC should supply from assets on hold against projected requirements.
- (h) If identical items are required, a letter may be forwarded to DIPEC with the data prescribed in subparagraph ld(l) thru (9) and le above. DIPEC will issue a Certificate of Non-Availability for the quantity, which cannot be supplied, and a separate DD Form 1419 for each available item.
- (i) DoD components and Defense contractors will insert in block 16 of DD Form 1419 the proper priority designator as authorized by Uniform Material Movement and Issue Priority System (UMMIPS) in accordance with DoD Instruction 4410.6 or appropriate agency implementation thereof.
- (j) DoD contractors or other DoD components who have not been assigned a Force/Activity Designator for purposes of assigning UMMIPS priority designators to requisitions will indicate in block 16 of the DD Form 1419 the priority authorized in DoD Instruction S-4410.3 (Master Urgency List).
- (k) DoD contractors and other DoD components will advise DIPEC when the priority in block 16, DD Form 1419, has been changed due to work stoppage, program changes, or the like.
- (1) When IPE is not available to fill a DD Form 1419 or MILSTRIP requisition, DIPEC will issue a Certificate of Non-Availability in accordance with paragraph 2g below.
  - (2) Allocation by DIPEC.
  - (a) DIPEC will screen requisitions against all available DoD assets as listed below:
    - (1) Idle equipment reported to DIPEC.
    - (2) Equipment in the DoD General Reserve.
    - (3) Items undergoing excess screening.
- (4) Equipment in the General Reserve retained by DIPEC for military supply system requirements when the request is from a DoD component other than the component for which assets have been set aside. (This source will not be drawn upon for use except with approval of the DoD component for which the assets have been set aside).
  - (5) Excess production capacity of elephant tools and numerically controlled IPE.
- (b) When suitable equipment is not available from the General Reserve (see par. 10211) or from industry for delivery in time to meet production schedules of military programs bearing a high urgency standing, the PEPs (see par. 10231) may be screened and allocations may be made, subject to the approval of the Head of the DoD component.
- (1) DIPEC will reproduce a copy of the latest inventory report for a suitable item in a PEP. Forward a letter, together with the Certificate of Non–Availability and the reproduced copy of the inventory report to the requester advising him of the appropriate DoD component having cognizance over the PEP. When the item described by the DIPEC letter and inventory report is considered suitable for the requirement, the requester will take the following actions to request release of the item from the PEP:
- (a) Advise DIPEC within 10 days if a request (DD Form 770) will be initiated for release of the item from the PEP.
- (b) Prepare a DD Form 770 in accordance with the requirements of the cognizant DoD component, Block 9 of the form must contain the shipping instructions and data necessary for movement of the item from the present location to the user (see appendix 3A, paragraph 9). The appropriation chargeable for all PCH&T costs must be included. (The DoD component requesting transfer of an item from a PEP owned by another DoD component is financially responsible for all costs incident to transfer from and return of the equipment to the loaning DoD component.)
- (c) If inspection of the equipment is required, arrange for such inspection through the owning DoD component specified in the DIPEC letter.
- (d) Forward the DD Form 770 and related documents (Certificate of Non-Availability, copy of DIPEC inventory record and DIPEC letter) to the appropriate DoD component for approval of transfer terms.
  - (e) Advise DIPEC if negotiations for release of the item are successful or not successful. See paragraph 30501.
- (2) The cognizant DoD component having approval authority to authorize release of equipment from the PEP will complete the DD Form 770 according to the results of acceptance, or negotiations, of transfer terms with the requesting DoD component and return the completed forms and related documents to DIPEC for processing, as described in paragraph 30501.
- (c) Upon receipt of a request for a specific item to be allocated and the specific make and model is not available, DIPEC will screen all available assets for a suitable substitute. If the requirement can lie satisfied, DIPEC will place the selected item on hold, complete section IV of the DD Form 1419, and within 10 days return the original and one copy to the requester. Duration of the hold will be 30 calendar days except in special circumstances such as overseas requisitions. An extension of 16 days for the hold may be granted by DIPEC if properly justified. The requester will arrange onsite inspection, if desired, and notify DIPEC of acceptance or rejection. Inspection of idle equipment items will be authorized for that equipment on which a firm hold has been placed by DIPEC. In the event acceptance or rejection notice is not received by DIPEC within the "hold period," request will be automatically cancelled. All holds and allocations of equipment are subject to cancellation and reallocation in support of higher priority programs. When such action is taken, DIPEC will notify the requester within 48 hours after a determination is made to cancel the allocation.

- (d) If by prior agreement, a request is submitted by an activity for a specific item, and either the item requested or an interchangeable item is available in serviceable condition, DIPEC will initiate shipping action. If the requested item or an interchangeable item is not available, DIPEC will screen all available assets for a suitable substitute. If a substitute item is available, DIPEC will complete section IV of the DD Form 1419 and process as indicated in subparagraph 2e above.
- (e) The requester will provide notice of acceptance of an allocated item by completing sections VI and VII of the DD Form 1419 in accordance with the instructions contained in appendix 3A. The original copy will be returned to DIPEC for issuance of appropriate shipping instructions. Status data consisting of supply and shipment data will be furnished when requested in the requisition or at the time of the acceptance, but will be limited to the requisitioner or to the supplementary addressee and, when applicable, to the activity designated by MILSTRIP Column 54 (Distribution Code). The recipient of status data may make appropriate distribution of data to additional addressees. Requesters desiring to inspect equipment prior to final acceptance will notify the IPE holding activity at least 48 hours in advance of the inspection. Shipment of IPE from DLA Storage/ Maintenance will be directed after required maintenance has been performed. When IPE is accepted by the requiring activity without maintenance processing, the administering DoD component will be informed and furnished an estimated repair cost prior to the shipment of the IPE.
- (f) Rejections will be justified by specific reasons. The requester will complete Section VI of DD Form 1419 in accordance with the instructions contained in Appendix 3A and return the original DD Form 1419 to DIPEC on or before expiration of the 30 day allocation period. The reasons for rejection will be reviewed by DIPEC and may result in the allocation of a substitute or interchangeable item based on information contained in the rejection statement or receipt of additional suitable idle assets.
- (g) When screening in DIPEC results in Non-Availability of a suitable asset or when DIPEC is unable to supply an available asset, DIPEC will issue a Certificate of Non-Availability by completing Section V of the DD Form 1419 and returning the original and one copy to the requester or by issuance of a MILSTRIP Supply Status Code "CW". Either of these documents constitute the official Certificate of NonAvailability that is required for procurement action. Prior to issuance of the Certificate of Non-Availability, DIPEC will determine if technical data (e.g., parts lists, wiring diagrams, maintenance instructions, repair and overhaul data, etc.), required for use in the maintenance and repair of the new IPE are available in the DIPEC Central IPE Technical Data Repository. If it is not available, DIPEC may request, by appropriate instructions (DIPEC Form 351, Technical Data Request) with the Certificate of Non-Availability, that an additional set of technical data be acquired with the new IPE and forwarded to DIPEC. DIPEC will continue screening during the 45-day period following the date of issuance of the Certificate of Non-Availability.
- (1) In the event a suitable item is located during the 45 day period, DIPEC will compete Section IV of the DD Form 1419 and forward a reproduced copy to the requester (using the same request number), for acceptance or rejection in accordance with subparagraphs 2e or. 2f above. If a procurement action has progressed beyond the point of economic termination of the purchase order, DIPEC will be advised.
- (2) When a Certificate of Non-Availability is issued because the item described in Section IV cannot be delivered in time to meet requirements, and the supplier identified in Section I cannot deliver the item on or before the time period estimated by DIPEC, the item offered by DIPEC must be considered in lieu of new procurement.
- (h) When screening DIPEC for elephant tools and numerically controlled IPE reveals the existence of identical or interchangeable items of active equipment that might be used economically, a list of activities possessing this type IPE will be forwarded with the Certificate of Non-Availability. The requester may negotiate with the holder of the equipment for utilization of available production capacity.
- (i) DIPEC will return all forms, offerings or Certificates of Non-Availability to the Army or Air Force office shown in block 23 of the DD Form 1419 or to the Navy office shown in block 24.

#### 30202. Rescreening.

If procurement action has not been initiated within 90 calendar days from the date of issuance of the Certificate of NonAvailability, complete rescreening is required. Rescreening may be requested by the most expeditious means. The activity requesting rescreening will identify the initial request number. DIPEC will screen against the initial request for another 45 calendar days unless advised that procurement action has been initiated. Procurement action is considered to have been initiated when a procurement document has been prepared and signed by proper authority and forwarded to the procuring activity.

#### 30203. Cancellation.

If at any time prior to actual receipt of the item, it is determined that a requirement no longer exists, DIPEC will be advised by expeditious means, citing the shipping instruction number.

### Section III REQUIREMENTS

#### 30301. General.

(1) Industrial Plant Equipment requirement categories are as follows:

- (a) Current Requirement. A requirement for initial issue or replacement furnished to DIPEC pursuant to Chapter 3, Section II of this manual.
- (b) Projected Industrial Requirements. Cumulative operational requirements, mobilization requirements, and modernization requirements for items of IPE that will be needed as of a specified future point in time for supply to industrial facilities.
- (c) DoD Component Supply System Projected Requirements. Cumulative requirements for items of IPE that will be needed during the budget year (the next fiscal year) plus procurement lead time for the support of DoD Component Supply System Activities.
- (2) Demand data utilized in DIPEC requirements computations will be based on issues, from the DIPEC inventory as a result of requisitions from DoD components and Certificates, of NonAvailability when a required item of IPE is not available for issue.
  - (3) DIPEC will:
  - (a) Aggregate projected military requirements as they are submitted.
  - (b) Establish and maintain a historical demand file.
  - (c) Analyze current and future DoD program data.
  - (d) Determine long range DoD general reserve requirements to support current and future needs.

#### 30302. Procedures.

- (1) Projected Industrial Requirements. DIPEC will establish quantitative requirements for the DoD General Reserve to support continuing DoD requirements, to augment industry production capacity in event of national emergency and to maintain a stockage level as approved by OUSDR&E (AP). Projected requirements for unusual programs of DoD components will be furnished DIPEC as soon its known to augment stockage objectives and retention levels.
- (2) JCP Supply System Forecasted Procurement requirements will be furnished DIPEC in accordance with Chapter 12.
- (3) DIPEC will adjust computed retention objectives for the General Reserve and retain items to satisfy DoD component projections whenever suitable items generate.

#### Section IV

#### REUTILIZATION SCREENING AND DISPOSAL

#### 30401. Procedure.

- (1) DIPEC will act as the central clearinghouse for all DoD redistribution of idle/excess IPE and for cross-utilization of supply system stocks between Inventory Control Points (ICP's).
- (2) DIPEC will perform an initial screening of idle/excess IPE against all known and reported requirements to include, but not limited to:
  - (a) Support of current requirements.
  - (b) Support of mobilization reserve requirements.
  - (c) Retention in Defense Industrial Reserve.
  - (d) Support of supply system requirements.
  - (e) Replacement of an inferior item in any of the above categories.
- (3) DIPEC will screen the General Reserve and supply system stocks of IPE against all supply system requirements furnished by ICPs, including unprogrammed and urgent requirements. DIPEC will interrogate ICPs having suitable assets to determine availability according to procedures in chapter 12.
- (4) Within 10 days after receipt of the Idle report, DIPEC will provide notice of actions taken to the holding activity reporting idle/ excess IPE, providing the 30-day screening period has been waived, or within 10 days after expiration of the 30-day screening period.
- (5) Upon determination that no requirements exist for idle IPE, including those in subparagraph 2 above, DIPEC will report the item(s) in accordance with paragraph 20601.

#### 30402. Market Impact.

Reports of DoD excess machine tools are reviewed by the Bureau of Domestic Commerce (BDC) and a preliminary determination on industry impact is made in the event of disposal sales. BDC is furnished DoD excess reports twice monthly by DIPEC. The reports are reviewed by BDC during the period of other Federal Agency screening and DIPEC is advised before the ARD if a potential market impact situation exists.

#### Section V LOANS AND LEASES

#### 30501. Loans of OSD Approved Plant Equipment Package

- (1) Items of IPE in OSD Approved PEPs will not be allocated to other use, except when needed to meet current schedules which are of a high priority, and when suitable equipment is not available from Unassigned Reserves or from industry in time to meet production schedules.
- (2) Agreements for transfer of equipment from a PEP for use by another DoD component will be made by mutual agreement of the Heads of the DoD components concerned. The requiring activity will initiate the DD Form 770, requesting interdepartmental transfer and negotiation with the appropriate DoD component (having custody of the PEP) who will furnish approved copies of the DD Form 770 to DIPEC for preparation of necessary shipping instructions. In case of disagreement, ASD (I&L) will make the final decision.
- (3) Requests for transfer of equipment for use by the owning DoD component of the PEP will be approved by the Head of the DoD component concerned. The requiring activity will prepare the DD Form 770 requesting intradepartmental transfer and approval by the cognizant activity of the DoD component having authority to authorize or deny the transfer. In the event physical movement is involved, the controlling DoD component will coordinate the movement with DIPEC for issuance of necessary shipping instructions.
- (4) Equipment on loan will be returned to the controlling DoD component on the agreed upon date. DIPEC will initiate the shipping instructions. Thirty days in advance of the expiration date of the loan, the holding activity will prepare the idle report as specified in paragraph 20501, describing the condition of the equipment. DIPEC will review the Idle report and collaborate with the owning DoD component for return or other disposition of the IPE. If the equipment cannot be returned by the agreed upon date, the borrowing DoD component/Federal Agency will notify DIPEC by letter 60 days in advance of the expiration date of the loan, giving complete PEC/NSN, item identification number, loan agreement number, and complete justification for continuance of the loan beyond the authorized time. If an extension cannot be granted, DIPEC will attempt to resolve the conflict and if unsuccessful, will forward the case to ASD (I&L) through HQ DLA for final decision.
- (5) DIPEC will constantly review available equipment for the purpose of utilizing such items to replace items loaned from PEPs. If satisfactory equipment is located and selected for this purpose, the using DoD component will be permitted to retain the loaned property on a permanent basis.

#### 30502. Loans to Other Government Agencies.

Loans of Department of Defense-owned IPE to Government agencies will be in accordance with agreements executed between DoD/DLA and such agencies. (See appendix 5A for an example.) The DoD/DLA Agreement with the National Aeronautics and Space Administration (NASA) may be found in the NASA Management Instruction 1052.17A, effective 6 December 1974.

#### 30503. Leases.

When suitable IPE is available in the General Reserve for use of defense supporting activities, the equipment will be requisitioned on DD Form 1419 by the DoD component or the Government agency who will execute the lease agreement. DIPEC will state any valid reason for objecting to leasing at the time the DD Form 1419 is submitted. If allocation is made and equipment accepted by the Defense supporting activity, DIPEC will issue the shipping instruction so that a lease agreement can be negotiated.

### Chapter 4 STORAGE AND TRANSPORTATION

#### Section I POLICY

This chapter prescribes policy and procedures for storage and transportation of IPE.

#### 40101. Storage:

- (1) DIPEC will:
- (a) Arrange for storage of unassigned idle IPE and provide for storage of PEPs, including special tooling and test equipment pertinent thereto, in central storage sites.
  - (b) Contract for the operation of contractor operated IPE storage sites under the control of DLA.
- (c) Maintain current Information on the maximum lifting and warehousing capabilities at the IPE central storage sites.
  - (2) DoD Components will:

- (a) Consider the following choices for storage of 'PEP Items, in their order of preference, giving consideration to proximity of planned producer; economy of transportation; time required to reinstall the PEP and vulnerability of the storage site to disruption or destruction:
  - (1) Maintain the PEP in place in the facility where it was but operated.
  - (2) Store the PEP on site or adjacent to point of last use.
- (3) Store the PEP in central storage, In DoD and Government-owned space, pooled under DLA management for the storage of IPE.
  - (b) Comply with MIL-STD-107.
  - (c) Forward requests to DIPEC, as required, for storage of PEP in IPE central storage sites.
  - (d) Allocate storage space to DLA for inclusion in the IPE central storage pool.
- (e) Provide warehousing services at the IPE central storage sites in handling and storage of PEP and the DOD General Reserve.
- (f) Indicate in the Idle declaration whether the item can be stored on site for at least 12 months. If yes, DIPEC will Interrogate the reporting DoD component to obtain storage/maintenance information concerning the type and location of storage.
  - (3) Budgeting and Funding for Warehousing services and storage space at IPE Central Storage Sites.
- (a) Warehousing services at IPE C4ntW Storage Sites will be on a common service (nonreimbursable) basis for DoD components. Services include, receipt, physical inventory, storage, preservation, packaging, packing, marking and issue of material and documentation incident to such operations.
  - (b) Warehousing services provided to non-DoD components will be on a reimbursable basis.
  - (c) Storage space allocated to the central storage pool will be on a common service basis.
- (d) The Military Services will provide, on a common service basis, the maintenance and repair of facilities and the utilities for storage space allocated to the IPE central storage pool.
- (e) The Military Service will provide, on a common service basis, the maintenance and repair of facilities and the utilities for storage space allocated to the IPE central storage pool.

#### 40102. Transportation.

- (1) DIPEC will:
- (a) Authorize the movement of all DoD-owned idle IPE. (Redistribution or movement of PEP items will be made only with approval of the cognizant DoD component.)
- (b) In coordination with DoD components, prepare and maintain plans for emergency movement of equipment from central storage sites to scheduled usage points in event of a national emergency or mobilization.
- (c) Maintain liaison with the DoD components and GSA to provide assistance and resolve problems relative to IPE movements.
  - (d) Compile cost data for transportation between DLA storage points.
- (2) The administering activity will schedule shipments of IPE to assure that the required dates shown in the DIPEC initiated shipping instruction are met. When the scheduled processing time will extend beyond required dates, the administering activity will advise DIPEC.
- (3) Funding responsibility for transportation costs of Defense-owned IPE and associated packing, crating, and handling (PC&H) costs is as follows:
  - (a) DLA will be responsible for movement of:
- (1) Idle IPE from DLA storage and from industrial activities/contractors' possession to storage or another point of use, when directed by DIPEC.
- (2) IPE excessed by the Military Departments from use, storage, or PEPs which are to be retained by DIPEC for the General Reserve.
  - (3) IPE assigned to DLA owned PEPs from any source.
  - (b) The Military Departments will be responsible for movement of IPE:
- (1) In support of the Military supply system and reimbursable activities, i.e., International Logistics Programs for any purpose. PC&H charges will not be assessed on Military supply system items shipped from an IPE Central Storage Site.
  - (2) Assigned to service-owned PEPs from any source. PC&H items shipped from an IPE Central Storage Site.
- (4) Funding responsibility for costs for restoration of the facility and for removal of IPE, including disconnect from power, air, water, disassembly, security, movement of other plant equipment to facilitate accessibility, interruption of contractor productivity, and other similar activities, are not a part of PC&H but are a part of contract costs or a part of normal cost expense for operation of a Government—owned and Government—operated activity, and therefore are a7 responsibility of the procuring or using DoD component. When onsite storage of IPE is a necessity and extends beyond the period covered by the existing production or facilities contract, DLA will assume through separate contract, those

costs associated with this storage to include all costs for disconnect disassembly, security, restoration and such other applicable costs, which would otherwise have been borne by the production or facility contract.

(5) When idle IPE has hazardous contaminants from an internal source that are inherent to the operation of the IPE, such as Gamma Ray Equipment, the charges for special handling in accordance with appropriate regulations will be the responsibility of DLA when it funds for the balance of PC&H costs. When contamination to IPE results from an external source, such as from material being worked, the Military Department will be responsible for all costs in connection with decontamination of the IPE (see paragraph 20102–3–g.).

### Section II STORAGE

#### 40201. Procedure.

- (1) DIPEC will:
- (a) Determine storage location(s) for unassigned idle IPE to be retained for current, projected, or mobilization requirements and issue shipping instructions.
- (b) Determine the central storage site for PEPs, in coordination with the owning Military Service, considering location of planned producer, economy of transportation and time required to reinstall the PEP, and issue shipping instructions.
  - (c) Process requisitions for aluminum skids and maintain suspense to assure timely return.
  - (d) Progressively develop standards and handbooks to provide for use of standard methods for the storage of IPE.
  - (2) DoD Components Contract Administration Service Offices will:
- (a) Comply with instructions and requirements of MIL STD 107, MIL-HDBK-701 and DIPEC shipping instructions to assure desired accomplishment of preparation of shipping requirements.
  - (b) Issue detailed instructions to activities performing the work.
  - (c) Request deviations from the requirements of MIL STD 107 and MILHDBK-701 from DIPEC-T, as appropriate.
- (d) Determine most efficient and economical means of shipping items in accordance with the requirements of MIL STD 107 and MIL-HDBK-701.
  - (e) Evaluate charges and execute contracts for PC&H.
- (f) Requisition aluminum skid components from DIPEC when usage is determined most economical to the Government.
  - (g) Assure proper car loading, blocking and bracing of IPE shipments as appropriate to avoid damage in shipment.
  - (h) Report completion of all movement actions to DIPEC.

#### 40202. Storage of Approved DoD Component Plant Equipment Package IPE.

- (1) DoD components will forward requests to DEPEC for central storage of PEPs.
- (2) A statement will be included by the DoD component on each request to ship PEP items to central storage to indicate that a decision has been made that it is not practical or feasible to store the equipment on site or adjacent to the last point of use.

#### 40203. Reports

- (1) On or before 30 September each year, the Military Services will provide to DIPEC a 5-year projection on additions or deletions of IPE, OPE, ST, and STE to PEPs subject to central storage for the assigned Reports Control Symbol DD DLA (A) 1829(0). Each report will include:
  - (a) PEP Number(s) and planned producer(s).
- (b) Number of units to be added/deleted, total weight and dimensions (square feet) by Fiscal Year (new reports are not required unless deviations from previous report exceed ten percent).
  - (c) Origin(s) and estimated date(s) of shipment(s).
  - (d) Geographic location and type of storage required (e.g., temporary, permanent, controlled humidity).
- (2) DIPEC will provide a 5-year workload forecast to each Military Service, which allocates central storage space to DLA.

### Section III TRANSPORTATION

#### 40301. Procedure.

- (1) DIPEC will:
- (a) Direct the movement of IPE by the issuance of a shipping instruction. Shipping instructions will be by MILSTRIP documentation, i.e., DD Form 1348–M, DD Form 1348–1, or MILSTRIP teletype format.

- (b) Determine that the weight and/or dimensions of any item to be moved into storage are within the handling and warehousing capability of the DLA IPE storage point prior issuance of the shipping instruction.
- (c) Maintain criteria in appendix 3C for determining shipment preparation, handling and storage instructions conforming to approved methods and requirements of MIL STD 107 and MIL-HDBK-701.
  - (2) The administering activity will, or will instruct the consignor to:
- (a) Prepare the equipment and the Historical Record including technical data for shipment according to requirements of MIL-STD 107, MIL-HDBK-701, and appendix 3C. (Utilization of aluminum skid components is described in chapter 11.)
  - (b) Request carrier services and bills of lading from the designated transportation office.
  - (c) Accomplish transfer and reporting as required in appendix 2C.
  - (3) The Designated Transportation Officer will:
  - (a) Furnish appropriate carrier service.
  - (b) Furnish Government Bills of Lading as applicable.
- (c) Obtain transportation to destination in accordance with DIPEC shipping instructions and applicable transportation regulations.
- (4) DLA procedures for packing, crating, handling and transportation (PCH&T) of IPE are given in DLAM 8300.3 Transportation and Packaging Manual for Contract Administration Services. Transportation functions relative to movement of 1PE are given in paragraph 3–308 (Preparation of Government Property for Movement). Packaging functions are given in paragraph 4–307 (Preparation of Government Property for Shipment and Storage).

#### 40302. Reports.

Discrepancies which are attributable to, or the responsibility of the shipper will be reported by the receiving activity in order that the cause of such discrepancies can be determined and corrective/remedial actions taken. For discrepancies in DIPEC directed shipments of IPE, the original and one copy of the SF 364, Report of Items Discrepancy (ROID), will be sent to DIPEC–T. (See DLAR 4140.55/AR 735–11–2/NAVSUP INST 4440.127D/AFR 67–16/MCO 4430.3D.) Deficiencies in preservation, packaging, packing and marking of IPE should be reported on DD Form 6, Packaging Improvement Report, and routed in accordance with the guidelines set forth in DLAR 4145.8/AR 700–58/NAVSUP INSTR 4030.29/AFR 71–13MCO P4030.29A Reporting of transportation type discrepancies in shipments of IPE should be made as appropriate on a SF 361, Discrepancy in Shipment Report (DISREP) or a SF 363, Discrepancy in Shipment Confirmation (DISCON) as required by DLAR 4500.15/AR 55–38/ NAN'SUPINST 4610–33A AFNI 75–18/MCO P4610.19B. DoD activities will furnish DIPEC–T two information copies of their replies regarding discrepancy reports.

# Chapter 5 CLASSIFICATION AND IDENTIFICATION POLICY

This chapter establishes policies and procedures for the development, publication, and maintenance of a uniform classification and identification system for IPE. Identification data published in IPE handbooks will be used for recording, reporting, and requisitioning IPE.

### Section II PROCEDURES

#### 50201. Classification

- (1) DIPEC will develop and maintain a subclassification coding system, within the framework of the FSC, not to exceed 12 digits and to be known as PECs. The first four digits of the PEC will be the FSC, and the remaining eight digits will subclassify such data as type, size, and capacity.
  - (2) Cross references between PEC's and National Stock Numbers will be developed and maintained by DIPEC.

#### 50202. Identification.

- (1) DIPEC will develop, publish, and maintain handbooks which identify IPE by noun name to include:
- (a) SECTION 1-Nomenclature in alphabetical sequences with ascending size or capacity data, PEC and descriptive guide number.
- (b) SECTION 2-Equipment description by manufacturer with Federal Supply Code for Manufacturers (Cataloging Handbooks H4-1, and H4-2), manufacturer's designation/model number, size or capacity data and PEC.

- (c) SECTION 3-Descriptive Guides. (These guides specify data requirements necessary to establish standard descriptive characteristics in addition to those provided in Sections 1 and 2. An index to these guides is provided in Section 1. A general guide is provided for use when Section I does not list applicable nomenclature.) See block 32, DD Form 1342 for further explanation for those items modified from their original configuration.
- (2) DIPEC will review the item identification data of all NSN's used by each DoD component in the commodity area considered to include IPE. DIPEC will register an interest with DLSC in the Federal Cataloging System for those items designated as IPE. Data reflecting DIPEC registered interest are disseminated to all recorded users of the item by the Federal Cataloging System. DoD components will review for concurrence in the designation of the items of IPE. Concurrence by the DoD component will be assumed, unless a nonconcurrence is received in DIPEC within 30 days. DoD components will take appropriate action to ensure that those NSNs, designated as IPE, are recorded and subjected to the reporting, preprocurement screening and disposal criteria of IPE as outlined in Chapters 2, 3, and 12 of this manual.
- (3) Appendix 1B is an index of IPE handbooks, containing Military Service publication numbers and points of distribution.

### Chapter 6 STANDARDIZATION AND ENGINEERING SUPPORT

### Section I POLICY

This chapter describes the general policies and procedures by which DIPEC will participate in the Defense Standardization Program.

## Section II PROCEDURES

#### 60201. Procedures.

- (1) DIPEC will:
- (a) Establish schedules and implement DIPEC's portion of the Defense Standardization Program for IPE in FSC 3220 and Federal Supply Group (FSG) 34.
  - (b) Conduct special IPE engineering and technical studies.
- (c) Act as preparing activity to develop and provide procurement documents in accordance with Defense Standardization Manual 4120.3M. These documents will be prepared to satisfy requirements as stated by the DoD components.
- (d) Act as preparing activity to establish projects to support current procurement requirements as a result of review of the existing DoD inventory, or in response to specific requests received from the DoD components, or as a result of data obtained from review of the annual requirements projections received from the DoD components. DIPEC developed documents will be provided to industry and designated DoD components for comment prior to finalization. When review and user activities are not available from a standardization plan, participating activities will designate activities to whom DIPEC should forward documentation or comment.
- (e) Progressively develop standards and handbooks to provide for the use of standard methods in the packaging, and preservation of IPE.
- (f) Provide engineering support, as requested, to DoD components, relative to the procurement, installation, operation, and storage of 113E.
  - (g) Functions as an assignee activity for FSG 34, excluding items controlled by Defense Nuclear Agency.

## Chapter 7 EQUIPMENT MAINTENANCE, REPAIR AND REBUILD/OVERHAUL

#### Section I POLICY

This chapter prescribes an equipment maintenance program and defines the responsibility for repair and rebuild/overhaul.

#### 70101. Equipment Maintenance

- (1) DIPEC will:
- (a) Develop technical maintenance standards for maintenance, repair, rebuild/overhaul of IPE in accordance with DSAR 4151.4.
  - (b) Assist the DoD components in the application of the handbooks and standards.
  - (2) DoD Components will:
  - (a) Ensure that handbooks and standards promulgated by DIPEC are employed in the maintenance of IPE.
  - (b) Comply with paragraph 70301-1 prior to rebuilding, overhauling any item of IPE.

### Section II

### MAINTENANCE PROGRAMS FOR IN-USE EQUIPMENT

### 70201.

DoD components are responsible for establishment of sound preventive maintenance practices for in-use IPE which will:

- (1) Assure application of manufacturers service and care standards.
- (2) Provide instruction pertaining to equipment operation to include resources for necessary commercial manuals where applicable.
- (3) Provide for maintenance clauses to be included in appropriate contracts to cover in-use IPE in contractor facilities. Where applicable, contracts will also provide for equipment to be returned in same condition as made available, normal wear and tear excepted.

### 70202.

DIPEC will consult with the DoD components to obtain essential knowledge for the development of plans, specifications, maintenance standards, life expectancy tables, to establish rebuild /overhaul limits, and to develop data for re-use recommendations.

### Section III

### REPAIR/REBUILD/OVERHAUL

### 70301

In order to assure maximum economics through replacement in lieu of expenditures on old equipment, DIPEC will coordinate the repair/rebuild /overhaul of IPE within the DoD as follows:

- (1) Active Equipment
- (a) Prior to repair/rebuild/overhaul, Dot) components will notify DIPEC by DD Form 1419 of items selected for repair/rebuild/overhaul. As a general rule, DIPEC will be screened for replacement in lieu of all repair/rebuild/overhaul, When it is necessary to maintain continuity of production, DIPEC need not be screened if the estimated cost of repair/rebuild/overhaul is less than 25 percent of the acquisition cost. Data to be included in the DD Form 1419 will be:
  - (1) Item description (see Appendix 2A, paragraphs 3, 16, and 23).
  - (2) Projected use of equipment.
  - (3) Repair/rebuild/overhaul costs.
  - (4) Transportation costs incident to repair, rebuild/overhaul.
  - (5) Scheduled completion date of repair/ rebuild/overhaul.
  - (6) Date serviceable item required if different from scheduled repair/rebuild/overhaul completion date
- (b) Upon receipt of date specified in subparagraph la above, DIPEC will screen available assets. If a suitable item is available which can be economically substituted in lieu of repair/rebuild/overhaul by the requiring DoD component, DIPEC will offer the substitute item within 3 working days. If a suitable item is not available, the reporting requiring DoD component will proceed with repair/rebuild/ overhaul upon receipt of information from DIPEC.
- (c) When continuity of production is of paramount importance and 3 days is insufficient to determine whether a suitable substitute is available within an acceptable time frame, the requiring DoD component may ascertain this information by telephone rather than as specified by subparagraphs 1a and lb above. If a suitable substitute is available on a timely basis, the requiring DoD component will follow up its request by providing DIPEC in writing with the data specified in subparagraph la above. If the substitute item is not available within an acceptable time frame, the requiring DoD component may request a waiver of use of the substitute and a clearance to repair/rebuild or overhaul their own item of IPE. DIPEC will confirm in writing all such waivers and clearances.
- (d) In the event a proposed replacement item is rejected, a justification covering economic and operational considerations will be furnished to DIPEC.
  - (2) Idle IPE.
- (a) DSA is responsible for budgeting and funding for the maintenance of idle IPE being issued from the General Reserve. Items supplied to DoD users will be made serviceable unless otherwise accepted. Items being furnished to

Military using activities (activities normally supplied by an ICP under an NSN authorization) will be provided the attachments /accessories requested up to the level authorized by the applicable Military Standard for Attachments and Accessories (MIL—STD—931 through 959). Additional attachments /accessories beyond those listed in the applicable MIL—STD, not already with an item, will be provided only when funds are furnished by the responsible Military Department. Attachments /accessories, not already with an item, will be provided to Industrial Activities only when funds are furnished by the responsible Military Department. (NOTE: Items being transferred from the General Reserve to the account of a Departmental ICP to satisfy projected Military requirements are exempt from the above. Items so offered will be subject to acceptance by the ICP without maintenance or additional attachments/accessories. Upon acceptance, the items become ICP stocks and attachments accessories may be provided by DSA on a reimbursable basis only.)

- (b) Repair/ rebuild, overhaul of idle IPE will be accomplished as programmed by HQ DSA.
- (c) DIPEC will:
- (1) Issue all necessary waivers incident to establishing special operating requirements that affect repair overhaul and preservation/packaging incident thereto.
- (2) Provide funds and arrange for rebuild/overhaul of idle IPE which is stored or held by other than a DSA storage/maintenance facility when repair and direct shipment to the next user is the most economical means of securing repair.
- (3) Provide workload data to HQ DSA for program guidance to commanders operating DSA storage/maintenance facilities.
- (4) Develop necessary reporting system to reflect the status of the repair/rebuild/overhaul program to include technical standards development applicable thereto.
- (5) Prepare and submit maintenance reports to higher authority, its required, which reflect the status of the total maintenance program.
  - (d) Commanders operating DLA storage/ maintenance facilities will:
- (1) Process approved maintenance programs in accordance with schedules and priorities prescribed by the Commander, DIPEC.
- (2) Provide the Commander, DIPEC with reports and data required to appraise the status of workloads, accomplishments and costs related thereto.

# Section IV CONDITION DETERMINATION (ANALYTICAL INSPECTION OPERATIONAL TEST)

### 70401. Procedure.

- (1) In order to preclude movement of uneconomically repairable IPE, and avoid duplication of setups in maintenance facilities to accomplish identical tasks, onsite condition determination (consisting of complete analytical inspection/operational test) will be conducted while equipment is still connected to power. Onsite condition determination will be considered when the quantity of items and circumstances indicate that movement of personnel and equipment to the site is economically feasible and the IPE is desirable for Government retention. The results of the condition determination will be recorded on DLA Form 769, Job Order, and as applicable on DIPEC Form 900–1053 series, Test Pattern of Analytical Inspection of Metal Working Machinery. When the contractor normally maintains such data, the parts and components required to repair the item (including manufacturer's part number) will be included. Technical Maintenance Standards and Forms applicable to each piece of WE to be processed will be furnished by DIPEC. The data from the Condition Determination Inspection will be used to schedule and accomplish repair or overhaul, as required, or direct other utilization /disposition of the machinery.
  - (2) Responsibilities for conducting Condition Determination Inspections of Government-Owned IPE.
- (a) Government–Owned, Government–Operated (GOGO) Facilities: DoD components will advise DIPEC at the earliest practicable date concerning forthcoming idleness of machinery. This is to be accomplished sufficiently in advance of disconnect from power to permit DIPEC to determine with approval of the reporting DoD component, if onsite condition determination by maintenance personnel is required and schedule accomplishment accordingly.
- (b) Contractor–Owned Contractor–Operated (COCO) and Government–Owned Contractor–Operated (GOCO) Facilities (includes both DLA (CAS) and Military Service administered contracts): The Contract Administration Office will advise DIPEC at the earliest practical date concerning forthcoming idleness of machinery. This is to be accomplished sufficiently in advance of disconnect from power to permit DIPEC to determine if onsite condition determination is required. The basic responsibility to perform condition determination rests with the contractor. The appropriate Administrative Contracting Officer is responsible to ensure the beat interest of the Government in the matter is realized. It is f further the responsibility of the appropriate Administrative Contracting Officer to determine when contract conditions are such that DIPEC should schedule DLA maintenance personnel to assist the contractor or perform the onsite condition determination.
  - (3) Budgeting and funding for onsite condition determination of IPE within PEPs and the General Reserve.
  - (a) The requiring Military Service will be responsible for reimbursing DLA for salary, TDY costs, and movement of

test equipment when DIPEC in requested to conduct onsite condition determination of IPE authorized for retention within PEPs.

(b) DLA will be responsible for funding for onsite condition determination conducted by DLA for IPE reported idle to DIPEC for retention in the General Reserve.

# Chapter 8 FIELD SERVICES

### Section I POLICY

This chapter describes the field services which DIPEC will provide in the areas of technical assistance, quality assurance and management techniques.

# Section II TECHNICAL ASSISTANCE

### 80201. Procedures.

- (1) DIPEC will:
- (a) Provide technical assistance to the appropriate headquarters of DoD components concerned with the procurement, installation, condition determination, operation, maintenance and repair of IPE and with implementation, administration and evaluation of compliance with DoD and DIPEC publications.
  - (b) Develop and conduct training programs relative to use of DoD and DIPEC systems and procedures.

# Section III QUALITY ASSURANCE

### 80301. Program Development.

The basic elements of an effective quality assurance program are measurement and analysis. Quality measurement includes inspection and testing to determine conformance to prescribed standards. DIPEC will provide quality assurance guidance and assistance covering all IPE upon request through appropriate channels.

### 80302. Responsibilities of DoD Components.

All Quality Assurance Activities will:

- (1) Implement the quality assurance plans and policies established for their functional area by appropriate command authorities; develop procedures as necessary for local application.
  - (2) Participants in the development of specific plans.
  - (3) Develop and recommend improvements to existing quality assurance plans and policies.

### 80303. Communications and Reporting.

- (1) Communications.
- (a) Communications concerning quality assurance matters requiring action or decision by DIPEC will be referred to DIPEC through departmental channels.
- (b) Procurement activities will refer quality assurance matters, concerning specific items of IPE, to the appropriate administering activity. Copies of such correspondence and records will be forwarded to DIPEC when considered appropriate.
- (2) *Reports*. DIPEC will receive copies of Quality Control Reports from vendors, contractors, and DoD components involved in conducting Quality Assurance Programs concerning IPE. When major defects or deficiencies are reported, supporting data will be submitted to DIPEC.

# Section IV FIELD LIAISON VISITS

### 80401. Procedures.

As arranged in conjunction with DoD components or their designated representatives, DIPEC will visit selected DoD

locations to provide assistance in IPE identification, recording, and reporting policies, systems, and procedures. The visits will be for the purpose of providing orientation to DoD personnel involved in the roles and missions of DIPEC.

# Section V SEMINARS AND CONFERENCES

### 80501. Procedures.

- (1) DIPEC will:
- (a) Formulate program agenda and conduct internal and external seminars or working type conferences for all facets of management and control of IPE, within the scope of DIPEC responsibilities.
- (b) Provide technical assistance to DoD components in training efforts for those areas of their respective responsibilities, which materially affect DIPEC operations.
  - (c) Participate in DoD and DSA sponsored training programs.
- (d) Perform necessary liaison with reporting activities, schedule field visits, and prepare correspondence as applicable within the scope of the DIPEC programs.
- (e) Conduct periodic seminars and conferences at DIPEC or in appropriate regional locations to be attended by personnel nominated by the DoD components.
  - (2) DoD Components will:
- (a) Consult with DIPEC, as necessary on locally prepared seminar agenda which are designated for orientation as to operations and responsibilities of 151PEC, to obtain latest DoD and DIPEC management/operational changes.
- (b) Upon request report requirements for DIPEC's annually conducted field seminars and nominate personnel (military, civilian, contractor) for attendance at centralized seminars scheduled at DIPEC.
  - (c) Provide for optimum cross-servicing in the use of existing conference facilities and services.

# Chapter 9 PROCUREMENT

# Section I POLICY

This chapter prescribes the procurement policies for IPE and materials and services incidental to the management of idle IPE.

### 90101. Responsibilities of DIPEC.

- (1) Procurement of IPE. Centrally procure such general purpose IPE, as requested or assigned.
- (2) Procurement of Materials and Services.
- (a) Contract for the operation of contractor-operated central IPE storage sites under the control of DSA.
- (b) Centrally procure new and replacement aluminum skid components as required.
- (c) Contract for on-site storage of idle IPE at last point of usage, as necessary or directed.
- (d) Contract for repair/rebuild of IPE with commercial concerns as requested/required.

### 90102. Responsibilities of DoD Components.

Procurement of IPE.

- (1) Procure general purpose and special purpose equipment except as otherwise assigned for central procurement.
- (2) Procure IPE only when DIPEC has issued a Certificate of Non-Availability. When DIPEC issues the certificate and requests a copy of technical data for new IPE, the procuring activity will acquire an additional set of technical data when the IPE is procured. These data will be forwarded to DIPEC, ATTN: Central IPE Technical Data Repository.

# Chapter 10 QUALITY DEFICIENCY DATA REPORTS

Section I POLICY This chapter prescribes the policy and procedures, relative to submission and processing of Quality Deficiency Data (QDD) received on items of IPE or services furnished by DIPEC.

### Section II

### **CATEGORIZING REPORTS**

### 100201. Category I Report.

A deficiency which will or may affect life or limb of personnel or impair the combat capabilities of the using, organization or individual. Deficiencies that affect operational capability to the extent that mission accomplishment is jeopardized fall within this category.

### 100202. Category II Report.

A deficiency which does not meet criteria set forth for Category I.

# Section III PROCEDURES

### 100301. Reporting Quality Deficiency Data.

- (1) Upon discovery, it is essential that deficiencies involving IPE be reported immediately.
- (a) Category I reports will be submitted by message in accordance with the format set forth in DSAR 4155.24/AR 702–7/NAVMAT INST 4855.8/AFR 74–6/ MCO 4855.5. When the urgency dictates, reports may first be transmitted by the most expeditious means available (e.g., telephone, local visits). Oral communications will be confirmed by message.
- (b) Deficiencies failing within Category II will be reported on Standard Form 368 across participating component lines in accordance with DSAR 4155.24/AR 702–7/NAVMAT INST 4855.8/AFR 74–6/ MCO 4855.5.
- (c) Request the following additional information as specifically applies to IPE be furnished on Category I and II reports:
  - (1) The IPE identification number.
  - (2) The document number which authorized the transfer of IPE.
- (3) Explanation of remedial action taken or recommended to correct the unsatisfactory condition. Advise whether the deficiencies can be corrected on site.
- (2) IPE received by contractors with material deficiencies will be reported through the appropriate contract administration office.

### 100302. Processing Quality Deficiency Data.

DIPEC will:

- (1) Acknowledge receipt of each report to the originating or screening point within 24 hours for Category I, and within 5 workdays after receipt for Category II reports.
- (2) Investigate each individual deficiency and request exhibit/sample from the holding activity as soon as the need is known, but no later than 15 calendar days after receipt of report.
  - (3) After coordination with the reporting activity, expeditiously resolve the deficiency according to the following:
- (a) For Category I reports, initiate immediate corrective action and complete as soon as possible. If an interim reply is made, indicate suspense date for final action and reply.
- (b) For Category 11 reports, initiate corrective action within 5 work days and complete as soon as possible. If a final reply or resolution of the deficiencies is not made within '30 days, furnish an interim reply indicating a suspense date for final reply.

### Chapter 11

### MANAGEMENT AND UTILIZATION OF DOD-OWNED ALUMINUM SKIDS

# Section I

This chapter prescribes the policy and procedures for the management and utilization of DoD-owned aluminum skids.

### 110101. Management.

(1) DIPEC will:

- (a) Manage and control the DoD inventory of aluminum skid components utilized for the shipment and storage of IPE. (Headers, runners, cross beams, accessory beams, tie bars, auxiliary tie bars, mounting plates.)
  - (b) Assure that aluminum skids will not be issued for idle IPE until disposition ha been determined.
  - (2) DoD Components will:
- (a) Assure that modifications and alterations, which affect the size or configuration of skids, are not made unless specifically authorized by DIPEC.
  - (b) Return aluminum skids to the designated storage facility promptly after removal from equipment.

### 110102. Utilization.

- (1) DIPEC will:
- (a) Develop and maintain criteria and specifications for use of skids.
- (b) Maintain stock levels to provide for maximum use of aluminum skids.
- (c) Process requisitions for aluminum skids.
- (2) DoD Components will:
- (a) Utilize aluminum skids for all shipments of IPE except under the following circumstances:
  - (1) Equipment weighing 30,000 pounds and over.
- (2) Equipment, such as electronic test equipment, whose configuration, weight or fragility, require special preparation for shipment.
- (3) Recoverable wooden skids are available and will provide adequate protection for IPE during handling and shipment according to all requirements covered in MIL–Handbook 701.
- (4) Equipment presently stored on wooden skids (unless wooden skids are damaged or deteriorated to an extent that would preclude safe shipment).
  - (5) Military or industrial items of IPE destined for overseas shipment.
- (6) International Logistics Program shipment (formerly MPA) and military assistance sales unless otherwise indicated in DIPEC shipping instructions.
  - (7) Disposal of surplus items by donation.
  - (8) Disposal of surplus items by sale, except as noted in paragraph 110102.4 below.
  - (9) DIPEC has notified the requesting activity that aluminum skid components are not available.
  - (10) Circumstances and urgency of shipment justify the use of wooden skids.
  - (b) Requisition aluminum skids from DIPEC.
  - (b) Comply with MIL-Handbook 701 when skidding equipment.
- (3) Criteria on use of aluminum skids for long term storage of PEP items is found in DSAM 4215.2, Storage Maintenance Activities Operations Manual, chapter 5, paragraph E.
- (4) Property Disposal Officers will assure that aluminum skids are removed from IPE prior to donation. When disposition is by sale, the purchaser will be given the option to leave the skid(s) attached to the IPE to facilitate Handling and transportation. In these cases, the buyer will be required to make a deposit equal to the value of the skid(s). The deposit will be refunded upon return of the skid(s) to the Government point of origin freight prepaid, within 60 days from the date of removal of the IPE from the activity.
- (5) Plant Clearance Officers will assure that aluminum skids are removed from IPE in possession of contractors prior to donation or sale.

# Section II PROCEDURES

# 110201. Request for Aluminum Skids for Use on IPE Being Shipped to Storage or to Another DoD User.

- (1) DoD Components will:
- (a) Submit skid requirements in remarks section of DD Form 1342, DoD Property Record, DD Form 1348, MILSTRIP Requisition, or according to Appendix 3B.
- (1) Identify the ID number of the item for which the skids will be applied and the specific skid requirements as identified in MIL–Handbook 701. If the skids are requested after the DIPEC shipping instructions are received, enter the shipping instruction document number in the requisition as prescribed by Appendix 3B.
- (2) If approved forms are not available, or when the urgency of the situation warrants, requests may be submitted by whatever means deemed expedient.
  - (3) Status of skids request will not be made available until disposition for IPE has been determined.
  - (b) Furnish appropriation chargeable for transportation of skids to military activities. See paragraph 40102–3b.
  - (2) DIPEC will
- (a) Process requisitions and forward a shipping instruction to the appropriate storage facility for shipment of required skids and components.

(b) Advise DoD components if skids are not available.

### 110202. Return of Aluminum Skids to Storage Facility after Use on IPE Shipments.

- (1) DoD Components will:
- (a) As soon as practical, or within 60 days, remove, disassemble, pack and ship aluminum skid components and reusable hardware to the DSA IPE storage activity designated by DIPEC. DIPEC will furnish transportation funds for return of skid components and hardware from industrial and contractor activities upon request. Military Services are responsible for furnishing funds for return of skid components and hardware from Military Support Activities in accordance with paragraph 40102.3b.
  - (b) Forward information copy of shipping document to DIPEC.
  - (2) DIPEC will:
- (a) Update due-in and inventory records with information from receiving documents submitted by the storage facilities.
- (b) Initiate follow-up action to DoD components that have not returned skid components within 60 days after receipt of skidded equipment.
- (c) Cite transportation funds for return of aluminum skid components to DSA IPE storage points from industrial and contractor activities upon receipt of request citing weight and destination. See paragraph 40102–8a.

### Chapter 12

# REPOUTING AND REUTILIZATION OF MILITARY SUPPLY SYSTEM IPE (SYSTEM INTERFACE BETWEEN MILITARY SERVICE ICPs AND DLA)

### Section I

### INDUSTRIAL PLANT EQUIPMENT REUTILIZATION SYSTEM (IPERS)

### 120101. Purpose.

- (1) IPERS fulfills the basic DoD IPE management concepts to:
- (a) Act as a clearinghouse to match requirements against assets for optimum reutilization of DoD-owned IPE.
- (b) Develop and maintain central records of IPE in-use, in supply system stocks, and idle IPE in the DoD supply system. See definition of IPE in chapter 1.
- (2) This system is designed to provide a service to the Military ICP in locating available IPE to satisfy immediate or projected requirements. It establishes a uniform system for stock reporting and reutilization throughout the DoD by prescribing standardized procedures for:
  - (a) Identification of IPE in the Military supply system.
  - (b) Recording of supply system IPE requirements forecasts.
  - (c) Providing central record visibility of supply stocks of IPE.
  - (d) Requisitioning/screening of IPE.
  - (e) Reporting of idle IPE.
  - (f) Reporting of in-use IPE located at Military activities.

*Note.* IPERS applies to all items of IPE whether identified by an NSN or by a part number within a DoD component supply system. Under IPERS, IPE is not reported or recorded by individual unit except for idle (service excess), which is reported by individual unit on a DD Form 1342 (see section V of this chapter).

### Section II

### **IDENTIFICATION OF IPE**

### 120201. Prociedure.

- (1) DIPEC will:
- (a) Designate, in coordination with the DoD components, NSN's meeting the IPE definition.
- (b) Register "user interest" in the Federal Cataloging System as a data receiver and collaborator by recording DIPEC's Major Organizational Entity (MOE) rule DPX-1.
- (c) Accomplish the registration of DIPEC user interest in accordance with procedures contained in DoD 4100.39–M, Defense Integrated Data Systems (DIDS) Procedures Manual.
  - (2) DoD Components will:
  - (a) Designate NSNs agreed to as IPE in Service management systems and procedures.
- (b) Ensure all IPE is subjected to the provisions of this chapter, unless they are reportable under other chapters of this manual (individual item reporting).

### Section III

### REQUISITIONING/SCREENING FOR IMMEDIATE REQUIREMENTS

### 120301. Procedure.

- (1) DoD components will:
- (a) Screen DIPEC prior to procurement/repair/rebuild (see paragraph 70301 and appendix 3A).
- (b) Submit screening requests in any format and by any means, provided a document number is furnished and sufficient information is included to permit screening and to determine availability. See paragraph 20501–1a for screening IPE requirements with DIPEC prior to intraservice/agency redistribution/movement, of DoD component controlled IPE.
  - (c) Establish criteria for release of supply system stocks required by another DoD component.
- (d) Negotiate agreement with the owning ICP for asset transfer when DIPEC has determined IPE is available from another service.
- (e) Transfer supply system stocks to other DoD components according to arrangements agreed to with the requiring DoD component.
  - (2) DIPEC will:
  - (a) Screen all requisitions against DoD General Reserve and supply system stocks. See procedures in chapter 3.
  - (b) Act as an intermediary between requisitioner and supplier.
- (c) Negotiate with owning service ICP for release of supply system stocks to meet the requirements of a military or industrial customer.
  - (d) Advise Military requisitioner ICP when items are available from another ICP.
- (e) Initiate and process shipping instructions to the releasing ICP when the item is required by an industrial customer.
  - (f) Issue CNAs when suitable items are not available.

### Section IV

### PROCESSING SUPPLY SYSTEM FORECASTED REQUIREMENTS

### 120401. Procedure.

- (1) Projected DoD supply system requirements will be submitted to DIPECI by ICPs for screening against DoD-owned IPE assets under the categories listed in paragraph 30201–2. Projections will be furnished utilizing the Military Service computation form on an as generated basis, i.e., quarterly, semi-annually, or annually. Unprogrammed and urgent requirements may be submitted to DIPEC at any time in accordance with section III above.
- (2) DIPEC will screen projected requirements and submit offer of available IPE to the ICP. Thirty—day holds will be established for IPE offered from the DoD General Reserve. Items accepted will be requisitioned from DIPEC according to chapter 3 of this manual.
  - (3) Certificates of Non-Availability will not be issued against projected requirements forecasts processed by DIPEC.
- (4) DIPEC will issue transfer orders/shipping instructions for TPE to be provided from the General Reserve based on instruction and PCH&T Funds Citation furnished by the gaining ICP.

### Section V REPORTING EXCESS IPE

### 120501. Reporting Local Excess IPE.

- (1) Military holding activities will report local excess items to the appropriate ICP/IMM in accordance with the MILSTRIP materiel return procedures, DoD 4140.17–M. chapter 9.
- (2) ICPs IMMs will issue disposition instructions to the reporting activities to report Service excess IPE by DD Form 1342 to DIPEC within 10 days after receipt of ICP IMM instructions.
- (3) The DD Form 1342 must contain the NSN or a part number, a condition code from appendix IC, location (if different than the Activity Address Code contained in the MILSTRIP document number). Manufacturer's Code (FSCM), manufacturer's model number, year of manufacture, and if applicable, Identification/Government Tag Number. The document number used to report the equipment to the ICP IMM (paragraph 1 above) and perpetuated by the ICP/IMM on their disposition instructions or disposal release orders will be reflected on the DD Form 1342 report of excess to DIPEC.
- (4) DIPEC will screen reported equipment in accordance with Paragraph 30401 and will provide disposition/shipping instructions to the reporting activity within 10 days of receipt of the DD Form 1342.
- (5) The holding activity will transfer within 10 days, DoD excess I PE to the DI'DO upon receipt of disposition instructions front DIPEC according to paragraph 20601. The document number assigned (paragraph I above) and referenced on the DD Form 1342 will be perpetuated on the turn–in document forwarded to the DPDO.

- (6) DIPEC will report DoD-excess to GSA according to paragraph 20601.
- (7) Final disposal of IPE will be reported to DIPEC by the DPD0 according to paragraph 20601.
- (8) The holding activity will prepare and ship equipment to addressee shown on shipping instructions received from DIPEC. See appendix 3C for supplemental shipping instructions.

Note. DO NOT SHIP TO DIPEC/SE4300.

### 120502. Reporting Excess Supply System Stocks.

- (1) The Owning ICP/IMM will:
- (a) Report excess IPE items in their supply system stocks to DIPEC by DD Form 1342. In addition to including the information specified in paragraph 120501–3 above, a MILSTRIP document number will be assigned to each DD Form 1342 by the ICP/IMM.
- (b) Issue a directive for release and shipment/ transfer of reported items upon receipt of a requisition or disposal instruction from DIPEC.
  - (2) DIPEC will:
  - (a) Screen reported items within 10 days of receipt of the DD Forms 1342 according to paragraph 30401.
- (b) Transmit a DD Form 1348–1 to the reporting ICP/IMM citing the DD Form 1342 document number, Signal Code "M" and Project Code "IPE" for each item required for retention in the DoD General Reserve.
- (c) Provide disposition instructions to the reporting ICP/IMM on each item identified as DoD-excess for issuance of a disposal release order.
  - (d) Report DoD-excess IPE to GSA according to Paragraph 20601.
  - (3) DPDO will report final disposal of IPE to DIPEC according to paragraph 2060I.

### Section VI IPE VISIBILITY REPORTING

### 120601. Procedure.

- (1) DoD components will report supply system stocks of IPE, which tire under management control of an ICP to DIPEC using the format in appendix 2E. Reporting will be in the frequency agreed to between DLA/DIPEC and the reporting ICP or Service.
- (2) DIPEC will receive data and record in a central DoD IPE visibility rile for subsequent screening of DoD requirements in accordance with sections III and IV above.

# Section VII IN-USE IPE REPORTING

### 120701. Procedure.

- (1) DoD components will report all in-use IPE to DIPEC except:
- (a) Items exempted by subparagraph 20102-3a through 3g of this manual.
- (b) Items reported to DIPEC by individual item in accordance with chapter 2 of this manual.
- (2) Reporting frequency will be at least semiannually with the as of date of submission as agreed to between the DoD component and DIPEC.
- (3) Reports will be submitted by magnetic tape prepared on one-half inch, nine channel tape, even parity, with 1600 BPI and standard headers and trailers. Data elements required are NSN,location, quantity and unit price.
  - (4) DIPEC will receive data and establish central records of in-use IPE

### Section VIII

### SHIPPING QUALITY CONTROL

Aluminum skids shipped with IPE to military customers will be returned to DIPEC storage/maintenance facilities in accordance with paragraph 110202. Unsatisfactory Materiel Report (UMRs) on IPE shipped by direction of DIPEC to military customers will be submitted in accordance with paragraph 100301–1.

# Section IX TRANSPORTATION

Funding for PCH&T will be in accordance with paragraph 40102-3.

The following list of Federal Supply Classes (FSCs), which is for reference purposes only, contains IPE reportable to DIPEC.

FSC	NOMENCLATURE	FSC	NOMENCLATURE
3220	Woodworking Machines	3 <b>65</b> 0	Chemical and Pharmaceutical Products
3405	Saws and Filing Machines		Manufacturing Machinery
3408	Machining Centers and Way Type Machines	3660	Industrial Size Reduction Machinery
3410	Electrical and Ultrasonic Erosion Machines	<b>★</b> 3670	Specialized Semiconductor, Microelectric Cir-
	Boring Machines		cuit Device and Printed Circuit Board Manu-
	Broaching Machines		facturing Machinery
	Drilling and Tapping Machines	3680	Foundry Machinery, Related Equipment and
3414			Supplies
	Grinding Machines	3 <b>685</b>	Specialized Metal Container Manufacturing
	Lathes		Machinery and Related Equipment
	Milling Machines	3690	Specialized Ammunition and Ordnance
	Planers and Shapers		Machinery and Related Equipment
	Miscellaneous Machine Tools	3693	Industrial Assembly Machines
	Rolling Mills and Drawing Machines	3694	Clean Work Stations, Controlled Environment,
3424	Metal Heat Treating and Nonthermal Treating		and Related Equipment
0.404	Equipment	3695	Miscellaneous Special Industry Machinery
3426	Metal Finishing Equipment	4330	Centrifugals, Separators, and Pressure and
	Electric Arc Welding Equipment	4400	Vacuum Filters
3432 3433	Electric Resistance Welding Equipment	4430	Industrial Furnaces, Kilns, Lehrs, and Ovens
0400	the state of the s	4440	Driers, Dehydrators, and Anhydrators
3436	Equipment Welding Positioners and Manipulators	4910	Motor Vehicle Maintenance and Repair Shop
3438	Miscellaneous Welding Equipment	4920	Specialized Equipment Aircraft Maintenance and Repair Shop
	Bending and Forming Machines	4520	Specialized Equipment
	Hydraulic and Pneumatic Presses, Power Driven	4925	Ammunition Maintenance and Repair Shop
3443		.020	Specialized Equipment
3444	Manual Presses	4940	Miscellaneous Maintenance and Repair Shop
3445	Punching and Shearing Machines		Specialized Equipment
3446	Forging Machinery and Hammers	5220	Inspection Gages and Precision Layout Tools
8447		5860	Stimulated Coherent Radiation Devices,
3448	Riveting Machines		Components, and Accessories
3449	Miscellaneous Secondary Metal Forming and Cutting Machines	6625	Electrical and Electronic Properties Measuring and Testing Instruments
3450	Machine Tools, Portable	6630	Chemical Analysis Instruments
3460	Machine Tool Accessories	6635	Physical Properties Testing Equipment
3461	Accessories for Secondary Metalworking Machinery	6636	Environmental Chambers and Related Equipment
3530	Industrial Sewing Machines and Mobile Textile	6640	Laboratory Equipment and Supplies
	Repair Shops	6650	Optical Instruments
3611	Industrial Marking Machines	6670	Scales and Balances
3615	Pulp and Paper Industries Machinery	6680	Liquid and Gas Flow, Liquid Level, and
3620	Rubber and Plastics Working Machinery		Mechanical Motion Measuring Instruments
3625		6685	Pressure, Temperature, and Humidity
	Textile Industries Machinery		Measuring and Controlling Instruments
3635	Crystal and Glass Industries Machinery	6695	Combination and Miscellaneous Instruments

Figure 1A-1. IPE SCOPE (FSC) AND NOMENCLATURE

# Appendix 1B INDEX OF INDUSTRIAL PLANT EQUIPMENT HANDBOOKS - DSAH 4215 SERIES

CB	*	*	*	*	*	*	*	*	*
AIR FORCE	AFR	AFM	AFR	AFM	AFM	AFM	AFR	AFR	AFM
	78-2	78–7	78-8	78-10	78-12	78-14	78-15	78–16	78-18
MARINE	MCO	MC0	MCO	MC0	MCO	MC0	MC0	MCO	MCO
	P4870.52C	4870.6C	P4870.8C	P4870.10C	P4870.12C	P4870.14D	P4870.16D	P4870.17C	P4870.19C
NAVY	NAVSUP	NAVSUP	NAVSUP	NAVSUP	NAVSUP	NAVSUP	NAVSUP	NAVSUP	NAVSUP
	Pub 5543	Pub 5500	Pub 5502	Pub 5504	Pub 5506	Pub 5508	Pub 5510	Pub 5511	Pub 5513
ARMY	SB	SB	SB	SB	SB	SB	SB	SB	SB
	708-6625-1	708-3220-1	708-4430-1	708-6635-1	708-3500-1	708-6636-1	708-3400-2	708-3400-3	708-6600-1
FSC	6625	3220	3424, 4430	6635	3530, 3625	9899	3422, 3426	3450, 3460 3461, 5220	6680, 6685
TITLE	Electrical and Electronic Properties Measuring and Testing Instruments	Woodworking Machines	Industrial Furnaces, Ovens and Heat Treating Equipment	Physical Properties Testing Equipment	Textile Industries Machinery and Industrial Sewing Machines	Environmental Chambers	Rolling Mills, Drawing Machines and Metal Finishing Equipment	Portable Machine Tools, Metal-working Machinery Accessories, and Pre- cision Layout Tools	Liquid and Gas Flow, Pressure, Temperature, Humidity, and Mechanical Motion Measuring and Controlling
HANDBOOK NO.	DSAH 4215.1	DSAH 4215.2	DSAH 4215.4	DSAH 4215.6	DSAH 4215.8	DSAH 4215.10	DSAH 4215.12	DSAH 4215.13	DSAH 4215.15

Figure 1B-1. INDEX OF INDUSTRIAL PLANT EQUIPMENT HANDBOOKS - DSAH 4215 SERIES

*	*	*	*	*	*	*	*	*	*	*	*
AFR 78–19	AFR 78-20	AFM 78-25	AFR 78-23	AFM 78-30	AFM 78-33	AFR 78-24	AFM 78-38	AFM 78-44	AFM 78-28	AFM 78-26	AFM 78-45
MCO P4870.20B	MCO P4870.21C	MC0 P4870.22C	MCO P4870.23B	MCO P4870.25D	MCO P4870.27C	MCO P4870.28C	MCO P4870.35C	MCO P4870.38C	MCO P4870.40C	MCO P4870.41C	MCO P4870.42B
NAVSUP Pub 5514	NAVSUP Pub 5515	NAVSUP Pup 5516	NAVSUP Pub 5517	NAVSUP Pub 5519	NAVSUP Pub 5521	NAVSUP Pub 5522	NAVSUP Pub 5529	NAVSUP Pub 5532	NAVSUP Pub 5534	NAVSUP Pub 5535	NAVSUP Pub 5536
SB 708–3635–1	SB 708-4440-1	SB 702-6600-2	SB 708–3680–1	SB 708–6695–1	SB 708-4920-1	SR 708 <sup>-</sup> 4330-1	SB 708-6600-3	SB 708-3600-1	SB 708-3620-1	SB 708–3600–2	SB 708–3650–1
3635	4440	6650, 6670	3680	6695	4920	4330	6630, 6640	3615, 3660	3620	3611, 3685 3693, 3694 3695	3650
Crystal and Glass Industries Ma- chinery	Driers, Dehydrators, and Anhydrators	Scales, Balances and Optical Instru- ments	Foundry Equipment	Combination and Miscellaneous Instru- ments Including Dynamometers	Aircraft Maintenance and Repair Shop Specialized Equipment	Centrifugals, Separators and Filters	Chemical Analysis and Laboratory Instruments	Pulp and Paper Industries and Size Reduction Machinery	Rubber and Plastics Working Machinery	Marking, Metal Container, Assembly, Clean Work Stations, and Miscellaneous Industry Machinery	Chemical and Pharmaceutical Products Manufacturing Machinery
DSAH 4215.16	DSAH 4215.17	DSAH 4215.18	DSAH 4215.19	DSAH 4215.21	DSAH 4215.23	DSAH 4215.24	DSAH 4215.30	DSAH 4215.33	DSAH 4215.35	DSAH 4215.36	DSAH 4215.37
	Crystal and Glass Industries Ma- 3635 SB NAVSUP MCO AFR chinery 708-3635-1 Pub 5514 P4870.20B 78-19	Crystal and Glass Industries Ma-         3635         SB         NAVSUP MCO         AFR           chinery         708-3635-1         Pub 5514         P4870.20B         78-19           Driers, Dehydrators, and Anhydrators         4440         SB         NAVSUP MCO         AFR           708-4440-1         Pub 5515         P4870.21C         78-20	Crystal and Glass Industries         May Industries	Crystal and Glass Industries         May Industries	Crystal and Glass Industries         Manual Management         Manual Management	Crystal and Glass Industries Amorphisms         Manual Chief         Glass Industries         Manual Manual Chief         Manua	Crystal and Glass Industries         Ma         3635         SB         NAVSUP Pub 5514         MCO         AFR 78-19           chinery         Driers, Dehydrators, and Anhydrators         4440         SB         NAVSUP NAVSUP NAVSUP NATO.21C         78-20         78-20           Scales, Balances and Optical Instructure         6650, 6670         SB         NAVSUP NAVSUP NATO.22C         78-26           Foundry Equipment         3680         SB         NAVSUP NATO.23B         78-28           Combination and Miscellaneous Instructure and Repair Shop         4920         SB         NAVSUP NATO.23B         78-30           Aircraft Maintenance and Repair Shop Specialized Equipment         4920         SB         NAVSUP NATO.25D         78-30           Centrifugals, Separators and Filters         4380         SB         NAVSUP NATO.27C         78-33           Centrifugals, Separators and Filters         4820         SB         NAVSUP NATO.27C         78-32	Crystal and Glass Industries Machinery         Machinery         NAVSUP Numbers         MCO         AFR           Chinnery         Driers, Dehydrators, and Anhydrators         4440         SB         NAVSUP Numbers         MCO         AFR           Scales, Balances and Optical Instructures         6650, 6670         SB         NAVSUP Numbers         MCO         AFM           Foundry Equipment         3680         SB         NAVSUP Numbers         MCO         AFM           Combination and Miscellaneous Instructures         6695         SB         NAVSUP Numbers         MCO         AFM           Aircraft Maintenance and Repair Shop         4920         SB         NAVSUP Numbers         MCO         AFM           Specialized Equipment         4380         SB         NAVSUP Numbers         MCO         AFM           Centrifugals, Separators and Filters         4280         SB         NAVSUP Numbers         MCO         AFM           Chemical Analysis and Laboratory In-Separators and Laboratory In-Separators         6890, 6640         SB         NAVSUP Numbers         MCO         AFM           Chemical Analysis and Laboratory In-Separators         708-6690-1         Pub 5622         P4870.23C         78-38           Chemical Analysis and Laboratory In-Separators         708-6690-1         R0	Crystal and Glass Industries Ma- 3635 chinery         May Substitute and Chine	Crystal and Glass Industries Machiery         3635         SB         NAVSUP robe 5514         MCO         AFR           Chinery         Driers, Dehydrators, and Anhydrators         4440         SB         NAVSUP robe 5515         P4870.20G         78-26           Scales, Balances and Optical Instruction ments         3680         SB         NAVSUP robe 5615         P4870.22G         78-26           Combination and Miscellaneous Instructional Miscellaneous Instructional Miscellaneous Instructional Animements and Repair Shop Specialized Equipment         4920         SB         NAVSUP robe 5619         P4870.23B         78-36           Centrifugals, Separators and Filters         4380         SB         NAVSUP robe 5621         P4870.23C         78-38           Chemical Analysis and Laboratory Instruments         6630,6640         SB         NAVSUP robe 5629         P4870.38C         78-38           Pulp and Paper Industries and Size Reduction Machinery         3650,6640         SB         NAVSUP robe 5629         P4870.38C         78-38           Rubber and Plastics Working Machinery         3650,6640         SB         NAVSUP robe 5629         P4870.38C         78-44           Rubber and Plastics Working Machinery         3620         SB         NAVSUP robe 5639         P4870.36C         78-44           Rubber and Plastics Working Machinery	Crystal and Glass Industries Ma- chinery         May Superators         Size and Charactery         Size and

Figure 1B-2. INDEX OF INDUSTRIAL PLANT EQUIPMENT HANDBOOKS—continuing

	HANDBOOK NO.	FIFTE	180	ARMY	NAVY	CORPS	PORCE	•-
Fig	DLAH 4215.38	Miscellaneous Maintenance and Repair Shop Specialized Equipment	4940	SB 708-4940-1	NAVSUP Pub 5687	MCO P4870.43B	AFR 78-48	
jure 1B-3	DLAH 4215.39	Specialized Ammunition and Ordnance Machinery	3690, 4925	SB 708-4900-1	NAVSUP Pub 6638	MC0 P4870.44B	AFR 78-49	
3. INDEX	DLAH 4215.40	Metalworking Saws and Filing Machines	3405	SB 708-3405-1	NAVSUP Pub 5539	MC0 P4870.47C	AFR 78-31	*
OF IND	DLAH 4215.41	Planers and Shapers (Includes Shapers, Formerly Part of FSC 3419)	3418	SB 708-3418-1	NAVSUP Pub 5540	MC0 P4870.48B	AFR 78-57	
USTRIAL F	DLAH 4215.42	Welding, Heat Cutting, and Metalizing Equipment	3431, 3432 3433, 3436 8438	SB 708-\$400-4	NAVSUP Pub 5541	MC0 P4870.49B	AFR 78-59	
PLANT EQU	DLAH 4215.48	Machining Centers, Way Type Machines, Electrical and Ultrasonic Erosion Machines	3408, 3410	SB 708-\$400-5	NAVSUP Pub 5642	MC0 P4870.50C	AFR 78-41	*
JIPMENT	DLAH 4215.44	Miscellaneous Machine Tools	3419	SB 708-3400-6	NAVSUP Pub 6547	MC0 P4870.51B	AFR 78-46	
HANDB	DLAH 4215.45	Drilling and Tapping Machines	<b>34</b> 13	SB 708-3413-1	NAVSUP Pub 5546	MCO P4870.53B	AFR 78-50	
ooks—	DLAH 4215.46	Boring Machines, Broaching Machines, Gear Cutting and Finishing Machines	3411, 3412 3414	SB 708-3400-7	NAVSUP Pub 5649	MC0 P4870.55B	AFR 78-51	
continui	DLAH 4215.47	Motor Vehicle Maintenance and Repair Shop Specialized Equipment	4910	SB 708-4910-1	NAVSUP Pub 5550	MC0 P4870.54B	AFR 78-62	
ng	DLAH 4215.48	Secondary Metal Forming and Cutting Machines	341-342 343-244 345-346 347-346 347	SB 708-\$400-8	NAVSUP Pub 6661	MC0 P4870.56B	AFR 78-68	

HANDBOOK NO.	TITLE	380	ARMY	NAVY	KARINE	FORCE
DLAH 4215.49	Metalworking Lathes	3416	SB 706-8416-1	NAVSUP 1	MC0 P4870.57A	AFM 78-54
DLAH 4215.50	Stimulated Coherent Radiation Devices (Lasers)	2860	SB 708-5860-1	NAVSUP Pub 5658 F	MCO A P4870.58B 7	AFM 78-55
DLAH-4215.51	Grinding Machines	3415	SB 708-8415-1	NAVSUP Pub 5554	NAVSUP MCO AFM Pub 5654 P4870.59A 78-56	AFM 78-56
DLAH 4215.52 Milling	Milling Machines	3417	SB 708-8417-1	NAVSUP Pub 5656	NAVSUP MCO Pub 5555 P4670.60A	AFW 78-67
DLAH 4215.53	Specialized Semiconductor, Microelectronic Circuit Board Manufacturing Machinery	36.70	SB 708-3670-1	NAVSUP Pub 5557	NAVSUP MCO Pub 5567 P4870.61A	AFR 78-58

# DEPARTMENT OF DEFENSE POINTS OF DISTRIBUTION FOR IPE HANDBOOKS

Figure 1B-4. INDEX OF INDUSTRIAL PLANT EQUIPMENT HANDBOOKS—continuing

Air Force Publications Distribution Center Baltimore, Maryland 21220

Commander

### TYPE CODES

### Type 1-General Purpose IPE.

IPE designed and built so that it is readily adaptable, within the limits of its capacity range, for operations on any piece of work suitable for the specific types of IPE. Example: Turning, milling, boring, etc. These operations may be accomplished with or without accessories which are readily detachable. By the addition of special tooling, jigs, and/or fixtures, the IPE is readily converted to a single-purpose operation but still retaining its basic general purpose characteristics. If these components are permanently attached to the IPE in such a manner as to prevent all of the originally designed uses even though the basic IPE may be general purpose, it becomes single purpose IPE or general purpose IPE with special features and reconversion may be expensive and not feasible from an economical point of view.

# Type 2-General Purpose IPE with Special Features.

General purpose IPE with special features which cannot be defined as single purpose equipment. These special features may be installed by the original builder or subsequent users. They may be in addition to those contained in the manufacturer's original design or they may be substitutes for original features. In either case the special features and their relation to the original design will be fully explained in Item 26 of DD Form 1342.

### Type 3-Single Purpose IPE.

IPE which, by reason of basic design, is limited in use, or is peculiar to a particular operation or series of operations on a certain piece or type of work and cannot, by minor or economical modification, be adapted to other uses.

### Type 4-Reserved

Type 5-General purpose IPE, as defined above and numerically controlled.

Type 6-General purpose IPE with special features, as defined above and numerically controlled.

Type 7-Single purpose IPE, as defined above and numerically controlled.

### **OPERATING POWER CODES**

No input Power Required Electric Motor Driven 11 110, 115 or 120 Volt A.C. 1 phase 60 cycle 12 110, 115 or 120 Volt A.C. 1 phase less than 60 13 110, 115 or 120 Volt A.C. 1 phase more than 60 14 110, 115 or 120 Volt A.C. 3 phase 60 cycle 15 110, 115 or 120 Volt A.C. 3 phase less than 60 16 110, 115 or 120 Volt A.C. 3 phase more than 60 17 120/208 Volt A.C. 3 phase 60 cycle 18 120/208 Volt A.C. 3 phase less than 60 19 120/208 Volt A.C. 3 phase more than 60 21 110/220 Volt A.C. 1 phase 60 cycle 22 110/220 Volt A.C. 1 phase less than 60 23 110/220 Volt A.C. 1 phase more than 60 24 110/220 Volt A.C. 3 phase 60 cycle 25 110/220 Volt A.C. 3 phase less than 60

110/220 Volt A.C. 3 phase more than 60

Figure 1C-1. CODES

26

```
27 208 Volt A.C. 1 phase 60 cycle
                                                     92 Hydraulic drive
                                                     93 Pneumatic drive
28 208 Volt A.C. 1 phase less than 60
                                                     94 Steam drive
29 208 Volt A.C. 1 phase more than 60
                                                     95 Coal or coke fired
31 208 Volt A.C. 3 phase 60 cycle
32 208 Volt A.C. 3 phase less than 60
                                                     96 Gas fired
33 208 Volt A.C. 3 phase more than 60
                                                     97 Oil fired
                                                     98 Hand or foot powered
                                                     99 Operating power not elsewhere classified
34 220, 225 or 230 Volt A.C. 1 phase 60 cycle
35 220, 225 or 230 Volt A.C. 1 phase less than 60
36 220, 225 or 230 Volt A.C. 1 phase more than 60
37 220, 225 or 230 Volt A.C. 3 phase 60 cycle
38 220, 225 or 230 Volt A.C. 3 phase less than 60
                                                      SERVICE CODES
39 220, 225 or 230 Volt A.C. 3 phase more than 60
41 220/440 Volt A.C. 1 phase 60 cycle
                                                               Department
                                                       Code
42 220/440 Volt A.C. 1 phase less than 60
                                                               Army
                                                         0
43 220/440 Volt A.C. 1 phase more than 60
                                                         1
                                                               Navy
44 220/440 Volt A.C. 3 phase 60 cycle
                                                               Air Force
                                                         2
45 220/440 Volt A.C. 3 phase less than 60
                                                         3
                                                               DSA
46 220/440 Volt A.C. 3 phase more than 60
                                                         4
                                                               DCA
51 440, 460 or 480 Volt A.C. 1 phase 60 cycle
                                                         5
                                                               DNA
52 440, 460 or 480 Volt A.C. 1 phase less than 60
                                                         6
                                                               NSA
58 440, 460 or 480 Volt A.C. 1 phase more than 60
                                                        ★7
                                                               DSA (Loan)
54 440, 460 or 480 Volt A.C. 3 phase 60 cycle
                                                         R
                                                               DMA
55 440, 460 or 480 Volt A.C. 3 phase less than 60
                                                               Reserved
                                                         9
56 440, 460 or 480 Volt A.C. 3 phase more than 60
57 550 Volt A.C. 3 phase 60 cycle
58 550 Volt A.C. 3 phase less than 60
                                                      STATUS CODE
59 550 Volt A.C. 3 phase more than 60
61 2300 Volt A.C. 3 phase 60 cycle
                                                          Code (numeric/alpha)
                                                                                  Status
62 2300 Volt A.C. 3 phase less than 60
63 2300 Volt A.C. 3 phase more than 60
                                                      1. Active:
64 4160 Volt A.C. 3 phase
                                                          A
                                                               DoD Components-Other Than Leased/
65 6600 Volt A.C. 3 phase
                                                                 Loaned
66 11,500 and 12,000 Volt A.C. 3 phase
                                                          В
                                                               Reserved
                                                          C
                                                               Reserved
69 Alternating Current not elsewhere classified
                                                          D
                                                               Reserved
70 Universal Service (A.C. and D.C.)
                                                          E
                                                               Reserved
71 6 Volt D.C.
                                                          F
                                                               Leased
72 12 Volt D.C.
                                                          G
                                                               Loan to Army
78 24 Volt D.C.
                                                          Н
                                                               Loan to Navy
74 27 or 28 Volt D.C.
                                                               Loan to Air Force
                                                          1
75 82 Volt D.C.
                                                               Loan to DSA
76 48 Volt D.C.
                                                          K
                                                               Loan to ERDA
                                                               Loan to NASA
81 110, 115, 120 or 125 Volt D.C.
                                                               Loan to OEO (Office of Economic Opportu-
                                                          M
82 110/220, 115/230, 120/240, or 125/250 Volt D.C.
                                                                  nity)
83 220/230 Volt D.C.
                                                               Loan to FAA
84 220/240 Volt D.C.
                                                          P
                                                               Reactivation of ASD (I&L) Approved PEP
85 440 Volt D.C.
                                                                  (Army Only)
89 Direct Current not elsewhere classified
                                                               Loan to USCG
90 Diesel engine drive
                                                        ★R
                                                               Loans to any Non-DoD U.S. Government
91 Gasoline engine drive
                                                                  Agency other than those listed above
```

Figure 1C-2. CODES-continuing

### 2 Intransit:

- A DIPEC Shipping Instruction Forwarded to Consignor-Ordering Shipment to Use
- B DIPEC Shipping Instruction Forwarded to Consignor-Ordering Shipment to Storage
- C Consignor's Notice of Interservice Shipment Received at DIPEC (ID Number Assignment Pending)
- D Consignor Reported to DIPEC—Delayed Shipment to Use
- E Consignor Reported to DIPEC—Delayed Shipment to Storage

### 3. Departmental Reserves:

- A IPE Awaiting Issue to Active Units, Troop or Ships (In-Use Stocks)
- B Reserved
- C Reserved
- D Plant Equipment Package ASD (I&L) Certified
- E Plant Equipment Package Pending ASD (I&L) Approval
- F Military Hold Account-Assets in DLA Storage
- G Reserved
- H IPE in a Government-owned, Government Operated installation or activity, subject to intermittent use, but required to remain in place to support the current assigned mission of the installation or activity.

I IPE under control of the Defense Nuclear Agency, subject to intermittent use, but required to remain in place to support the National Nuclear Test Readiness Program.

### 4 Idle-General Reserve:

- A In DLA Storage
- B On-Site Storage
- C Idle (in Process)-30-Day Priority Waived
- D Idle (in Process)—30-Day Priority Applies
- ★E Idle—Being Held Pending Approval to sell IPE
- ★F Idle—but certified that mobilization base requirements are being developed in support of a planned emergency production schedule, or that the equipment will be required to support foreseeable future military production. See paragraph 30101—2e and paragraph 10f, appendix 2B.
  - G and H Reserved

### 5 Disposal or Removal From the Inventory:

- A In Process
- B Nonreportable to DIPEC or Error in ID Number
- C Disposal Complete

### 6 School Loans:

- A Reserved
- B Loaned (Potential Excess)
- C Reserved
- D Loaned

Figure 1C-3. CODES-continuing

	Column 3	For use only by DLA Storage/Maintenance Depots. Not for use when processing DD Form 1348 Reports of Idle IPE.	Explanation of condition of Idle IPE After Inspection; Test, Repair and/or Rebuild/Overhaul	Same as "Expanded Definition".	Same as "Expanded Definition".	Use appropriate R Series condition code.	Use appropriate R Series condition code.	IPE which has been inspected, tested and repaired, rebuilt/overhauled to the extent necessary to assure that it will function at 100% of manufacturer's original rated capacity. Alignment tolerances when applicable are within "Rebuild" limits specified in applicable DIPEC Forms 900-1053 Series, Test Pattern for Analytical Inspection of Metalworking Machinery. Performance, dependability and appearance is comparable to new equipment. (Requirements must be justified by the requiring DoD Component).	IPE which has been rebuilt/overhauled similar to the condition E-1 above; however, due to age, previous use or design, characteristics will not qualify as "excellent". Item will function at 100% manufacturer's original rated capacity. Alignment tolerances, when applicable, are within "serviceable" limits specified in applicable DIPEC Forms 900-1063. (Requirements must be justified by the requiring DoD Component).
	Column 2		Espanded Definition	New or unused property in excellent condition. Ready for use and identical or interchangeable with new items delivered by a manufacturer or normal source of supply.	New or unused property in good condition. Does not quite qualify for N-1 (because slightly shopworn, soiled, or similar), but condition does not impair utility.	New or unused property in fair condition. Soiled, shopworn rusted, deteriorated, or damaged and its utility is slightly impaired.	New or unused property so badly broken soiled, rusted, mildewed, deteriorated, or damaged, that its utility is seriously impaired.	Used property, but repaired or renovated and in excellent condition.	Used property which has been repaired or renovated and, while still in good usable condition, has become worn from further use and cannot qualify for excellent condition.
CONDITION CODES	Column 1		Brief Description	New-Excellent	New-Good	New-Fair	New-Poor	Used-Reconditioned- Excellent	Used-Reconditioned-Good
8			Code	N-1	N-2	Figure 1	<b>T</b> C-4. COD	ES-continuing	<b>7</b>

Colemn 3	For use only by DLA Storage/Meintenance Depots. Not for use when processing DD Form 1348 Reports of Idle IPE.	Explanation of condition of Idle IPE After Inspection; Test, Repair and/or Rebuild/Overhaul	Use appropriate R series condition code.	Use appropriate R series condition code.	IPE which has been inspected, tested, and/or repaired to the degree necessary to ensure that the item will function satisfactorily at or near rated capacity. Appearance, performance and dependability has been improved or assured. Alignment to tolerances, when applicable, are equal to or better than "Serviceable" limits specified in applicable DIPEC Form 900-1053 series.	IPE which has been inspected and/or tested and, when required, repairs have been completed. Performance and dependability may be slightly less than original or new. Alignment toleraness, when applicable, are within "Serviceable" limits specified in applicable DIPEC Form 900-1063 series. Appearance will reflect previous use and complete refinishing has not been accomplished.	When required repairs completed. Performance and dependability is equal to condition O-2. Precision machine tools applicable to alignment tolerances that have been analytically inspected do not meet "serviceable" limits or have not been checked for alignment in accordance with applicable DIPEC form 900-1063 series. Appearance has not been considered.	Use appropriate R saries condition code.
Column 8		Expanded Dofinition	Used property which has been repaired or removated but has deteriorated since reconditioning and is only in fair condition. Further overhauling required or expected to be needed in near future.	Used property which has been repaired or renovated and is in poor condition from serious deterioration such as from major wear-and-tear, corrosion, exposure to weather, or mildew.	Property which has been slightly or moderately used, no repairs required, and still in excellent condition.	Used property, more worn than O-1, but still in good condition with considerable use left before any important repairs would be required.	Used property which is still in fair condition and usable without repairs; however, somewhat deteriorated, with some parts (or portion) worn and should be replaced.	Used property which is still usable without repairs, but in poor condition and undependable or uneconomical in use. Parts badly worn and deteriorated.
Column 1		Brief Description	Used-Reconditioned- Fair	Used-Reconditioned- Poor	Used-Usable Without Repairs-Excellent	Used-Usable Without Repairs-Good	Used-Usable Without Repairs-Fair	Used-Usable Without Repairs-Poor
		Code	9 i	<b>H</b>	9.	0-5	<b>?</b>	I
					Figure 1C-5. CODE	S-continuing		

Column 9	Dypolit. Not for use when processing DD Form 1818 Reports of Idle IPE.  Explenation of condition of Idle IPE After Inspection; Test, Repeir and/or Rebuild/Overhaul IPE which has ben vinually impected and/or operationally tested and does not meet minimum standards for condition 0-3 precision machine tools having specific alignment tolerances or 0-2 for other IPE without required alignment tolerances the appearance of the item or any costs less than \$100 to be expended for regairs other than \$6 make the item operate will not be considered but will be identified on DD Form 1842. Minor repairs required to retarn nachine to considered but will be identified on DD Form 1842. Minor repairs required to retarn machine to condition 0-2 would	not cost more than 10% of acquisition cost. Same as R-1 (above) except the estimated cost of miner repairs required to return a machine to condition O-2 would be from 11% to 25% of ac- ministion cost.	Same as R-1 above except estimated cost of minor Spairs required to return IPE to condition O-2 would be from 28% to 40%, of securificities cost	Same as R-1 above except estimated cost of minor repairs required to return IPE to condition O-2 would be from 41% to 65% of acquisition cost.	Same as R-1 above except estimated cost of minor repairs to return IPE to condition code O-2 would exceed 65% of acquiation cost.  NOTE: Code "X" will be used with extreme caution. Only those repairs necessary to upgrade an item to O-2 condition will be applied to computing the condition code. The condition of any item coded "X" will be thoroughly described on DD Form 1342 or inspection, test and condition determination forms showing the cost of repair required to correct major operational and alignment deficiencies and to improve performance, despendability, life expectancy and appearance despendability.	Use Code X or appropriate R series condition code.
Columns 9	Expanded Definition Used property, still in excellent condition, but minor repairs required (repairs would not cost more than 10% of acquisition cost).	Used property, in good condition but considerable repairs required. Estimated cost of repairs would be from 11% to 25% of acquisition cost.	Used property, in fair condition but extensive repairs required. Estimated repair costs would be from 26% to 40% of acquisition cost.	Used property, in poor condition and requiring major repairs. Badly worn, and would still be in doubtful condition of dependability and uneconomical to use if repaired. Estimated repair costs from 41% to 85% of acquisition cost.	Personal property that has some value in excess of its basic material content but which is in such condition that it has no reasonable prospect for use for any purpose as a unit (either by the holding or any other Federal agency) and its repair or rehabilitation for use as a unit (either by the holding or any other Federal agency) is clearly impracticable. Repairs or rehabilitation cost would be considered "clearly impracticable" for purpose of this definition.	Material that has no value except for its basic material content.
Column 1	Brief Description Used-Repairs Re- quired-Excellent	Used-Repairs Required-Good	Used-Repairs Required-Fair	Used-Repairs Required-Poor	No further value for use as originally intended but of possible value other than as scrap.	Scrap
	20 C M	ស្ត <b>នុំ</b> Figure 1C-6	es es . CODES	₹ <b>&amp;</b> 6–continuing	M	Ø

### **OPERATING TEST CODES**

### Code Definition Code Definition

- IPE excluded from testing for the following reasons, e.g., new or unused since being rebuilt.
   Used but having a satisfactory record of operability.
- 2 IPE to be, but not yet, tested.
  3 IPE which has been tested and found to be in-
- 3 IPE which has been tested and found to be inoperable.
- 4 IPE which has been tested and operability determined to be satisfactory.

Figure 1C-7. CODES-continuing

### Appendix 2A

# PREPARATION OF DD FORM 1342 (EDITION OF I FEB. 1968) FOR INITIAL REPORTING OF INDUSTRIAL PLANT EQUIPMENT (IPE)

This appendix is used to report new acquisitions and IPE not previously reported to the DoD central record. Only one report is required for either circumstance. In–use items will be reported to DIPEC on one copy of DD Form 1342 identified by marking "active" and "initial" in block 1. Section I, block 52 (Condition Code) of Section II, and S sections III and V of the form are to be completed in accordance with this appendix. Idle items not previously reported to DIPEC as "active" are to be identified by marking "idle" and "initial" in block 1. Sections II, III, and V of "initial—idle" reports are to be completed in accordance with Appendix 2B.

- (1) (Block 1). Check appropriate boxes to indicate "Active" report and that the report is an "Initial" report.
- (2) (Block 2). Enter the Julian date of preparation of the form. The first character will be the last digit of the current calendar year, and the next three characters, the Julian date of the year.
- (3) (Block 3). Enter the Identification Number/Government Tag Number shown on the identification plate affixed to the equipment.
- (4) (Block 4). Enter a 12 digit PEC number, selected from the applicable handbook listed in Appendix 1B for the item being reported.
- (a) The PEC is determined by comparing and matching the manufacture's designation, description and size or capacity of the item to the data entry in each column of Section 2 of the IPE handbook.
- (b) When the item cannot be related to a specific entry in Section 2, Section 1 of the handbook will be screened for the noun name, description and the size of capacity data, which correctly describes the item being reported. The assigned PEC (zeros may appear in 9th through 12th positions) representing the matching data will be selected for entry in block 4. In block 26, enter the complete descriptive data in accordance with paragraph 23 below. DIPEC will complete or correct the PEC assignment per Chapter 5.
- (5) (Block 5). Activities which use the NSN as the identifying number will enter the NSN. When the NSN is known it should be included in all reports.
- (6) (Block 6). Indicate in dollars (omit any symbols, decimal points, commas, etc.) the acquisition cost used for property accounting purposes. The acquisition cost will be the price of the basic item and accessories and auxiliary equipment procured and delivered with the basic unit. Acquisition cost will be changed when an accessory or auxiliary item is added to or deleted from an item of IPE, or when additional safety devices are installed on IPE to meet safety standards required under the Occupational Safety and Health Act of 1970. If the initial acquisition cost data are not available, an appraised acquisition cost (based on known costs at the time of manufacture of the same or similar equipment, price lists for the period involved, or the best available price from other sources in the DoD), should be used which will achieve conformity of prices for all other IPE, insert the DoD Activity Address like items of equipment. Code of the DoD component having property accountability (see DoD 4000.25–D).
  - (7) (Block 7). Enter one of the codes listed in Appendix 1C.
- (8) (Block 8). Enter the last two digits of the year the item was manufactured. If the actual year of manufacture cannot be determined, estimate the date and place an "E" immediately preceding the entry. When IPE is modified and

fitted with numerical control equipment, the year of retro-fitting will be entered under "Remarks" in all initial reports of retro-fitted IPE not previously reported to the inventory.

- (9) (Block 9). Enter the appropriate operating power code listed in Appendix IC. Assure that the code selected represents, the type of power required to supply the prime energy requirement. (This does not necessarily represent the electrical characteristics of the electric motor(s).) When the code is for other than electrical energy, describe the type of power required in Section III, "Remarks."
  - (10) (Block 10). Enter the appropriate status code listed in Appendix 1C.
  - (11) (Block 11). Enter the appropriate service code listed in Appendix 1C.
- (12) (Block 12). Enter the appropriate DoD activity address code from DoD 4000.25–D to identify the cognizant military command or activity within the DoD component having management procurement responsibility for the item or program supported by the equipment.

Note. For IPE in possession of contractors, the correct code would normally be that found in the "Issued by" block of the contract to which the IPE is accountable.

- (13) (Block 13). For IPE in possession of a contractor, enter the appropriate code from the DoD 4105.59H, DoD Directory of Contract Administration Services Components, to identify the DoD component that has property administration responsibility for the item of IPE. For
- (14) (Block 14). Enter the name of the manufacturer only when the code for the manufacturer of the IPE being reported cannot be determined for block 15. Do not use a distributor or vendor's name. Enter the word "Unknown" when the name of the manufacturer is not known. In some cases, manufacturers have merged or become subsidiaries of another company; therefore, the appropriate manufacturing division subsidiary name should be used and not the parent company.
- (15) (Block 15). Enter the five digit, numerical code identifying the manufacturer of the IPE obtained from Section 2 of the IPE handbook for the item being reported. If the code is not available in the handbook, then refer to Cataloging Handbook H–4–1 or H–4–3. Enter "Unknown" when the name of the manufacturer is not known or the code is not available.
  - (16) (Block 16).
- (a) Enter the manufacturer's model, style, or catalog number for the equipment being reported. Always use the model number, if available. Style number would be next in preference. When the manufacturer does not assign model, style, or catalog number, the word "None" will be inserted.
- (b) When the model number is obtained from the IPE handbooks, the model number must agree with the manufacturer's description, size, capacities of the equipment and Plant Equipment Code. All model numbers must be verified by a physical inspection of the equipment.
- (c) When unable to locate a model number, refer to manufacturer's brochure or purchase order. If the model number is obtained from other than the equipment, indicate the source in "Remarks" (Block 54).
- (17) (Block 17). Enter the serial number taken from the plant equipment. If the serial number is not assigned, enter "NONE".
- (18) (Block 18, 19, 20 and 21). When completed the length, width and height will be recorded to the next foot, including skid. Dimensions of boxed items should be to the next foot only.
- (a) DoD components that are not in possession of published skidding instructions will add 24'' to the length, 4'' to the width, and 10' to the height of the item for determining skidded dimensions.

EXAMPLE: Actual machine measurements are 12'-3" long, 6'-10" wide, and 8'-4" high. By using the above formula, reporting measurements would be 15' long, 8' wide, and 10' high.

- (b) When disassembly for movement or storage results in more than one skid, indicate the total size and weight. Length, width, and height of each individual skid assembly will be so indicated in "Remarks" (Block 54).
- (c) Weight will be recorded to the nearest hundred pounds, except for items weighing less than 500 pounds on which the weight will be indicated to the nearest 10 pounds. The weight will not be limited to that of the basic machine, but will include the weight of accessories and auxiliary equipment. This combined weight does not include skid weight. The carrier's inbound freight bill on machine tool manufacturer's specifications are normally an accurate source document for weight information.
- (19) (Block 22). Enter the number and date of the Certificate of Non-Availability (CNA) issued by DIPEC. NOTE: The CNA number and date are recorded in blocks 39 and 41 of DD Form 1419 for items, which were not available from the DoD General Reserve when screened by DIPEC. If the CNA number and date are not available when reporting IPE for the first time, explain under Remarks (block 54).
- (20) (Block 23). When applicable, enter the ASD (I&L) PEP number assigned by the Assistant Secretary of Defense (I&L) indicating approval of mobilization equipment.
  - (21) (Block 24). This entry is not required in inventory reports.
- (22) (Block 25). Enter the complete contract number under which the contractor is account able for the item. This normally will be a facility contract number. Otherwise, the production, procurement, service, lease, or lay away

contract number, as applicable, will be entered. In the case of Government-owned, Government-operated activities, enter the DoD Component property account number.

- (23) (Block 26). Completion of this entry is required only when the item description, size or capacity data, or the manufacturer's designation are not published in Section 2 of the applicable IPE handbook listed in Appendix 1B. (See paragraph 4 above.) When recording the description and capacity data for identification and reporting of items identified as IPE by Section 1 of the handbook, the information will be developed in accordance with the following instructions:
- (a) The IPE will be described in accordance with the instructions provided in the Foreword and Section 3 of the IPE handbook including the major group, class, subclass, type, subtype, size group and specific size. When the manufacturer's designation of an item being reported is not included in Section 2 of the applicable handbook, all additional information required by the applicable descriptive guide in Section 3 must be entered. Continue in Remarks (block 54) if required.
- (b) Physical inspection by qualified technical personnel will be performed on all IPE to obtain or verify descriptive and capacity data and adjustments thereof used by the manufacturer to describe the IPE.
- (c) If the item being reported is a single purpose item, a complete description of the product produced will be entered with identifying drawing or part numbers, if available.
- (d) If the item being reported is a general purpose item with special features, the special features and their relation to the original design will be fully explained.
- (24) (Block 27). This entry is optional and will be completed only when required to record electric motor capacity data according to Section 3 of the handbook. (See paragraphs 4 and 23 above.) To record the electrical characteristics and quantity of motors, list the main drive motor(s) first, followed by other motors in order of importance. When more than four lines are required, continue the listing under "Remarks"
- (25) (Block 28). This entry may be omitted when the possessor has been previously assigned a possessor code (block 29) by DIPEC and the IPE which is being reported under this code will be used or physically located at the same facility or installation of the possessor.
- (a) When a possessor code has not been assigned or is unknown, enter the DoD component or company name, street address, state and ZIP code indicating the actual location of the IPE. If no street address exists, indicate "No street Address".
- (b) When the actual IPE location is at a subcontractor's plant, which does not have an assigned possessor code, enter the name of the prime contractor above the subcontractor's name.
- (26) (Block 28a.). This number w'ill be assigned by DIPEC when required for central inventory control purposes. When DIPEC assigns a number to an item, the number will be entered and referenced in future documents covering that item.
- (27) (Block 29). When known, enter the possessor code assigned by DIPEC to identify the location and possessor of IPE. When a code has not been assigned to the possessor or to a specific IPE location, DIPEC will assign the code and complete this block (see paragraph 25 above). The possessor code consists of a two digit state/country code from DoD 5000.12–M, Manual for Standard Data Elements, and a four-digit city, code from the GSA publication "Geographical Location Codes," plus a six-digit Plant Index Number as listed in DoD 4005.3H, Register of Planned Emergency Producers, or assigned by DCAS–HM or DIPEC.
- (28) (Block 52). Condition codes are not required to be assigned in initial inventory reports of active IPE being reported in status code IA. For reports of IPE in another status code (e.g. 3H), enter the applicable condition code listed in Appendix 1C which describes the present condition of the IPE item, its component parts and auxiliary equipment (see paragraphs 10223 and 20204). The condition or the shortage of IPE accessories, as defined in paragraph 10222 and assigned to the basic item, will not be considered in determining an appropriate condition code. (See paragraphs 6 and 29 of this appendix for instructions to record and report accessories assigned to IPE.)
- (29) (Block 54). The space in this block or continued on the reverse side of the form may be used for continuation or explanation of above entries. List all accessories, auxiliary equipment identified to the item (see Item 6, Acquisition Cost) and technical data identified to the item (technical data include those data specified in paragraph 20203–le).
- (30) (Block 57). Enter date and the signature of the individual (q) authorized to validate the report (e.g., Property Administrator Quality Assurance Representative).

## Appendix 2B

# PREPARATION OF DD FORM 1342 (EDITION OF I FEB 1968) FOR REPORTING IDLE INDUSTRIAL PLANT EQUIPMENT (IPE)

This appendix is used to report idle IPE to DIPEC on DD Form 1342. Two copies of the form will be submitted to DIPEC within 15 working days after the IPE becomes idle. If any data changes after submission of an initial idle report, a complete new report will be prepared and submitted to DIPEC.

Note. The DD Form 1342, including completion of section 11, may also be used to identify IPE, which has become idle and in scheduled for retention in a PEP. The acronym PEP will be stamped in 2-inch high letters on all copies.

- (1) Idle reports are identified by checking "idle" in block I of the form. If the idle IPE is being reported to the DoD Inventory for the first time, the report is chocked "Idle" and "Initial" in block 1. Idle change reports, which report data changes after submission of the initial report, are identified by checking "idle" and "change" In block I of a complete new report.
- (2) Where data previously reported for in—use assets, in the hands of the Military Services, remain unchanged, the file report can be limited to blocks 8, 4, 6, 10, 11, 28a, 29 and 52 entitled respectively: I.D./Government Tag Number, Commodity Code, Acquisition Cost, Status Code, Service Code, DIPEC Control Number, Possessor Code and Condition Code. For assets in the hands of contractors, idle reports must be fully Completed in accordance with appendices 2A and 2B in order to initiate CAS processing.
- (3) Except for contractor inventory, each idle/excess report submitted to DIPEC must contain a 14-character MILSTRIP Document Number. The first six characters of the document number will Identify the reporting activity, unit, organization or office by employing the "Activity Address Code" listed in the DoD 4000.25D, DoD Activity Address Directory. The next four digits of a document number will be the reporting date. The first character of then four digits will indicate the last numeric digit of the calendar year and the remaining three digits will represent the Julian date of the year. The lost entry of a document number will be a four-character entry, serially asigned by the document originator. The document number must be entered in the upper margin of the DD Form 1342.
- *Note.* For items of IPE declared Service excess and processed in accordance with paragraph 120501, chapter 12, the document number should be the number assigned by the holding activity as required by the material return procedure referenced in paragraph 12050–1. For idle/excess IPE generated outside the scope of chapter 12, the document number must be assigned by the originator of the, idle report (s) being submitted in accordance with paragraph 20501–1, chapter 2. For all DoD excess IPE, the document number assigned to an idle report must be perpetuated on the Turn–in Document subsequently forwarded to the DPDO.
- (4) (Block 6). Remodeling costs will be added to the initial acquisition cost, when necessary. Costs will be adjusted in accordance with paragraph 20204.1. When additional safety devices are installed on IPE to meet safety standards required under the Occupational Safety and Health Act of 1970, the coat of the devices will be added to the acquisition cost of the IPE.
- (5) (Block 24). Enter the ARD by Julian date as established in accordance with ASPR. For items other than contractor inventory, leave blank.
- (6) (Block 29). When IPE remains at the same location as previously reported by the possessor and the possessor's code assigned by DIPEC is entered in block 29, the address of the IPE location may be omitted. However, the administering activity will always enter the telephone and extension number or an individual's name and, telephone and a contact point for additional technical information and for arrangements to inspect idle IPE. NOTE: If the item must be moved to another location for disposal purposes, enter the now location data in this block or In block 64.
  - (7) (Block 28). Enter the control number when assigned by DIPEC.
  - (8) (Block 29). Enter the asigned possessor code, when appropriate. (See paragraph 5 above).
  - (9) (Block 3O). If yes, see paragraph 40101.2f.
  - (10) (Block 31 through 53). Self-explanatory.
  - (a) Complete all blocks applicable to the item being reported idle.
  - (b) Explain negative replies in blocks 33-35 and 41-47.
- (c) Give cost estimates, when applicable. Cost estimates for packing crating and handling requirements must inform to specifications of MIL-STD-107 (see paragraphs 40102-4 and 40201-2).
- (d) Explain the effect modification has on the general utility of the item, such as limiting its use, conversion to its original configuration, etc. When applicable, record all numerical control data, special design features, and additional description and capacity data required by the applicable description guide in section 3 of the IPE handbook.
- (e) Installation and operating Instructions belonging to the IPE should be listed in block 64 "Remarks" as technical data available for shipment with the IPE (see appendix 2A, paragraph 29).
- (f) Condition codes entered In block 52 from appendix 1C must accurately describe the present condition of the IPE (see appendix 2A. paragraph 28). Codes should be assigned during operational testing of IPE while connected to power and verified by a competent technician (an paragraph 20501–1).
- (g) DoD activities which perform analytical Inspection of IPE being reported idle should attach a copy of the completed analytical tat pattern to the idle report (operating test codes are listed in appendix 1C. NOTE: DoD activities may submit forms requirements for analytical test pattern to DIPEC where then forms an stocked and issued on a nonreimbursable basis.
- (h) If the Item is being reported In advance of the date of availability for redistribution (am paragraph 20501–2) or if the reported item in authorized for replacement under exchange/ ads procedures, indicate the date the item Will become available.
  - (11) Use "Remarks" for continuation or explanation of previous entries, and the following, as applicable:

- (a) List all manufacturers' manuals, accessories, and auxiliary equipment identify to the item and available for shipment.
  - (b) List aluminum skid components required to ship IPE in accordance with MILHDBK-701 (see chapter 11).
- (c) DoD components that do not furnish DIPEC some form of blanket authorization cite required PCH and transportation funds. See paragraph 40102–8b.
- (d) Enter the Plant Clearance Case Number assigned by the contract administration services activity. See ASPR 24–302.5.
- (e) Indicate the exchange/sale category from DoDI 4160.1 and the estimated gross competitive bid value or exchange allowance for IPE, which is selected for handling as, exchange/ sale property and is being offered for utilization prior to its being exchanged or sold.
- (f) Enter the certification required for retention of idle IPE under Status Code V, see paragraph 30101–2c and appendix 1C. The certification will be made in section III (Remarks) of each DD Form 1342 upon which a piece of IPE in Status Code 4F is reported idle to DIPEC. It will be in the following format:
- I certify that this item is required to be retained in idle status at its present location:
- (1) To support a signed agreement (DD Form 1519 DoD Industrial Preparedness Program Production Planning Schedule). An approved mobilization package number (PEP \*) has not been assigned, or
  - (2) Pending completion of emergency production Planning with the contractor,
  - (3) To support foreseeable future military production contracts.

Signed/ASPP0	]	Date	
Number assigne			
Signed/PCO	D	Oate	

*Note.* The ASPPO and PCO will certify the retention of IPE pending completion or approval of emergency production planning. Items (1) and (2) above. The PCO will also certify the retention of IPE to support foreseeable future military production contracts. Item (3) above.

# Appendix 2C TRANSFER REPORTING

- (1) The administering activity (consignor) will:
- (a) Comply with the requirements of MILSTD-107, MIL-HDBK-701, Appendix 3C, shipping instructions issued by DIPEC, and ASPR 19–407as applicable. If there is a delay in shipment, which will not ensure delivery of the IPE at its destination by the required delivery date specified in the DIPEC shipping instruction, the administering activity will immediately notify DIPEC.
- (b) Perpetuate the shipping instruction document number, PEC number, ID number, and appropriation chargeable for PCH&T costs on all copies of the shipping documentation. Aluminum skids used in shipment of IPE will be listed on the same document used for shipment (if the IPE or on separate shipping documents. Shipment status via DD Form 1348M or one copy of each completed shipping document (containing bill of lading number, mode an date of shipment) will be furnished the consignee activity, as notice of shipment.
- (c) Not later than two days after shipment, forward shipment status card or one completed copy of IPE and aluminum skid shipping documentation, stamped "Notification of Shipment" to DIPEC.
- (2) The gaining activity is not required to submit a DD Form 1342 as notification of receipt to DIPEC. However, any changes in Identification. Government Tag numbers will be reported to DIPEC by the most expeditious means. Changes in block 3, Identification Number, will be appropriately cross—referenced to the old identification numbers (see Appendix 2A).
- (3) DSA-operated storage facilities will follow the procedures in DSAM 4215.2 Defense Industrial Plant Equipment Storage/ Maintenance Activities Operations Manual.

# Appendix 2D CHANGE REPORTING

Changes to data previously reported for active items will be reported on DD Form 1342 in accordance with the criteria established in paragraph 20301 only. The DD Form 1342 (one copy) will be forwarded to DIPEC and prepared is follows:

(1) Indicate a change is being made to the active inventory by checking "Active" and "Change" boxes in block 1. (Change to idle IPE is reported according to Appendix 2B).

- (2) Enter the Julian date in block 2, the Identification/Government Tag Number in block 3, PEC in block 4, NSN (if assigned) in block 5, DIPEC Control Number (if assigned) in block28a, and the authorizing official's signature in block 57.
- (3) The requirement for reporting changes on active inventory is limited to the data elements identified in paragraph 20301. When an identification number change is reported, enter the new identification number in block 3 and the old number above the new number. When a Commodity Code/PEC change is reported, enter the new number in block 4 and the old number above the new number. Enter only the new information in blocks 11, 12, 13, 25 and 28 as specified by Appendix 2A.
- (4) When data elements other than those specified in paragraph 20301 have been reported erroneously, or there has been a change in data elements other than those specified in paragraph 20301, the corrected data should be included in the change report required by paragraph 20801. If an idle report is prepared according to Appendix 2B in lieu of a change report, the corrected data should be included in the idle report as specified above.
  - (5) Mechanized reporting may be utilized in lieu of the DD Form 1342.

# Appendix 2E IPE VISIBILITY CARD

Field Legend	Card Column	Explanation and Instructions
Document Identifier	1-3	Enter code "CZY"
Routing Identifier (To).	46	Enter DIPEC R/I Code "S9R"
Blank	7	Leave blank
NSN	8-22	Enter the stock number of the item reported
Unit of Issue	23-24	Leave blank
Blank	25-30	Leave blank
Routing Identifier (From)	31-33	Enter code identifying the SCA/ICP preparing the card
Routing Identifier	34-36	Enter the code identifying storage activity a which item is stored
Julian Date	37-40	Enter last digit of calender year and three digits signifying the numerical day the care processed
Blank	41-54	Leave blank
Condition Code	55	Enter condition of the item as reflected or Inventory Control Record
Quantity	56-61	Enter the quantity of the item on hand a location in cc 34-36 in condition reflected in cc 55, preceding significant digits with zeros
Blank	62-80	Leave blank

Figure 2E-1. IPE VISIBILITY CARD

### Appendix 2F

# PREPARATION OF DD FORM 1342, (PAGE 2) (EDITION OF I AUG 77), SECTION VI - NUMERICALLY CONTROLLED MACHINE DATA

This appendix is used to record numerically controlled (NQ features of IPE Type Codes 6, 6, and 7 at the time (1) now NC IPE items are acquired and (2) idle NC IPE Items are reported to DIPEC for DoD screening and NC data has changed or has not previously been reported to DIPEC (see para, 20501–1 for requirement to include NC data changes with Idle reports).

- (1) Complete the blocks in the top line (heading) for Section VI of the form to indicate whether the report of NC data is an initial or change and whether the NC IPE is an active or idle item.
- (2) (Blocks 58 thru 61). Identify the manufacturer's name, model designation, serial number and date of manufacture of the numerical control.
  - (3) (Block 62). Check the appropriate box(s) to indicate the type of design utilized in the control unit, i.e.: I.C. Integrated Circuitry

CNC - Computer Numerical Control

Stored Program – Integrated Circuitry control unit with program storage capability.

Edit - CNC and stored program that have edit capability

Solid State – Self–explanatory

Vacuum Tube – Self–explanatory

- (4) (Block 68). Indicate the type of numerical control system by chocking the appropriate box, i.e.:
  - —positioning (or point-to-point)
  - —contouring (or continuous path)
  - —contouring/positioning (combination of the above)
- (5) (Block 64). When the Item is part of a Direct Numerical Control System, check appropriate boxes to describe the system.
- (6) Block 65). When applicable, enter the figure numbers in the referenced EIA Standard which identifies each axis of Machine motion whether the motion in by NC Or other MOWL See RZ-267, AXIS and Motion Nomenclature of Numerically Controlled Machines.
- (7) (Block 66). Insert the format detail in accordance with Appendix A, paragraph A.2 of EIA Standard chocked in Block 77A.
- (8) (Block 67). Insert the format classification shorthand in accordance with Appendix A, paragraph A.1 of the EIA Standard checked in Block 77A.
- (9) (Block 68). Name and identify rotary motions under NC. Examples: (1) a-axis rotating spindle head. (2) b-axis rotating table.
- (10) (Block 69). Identify by name each axis that is controlled under positioning mode of operation. Example: X, Y, Z, B.
- (11) (Block 70). Identify by name each axis or combination of axes that are under contouring control simultaneously. Example: (1) XYZ, (2) XY, XZ, or YZ (switchable).
- (12) (Block 71). Name each axis, linear and rotary, maximum travel of each, whether under NC or not. Indicate linear travel in inches in millimeters and rotary motions in degrees.
  - (13) (Block 72). Indicate the maximum positioning rate (rapid traverse rate, or maximum food rate).
  - (14) (Block 73). Enter the food range of controlled rotary and linear motions.
- (15) (Block 74). Indicate the number of spindles (that can work simultaneously), number of spindle motors, horsepower of each spindle motor, spindle taper, spindle speed range, number of increments and check the "yes" or "no" box for tape control of (spindle speeds (Block G).
- (16) (Block 75). List the preparatory "G" function codes that are, furnished in accordance with Appendix B.1 of the EIA Standard chocked in Block 77A. List and describe in Block 98 all codes for preparatory functions using EIA unassigned codes.
- (17) (Block 76). List the miscellaneous functions in accordance with Appendix B.2 of the ZIA Standard checked in Block 77A. List and describe in Block 98 all codes for auxiliary functions using unassigned codes.
  - (18) (Block 77). In Block A, check the applicable EIA Standard, i.e.:
    - RS-278 Interchangeable Perforated Tape Variable Block Format for Positioning and Straight Cut Numerically

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Controlled Machines.

RS-274 – Interchangeable Perforated Tape Variable Block Format for Contouring anti Contouring/Positioning Numerically Controlled Machines.

RS-326 – Interchangeable Perforated Tape Fixed Block Format for Positioning and Straight Cut Numerically Controlled Machines.

In Block B, check the applicable input data format.

In Block C, check the applicable input data for character code(s), i.e.:

RS-244 - Character Code for Numerical Machine Control Perforated Tape.

RS-358 – Subset of USA Standard Code for Information Interchange for Numerical Machine Control Perforated Tape.

Note.: When a control system is provided with either automatic or manually switchable RS-244-RS-358, check both blocks.

Binary - Data derived from an APT or similar part program processor and is in binary format.

In Block D, check the applicable system of dimensional input accepted by the control. If the control unit has switchable feature, check "Both".

- (19) (Block'74 Enter tool change data in Block A thru I according to the following:
- (a) In Block A, enter the number of turrets for turning, drilling and punching machines as applicable.
- (b) In Block B, enter the stations each is to be completed with the number of stations for each turret, such as "8, 4".
- (c) In Block C, check the appropriate box to indicate whether the machine is equipped with an -automatic tool changer other than turret type.
  - (d) In Block D, enter the number of tools that can be stored in the magazine of the automatic 0 of changer system.
  - (e) In Block E, check the type of tool selection utilized by the tool changer.
  - (f) In Block F, indicate the maximum tool diameter than can be handled by the automatic tool changer.
  - (g) In Block G, indicate the maximum length of tool that can be handled by the automatic tool changer.
  - (h) In Block H, indicate the maximum weight of the tool that can be handled by the automatic tool changer.
  - (i) In Block I, indicate the method utilized in coding the tools for the automatic tool changer.
  - (20) (Block 79). Indicate in Blocks A through F the type of rotary table according to the following:
  - (a) In Block A, check the appropriate box to identify the type of indexing according to definitions (1) and (2) below:
    - (1) Manual The rotary table in manually rotated to the desired position and locked.
- (2) NC On a signal from the control unit, M-function, the table rotates to the next established position and automatically locks. If the desired move is beyond that position, one additional signal from the control unit is required for each subsequent established position. The cutting tool must be withdrawn from the work piece before the move is initiated.
  - (b) In Block B, indicate the number of stops provided for the indexing table.
- (c) In Block C, check the appropriate box to indicate "Yes" or "No" according to the following definitions for positioning, NC: On instructions from the control unit, the table rotates at a constant speed to the programmed discrete position and automatically locks. The cutting tool must be withdrawn from the work piece before the move is initiated.
  - (d) In Block D, indicate the total number of programmable positions of the positioning table.
- (e) In. Block E, check the appropriate box Yes or No according to the following definition for contouring, NQ On instructions from the control unit, the table rotates at the programmed feed rate to the programmed position. The axis in synchronized with at least one linear axis The cutting tool may remain in the work piece for cutting as the table rotates. The table must have locking capability.
  - (f) In Block F, indicate the feed range in RPM of the 6ontouring rotary table.
  - (21) (Block 80). Indicate the number of readers in the control unit.
- (22) (Block 81). Check the type of tape reader provided in control unit or specify if other than mechanical or photo electric. Example: If control has magnetic type reader, enter "mag" after "other".
  - (23) (Block 82). Enter the reader speed in characters per second (CPS).
  - (24) (Block 88). Check the appropriate box to indicate the type(s) of interpolation provided in the control unit or none.
  - (25) (Block 84). Check the appropriate box to indicate if the control has buffer storage.
  - (26) (Block 85). Indicate the maximum thread cutting lead, when appropriate.
- (27) (Block 86) Specify the number of cutter diameter compensations and the maximum amount of offset that may be entered for each.
- (28) (Block 87). Specify the number of pairs of tool offsets and the maximum amount of offset that may be entered for each.
  - (29) (Block 88). Check one or more boxes to indicate the data that may be read out on displays.
  - (30) (Block 89). Check the appropriate box to indicate the type of feedback device provided.

- (31) (Block 90). Indicate the smallest increment of measure that the control unit and feedback system will accept and act on.
  - (32) (Block 91). Check the appropriate box to indicate the type drive motors provided for the feed drives.
  - (33) (Block 92). Enter the postprocessor's name, such as GECENT III, BENSAX, etc.
- (34) (Block 93). Indicate who prepared the postprocessor, if available, and if other than the machine tool builder, such as General Electric, Bendix, or Allen–Bradley (Bunker Ramo).
  - (35) (Block 94). Enter the computer language used, such an Fortran IV or BASIC.
  - (36) (Block 95). Enter the part program language and version used, such as, APT. III, version 7.
  - (37) (Block 96). Identify the applicable computer, such as, IBM 86045.
- (38) (Block 97). List all required manuals such as Operator's Manual, Maintenance Manual, Part Programmers' Manual and Computer Programmers' Manual, when applicable. List control diagnostic and machine test tapes.
- (39) (Block 98). List all special features of the machine or control whether provided at the time of procurement or by modification at a later date; note any control features provided and identified by codes other than assigned EIA Standard codes; note control features that are not in accordance with applicable EIA Standards and list the special accessory items provided with equipment and other pertinent information which may be—useful to the next user.

Example: Pallet change

g22 CW circular interpolation - 3 digits in register.

### Appendix 3A

# INSTRUCTIONS FOR PREPARATION OF DD FORM 1419 (EDITION OF I FEB 1968) Dod industrial plant equipment requisition

This appendix is used for preparation of DD Form 1419 to request DIPEC screening against the DoD idle inventory, to accept or reject available assets offered by DIPEC and to certify nonavailability of an item from the DoD idle inventory. When requisitions are submitted via MILSTIP, the procedures prescribed by DoD 4140.17–M and the modified procedures in paragraph 30201 will be used for requisitioning, screening, allocating or certifying nonavailability of, IPE

- (1) Original and two copies of the DoD Form 1419 will be submitted to DIPEC. Sections I, II, and III of the DD Form 1419 will be completed in detail prior to submitting the requisition to DIPEC. Sections IV or V will be completed by DIPEC prior to return—of the form to the requester. Section VI and Section VII will be completed as applicable prior to return of the form to DIPEC.
- (2) HEADING–Requisition number (document number). Each DoD component will employ the following standard MILSTRIP procedures to establish requisition numbers. The requisition number will consist of 14 characters. The first six digits of the requisition number will consist of the "Activity Address Code," as listed in the DoD Activity Address Directory DoD 4000.25–which will identify the requisitioning activity, unit, organization or contractor. The next four digits of the requisition number will represent the date of the requisitioning action. The first character will be the last digit of the current calendar year and the next three characters the Julian date of the year. The last entry of the requisition number will be a four–digit entry assigned by the requester. When subsequent forms are submitted for the same item, a new requisition and document number will be submitted for each requisitioning action.
- (3) SECTION I-Item Description. The purpose of this section is for the customer to provide as complete a description as possible of the item he is requesting to meet the approved requirements. Requests for single purpose or general purpose equipment with special features must contain detailed descriptive data as to the size and capacities, setting forth special operating features or particular operations required to be performed by the item.
- (a) (Block 1). Enter the complete 12 digit PE-C, or FSC, as prescribed in Appendix 2A, paragraph 4, for the type of item being requested.
- (b) (Blocks 2 and 2a) In block 2, enter the five-digit Numeric/Alpha-Numeric Code for Manufacturers (PSCM), which identifies the manufacturer of the item being requested. (This code is obtained from the IPE handbooks listed in Appendix 1B or refer to Cataloging Handbook H-4-1 or H-4-3.) When the code cannot be determined, enter the name of the manufacturer of the item. In block 2a, enter the model, style or catalog number assigned to the equipment by the manufacturer. Always use the model number, if available. The style number would be next in preference. When a model, style or catalog number is not known, the word "NONE" will be inserted.
- (c) (Block 3). Activities which use the NSN as the identifying number will enter that number. When the NSN is known, it will be included in all reports in addition to the commodity code.
- (d) (Block 4). If applicable, enter the two digit input power code described in Appendix 1C. These codes designated the voltage current phase and cycle by which the basic item will be operated.
  - (e) (Block 5). Self-explanatory.
- (f) (Block 6). Indicate, by placing an "X" in the applicable block, whether the requester will/will not physically inspect the equipment prior to acceptance.

- (g) (Block 7). Self–explanatory.
- (h) (Block 8). Enter the complete description of the item including the major group, class, subclass, type, subtype, size group, specific size etc., as selected from the appropriate handbook. Enter description from Section 2 of handbook when manufacturer's designation of item being described matches a manufacturer's designation in Section 2. When no manufacturer's designation is found in Section 2 for item being described the appropriate descriptive guide in Section 3 should be used to develop descriptive data.
  - (4) SECTION II-Requiring Agency:
- (a) (Block 9). Enter the facility, agency, or contractor's name, street address, city, state and zip code from which the request is being initiated. The address should be the one to which correspondence or inquiries of a technical nature are to be referred. Include the name and telephone number of the individual to be contacted concerning the item requested. Also, complete Block 46 of Section VII when the requesting activity or its location will not be the same as the using activity to which the requested item is to be shipped.
- (b) (Blocks 10 and 10a). Enter the contract or document number and the date of the document, which authorizes the initiating agency or contractor to requisition the item described in Section 1. This normally will be a facility contract number; otherwise, the production (supply), layaway or lease contract number is applicable. In case of Government–owned, Government–operated installations, enter the DoD component property account number.
- (c) (Block 11). Enter the appropriate DoD in the DoD identify the activity address code as listed Activity Address Directory to cognizant military command or activity within the owning DoD component having management/procurement responsibility for the item or program supported by the equipment.
- (d) (Block 12). Check the applicable box indicating the equipment being requisitioned will be used at a Government or contractor facility. Identify the end item or purpose for which the item is requested and the product or service to which the equipment is to be assigned, as follows:
- (1) For industrial type facilities, list the nomenclature and model of major component for which the equipment is to be utilized or held in reserve, i.e., Titan, Midas, Polaris, or Hawk. When the equipment is used generally for more than one item use the term "general use." If the program is classified, insert the word "Classified" or project code name, work or number, i.e., WS-107 or Project Blue Goose.
  - (2) For all other facilities, list the service that will be performed by the item.
  - EXAMPLE: Automotive maintenance shop, Post R&U, Installation Sheet Metal Shop.
- (e) (Block 13). Enter the specific function to be performed by the equipment. When applicable, enter the tolerances capacities, specifications, etc., which the equipment must satisfy.
- (f) (Block 14). Determine the date the item must be installed in place to meet production requirements. From this date deduct the estimated number of days required for installation. Enter the adjusted date in this block.
- (g) (Block 15). Enter the date by which DIPEC must issue a Certificate of NonAvailability. The date will be developed by subtracting the procurement leadtime and 45 days administrative leadtime from the date shown in block 14.
- (h) (Block 16). Enter the appropriate Uniform Material Movement and Issue Priority System (UMMIPS) priority designator in accordance with provisions of DoD Instruction 4410.6 or appropriate agency implementation thereof. If not authorized to use UMMIPS priority designators, indicate in this box the program listed in DoD Instruction S-4410.3, Master Urgency List. All others insert "None".
  - (i) (Block 17). Place an "X" in the applicable box. (1) Production (current use).
    - (2) Mobilization (layaway).
- (3) Replacement (replace existing item (s) on a one-for-one basis or more than one-for-one basis). The requester will identify, in block 51 or on an attached sheet, the item(s) to be replaced and the reason for the replacement, e.g., worn out, no longer holds tolerances, old or obsolete, etc.
- (j) (Block 18). Enter an "X" in the appropriate box ' if the item will. Will not be procured. If "Yes", cite the appropriation.
- (k) (Block 19). Entry is required only when the item described in Section I is scheduled for rebuild/overhaul. Place an "X" in the "Yes" box and enter in block 51 or on an attached sheet, the data specified in Section III, Chapter 7.
- (1) Blocks 20 and 21). In addition to the official's title and ink signature, enter the signing official's typed name, office symbol or name and telephone number and extension. For contractor requirements, the signing official will be the company representative who prepares and submits the requirement to the cognizant contract administration services office.
  - (m) (Block 22). Self-explanatory.
- (n) (Block 23). This item is completed by the cognizant contract administration services office or the cognizant military activity which determines and certifies valid need for the IPE being requisitioned. (1) (Block 23a). Enter the appropriate code from the DoD 4105.59H to identify the DoD component responsible for contract administration. For other activities enter the DoD activity code, listed in the DoD Activity Address Directory of the DoD component having property accountability.
- (2) (Block 23b). Enter the name, street address, city, state, and zip code of the Government activity completing the certification.

- (3) (Block 23c). For contract requirements, the signature of the production representative at the cognizant contract administration services office represents the certification of need.
  - (4) (Blocks 23d, 23e, -and 23f). Self-explanatory
- (5) SECTON III–Approval Authority. The purpose of this section is to approve and authenticate the requirement contained in Sections I and II above, when required. Normally, for contract requirements, this section is completed by the procuring DoD component when the cognizant contract administration services office does not have necessary contract authorization to approve a specific request and must forward the request to the procuring DoD component for necessary approval action and submission to DIPEC. If the cognizant administrative contracting officer (ACO) has a contractual document authorizing the requisition of IPE, the PCOs name should be entered in block 51 (Remarks) prior to ACO signature. Forms not possessing this information will be returned to the applicable DoD component.
- (a) (Block 24). Enter the name, street address, city, state, and zip code of the Government activity approving the request for the item in Section 1.
  - (b) (Block 25). Enter the official's title, office symbol and telephone number and extension.
  - (c) (Block 26). Typed name of approving official and signature.
  - (d) (Block 27). Self-explanatory.
- (6) SECTION IV-Allocation and Authority to Inspect. This section will be completed by DIPEC when suitable asset is available and offered to the requester.
  - (a) (Block 28). Enter the complete PEC applicable to the item being offered.
  - (b) (Block 29). Enter the Identification/ Government Tag number of the item being offered
- (c) (Block 30). Attach a copy of the latest DD Form 1342 to the copies of the DD Form 1419 returned to the requester. Enter the date of the DD Form 1342.
- (d) Block 31). Enter the last known location of the equipment. This will be either the location of last user or a DoD storage facility.
- (e) (Block 32). This entry will be completed by DIPEC when the item is in process of being shipped to a DoD storage/maintenance facility. If physical inspection is required, the requester should verify the location with DIPEC.
- (f) (Block 33). Enter in each block the estimated time lapse from the date the item is accepted by the requester to delivery of equipment on site. (1) Equipment located at a DSA storage/maintenance facility will be functionally/analytically tested prior to shipment. The number of days entered in the repair and overhaul block indicates the estimated number of days required to perform these functions if the equipment is in condition code "R" or if the test indicates that repair/overhaul is required.
- (2) Equipment reported in "N", "E" or "0", condition and located at other than a DSA storage/maintenance facility will be shipped in an "as is" condition except for normal cleaning, preservation, and packaging, unless otherwise specified in Section VI at the time of acceptance.
- (3) Equipment reported in an "R" condition and located at other than a DSA storage/maintenance facility may require transshipment to a storage/maintenance facility prior to shipment to use. The time element involved will be entered in the applicable blocks.
  - (g) (Block 34). Typed name of approving official and signature.
  - (h) (Block 35). Self-explanatory.
- (i) (Block 36). Enter the date the offer expires and the equipment will be removed from "hold" status and subject to further allocation. This normally will be 30 days from the date entered in block 35. Requests to extend this "hold" must be submitted so as to reach DIPEC before the expiration date.
  - (7) SECTION V-Non-Availability Certificate. This section will be completed by DIPEC.
- (a) (Block 37). NOTE: DIPEC will continue to screen the requisition for which the Certificate of Non–Availability has been issued for 45 calendar days following the date shown in block 39. Items located and offered during this period must be considered in lieu of procurement when cancellation of the procurement action can be accomplished in the best interest of the Government.
  - (b) (Block 38). Type name of approving official and signature.
  - (c) (Block 39). Enter the date the Certificate of Non- Availability is issued.
  - (d) (Block 40). This entry will be 45 days from the date entered in block 39.
  - (e) (Block 41). Enter the number of the Certificate of Non-Availability.
- (8) SECTION VI-Certificate of Acceptance. This section will be completed by the activity delegated the authority to accept/reject the offered item.
  - (a) (Block 42). The Item Allocated in Section IV of this form.
- (1) Indicate acceptance of the asset offered either with or without physical inspection by placing an "X" in one of the applicable blocks. Conditions of acceptance will be indicated by placing an "X" in one of the blocks under the statement of acceptance. Explanations of conditions of acceptance will be provided in block 51.
- (2) Explanations of conditions of nonacceptance will be provided in block 51 or in a separate document attached to the DD Form 1419.
  - (b) (Blocks 43 and 44). Type name and title of certifying official and signature. See block 20 above.

- (c) (Block 45). Self–explanatory.
- (9) SECTION VII-Special Shipping Instructions. This section will be completed by the requester or cognizant administrative office, as applicable.
  - (a) (Block 46).
- (1) Domestic Shipment. Enter complete name, street address, city, state, and zip code of the using activity to which the item is to be shipped. In addition, indicate rail head and truck delivery points, as required, when other than the facility address above.
  - (2) Export Shipment. Enter the specific address of the appropriate transshipment point.
- (b) (Block 47). Enter the specific name and overseas address of the using activity as provided in the Military Standard Transportation and Movement Procedures (DoD 4500.32–R).
- (c) (Block 48). Enter additional data required to identify the specific user of the equipment or accountable office when applicable.
- (d) (Block 49). (a)(b)Enter the appropriation to be charged for packing, crating and handling, and for transportation charges, as applicable. See paragraph 40102–3b.
- (c) Enter appropriation to be charged for special work/material, services to be performed in "OTHER" block, (i.e., rebuild, repair, accessory replacement, refurbishment, etc., together with certification of funds availability and limitation of funds, if any, for all reimbursable items.)
- (d) Enter the complete name and address of the paying office to which the SF 1080 will be submitted. *Note.* Billing activity will request additional funding if required. Billing will be accomplished by SF 1018, Vouchers for Transfers Between Appropriations and/or Funds (Disbursement), or departmental agency procedures, as applicable.
  - (e) (Block 50). Self–explanatory.
- (10) SECTION VIII- (Block 51). This section will be used to expand on or explain entries made in blocks 1 through 50 or for additional data pertinent to the requisition. When requisitioning equipment from excess listings, identify the issuing office, list and date, control number and item number assigned to equipment.

This appendix provides instructions for preparing documents to request aluminum skids from DIPEC. Request may be submitted when skids are required for skidding and shipping idle IPE to storage or to another user in accordance with MIL-HDBK-701 and DIPEC shipping instructions.

- 1. Skids may be requested at the time the item of IPE for which the skids are intended is declared idle. DIPEC will hold these requests in suspense until the retain/excess decision is made for the item of IPE. DIPEC will forward a material release document to the skid storage site at the time the DIPEC shipping instructions are issued to the reporting activity to direct the shipment of the item of IPE to another DoD consignee. Separate skid requests will not be necessary when aluminum skid requirements are listed in Section III of the DD Form 1342, Idle Declaration, as prescribed by Appendix 2B.
- 2. When requests for skid components (if identified to a specific item of IPE for which shipment is authorized and directed) are received, DIPEC will forward instructions to a skid storage site to release the required skids to the requesting activity. If aluminum skids are not available, DIPEC will notify the requesting activity.
- a. Aluminum skids may be requested by DD Form 1149, Requisition and Invoice/Shipping Document, prepared in original and four copies as follows:
- (1) Block 1: Enter the name and address of the requesting activity.
- (2) Block 2: Enter DIPEC, Memphis, Tennessee 38114.

- (3) Block 3: Enter the name, address, and any "Mark For" information necessary to ensure correct consignment and receipt of the skid components.
  - (4) Block 4: May be blank,
  - (5) Block 5: May be blank.
  - (6) Block 6: May be blank.
- (7) Block 7: Enter the calendar date the skid components are required.
  - (8) Block 8: Enter priority.
- (9) Block 9: Leave blank for DIPEC's use in assigning shipping instructions number and skid shipment.
- (10) Blocks 10 through 15: Leave blank for the shipping site's use.
- (11) Block b: Enter a cross reference to the ID number and the document number of the DIPEC shipping instructions directing the shipment of the item (e.g. AN 700001). List the skid component part numbers from MIL-HDBK-701 and indicate the number of each required (e.g., item 1, 3990 Skid Runner, each 4).
  - (12) Blocks 16 through 20: Leave blank.
- b. Aluminum skid components may be requisitioned by using authorized MILSTRIP forms, codes, and communications media. An EAM card should be prepared for each skid component in accordance with the instructions of Appendix C1 of DoD 4140-17M, MILSTRIP. These requisitions may be submitted to DIPEC by data transceiver or other prescribed media and will be processed by DIPEC if the DIPEC shipping instructions document number and

Figure 3B-1. REQUESTS FOR ALUMINUM SKIDS

the line number of the item for which the skids are intended are shown in cc 71-80 of the req-

uisitions. An explanation of the entires for this type requisition is shown below:

# REQUISITION CARD (DD Form 1348-M) ENTRIES FOR SKIDS

Field Legend	Columns	Entry or Explanation Instruction
Document Identifier	1-8	AOD
Routing Identifier	46	S9R
Media and Status	7	Leave blank.
Stock or Part Number	8-22	DIPEC Skid Number from MIL-HDBK-701.
Unit of Issue	23-24	Each.
Quantity	25–29	Quantity being requisitioned
Document Number	30–43	Identifies the service, the requisition, the requisition date, and the requisition serial number.
Demand Code	44	Leave blank.
Supplementary Address	45–50	Enter "Ship To" address code as listed in DoD Activity Address Register.
Additional Shipping Address	51-56	Enter any special data to be included in the Shipping Address. May be blank.
Project	57-59	Enter applicable code or leave blank.
Priority	60-61	Reflect the appropriate issue priority designation.
	62-66	Leave blank.
	67-70	Reserve for DIPEC.
Shipping Instruction Data	71–80	Enter Shipping instruction number and item number of IPE for which component is entered, i.e., "SV10012301" for line number one on MN "SV100123".

Figure 3B-2. REQUESTS FOR ALUMINUM SKIDS

# PREPARATION AND HANDLING OF IPE FOR SHIPMENT AND STORAGE, AND RELATED SHIPPING AND TRANSPORTATION DOCUMENTATION AND INSTRUCTIONS

This appendix contains instructions and requirements for shipment and storage of IPE, including accessories, components, auxiliary equipment and data assigned to the basic unit of IPE.

- 1. Protection of IPE for shipment and storage in accordance with MIL-STD-107 is mandatory for all DoD components and contractors, unless otherwise specified. The requirements specified in MIL-M-18058 will be applied to shipments of metalworking machinery and support equipment directed to military activities located overseas (see paragraph 8c below). DoD activities and contractors shall require this same protection for IPE shipments prepared by non-DoD activities and contractors, unless otherwise specified in applicable documentation.
- 2. Preparation and handling of IPE for shipment or storage shall be in accordance with Sections 4 and 5, and Appendices A, B, C, D. and E of MIL-STD-107. Instructions and requirements in paragraph 8 below pertaining to storage are applicable only to those items stored on site, stored adjacent to the premise of the user or stored standby inplace, unless otherwise specified in shipping instructions. Application of levels of protection and referenced paragraphs under paragraph 8 below are in accordance with MIL-STD-107 and MIL-M-18058. DSA-operated storage/maintenance activities will comply with DSAM 4215.2.
- 3. The complete item of IPE must be prepared for shipment, including historical records, technical data, manufacturer's manuals

- and drawings, all components, accessories, and auxiliary equipment (also see paragraphs 20203 and 20204). Separated items will be boxed or packaged and attached to the basic item and shipped, if possible, on the same skid as the basic unit.
- 4. MIL-STD-107, MIL-M-18058, and MIL-HDBK-701 have application to a broad scope of IPE while the specification references in paragraph 8 below apply to special characteristics inherent in individual items. The following are instructions and requirements for handling and processing special equipment.
- a. ELECTRONIC AND ELECTRICAL EQUIPMENT. Special attention shall be given to the preparation and protection of electronic and electrical equipment in compliance with MIL-STD-107, paragraph 20.4 and MIL-E-17555. Electronic and electrical components or controls of other items of IPE shall receive the same attention and degree of protection, regardless of whether they are mounted upon the item of IPE or are separable.
- b. NUMERICAL CONTROLLED IPE. These items include electronic components which are of a complex nature, and which may be fragile and highly susceptible to damage. Requirements are set forth in this appendix to assure safe arrival at destination and to facilitate installation and reassembly of this equipment. Appropriate precautionary measures must be taken during disassembly, removal, preparation, handling, and shipment to assure compliance with the applicable paragraphs under 20.1 through 20.11 of MIL-STD-107 and

Figure 3C-1. PREPARATION AND HANDLING OF IPE FOR SHIPMENT AND RELATED SHIPPING AND TRANSPORTATION DOCUMENTATION AND INSTRUCTIONS

the applicable requirements of MIL-E-17555. Consideration should be given in the selection of the mode of transportation for the electronic components of each item. For example, the use of "air-ride vans" could result in safe delivery with a lesser degree of protection, thereby reducing the total DCH&T costs. This latter consideration is most applicable for use-to-use shipment, wherein the ultimate user is known at the time of preparation (as in contrast to an item that is going to a storage facility and is subject to rehandling and redistribution under unknown conditions and requires maximum unit protection). If desired, technical guidance and assistance may be obtained by contacting DIPEC-O.

- 5. Innumerable situations develop in the preparation of IPE for shipment and storage that require special guidance or technical assistance to assure the optimum program at minimum cost. When requested, DIPEC-O will provide technically qualified assistance, including the granting of waivers to the requirements of this appendix, the development of alternative methods and levels of protection, and the routing of items to other storage facilities. Telephone requests may be submitted when necessary to expedite preparation for shipment, with written confirmation when required.
- OVERWEIGHT AND a. OVERSIZE ITEMS. When special routing or disassembly are required to permit transportability of items directed shipped to storage, DIPEC-O will be contacted to determine maximum permissible ingress dimensions at destination. DIPEC-O will also be contacted prior to release for shipment to Defense Construction Supply Center (DCSC), Columbus, Ohio, for storage of any item which has an individual shipping piece weighing more than 40,000 lbs. Dimensions or weight data furnished to DIPEC-O will be as the IPE is prepared for shipment, i.e., including skids, placed horizontal on skids, disassembled into major components.

b. WAIVER OF SKIDDING REQUIRE-MENTS. Many items, due to construction or conformation, may be shipped safely, conveniently, and more economically without skidding. This includes heavy, durable or solid base items, and disassembled components of a comparable nature, such as presses, press frames, anvils, machine bases, and similar items. In the preparation of equipment for shipment to a using activity (not storage), the skidding requirements may be waived or reduced, provided the protection afforded will meet or exceed the minimum carrier requirements, assure safe arrival at destination and facilitate removal, handling, and placement in location by shipping and receiving activities. When it is determined to be more economical or otherwise in the best interests of the Government to ship equipment without skidding or with a lower level than that specified herein, a specific request will be made to DIPEC-O for authorization of the desired deviations.

★6. PACKING, CRATING, HANDLING AND TRANSPORTATION FUNDING AND BILLING INSTRUCTIONS. Funding responsibilities associated with IPE shipments are specified in paragraphs 40102-3 and 40102-4. Shipping instructions issued by DIPEC will contain applicable fund citations. The following are applicable to IPE shipping instructions:

### a. DSA FUNDED SHIPMENTS

- (1) Military Department activities performing PC&H will finance the costs and forward SF 1080 billing to Defense Depot Memphis, ATTN: DDMT-CAF, Memphis, Tennessee 38115.
- (2) The Contract Administration Office will forward executed copies of procurement documents obligating funds for PC&H services performed by contractor to DDMT-CAF
- (3) The document number(s) from DIPEC shipping instruction(s) must be shown on all Government Bills of Lading (GBL) and PC&H billings.

Figure 3C-2. PREPARATION AND HANDLING OF IPE FOR SHIPMENT—continuing

- (4) Transportation charges will be billed to FCUSA, Indianapolis, Indiana 46249. Forward priced copy of GBL to DDMT-CAF.
- (5) Funding limitations will be shown on each document. Documents may be grouped for simplification of contractual actions and total funding may be used for combined shipments. However, total funding will not be exceeded. If additional funds are required, contact DIPEC-SOC.

## b. MILITARY DEPARTMENT FUNDED SHIPMENTS

- (1) Air Force Shipments. On all shipments chargeable to Air Force Transportation Fund Citation, the consignor will forward a priced copy of the GBL to Commander, Air Force Logistics Command, ATTN: MCTMB, Wright-Patterson AFB, Ohio 45433. The document number from DIPEC shipping instructions will be annotated on the GBL.
- (2) Navy Shipments. On all shipments chargeable to Navy Transportation Fund Citation, the consignor will forward a priced copy of the GBL to Navy Material Transportation Office, Naval Base Building 133, Norfolk, Virginia 23511. The document number will be annotated on the GBL. When only Navy funding is used, the GBL will be sent to the Navy Re-

Cleaning, preservation, & packaging

a. User (Domestic) Military and Industrial Requirement

Type of movement to

Level C par. 20 (20.1-20.11) par. 22 (22.1-22.4) gional Finance Center, Washington, D.C. 20376, for payment.

- (3) Marine Corps Shipments. On all shipments chargeable to Marine Corps Transportation Fund Citation, the consignor will forward a priced copy of the GBL to Commanding General (Code A470), Marine Corps Supply Center, Albany, Georgia 31704. The document number will be annotated on the GBL. When only Marine Corps funding is used, the GBL will be sent to the Commanding General (Code A470), Marine Corps Supply Center, Albany, Georgia 31704, for payment.
- 7. Packing lists and marking of IPE must be in accordance with MIL-STD-107, paragraphs 5.2 and 5.8.6 and applicable parts of MIL-STD-129. Compliance with inspection requirements of MIL-STD-107, Appendix A is mandatory.
- 8. The following table contains proper levels of protection and related requirements for handling and preparation of IPE for shipment from using activities and from storage facilities. References cited in the table are to MIL-STD-107 unless otherwise indicated. Items previously prepared to a higher level of protection shall not be reworked to meet lower level requirements.

Preparation for shipment, packing and skidding

#### Level C

- (1) All items—Prepare for shipment in accordance with Appendix C.
- (2) Items, components, assemblies, which are *NOT* conducive to skidding. Select method in accordance with par. 40.6.
- (3) Items, components, assemblies, etc., conducive to skidding—par. 5.8.5. and 30.5. Application of aluminum skids shall be in compliance with MIL-HDBK-701. Wood skids used in lieu of aluminum skids shall

Figure 3C-3. PREPARATION AND HANDLING OF IPE FOR SHIPMENT—continuing

### Cleaning, preservation, Type of movement to & packaging

ype of movement to a packaying

b. User (Overseas) In- Level A dustrial Require- par. 20 (20.1-20.11) ment par. 21 (21.1-21.18) Preparation for shipment, packing and skidding

be in compliance with MIL-HDBK-701, par. 5.3-5.3.7.

For Known Conditions:

Level B.

- (1) All items—Prepare for shipment in accordance with Appendix C.
- (2) Items, components, assemblies, which are *NOT* conducive to skidding. Select method in accordance with par. 40.5.
- (3) Items, components, assemblies, conducive to skidding, par. 5.8.5. and 30.5, except that aluminum skids shall not be used. Wood skids shall be in accordance with MIL-HDBK-701.

For Severe or Unknown Conditions:

Level A.

- (4) All items—Prepare for shipment in accordance with Appendix C.
- (5) Items and/or components, assemblies, which are *NOT* conducive to skidding. Select method in accordance with par. 40.4.
- (6) Items, components, assemblies, conducive to skidding—par. 5.8.5. and 30.5, except that aluminum skids shall not be used. Fabrication of wood skids shall be in accordance with MIL-HDBK-701. Particular attention shall be given shipping covers and shrouds, par. 30.6. Consideration will be given to the use of crates in accordance with subparagraph (5) above, in lieu of skidding, giving full consideration to the specific item, and cost and protection factors involved.

User. (Overseas Military Requirement

Metalworking machinery & support equipment — level A, MIL-MX18058.

(1) Level A or B, MIL-M-18058. When level of packing is not specified, selection of level shall be determined by destination and use factors. When indeterminate or unknown factors exist, Level A shall apply.

Figure 3C-4. PREPARATION AND HANDLING OF IPE FOR SHIPMENT—continuing

Type of movement to	Cleaning, preservation, & packaging	Preparation for shipment, packing and skidding
	Other IPE—See requirements in sub- paragraph b above.	(2) Level A—Prepare in accordance with paragraph 8 b (5) above, dependent upon destination and use factors.
d. Storage—PEP (Package Plant) IPE	Level A par. 20 (20.1-20.11) par. 21 (21.1-21.18).	(1) Standby-in-place. Prepare for storage in accordance with par. 5.8.1 and 5.8.2 and Appendices C and E, unless otherwise specified in applicable documentation.
		<ul><li>(2) Storage other than standby in place.</li><li>Prepare for storage in accordance with par.</li><li>5.8.1 and 5.8.2 and Appendices C and E.</li></ul>
		Wood skidding shall be in compliance with MIL-HDBK-701. Aluminum skidding shall not be used for PEP items, unless otherwise specified in applicable documentation.
e. Maintenance or Stor- age Activity	Level C par. 20 (20.1-20.11) par. 22 (22.1-22.4).	Level C. Same as requirements in paragraph 8 a above, except that fabrication of wood skids shall be in compliance with MIL-HDBK-701.
f. On-Site Storage (DoD General Reserve — See par. 10211)	Favorable Storage Conditions: Level C par. 20 20.1- 20.11) par. 22 (22.1-22.4).	(1) Storage in-place (no physical movement):  No skidding is required.
	Unfavorable Storage Conditions or Long Term Storage: Level A par. 20	<ul><li>(2) Storage other than in-place (physical movement required):</li><li>Same requirements as in paragraph 8 e above.</li></ul>

Figure 3C-5. PREPARATION AND HANDLING OF IPE FOR SHIPMENT—continuing

(20.1-20.11) par. 21 (21.1-21.18).

# Appendix 4A FORMAT A PLANT EQUIPMENT PACKAGES FACT SHEET

1 Spannaning DaD company			
1. Sponsoring DoD component		• • • • • • • • • • • • • • • • • • • •	
2. Bureau, Command, Corps		• • • • • • • • • • • • • • • • • • • •	
4. Item to be procured		• • • • • • • • • • • • • • • • •	
5. End Item (if 4 above is component	t)		
6. Capacity versus Mobilization Req	uirement		
a. Mobilization Requirement per 1	month		
b. Capacity			
(1) Current planned capacity		• • • • • • • • • • • • • • •	
(2) Capacity of this PEP			
(b(1) and b(2)	••		
7. Number and value of Governmen	t-owned IPF	C	
		(VALUE)	
a Currently furnished (Encl 1)			
a. Cultury lumbhou (and 1)		(VALUE)	
b. Additionally required (Encl 2)			•••••
8. Has contractor agreed to retain p Government-owned and retained 9. Value of Government-furnished C 10. REMARKS: I certify that the plant equipment	orivately-owr capabilities OPE, ST&TE ont package d	ned equipment widentified above	hich is required to augment (if needed) ? YES NO(Explain)
30102 of DLAM 4215.1/AR 700-4	3/NAVSUP	PUB 5009/AFM	7 <b>8-9</b> .
Date			
Figure 4A-1. FORM	MAT A PLANT	F EQUIPMENT PAC	KAGES FACT SHEET

I certify that the Plant Equipment Package(s) listed below has been reviewed and meets all criteria for retention contained in paragraph 30102 of DLAM 4215.1/AR 700-43/NAVSUPPUB 5009/AFM 78-9.

ASSISTANT SECRETARY (ARMY), (NAVY), (AIR FORCE); AGENCY DIRECTOR; or designee

Figure 4A-2. FORMAT A PLANT EQUIPMENT PACKAGES FACT SHEET—continuing

Plant Equipment Pack Number was reviewed as of and it was determined that it no longer meets the criteria for retention. Action has been initiated to declare the industrial plant equipment in this package to the Defense Industrial Plant Equipment Center.

Assistant Secretary (I&L) — (Army), (Navy), (Air Force), or Director, Defense Supply Agency

or designee

Figure 4A-3. FORMAT A PLANT EQUIPMENT PACKAGES FACT SHEET—continuing

Agreement made this 18th day of August 1967 by and between the United States Coast Guard (USCG) and the Defense Supply Agency (DSA) acting for the Department of Defense (DoD).

Authority to execute this Agreement on behalf of the Department of Defense is vested in the Defense Supply Agency pursuant to Deputy Assistant Secretary of Defense (Material) letter to Director, Defense Supply Agency, dated 13 June 1967.

Authority to execute this Agreement on behalf of the U.S. Coast Guard is vested in the Chief of Staff, USCG, or his designated representative.

#### I. Purpose

This Agreement establishes policies, procedures, and conditions by which USCG may obtain on a loan basis industrial plant equipment (IPE) from the General Reserve under the management control of the Defense Industrial Plant Equipment Center (DIPEC).

#### II. Provisions

- A. General Reserve items will not be loaned when being held to satisfy a current requisition, specific requirement, or the item is considered to be in short supply by DIPEC.
- B. DSA will permit USCG representatives to examine DIPEC General Reserve inventory records.

- C. USCG will have a thirty-day period in which to accept or reject IPE placed on hold.
- D. USCG will arrange for accountability, maintenance, protection, preservation, repair and parts replacement for DoD-owned IPE during the period of the loan. The loaned equipment will be returned to DSA in the same condition as when loaned, normal wear and tear excepted.
- E. USCG agrees to bear all costs of dismantling (where applicable), packing, crating, handling and transportation of DoD-owned IPE from its present location to the point of final use by USCG, any stop-over enroute included, and return to DoD. Appropriations chargeable for packing, crating, handling and transportation will be indicated on requests submitted to DIPEC. Equipment to be shipped will be processed in accordance with specifications and standards provided by DIPEC.
- F. USCG agrees to bear all costs for repair, rebuilding, modification, analytical inspection, operational testing or attachments as may be required by USCG. Such services will be performed at Government facilities, provided personnel and facilities are available, or by commercial contractors as determined by mutual agreement between DIPEC and USCG. Work will not be initiated until USCG has been furnished a cost estimate and authorizes expenditure of the required funds. Any obligation of funds in excess of the estimated cost will require USCG approval. SF 1080 billings for

Figure 5A-1. AGREEMENT BETWEEN UNITED STATES COAST GUARD AND DEFENSE SUPPLY AGENCY

services performed will be made by DIPEC to the paying offices designated by USCG.

- G. All requests for loans will be submitted to the Defense Industrial Plant Equipment Center, Memphis, Tennessee, 38114, by the appropriate element of the USCG and will cite the USCG funds chargeable for all costs referenced in paragraphs E and F above. Each loan will be executed by DIPEC and an appropriate representative of the USCG as a supplement to this Agreement.
- H. USCG will sponsor all its contractors requesting the loan of IPE from DSA.
- I. IPE may be loaned for a five year period with an option to renew for a similar or lesser period if warranted by USCG and approved by DIPEC.
- J. USCG will advise DIPEC immediately of any item proposed for relocation and will report promptly to DIPEC any item of DoDowned IPE which is not in use by or for USCG.

UNITED STATES COAST GUARD

/8/ W.R. RIEDEL

W.R. RIEDEL Captain, U.S. Coast Guard Deputy Chief of Staff

8 Aug. 1967

(DATE)

K. USCG agrees to return all aluminum skids as specified by DIPEC.

- L. Changes to and/or termination of this Agreement:
- 1. In the event of full or partial mobilization, critical national emergency, or other urgent DoD needs, as determined by the Secretary of Defense, all IPE on loan to USCG will be returned to DSA upon notice to USCG of such action by DSA.
- 2. This Agreement may be terminated by mutual agreement between the signatories of this Agreement or their duly appointed successors, or their designees empowered to act in such capacity. Upon termination of this Agreement USCG will return DoD-owned IPE within thirty days of the date of the termination unless specified otherwise by DIPEC.

This interagency agreement is effective immediately after approval by below listed parties.

DEFENSE SUPPLY AGENCY

/s/ J.A. BROOKS

JOHN A. BROOKS III
Brig General, USAF
Executive Director
Technical & Logistics Services

18 Aug. 1967

(DATE)

Figure 5A-2. AGREEMENT BETWEEN UNITED STATES COAST GUARD AND DEFENSE SUPPLY AGENCY—

#### Appendix 6A

### Preparation of DD Form 1106, Industrial Plant Equipment Replacement Analysis Worksheet

This appendix is used to provide a convenient and practical means of comparing the operating and capital cost elements of using existing IPE, listed in appendix 6B, versus modern replacement. The DD Form 1106 will be prepared by typewriter in the number of copies required.

- (1) ANALYSIS NO.: A number will be assigned to each "Industrial Plant Equipment Replacement Analysis Work Sheet" and the analysis sheet will be numbered consecutively for each Government—owned facility or contractor operated facility. Each Military Department will develop a prefix that will be assigned each location.
  - (2) DATE: Record the month, day, and year the analysis work sheet is completed.
  - (3) (Block 1).ACTIVITY: The name of military or contractor facility where "present equipment" is being used.
  - (4) (Block 2). LOCATION: The street, city and state where "present equipment" is being used.
- (5) (Block 3). SHOP: The shop number, cost center or organizational segment, as applicable, where "present equipment" is being used.
  - (6) (Block 4). BUILDING NO.: The building number (if applicable) where "present equipment" is located.
- (7) (Block 5). PRESENT EQUIPMENT: (Note: If a group of machine tools are involved, generally describe and refer to supporting work sheets.)
- (a) DESCRIPTION: Copy verbatim the noun description given in the appropriate Industrial Plant Equipment Handbook (Appendix 1B or ASPR 13–312).
  - (b) MANUFACTURER: The name of the original builder of the "present equipment".
- (c) MODEL NO.: The original manufacturer's model designation if one has been assigned. If equipment is special designate "SPEC". If equipment purpose designate "SGL".
- (d) PLANT EQUIPMENT CODE: The twelve digit numerical code assigned in the most recent Industrial Plant Equipment Handbook (Appendix 1B or ASPR 13–312).
  - (e) DEPARTMENTAL NO.: Military Department identification number.
  - (f) YEAR BUILT: The year "present equipment" was originally built.
- (g) TOTAL ACQUISITION COST: Original acquisition cost of "present equipment" plus shipping, installation and any additional attachments, accessories, etc., which would be with the equipment at the time of disposal.
  - (h) QUANTITY: The number of "present equipment" items involved in the analysis.
  - (8) (Block 6). PROPOSED EQUIPMENT
- (a) DESCRIPTION: Copy verbatim the noun description given in Industrial Plant Equipment Handbook (Appendix 1B or ASPR 13–312). If Handbook does not contain description of the "proposed equipment" provide a complete description.
  - (b) MANUFACTURER: The name of the builder of the "proposed equipment".
- (c) MODEL NO.: The model number assigned by manufacturer of proposed equipment, if available. If the equipment is special designate "SPEC". If single purpose, designate "SGL".
- (d) PLANT EQUIPMENT CODE: The twelve-digit numerical code assigned in the Industrial Plant Equipment Handbook (Appendix 1B or ASPR 13-312) if available.
  - (e) QUANTITY: The number of "proposed equipment" items involved in the analysis.
- (f) PRODUCTIVITY INCREASE RATIO: The increased productive capacity ratio, which will reflect the comparison of the rate of production of the "proposed equipment" to that of the "present equipment". This figure should be developed through engineering studies and estimated production potential from equipment manufacturers.
- (9) (Block 7). OPERATING COST ANALYSIS FOR EQUIVALENT OUTPUT (Next Year): (The following factors shall be considered and answers applied to columns "a" and "b" where applicable.)
- (a) MACHINE LOAD (Hours Next Year): The number of hours, based on the known and anticipated work load, that the "present equipment" would be used during the next twelve months following the date of the analysis for certain production output (Column a). The number of hours the "proposed equipment" would be used during the next twelve months following the d4te of the analysis for equivalent production output (Column b). These hours will be in direct proportion to the productivity increase ration (6f) of the "proposed equipment" to the "present equipment", i.e., if the "present equipment" will be used for 1800 hours for certain production output during the next twelve months and the productivity increase ration (6f) is 3:1, then the machine load for the "proposed equipment" will be 1800 (3 = 600 hours.
- (b) DIRECT LABOR: The wages of the operator (including helper, if applicable) for the number of hours required to operate the machine. If the operator operates more than one machine direct labor hours should be allocated accordingly.
- (c) INDIRECT LABOR: Indirect labor should depict only those operating costs, which vary with the replacement of the present machine. Fixed expense, such as ground keeping, security, janitorial services, safety, etc., which will not be affected by replacement will not be included as a cost in the analysis.
  - (d) FRINGE BENEFITS: The costs which include, but need not be limited to annual, sick, holiday and military

leave, allowance for protective clothing, etc. This is usually expressed as a percentage of direct labor. Approximately 25 percent would be a figure that would represent the minimum applicable to Government–operated installations.

- (e) MAINTENANCE: The estimated costs of ordinary operational maintenance and repair for the next twelve-month period. It does not include costs for major overhaul or rebuilding. When major overhaul or rebuilding of "present equipment" is an alternative, this will be the subject of a complete analysis comparing the "present equipment" as is against rebuilding it, and further comparing the results of this analysis with an analysis of the "present equipment" against procuring new equipment.
- (f) POWER: The cost of power consumed. This may be obtained by multiplying the factor of cost per power unit (e.g. kilowatt–hours, cubic foot of gas, etc.) by the number of hours in (7a) multiplied by the consumption of the equipment.
- (g) SCRAP/REWORK: The costs of material and labor (including direct, indirect and fringe benefits) for parts scrapped or in need of rework when the cause of the spoilage is due to the fault of the machine. Do not include these costs of spoilage if due to the fault of the operator.
- (h) TOOLING: If there are any significant differences between the "present" and "proposed equipment" in the costs for additional jigs and fixtures, cutting tools, attachments and other accessories which are not considered a part of the basic machine, these differences should be taken into consideration. Do not include attachments and fixtures, which are considered a permanent part of the machine and are included in capital costs. Consumable items such as cutting tools, abrasive wheels, etc., which are normally required on both "present" and "proposed equipment," shall not be considered unless the difference in quantities or value are significant.
- (i) SAVINGS/OTHER OPERATIONS, ASSEMBLY: The dollar savings resulting from elimination or reduction of subsequent operations, reduction in inspection time, less assembly time, etc. For example, if due to better accuracy of the proposed equipment, less time is spent in the assembly of parts, these savings should be reflected as a cost against the "present equipment".
- (j) OTHER COSTS: Any other costs or savings which would contribute to the completeness of the analysis. For example, savings in floor space should be reflected if this is a critical item. Also include costs in connection with numerical control, programming, tape preparation etc. under this heading.
  - (k) TOTAL OPERATING COSTS: The sum of figures entered in "7b" through "7j".
- (1) NET OPERATING COSTS FAVORING "PROPOSED EQUIPMENT": The result of subtracting the total in line "7(k)b" from "7(k)a".
  - (10) (Block 8). CAPITAL COST ANALYSIS OF "PROPOSED EQUIPMENT" (Next Year)
- (a) ACQUISITION COST: The acquisition cost of the "proposed equipment" including all attachments, accessories and related items.
- (b) INSTALLATION, TRANSPORTATION AND MISCELLANEOUS COSTS: The cost for transportation, installation and any miscellaneous cost of preparing the "proposed equipment" for operation.
  - (c) TOTAL INSTALLED COST: The result of adding "8a" and "8b".
- (d) CURRENT DISPOSAL VALUE OF "PRESENT EQUIPMENT": The value of the "present equipment" if offered for sale now. It is intended that this figure will reflect the greatest amount of money which can be realized for the disposal of the "present equipment".
  - (e) NET REQUIRED INVESTMENT: This figure is obtained by subtracting "8d" from "4,8c".
- (f) SERVICE LIFE: The service life of the "proposed equipment" for purposes of these analyses will be obtained from appendix 6B. There will be no deviation from the service lives indicated in appendix 6B.
- (g) CHART PERCENT: This percentage will be obtained from appendix 6C, by selecting the percent indicated opposite the service life of "8f" above. For example, 18 years service life equals 12.7 percent.
- (h) TOTAL CAPITAL COST: This figure is obtained by multiplying the net required investment (8e) by the Chart percent (8g).
- (11) (Block 9). NEXT YEARS SAVINGS FROM REPLACEMENT: This figure is obtained by subtracting the total capital cost (8h) from the net operating cost favoring the "proposed equipment" (71).

NOTE: The Service Life shown in these tables is solely for use in connection with completing the DD Forms 1106. It is an arbitrary figure and takes into consideration an average amount of idle time customarily encountered for DoD-owned equipment. Its use is not valid in connection with actual physical or technological life expectancies of the equipment. Its sole purpose is so that all DoD elements will use the same Service Life for similar pieces of equipment when considering replacement.

FSC 3220 = WOOD WORKING EQUIPMENT	ROUTING MACHINE
BORING MACHINE	Pantograph25
Horizontal24	Sliding Arm
Vertical	Stationary Arm
BOX, WOODSTEAMING	SANDER
CARVING MACHINE 22	Disk and Belt
CIRCULAR SAW AND JOINTER 25	Disk and Spindle20
CLAMP, SASH AND DOOR25	Double Disk
DOVETAILING MACHINE	Drum, Horizontal, Power Feed 24
IVANET TEDSTING MACHINE	Single Belt, Horiz., Edge Type Oscillating . 18
Automatic Feed	Single Belt, Horiz., Manual Stroke 18
Hand Feed23	Single Belt, Horiz., and Vertical, Variety
GLUE SPREADER, POWER FEED 16	Type
GUNSTOCK MACHINE23	Single Belt, Vertical, Flat Surface Type 18
JOINTER	Single Disk
Glue and Edge Molder	Single Spindle, Oscillating
Inclined Bed Type22	SAW, BEND
Straight Bed Type23	Inclinable23
LATHE	Inclinable, Automatic Angling
Automatic Shaping25	Jig
Bedless Type	
Fixed Gap Bed22	Resaw, Vertical, Single Blade Type
Sliding Gap Bed 23	
Standard Bed Type23	Rip, Single Blade Type
LOCK CORNER BOX MACHINE, SINGLE END	Scroll and Resaw
CUTTER	Standard Upright Type28 SAW, CIRCULAR
MATCHER, TWELVE FEED ROLLS25 MILLING MACHINE	
Horizontal25	Cutoff, Double End Type
Vertical	Cutoff, Overhead Swing Type
MOLDER	Cutoff, Radial Type
Hollow Chisel Type, Horiz., Single	Cutoff, Underswing Type
Spindle	Miter, Double End, Plain and Compound Mitering20
Hollow Chisel Type, Vertical, Single	Non-Tilt
Spindle 24	Panel Cutting, Hand Feed
MORTISER	Radial, Overarm Type
Chain Saw Type, Vertical,	Radial, Overarm Type, Trailer Mounted 17
Single Spindle24	Rip, Multiple Blade, Power Feed 20
Hollow Chisel Type, Horiz., Single	Rip, Single Blade, Hand Feed
Spindle 24	Rip, Single Blade, Power Feed
Hollow Chisel Type, Vertical, Single	Tilt Arbor, Double Arbor Type
Spindle 24	Tilt Arbor, Single Arbor Type
PRESS, LAMINATING 18	Straight Line
· · · · · · · · · · · · · · · · · · ·	

Figure 6B-1. SERVICE LIFE TABLES

SCADEING MACHINE	
SCARFING MACHINE         23           SHAPER         24	Numerical Controlled, Traveling Table,
SURFACER	Shuttle Pallets
Double Cylinder Type	
Jointer	Multiple Station, Center Column
Matcher	
Matcher and Molder	Multiple Station, Palletized Transfer 20
Single Cylinder Type	Multiple Station, Rotary Index Table 20
TENONER	Multiple Station, Shuttle
Double End Type	Multiple Station, Trunnion
Single End Type	Multiple Station, Turret
TIMBER SIZER	Single Station, Angular20
WOOD BENDING MACHINE	Single Station, Horizontal
WOODWORKER, UNIVERSAL	Single Station, Horizontal/Nertical 20
WOODWORKER, CHIVERSAL	Single Station, Vertical
FSC 3405 — SAWS AND FILING MACHINES	Single Station, Vertical
1 50 0400 — SAWS AND FIDING MACHINES	Single Station, vertical/Angular 20
CUT-OFF MACHINES	Horizontal/Vertical/Angular20
Band	Single Station, Vertical, Numerical
Circular	Controlled
Hack	Controlled
Lathe	FSC 3410 — ELECTRICAL AND
Rotary, Tool Head	ULTRASONIC EROSION MACHINES
DRESSING MACHINE, SAW BLADE,	ODIRASONIC EROSION MACHINES
CIRCULAR, FRICTION20	ELECTRICAL DISCHARGE MACHINE
FILING MACHINES	Quill, Bed Type12
Band, Contour	Quill, Knee Type
Circular20	Ram, Bed Type
Hack	Ram, Four Column Type
Ram20	Ram, Rail Type
SAWING AND FILING MACHINES	Reciprocating Table
Band	Tool and Cutter Sharpening
Ram20	ELECTRICAL DISINTEGRATING
SAW FILING AND SETTING MACHINE 20	MACHINE
SAW, STRETCHING MACHINE, BAND20	Portable
SAWING MACHINE, BAND CONTOUR 25	ELECTROCHEMICAL MACHINE
SAW SETTING MACHINES	Cavity, Quill
Band20	Cavity, Ram
Circular	Reciprocating
Hack 20	Rotary 10
	Single Point
FSC 3408 — MACHINING CENTERS AND WAY	Tool and Cutter
TYPE MACHINES	ULTRASONIC EROSION MACHINE
	Bed
MACHINING CENTERS	Bench
Numerical Controlled, Manual Tool	Knee
Changer, Traveling Table	Rotary14
Numerical Controlled, Traveling Column 10	
Numerical Controlled, Traveling, Column,	FSC 8411 — BORING MACHINES
Shuttle Pallets	
Numerical Controlled, Traveling Table 10	BORING AND DRILLING MACHINE
Numerical Controlled, Traveling Table,	Horizontal
Rotary Transfer Table10	BORING AND FACING MACHINE20

Figure 6B-2. SERVICE LIFE TABLES—continuing

BORING AND MILLING MACHINE 22	Internal
BORING AND TURNING MACHINE,	MECHANICAL DRIVE
PRECISION VERTICAL, NON-ROTATING	Internal
BORING BAR	Surface
Ram Head	PNEUMATIC DRIVE
BORING AND TURNING MACHINE	Internal and Surface
(VERTICAL LATHE)	Internal 17
Ram and Side Head22	Surface
Ram and Turret Head22	BROACHING MACHINE, SPECIAL DESIGN,
Ram Head	HYDRAULIC
Ram, Turret and Side Head22	Circular Cutter Type20
Turret and Side Head22	BROACHING MACHINE, VERTICAL, DUAL
Turret Head	RAM HYDRAULIC DRIVE
BORING MACHINE, CYLINDER, ANGULAR 25	Internal
BORING MACHINE, CYLINDER, VERTICAL	Internal and Surface
Fixed Head 19	Surface
Rail Type 18	MECHANICAL DRIVE
Vertical Sliding Head	Surface
BORING MACHINE, JIG	BROACHING MACHINE, VERTICAL, SINGLE
Horizontal	RAM HYDRAULIC DRIVE
Vertical	Internal and Surface
BORING MACHINE, PRECISION,	Internal
HORIZONTAL	Surface
Bridge Type, Double End	MECHANICAL DRIVE
Bridge Type, Single End	Internal and Surface
BORING MACHINE, PRECISION, VERTICAL	Surface
Boring Spindle Type	PNEUMATIC
BORING-DRILLING-MILLING MACHINE,	Surface17
HORIZ.,	
Floor Type	FSC 3413 — DRILLING AND TAPPING
Planer Type	MACHINES
Rotating Table Type	
Table Type	BACKSPOTFACING MACHINE18
BORING-DRILLING-MILLING MACHINE,	DRILLING AND ROUTING MACHINE,
VERTICAL	COMB
Table Type	DRILLING AND TAPPING MACHINE, COMB.
BORING-TURNING-GRINDING MACHINE . 20	GANG UNITS
BORING FACING, AND TURNING MACHINE,	Bench 20
VERT.	Floor 20
Traveling Column	DRILLING AND TAPPING MACHINE, COMB.
	MULTIPLE SPINDLE, COMMON POWER . 20
FSC 8412 — BROACHING MACHINE	DRILLING MACHINE, BED AND BRIDGE,
	SINGLE SPINDLE22
Broaching Machine, angular,	DRILLING MACHINE, DEEP HOLE 17
SINGLE RAM 18	DRILLING MACHINE, HEAD MOUNTED,
BROACHING MACHINE, HORIZONTAL	SPECIAL PURPOSE
Continuous, Mechanical	DRILLING MACHINE, MULTIPLE SPINDLE,
BROACHING MACHINE, HORIZ., DUAL RAM	COMMON POWER UNIT20
HYDRAULIC DRIVE	DRILLING MACHINE, RADIAL
Internal and Surface	Bench
Broaching Machine, Horiz., Single	Floor
RAM HYDRAULIC DRIVE	Traversing Column
Internal and Surface	DRILLING MACHINE, RADIAL.

Figure 6B-3. SERVICE LIFE TABLES—continuing

TRAVERSING COLUMN	GEAR GRINDING MACHINE, FORM WHEEL
Bed Type	Spur 19
Carriage Type	Spur and Helical 18
Track Type	Spur and Spline
DRILLING MACHINE, ROTATING COLUMN	GEAR GRINDING MACHINE, GENERATING
Bed Type	TYPE
Floor Type	Hypoid 19
DRILLING MACHINE, TURRET HEAD	Spiral Bevel
Bench 16	Spur and Helical
Floor 18	GEAR GRINDING MACHINE,
DRILLING MACHINE, UPRIGHT, BOX	NON-GENERATING
COLUMN SINGLE SPINDLE	Spur and Helical
Bench	GEAR HOBBING MACHINE
Floor	Horizontal
DRILLING MACHINE, UPRIGHT, GANG	Rotary Type
Drills independent power units	<b>Spline</b>
Bench	Vertical
Floor	GEAR HONING MACHINE
DRILLING MACHINE, UPRIGHT, ROUND	Spur and Helical20
COLUMN, SINGLE SPINDLE	GEAR LAPPING MACHINE
Bench	Helical
Floor 24	Hypoid
DRILLING MACHINE, UPRIGHT, SMALL	Spur and Helical
HOLE, PRECISION	GEAR PLANING MACHINE
Bench 20	Spur and Internal
DRILLING MACHINE, WALL-POST TYPE	GEAR SHAPER
Radial25	Spur
TAPPING MACHINE, GANG UNITS	Spur and Helical
Bench	Spur and Rack
Floor	GEAR SHAVING MACHINE, ROTARY TYPE
TAPPING MACHINE, MULTIPLE SPINDLE 20	Spur and Helical 18
TAPPING MACHINE, SINGLE SPINDLE	BOO MALE OF INDING MACHINES
Bench20	FSC 3415 — GRINDING MACHINES
Floor	CRINDING WACUINE BROACH
FSC 3414 — GEAR CUTTING AND FINISHING	GRINDING MACHINE, BROACH Cylindrical
MACHINES	Flat
MAUNINES	Flat and Cylindrical, Comb
GEAR CHAMFERING AND DEBURRING	GRINDING MACHINE, CONTOUR
	Cam, Center Type
MACHINE	Template Type
Flycutter Type	GRINDING MACHINE, CYLINDRICAL,
Spur and Helical20	EXTERNAL CENTER TYPE
Spur, Helical and Spiral21	Plain
GEAR CUTTING MACHINE, FORM MILLING	Roll
TYPE	Universal
Spur and Rough Bevel	Angular Bed
Spur	Horisontal Bed
Straight Bevel	CHUCKING TYPE
GEAR GENERATING MACHINE	Plain
Hypoid20	Universal
Spiral Bevel	GRINDING MACHINE, CYLINDRICAL,
Straight Bevel	INTERNAL
MAN AND THE TAXABLE STATE OF THE STATE OF TH	

Figure 6B-4. SERVICE LIFE TABLES—continuing

Center Hole19	GRINDING MACHINE, SINGLE POINT TOOL
Centerless Type 18	BENCH
CHUCKING TYPE	Double End 17
Plain	Single End
Universal23	FLOOR
Planetary25	Double End
GRINDING MACHINE, CYLINDRICAL,	Single End
VERTICAL SINGLE SPINDLE	GRINDING MACHINE, SNAGGING
Tracer Control	Double End
UNIVERSAL	Single End
Adjustable Rail20	GRINDING MACHINE, SURFACE
Dual Spindle	RECIPROCATING
Single Spindle	Horizontal Spindle20
GRINDING MACHINE, DISK HORIZONTAL	Vertical Spindle
Double Spindle20	ROTARY
Single Spindle	Horizontal Spindle20
Double Spindle	Vertical Spindle
Inverted Spindle	GRINDING MACHINE, TAP BENCH
Single Spindle	Chamfer
GRINDING MACHINE, DRILL AND TAP	Universal
Combination	FLOOR
GRINDING MACHINE, DRILL WEB	Chamfer
THINNER BENCH	Flute
Double End	GRINDING MACHINE, THREAD CHASER 22
Single End	GRINDING MACHINE, THREAD EXTERNAL
FLOOR	Center Type20
Double End	Centerless
Single End	Chucking
GRINDING MACHINE, PACE MILL 18	INTERNAL
GRINDING MACHINE, FORM, BLADE AND	Chucking
BUCKET ROOT	GRINDING MACHINE, TOOL AND CUTTER
GRINDING MACHINE, GEAR CUTTER,	Contour 18
BEVEL	Engraving18
Spiral Type	Flute and Radius
Straight Type	Plain 20
GRINDING MACHINE, HOB, CUTTER AND	Radial Relief
REAMER COMBINATION	Universal
GRINDING MACHINE, JIG, VERTICAL 17	GRINDING MACHINE, UTILITY BENCH
GRINDING MACHINE, KNIFE AND SHEAR 20	Double End
GRINDING MACHINE, PROFILE	Single End
Drawing Type	FLOOR
Free Hand Type	Double End
Template Type	Single End
Turbine Type	·
	FSC 3416 — LATHES
Oscillating	TAMUE DAD HODER ATTENDADOR
GRINDING MACHINE, SAW BLADE	LATHE, BAR HORIZ., AUTOMATIC (SCREW
Band	MACHINE)
Circular17	Multiple Spindles
Combination, Circular, Band and Hack 17	Single Spindles
	Admerical Controlled

Figure 6B-5. SERVICE LIFE TABLES—continuing

LATHE, BENCH	60" Swing Over Bed and Over24
Automatic	LATHE, HOLLOW SPINDLE, SINGLE END
Jewelers	18" to 25" Swing Over Bed
Plain	25" to 48" Swing Over Bed
Screw Cutting, Under 8" Swing 24	40" to 60" Swing Over Bed
Screw Cutting, 8" Swing & Over 23	60" Swing and Over
Turret	LATHE, MANUFACTURING AND
LATHE, BORING & TURNING, DOUBLE END	PRODUCTION
Automatic	Automatic
Manual	LATHE, TOOL ROOM
LATHE, BORING & TURNING, SINGLE END	Under 16" Swing
Automatic	16" to 24" Swing
Manual	24" to 36" Swing
LATHE, CHUCKING, BETWEEN CENTERS,	36" Swing and Over
AUTOMATIC	LATHE, TRACER
Under 4" Swing Over Front Slide 17	Automatic
	Manual
4" to 9" Swing Over Front Slide	Semi-Automatic
9" to 12" Swing Over Front Slide	
12" & Over Swing Over Front Slide 18	LATHE, TURRET, INCLINED BED
LATHE, CHUCKING, HORIZ., MULTIPLE	Manual
SPINDLE, AUTOMATIC	Numerical Controlled
LATHE, CHUCKING, HORIZ., SINGLE	LATHE, TURRET RAM PLAIN
SPINDLE	Under One Inch Bar Capacity 16
Automatic	One Inch Bar Capacity and Over20
Manual10	LATHE, TURRET RAM UNIVERSAL
LATHE, ENGINE, MANUAL	Automatic
Under 12" Swing	Manual 18
12" to 14" Swing	Numerical Controlled10
14" to 16" Swing	LATHE, TURRET, SADDLE, CROSS SLIDING
16" to 18" Swing	TURRET
18" to 20" Swing	Manual
20" to 25" Swing	Numerical Controlled
25" Swing and Over 19	LATHE, TURRET, SADDLE, FIXED CENTER,
LATHE, ENGINE, NUMERICAL	MANUAL
CONTROLLED10	Under 21/2" Bar Capacity
LATHE, GAP, SLIDING BED	21/2" to 41/2" Bar Capacity
Under 40" Swing Thru Gap	41/2" to 6" Bar Capacity
40" to 50" Swing Thru Gap	6" Bar Capacity and Over
50" to 60" Swing Thru Gap	LATHE, TURRET, SADDLE, FIXED CENTER,
60" to 100" Swing Thru Gap	NUMERICAL CONTROLLED10
100" Swing Thru Gap and Over	
LATHE, GAP, SOLID BEN	FSC 3417 - MILLING MACHINES
Under 24" Swing Thru Gap	100011
24" to 36" Swing Thru Gap	ENGRAVING MACHINE, PANTOGRAPH,
	DIMENSIONAL24
36" to 48" Swing Thru Gap	MILLING MACHINE, AIRFOIL, AUTOMATIC
48" Swing Thru Gap and Over	TRACER CONTROLLED, HORIZ 18
LATHE, HOLLOW SPINDLE, CENTER DRIVE	MILLING MACHINE, BED TYPE
24" to 30" Swing Over Bed	Comb., Horiz., and Vertical 20
30" to 40" Swing Over Bed	Horizontal24
40" to 48" Swing Over Bed	
48" Swing and Over 24	Rotary Table
LATHE, HOLLOW SPINDLE, GAP BED	Vertical24
40" to 50" Swing Over Bed	MILLING MACHINE, BENCH TYPE
50" to 60" Swing Over Bed	Bed22

Figure 6B-6. SERVICE LIFE TABLES—continuing

Knee	SHAPER
MILLING MACHINE, BRIDGE TYPE	Draw Cut
Vertical Feeding Head	Horizontal
MILLING MACHINE, CAM TYPE	Vertical
	vertical
Horizontal	
MILLING MACHINE, KNEE TYPE	FSC 8419 — MISCELLANEOUS MACHINE
Comb., Horiz., and Vertical 16	TOOLS
Horizontal	
Vertical 19	BUFFING AND POLISHING MACHINE,
MILLING MACHINE, PLANER TYPE	FLOOR MOUNTED
Double Housing	BUFFING MACHINE, ROTARY
Open Side	Buff Type
MILLING MACHINE, PROFILING	CHAMBERING MACHINE, HORIZONTAL
Bed Type	Turret Type
Bridge Type	CHAMFERING MACHINE
Knee Type	
	Breech Thread Type
Planer Type	Cutter Type 18
Rotary Table	Roll Type
Skin	COMBINATION BORING AND HONING
Spar16	MACHINE
Traveling Column	COMBINATION BUFFING & GRINDING
MILLING MACHINE, ROUTER	
Radial Arm	COUNTERSINKING MACHINE
Stationary Arm	Bridge Type
MILLING MACHINE, SLOT 18	C-Frame Type
MILLING MACHINE, THREAD	DEBURRING MACHINE
Horizontal	Roll Type
Vertical	
	Rotary Brush Type
MILLING MACHINE, TRAVELING GANTRY	DRILL AND CENTERING MACHINE 17
Horizontal	END FINISHING MACHINE, TUBE AND
Vertical	ROD
MILLING MACHINE, TRAVELING HOUSING	FINISHING MACHINE
Horizontal	Abrasive Belt
MILLING MACHINE, TRAVELING SADDLE,	Abrasive Belt and Disk
RAM TYPE, SPECIAL DESIGN, TRACER	Ball
CONTROLLED	Date
	Rotary Turret
Horizontal	Wire Die
Vertical18	GRINDING MACHINE, SWING, ABRASIVE
SEMI-AUTOMATIC OPERATED	BELT 18
Horizontal	HONING MACHINE
MILLING MACHINE, TURBINE BLADE	Angular
Fixed Bed	Universal
Hydraulic Tracer	Horizontal
Court Automatic O	Mandrel Type
Semi-Automatic Operated	Superfinishing
(ALL NUMERICAL CONTROLLED MILLING	Vertical22
MACHINES = 10 YEAR SERVICE LIFE)	KEYSEATING MACHINE
	LAPPING MACHINE
FSC 3418 — PLANERS AND SHAPERS	
DIMEN DIMEN	Center
PLANER	Cylindrical Lap
	Flat Lap 19
Double Housing	Gage
Open Side	Roller 19
Plate 25	Shaft
Figure 6R-7 SERVICE LI	FF_TABLES—continuing

MILLING AND CENTER DRILLING       MACHINE       21         NIPPLE THREADING MACHINE       22         PIVOT POLISHING MACHINE       25         Bench Type       23         PLATE AND SHEET FINISHING MACHINE       22         Abrasive Belt       22         Brush Type       20         PROFILE FINISHING, ABRASIVE BELT       22         REAMING MACHINE, DEEP HOLE       21         RIFLING MACHINE, GUN BARREL       21         SHAVING MACHINE       22         SPEED LATHE       17         Solid Spindle Type       17         THREADING MACHINE       22         Pipe       22         Pipe and Bolt       22         Pipe and Bolt       22         Single Point Lathe Type       17         FSC-3422 — ROLLING MILLS AND DRAWING MACHINES       15         COMBINATION ROLLING MILL & WIRE MILL Cold Roll       15         Hot and Cold Roll       15         DESCALING MACHINE, BILLET       15         PEELING MACHINE, BILLET       15	FLAME HARDENING MACHINE         16           Conveyor Type         16           Gear Tooth         16           Horizontal Chucking Type         16           Turn Table Type         16           Vertical Chucking Type         16           FORGE         Blacksmith         20           Slot Type         20           FURNACE, HEAT TREATING         18           Bell Type         18           Box Type         18           Car Type         18           Continuous, Catenary Type         18           Continuous, Conveyor Type         16           Continuous, Pusher Type         16           Continuous, Roller Hearth Type         16           Continuous, Rotary Hearth Type         16           Continuous, Tower Type         20           Continuous, Walking Beam Type         16           Elevator Type         20           Traveling Chamber         14           GENERATOR, CONTROLLED         17           HEATER, HEAT TREATING, INDUCTION
PIPE AND TUBE MILL	Motor Generator Type
ROLLING MILL	7000.000
Bar	FSC 3426 — METAL FINISHING EQUIPMENT
Plate	ANODIZING MACHINE
Rod	CROMATE COATING MACHINE
Sheet	ELECTROLYTIC POLISHING UNIT 15
Slab	GALVANIZING MACHINE 14
Strip	LUBRICATING MACHINE
Wire Flattening	PHOSPHATE COATING MACHINE14
STRAIGHTENING AND CONTOUR	PICKLING AND LUBRICATING MACHINE . 15
CORRECTION MACHINE	PICKLING MACHINE
Roll Type	PLATING MACHINE14
STRIP COILING MACHINE	TANK, METAL FINISHING
STRIP UNCOLLING MACHINE	HEATED
TUBE DRAWING MACHINE	Lined
WIRE COILING MACHINE	Unlined 15
WIRE DRAWING MACHINE 15	UNHEATED
FSC 3424 — METAL HEAT TREATING EQUIPMENT	Lined
CONTROL STATION, INDUCTION HEATING	Automatic
MOTOR GENERATOR	Special Design, Tank Type
	The Table of the T

FSC 3431 — WELDING EQUIPMENT ARC	BRAZING MACHINE
POWER SUPPLY	Resistance, Butt Type 12
Rectifier	SOLDERING EQUIPMENT
Transformer14	Resistance, Portable
POWER UNIT, STUD WELDING	WELDING EQUIPMENT, RESISTANCE.
Battery Type 5	PORTABLE CABINET TYPE
Generator Type	Direct Energy 7
Rectifier Type	Electro Chemical Energy 7
WELDING EQUIPMENT AND POWER	Stored Energy 7
SUPPLY, SEMI-AUTOMATIC	GUNTYPE
Consumable Electrode	Air Operated
Non-Consumable Electrode	Hand Operated
WELDING EQUIPMENT, PLASMA	Hydraulically Operated
Torch Type	WELDING MACHINE, RESISTANCE
WELDING EQUIPMENT, SEMI-AUTOMATIC	Band, Saw Blade, Butt Type
Consumable Electrode	Flash, Butt Type
Non-Consumable Electrode	Projection, Direct Energy 7
WELDING HEAD, AUTOMATIC OPERATED	Seam
Consumable Electrode	Spot
WELDING MACHINE, ARC, AUTOMATIC	Upset, Butt Type
Portable Pipe/Tube Weld Type	
Special Purpose	FSC 3433 — GAS WELDING, HEAT CUTTING,
WELDING MACHINE, GENERATOR TYPE	AND METALLIZING EQUIPMENT
AC ARC	BRAZING MACHINE
Diesel Engine Driven	
Electric Motor Driven	Gas 6 CUTTING EQUIPMENT
Gasoline Engine Driven	Laser10
AC-DC, ARC	Plasma, Hand Held
Diesel Engine Driven	CUTTING MACHINE
Electric Motor Driven	ELECTRIC ARC
Gasoline Engine Driven	Generator Type17
DC, ARC	Rectifier Type
Diesel Engine Driven	ELECTRIC RESISTANCE
Electric Motor Driven	Reverse Butt
WELDING MACHINE, RECTIFIER TYPE	FLAME
AC-DC Arc	Flame and Plasma
DC Arc	Portable
WELDING MACHINE, STUD AUTOMATIC	Stationary
Direct Energy 7	
Stored Energy 7	Portable
SEMI-AUTOMATIC	CUTTING OUTFIT
Direct Energy 7	Electric Arc, Portable
Stored Energy 7	METALLIZING EQUIPMENT
WELDING MACHINE, TRANSFORMER TYPE	Flame
AC Arc18	Plasma Spray
FSC 8482 — ELECTRICAL RESISTANCE	Spray Gun
WELDING EQUIPMENT	Tungsten Carbide Spark Discharge 15
·	Vacuum Chamber 10
BRAZING AND SOLDERING EQUIPMENT	POWER SUPPLY AND GUN, METALLIZING
Resistance, Portable Type	Electron Beam10

Figure 6B-9. SERVICE LIFE TABLES—continuing

SOLDERING MACHINE, GAS, AUTOMATIC AND SEMI-AUTOMATIC	Mechanical
	WELDING MACHINE, COLD PRESSURE
SPRAY GUN, METALLIZING, FLAME 15	Air Operated
WELDING MACHINE, GAS16	Hydraulically Operated
Pacada Wel Divid podimionena Ann	Manually Operated
FSC 3436 — WELDING POSITIONERS AND	WELDING MACHINE, ELECTROGAS-SLAG
MANIPULATORS	Automatic
MANUAL AMOR ALMONA MANUAL PARAMETERS	WELDING MACHINE, ELECTRON BEAM
MANIPULATOR, AUTOMATIC WELDING	Hard Vacuum Type 7
HEAD, STATIONARY BASE	Non-Vacuum Type 10
Gantry Type	WELDING PANEL, ARC10
Traveling Boom Type	
Traveling Head Type	FSC 3441 — BENDING AND FORMING
MANIPULATOR, AUTOMATIC WELDING	MACHINES
HEAD, TRAVELING BASE	
Traveling Boom12	BENDING AND FOLDING MACHINE,
Traveling Head	TANGENT 20
POSITIONER, WELDING	BENDING AND TWISTING MACHINE,
Head and Tailstock Type17	HYDRAULIC
Headstock	BENDING BRAKE
Spindle Type, Hand Operated 20	Box and Pan
Spindle Type, Power Operated	Standard Apron
Table Type, Hand Operated 20	BENDING MACHINE
Table Type, Power Operated	Angle Beveling Rolls24
Tailstock Type	Corrugating Rolls
TURNING ROLLS, WELDING	Flanging, Sheet
Idler Type	Horizontal, Roll
Power Driven	Initial Pinch Rolls
Tilting Base	Jogging Rolls, Plate
TURNTABLE	Pyramid Rolls
Welding 20	Ram
BRAZING OUTFIT	Rotary Head Bar22
Induction, Gas Shielded	Rotary Head Pipe and Tube
Infrared, Pipe and Tubing	Vertical Rolls
BRAZING EQUIPMENT, ULTRASONIC 10	Wrapping Rolls, Plate
CHAMBER, WELDING	EXPANDING AND SHRINKING MACHINE,
Controlled Atmosphere	CYLINDRICAL14
CUTTING AND WELDING EQUIPMENT	EXPANDING MACHINE, CYLINDRICAL 20
Flame and Arc Type	FOLDING MACHINE, ADJUSTABLE BAR 21
Plasma and Arc Type	FORMING MACHINE
CUTTING AND WELDING MACHINE	Comb. Bulldoser and Stretch Wrap 22
Electron Beam	End Flaring, Pipe and Tube24
FLUX RECOVERY UNIT, WELDING 10	End Flaring, Squaring, Burring, Bending . 24
OVEN, GRANULATED WELDING FLUX 18	Grooving
POWER SUPPLY, ELECTRON BEAM 10	Induction Heating, Bar20
SOLDERING MACHINES	Multiple Rolls20
Ultrasonic	Radial Draw Forming
Commutator	Rotary Disk
Dip, Mechanical	Rotary Disk, Multiple Operation 20
Wave	Stretch-Wrap
WELDING EQUIPMENT, ULTRASONIC 15	PLANISHING MACHINE, SEAM ROLLING
WELDING HEAD OSCILLATOR	Cylindrical20
Electronic 15	Plate 20

Figure 6B-10. SERVICE LIFE TABLES—continuing

PRESS BRAKE	Two Column20
PRESS, FORMING AND SHEARING 22	PRESS, MECHANICAL, VERTICAL.
SHRINKING AND STRETCHING MACHINE 20	C-FRAME
SHRINKING MACHINE, CYLINDRICAL 20	Double Action17
STRAIGHTENING MACHINE, ROLL	Single Action
Cylindrical21	PRESS, MECHANICAL, VERTICAL,
Edge Forming 22	STRAIGHT SIDED
Plate	Double Action
Round Bar	Single Action
STRETCHING MACHINE, ROTARY HEAD . 20	FSC 3444 — MANUAL PRESSES
FSC-3442 — HYDRAULIC & PNEUMATIC	PRESS, MANUAL, HYDRAULIC,
PRESSES	HORIZONTAL, TIE BAR 20
	PRESS, MANUAL, HYDRAULIC, VERTICAL
PRESS, HYDRAULIC	C-Frame, Bench20
Alligator, Swaging	Open Rod, Bench20
Flexible Die18	Open Rod, Floor 20
Hot Forming	Straight Sided, Floor
Isostatic	PRESS, MANUAL, RACK AND PINION,
Stretch Draw	VERTICAL
Variable Positioning	C-Frame, Bench 18
VERTICAL	C-Frame, Floor
(COMBINATION)22	Press, manual, screw type
PRESS, HYDRAULIC, HORIZONTAL	C-Frame 18
C-Frame	Open Rod
Open Rod	Straight Sided
Opposed Cylinder 20	PRESS, MANUAL, VARIABLE
Straight Sided	POSITIONING, HYDRAULIC
Tie Bar Type	Open Rod
PRESS, HYDRAULIC, VERTICAL	FSC 8445 PUNCHING AND SHEARING
C-Frame	MACHINES
Open Rod	MACHINES
Straight Sided	PUNCHING MACHINE, COMBINATION
PRESS, PNEUMATIC, VERTICAL	Bar Shear, Vertical22
C-Frame	Bender, Vertical
Straight Sided	Shear and Coping, Vertical
PRESS, PIERCING 18	PUNCHING MACHINE, DOUBLE END,
FSC 3448 — PRESS, MECHANICAL POWER	VERTICAL22
PRESS, MECHANICAL, HORIZONTAL,	PUNCHING MACHINE, SINGLE END
C-FRAME	Horizontal24
Single Crank	Portable
PRESS, MECHANICAL, HORIZONTAL,	Vertical24
STRAIGHT SIDED	PUNCHING MACHINE, TURRET TYPE 20
Single Crank	SHEARING MACHINE, ANGLE
PRESS, MECHANICAL, INCLINABLE	Double End
Double Action	Single End20
Single Action	SHEARING MACHINE
PRESS, MECHANICAL, MULTIPLE	Bar and Angle 20
PLUNGER	Bar and Cable
Vertical21	Bar-Angle-Slitting20
PRESS, MECHANICAL, PULL DOWN	Bar, Alligator
Four Column	Bar, Guillotine

Figure 6B-11. SERVICE LIFE TABLES—continuing

Bar, Housing	RIVETING & DRILLING MACHINE,
Bar, Open Throat	SQUEEZE, AUTOMATIC FEED.
Bar, Sprue Cutter	C-FRAME
Form and Pierce	RIVETING & PUNCHING MACHINE.
Plate, Squaring	SQUEEZE, AUTOMATIC FEED,
Plate, Throatless	C-FRAME
Plate, Vertical20	RIVETING & STAKING MACHINE.
Rotary, Slitting	STATIONARY, SINGLE HEAD, IMPACT 16
Rotary, Throatless	RIVETING MACHINE
Straightening and Form20	Eccentric Crank
ECC 0446 FORCING MAGIINIANY 6	Multiple Head16
FSC 3446 — FORGING MACHINERY &	Rotary Vibrating Helve
HAMMERS	Spinning
FORGING MACHINE, AIR, HEADING &	Squeeze
UPSETTING, HOT	Stationary, One Shot Hammer
Rock Drill	·
FORGING MACHINE, HIGH ENERGY	FSC 3449 — MISCELLANEOUS SECONDARY
Compressed Gas Forming	METAL FORMING & CUTTING MACHINES
Electro-Magnetic Forming	EMBOSSING MACHINE, SINGLE LINE
FORGING MACHINE, MECHANICAL	Multiple, Rotary Die
Heading and Trimming, Cold20	Single Die
Heading and Upsetting, Hot22	GRADUATING MACHINE
Nut	Circular Milling Type
Roll22	Circular Shaper Type24
Rotary Kneading, Cold20	Linear Shaper Type
Swaging, Rotary	KNURLING MACHINE, SHELL
HAMMER, MECHANICAL	MARKING MACHINE
Crank	Press Type, Fixed Die
Rope Drop	Reciprocating Die
HAMMER, STEAM OR AIR	Rotary Cylindrical Die
Double End	METAL STITCHING MACHINE, THROAT TYPE
Double Frame	ROLL FLOWING MACHINE
Single Frame25	Horizontal, External
DOGGAGE WITH A MEMAL DIRON	Vertical, External
FSC 3447 — WIRE & METAL RIBBON	ROLLING MACHINE, THREAD
FORMING MACHINE	Reciprocating, Flat Die
FORMING MACHINE	Rotary Cylindrical Die
Barb Wire	
Coiling	FSC 8580 — INDUSTRIAL SEWING MACHINES
FORMING MACHINE, PRESS	AND MOBILE TEXTILE REPAIR SHOPS
Wire and Metal Ribbon25	SEWING MACHINE
Wire, Single Slide25	Garment
WIRE, BRADING MACHINE25	Heavy Canvas24
WIRE, CABLING MACHINE20	Heavy Cloth
WIRE, STRANDING MACHINE20	Heavy Leather
WIRE, TWISTING MACHINE20	Spark Proof, Mortar Propellant Pad 20
	CONTROL UNIT, MARKING MACHINE 12
FSC 8448 — RIVETING MACHINES	EMBOSSING AND DIE CUTTING MACHINE
or dimpling machines	Press Type
DIMPLING MACHINE, STATIONARY	MARKING AND STENCIL CUTTING
SQUEEZE16	MACHINE AUTOMATIC 12

Figure 6B-12. SERVICE LIFE TABLES—continuing

MARKING MACHINE	Cylindrical Horizontal Design, Single
Blast Etching, Movable Nozzle Type 20	Shell
Blast Etching, Stationary Nozzle Type 20	Cylindrical Vertical Design, Single Shell 18
Electric Etching	BLOW MOLDING MACHINE 12
MARKING MACHINE, COLD DIE, FOIL	BUFFING UNIT, RUBBER
Press Type	CALENDERING MACHINES, RUBBER AND
MARKING MACHINE, COMBINATION	PLASTICS (ALL TYPES)
OFF-SET AND DIRECT INKING 12	CUT-OFF MACHINE, PLASTICS19
MARKING MACHINE, HOT DIE FOIL	CUTTING MACHINES, RUBBER16
Keyboard Type, Automatic	CUTTING MACHINE, RUBBER BALE,
Keyboard Type, Manual	GUILLOTINE TYPE, HYDRAULIC 16
Keyboard Type, Numerically Controlled,	CUTTING MACHINE, RUBBER TIRE BEAD,
Insulating Tubing Imprint12	POWER OPERATED, GUILLOTINE
Press Type, Automatic	TYPE 16
Press Type, Manual	DEFLASHING MACHINE
Press Type, Numerically Controlled 15	DRYER, PLASTIC GRANULES, ELECTRIC
Press Type, Semi-Automatic	HEATED21
MARKING MACHINE, COLD DIE, DIRECT	EXTRUDING MACHINE, PLASTICS
INKING	Multi-Screw 8
Coated Wire Printing Type20	Horizontal Design, Single Screw 17
Horizontal Ram Type	EXTRUDING MACHINE, RUBBER
Press Type	Single Piston
Rotating Cylinder Type20	Horizontal Design, Single Screw 19
Stationary Plate Type	EXTRUDING SYSTEM, PLASTICS
MARKING MACHINES, COLD DIE, OFFSET	Monofilament Type 7
INKING, (ALL TYPES)18	Wire Insulating Type
MARKING MACHINES, HOT DIE, DIRECT	FORMING MACHINE, THERMOPLASTIC
INKING, (ALL TYPES)20	SHEET
SPACING UNIT, MARKING MACHINE 12	Roll or Sheet Feed 9
FSC 3615 — PULP AND PAPER INDUSTRIES	Sheet Feed
MACHINERY	Single Station, Fixed Heater, Roll Feed 7
BEATER PULP	TWO STATION FIXED HEATER, ROLL
CALENDERING MACHINE	FEED21
Paperboard	SINGLE STATION, MOVING HEATER
Paperboard, Two Roll Design	Roll Feed
CORRUGATING MACHINE, PAPER25	Roll or Sheet Feed
PLEATING MACHINE PAPER	Sheet Feed
PULP SHEET DRYER, PAPER	GRANULATOR28
PULPING MACHINE PAPER	KETTLE, PLASTICS PROCESSING
Caster Mounted	Jacketed, Electric Heated, W Agitator 22
Skid Mounted 10	Jacketed, Steam Heated, W/Agitator 22
Stationary Mounted12	Single Shell, Electric Heated, W Agitator 5
Trailer Mounted10	Single Shell, Steam Heated, W Agitator 15
SHEET FORMING MACHINE, PAPER 25	LAPPING MACHINE, RADOMES25
SHREDDING MACHINE, PAPER	LATHE, PLASTICS25
Caster Mounted 5	MILL ROLL RUBBER AND PLASTIC
Stationary Mounted10	PROCESSING
FSC 3620 — RUBBER AND PLASTICS	Dual Unit, Two Roll Design
WORKING MACHINERY	Single Unit, Two Roll Design
AUTOCLAVE, RUBBER AND PLASTICS	Single Unit, Three Roll Design
PROCESSING	MIXING MACHINE, BATCH PRODUCTION
Cylindrical Horizontal Design, Jacketed 20	Constant Speed
Oyamurican morizonican Design, Jackeved 20	Two Speed

Figure 6B-13. SERVICE LIFE TABLES—continuing

Variable Speed	Three Column France Down Action 01
Variable Speed	Three Column Frame, Down Action 21
MIXING MACHINE, CONTINUOUS	Three Column Frame, Up Action 20
PRODUCTION	Tilting Frame, Down Action
Variable Speed	PRESS, MOLDING, INJECTION, MANUAL
PRE-EXPANDING MACHINE, STYROFOAM	OPERATED
BEAD	Horizontal, Plunger Type, Mechanical Mold
PREFORM MACHINE, FIBEROUS GLASS	Clamping 14
Single Station	Vertical, Plunger Type, Hydraulic Mold
PRESS, LAMINATING, RUBBER AND	Clamping
PLASTICS PROCESSING	Vertical, Plunger Type, Mechanical Mold
Manual Operated, Four Column Frame,	Clamping
Down Action	PRESS, MOLDING, INJECTION, POWER
Manual Operated, Four Column Frame, Up	OPERATED
Action 6	Horizontal, Plunger Type, Hydraulic Mold
Manual Operated, Straight Sided Frame,	Clamping
Down Action	Horizontal, Plunger Type, Pneumatic Mold
Manual Operated, Straight Sided Frame,	Clamping
Up Action	Horizontal, Plunger Type, Hydraulic
	Mechanical Mold Clamping22
Power Operated, Four Column Frame,	
Down Action	Horizontal, Reciprocating Screw Type,
Power Operated, Four Column Frame, Up Action	Hydraulic Mechanical Mold Clamping 11
	Horizontal, Reciprocating Screw Type,
Power Operated, Straight Sided Frame, Up	Hydraulic Mold Clamping 9
Action	Vertical, Plunger Type, Hydraulic
Power Operated, Eight Column Frame,	Mechanical Mold Clamping20
Down Action	Vertical, Plunger Type, Hydraulic Mold
PRESS, MOLDING, COMBINATION	Clamping
COMPRESSION AND TRANSFER	Vertical, Plunger Type, Mechanical Mold
Power Operated, Four Column Frame,	Clamping 22
Down Action 8	Reciprocating Screw Type, Hydraulic
Power Operated, Four Column Frame, Up	Mechanical Mold Clamping 9
Action	Reciprocating Screw Type, Hydraulic Mold
PRESS, MOLDING, COMPRESSION,	Clamping 5
MANUALOPERATED	PRESS, MOLDING, TRANSFER, POWER
C Frame, Up Action	OPERATED
Four Column Frame, Down Action 21	C Frame, Up Action 6
Four Column Frame, Up Action 16	Four Column Frame, Up Action 23
Straight Sided Frame, Down Action 19	PRESS, MOLDING TRANSFER, MANUAL
Straight Sided Frame, Up Action 15	OPERATED
Three Column Frame, Up Action 21	Mechanical Mold Clamping 8
PRESS, MOLDING, COMPRESSION, POWER	PRESS, TOP POTTING PLASTICS22
OPERATED	PRESS, UP AND DOWN ACTION, PLASTIC
C Frame, Down Action14	MOLD CLAMPING
C Frame, Up Action	ROUTING MACHINE, PLASTICS
Eight Column Frame, Up Action 18	SEALING MACHINE, THERMOPLASTIC
Four Column Frame, Two Ram, Up and	SHEET
Down Action	Rotary Roller Feed, Continuous Type 24
Four Column Frame, Down Action 19	Rotary Table22
Four Column Action, Up Action 20	Stationary Table
Straight Sided Frame, Down Action21	VULCANIZING MACHINE, RUBBER 17
Straight Sided Frame, Up Action	VULCANIZING MACHINE, RUBBER,
Straight Sided Frame, Horizontal and Down	C-FRAME DESIGN ×
Action	WRAPPING MACHINE, RUBBER HOSE 24/
4 NO VICTE	

Figure 6B-14. SERVICE LIFE TABLES—continuing

WRAPPING AND UNWRAPPING MACHINE	DUMET BORATING MACHINE20
Rubber Hose24	ENGRAVING MACHINE
FSC 3625 — TEXTILE	Pantograph
INDUSTRIES MACHINERY	MACHINES
DAGMAYING MAGYING	EXHAUST MACHINE21
BAG MAKING MACHINE	EXHAUST, BAKE OUT AND SEALING
Howitzer Propellant Change	MACHINE
BEDDING AND UPHOLSTERY MACHINE 20	Klystron Tube
BRAIDING MACHINE	FORMING MACHINES, (ALL TYPES) 22
FABRIC CUTTING MACHINE	GRINDING AND POLISHING MACHINE
FABRIC FINISHING MACHINE26	Optical Lens
FABRIC MAKING MACHINE30	Reciprocating Pneumatic Cylinders 14
FABRIC ROLLING AND MEASURING	GRINDING MACHINE
MACINE 15	Crystal
FELTING MACHINE15	Optical Lens24
FOLDING AND PRESSING MACHINE 20	Plate Glass
KNITTING MACHINE	GROWING MACHINE
Wire Covering, Single Head 20	Crystal 19
LOOM WEAVING MACHINE 15	LAPPING MACHINE 20
PRESSING MACHINE, SEAM	LATHE22
ROPE AND CORDAGE MACHINE	MIXER 18
SAMPLE CARDING MACHINE 28	ORIENTATION MACHINE
SEALING MACHINE, FABRIC, STRAIGHT	POLISHING MACHINE AND OPTICAL
SEAM	I-BEAM ASSEMBLY
SHADE MAKING MACHINE 12	
SPRAY UNIT, PERMANENT CREASE	Periscope
FLUID. AUTOMATIC	POLISHING MACHINE
THERMAL PATCHING MACHINE	Opitcal Lens
TRIMING MACHINE TURBLE	SEALING AND EXHAUST MACHINE 21
TRIMMING MACHINE, THREAD	SEALING MACHINE
ESCORUT ODMOTAL AND OLICO	SPRAYING MACHINE
FSC 3635 — CRYSTAL AND GLASS	Mica20
INDUSTRIES MACHINERY	TABBING AND ANCHOR MACHINE
ALTONIA AND	Filament
AUTOCLAVE	TABBING MACHINE
Quartz Crystal Research	Cathode
CARBURIZING FURNACE	VACUUM FIRING STATION
Grid and Filament24	Electronic Tube Parts
CASTING FURNACE AND TABLE	WINDING MACHINE 22
Optical Glass12	<b></b>
CENTERING MACHINE	FSC 3650 — CHEMICAL AND
Optical Glass	PHARMACEUTICAL PRODUCTS
COATING MACHINE20	MANUFACTURING MACHINERY
CRUSHER 18	
CUTOFF MACHINE	AGITATOR, VERTICAL, RECIPROCATING . 13
Glass Slicing	BURNER, SULPHUR, BRICK LINED, GAS
Crystal Slicing and Dicing20	STARTED 25
Crystal Slicing	CHEMICAL AND PHARMACEUTICAL
CUTTING MACHINE	PRODUCTS MANUFACTURING
Flat Glass	MACHINERY SYSTEM25
Glass Tubing	COATING MACHINE
DRAWING MACHINE	Centrifugal, Powder
Continuous Glass Fiber	Centrifugal, Tablet and Pill20

Tumbler, Inclined 25	Mechanical Agitated, Open Vessel 22
CONCENTRATOR UNIT, SULPHURIC ACID 25	Mechanical Agitated, Open Vessel,
CONVERTOR UNIT, SULPHUR DIOXIDE 25	Jacketed22
CRUSHER	Mechanical Agitated, Pressure Vessel 22
TNT, Pneumatic10	Mechanical Agitated, Pressure Vessel,
CRYSTALLIZER, CHEMICAL MATERIAL	Jacketed
Centrifugal, Horizontal, Batch Type 15	Mechanical Agitated, Vacuum Vessel 22
All Other Types	Mechanical Agitated, Vacuum Vessel,
DESICCATOR TANK	Jacketed
Chemical Explosive Storage, Pressure,	Mechanical Agitated, Vacuum or Pressure
Portable	Vessel
DISPENSING UNIT, SOLVENT	Mechanical Agitated, Vacuum or Pressure
EVAPORATOR, CHEMICAL PROCESSING	Vessel, Jacketed
Concentrating, Steam Heated25	Muller, Counter Current21
Wiped Film, Jacketed	Muller, Rotating Pan
FLAKER	Muller, Stationary Pan
Single Drum	Ribbon, Stationary Shell
KETTLES, (ALL TYPES)	Ribbon, Stationary Shell, Jacketed 15
MELTING AND MIXING SYSTEM, TNT 20	Ribbon, Vertical Cone, Vacuum or Pressure,
MELTING UNIT	Jacketed
Chemical Explosive, Grid, Steam Jacketed . 20 METERING, MIXING, AND DISPENSING	Tumbler, Change Drum20
MACHINE, CHEMICAL EXPLOSIVE 15	Tumbler, Double Cone
MILL	Tumbler, Double Cone, Horizontal 20
Colloid, Horizontal20	Tumbler, Drum
Colloid, Vertical 20	Tumbler, Drum, Horizontal20
Roller, Three Roll	Tumbler, Twin Shell
MIXER	Tumbler, Zig-Zag
Change Can	Ultrasonic
Change Can, Jacketed	Vibrating, Self-Cleaning
Change Can, Vacuum	MIXING AND POURING UNIT, ROTARY,
Change Can, Vacuum, Jacketed 13 Change Can, Vacuum or Pressure 13	PRIMER MIX, REMOTE CONTROLLED 15
Change Can, Vacuum or Pressure, Jacketed 13	MIXING AND SOLVENT RECOVERY
Drum Roller	SYSTEM
Extruding, Double Screw, Jacketed 14	POLISHING MACHINE
Extruding, Single Screw, Jacketed 14	Tableting and Pill
Homogenizing, Portable Mount	PRESSES, TABLETING, (ALL TYPES) 20
Impeller, Pipeline Mount	SEPARATOR, CHEMICAL MATERIAL
Impeller, Portable Mount	Centrifugal, Horizontal, Continuous Type . 25
Impeller, Stationary Mount	Centrifugal, Vertical, Batch Type 25
Jelly Bag, Horizontal, Batch Type 18	Centrifugal, Vertical, Continuous Type 25
Jelly Bag, Vertical, Batch Type 18	Decantation
Kneading, Double Blade 20	Particle Classifier, Liquid Medium 20
Kneading, Double Blade, Compression,	SHAKING MACHINE
Jacketed	Reciprocating
Kneading, Double Blade, Jacketed 20	STILL
Kneading, Double Blade, Vacuum 20	Flash, Chemical Processing
Kneading, Double Blade, Vacuum, Jacketed 20	TANK, KNOCKOUT, QUENCH
Kneading, Double Blade, Vacuum or	TANK, KNOCKOUT,
Pressure, Jacketed	SCRUBBER-DEHUMIDIFIER20
Mechanical Agitated, Closed Vessel 22	TANK, SEPARATOR, DEMISTER20
Mechanical Agitated, Closed Vessel, Jacketed22	TANKS, (ALL TYPES)
Jacketed	TNT MANUFACTURING MACHINERY

Figure 6B-16. SERVICE LIFE TABLES—continuing

Kiln, Rotary, Continuous Type 18	Double Deck
Preheater, Fluid Bed Type, Closed Top 18	SCREEN, MULTIAPPLICATION,
TOWERS, (ALL TYPES)	REVOLVING TYPE
WASHER UNIT, ACID, NITROCELLULOSE 15	Portable
WASHER UNIT, ACID, TNT20	Stationary
WASHER UNIT, SELLITE, TNT15	SCREEN, MULTIAPPLICATION, ROUND
TOGORAN INDICATELL CIRT	TYPE
FSC 3660 — INDUSTRIAL SIZE	Double Deck 7
REDUCTION MACHINERY	Four Deck
CRUSHER	Single Deck
Jaw Type	Three Deck
Rigid Hammer Type	SCREEN, MULTIAPPLICATION, TROUGH
Ring Hammer Type	TYPE
Roll Type, Double	Double Deck
Roll Type, Single	Four Deck
Rotary Type	Single Deck
Swing Hammer Type	700,000
MILL, MULTIAPPLICATION	FSC 3680 — FOUNDRY MACHINERY,
Air Pressure Type14	RELATED
MILL, MULTIAPPLICATION, BALL AND,	EQUIPMENT AND SUPPLIES
PEBBLE TYPE	ADD ACTION OF A COMMON
Single Cylinder 14	ABRASIVE SHOT CLASSIFIER 26
Triple Cylinder	BLAST CLEANING AND FINISHING
MILL, MULTIAPPLICATION, GRINDING	MACHINE
TYPE	Barrel Type
Metal Disk	Cabinet Type, Enclosed
Stone Disk	Cabinet Type, Sleeved
MILL, MULTIAPPLICATION, JAR	Generator Type 20
Pivoting Type	Rotary Table Type
Rolling Type	Special Design
Trunnion Mounted Type25	Water Type
MILL, MULTIAPPLICATION, VIBRATING	BLAST CLEANING AND FINISHING ROOM 26
Round Type 4	BLAST CLEANING AND PAINTING
MIXING MACHINE, MULTIAPPLICATION	MACHINE 18
Tumbler Box Type11	CASTING MACHINE
SCREEN, MULTIAPPLICATION, ELECTRIC	Centrifugal
VIBRATING TYPE	Die
Double Deck	Matrix
Single Deck	Permanent Mold
Three Deck	Pig
SCREEN, MULTIAPPLICATION,	Slush
MECHANICAL VIBRATING TYPE	CHARGING BUCKET 22 CHARGING MACHINE 21
Double Deck	CORE CUTTING AND TAPERING MACHINE 22
Single Deck20	
Three Deck	CORE MAKING MACHINES, (ALL TYPES) 15
SCREEN, MULTIAPPLICATION,	CORE WIRE STRAIGHTENER
OSCILLATING, BOX TYPE	DOLOMITE MACHINE
Double Deck	•
Four Deck	FINISHING MACHINE
All Other Types	Barrel
SCREEN, MULTIAPPLICATION,	Spindle Type
PNEUMATIC VIBRATING TYPE	Systems 25

Figure 6B-17. SERVICE LIFE TABLES—continuing

Vibratory Type	CLINCHING MACHINE 22
FLASK-EILLER	COMPOUND APPLYING AND CURLING
FLASK	MACHINE 20
FOUNDRY	COMPOUND APPLYING MACHINE20
Conveyor	CURLING MACHINE24
Elevator 15	DRYER COMPOUND20
Ladle Bail	FLANGING MACHINE24
Ladle Stand	FORMING MACHINE 24
Slag Pan	SEAMING MACHINE
Systems	SCORING MACHINE
GASSING MACHINE 16	TESTING MACHINE, LEAK, CONTAINER 20
GRIT RECOVERY UNIT18	THREAD ROLLING MACHINE22
LADLES, (ALL TYPES)	
MANIPULATOR, FORGING 18	FSC 3690 — SPECIALIZED AMMUNITION
MOLDING MACHINES, (ALL TYPES) 27	AND ORDNANCE MACHINERY
PRESS	AND RELATED EQUIPMENT
Wax Injection	
Bonding	APPLICATION MACHINE ANALYMMION. 25
RAPPER	APPLICATOR MACHINE, AMMUNITION
SAND	ITEM
Bucket	APPLICATOR MACHINE, BUMB
Conditioner	APPLICATOR MACHINE, PRIMER 18
Dryer	APPLICATOR MACHINE, MORTAR
Handling System21	CARTRIDGE
Hopper Base	APPLICATOR MACHINE, PROJECTILE 18
Hopper Unit	ASSEMBLE AND CRIMP MACHINE,
Mixer	CARTRIDGE
Muller	ASSEMBLE, CRIMP, AND LOADING UNIT,
Separator and Blender	PROJECTILE 14
Separator	ASSEMBLY MACHINE, AMMUNITION
Storage Bin	CONTAINER 18
SANDBLAST TANK	ASSEMBLY MACHINE, BOMB21
SHAKEOUT MACHINE	ASSEMBLY MACHINE, MINE
SHELL BONDING MACHINE	ASSEMBLY MACHINE, POWDER CHARGE 17
TRANSFER CAR21	ASSEMBLY MACHINE, ROCKET 18
FSC 3685 — SPECIALIZED METAL	ASSEMBLY SYSTEM, MINE 18
CONTAINER	BALLISTIC ANALYZER, ROCKET 19
MANUFACTURING MACHINERY	BALLISTIC CHRONOGRAPH
BEADING AND CURLING MACHINE 24	BALLISTIC TEST UNIT 18
BEADING AND FLANGING MACHINE 24	BANDING PRESS, PROJECTILE22
BEADING MACHINE	BASIC ASSEMBLY MACHINE, ROTARY,
BEADING, CURLING AND FLANGING	CONTINUOUS MOVEMENT, MULTIPLE
MACHINE 24	TABLE, ORDNANCE         25
BEADING, CURLING AND TRIMMING	BASIC ASSEMBLY MACHINE, ROTARY,
MACHINE24	CONTINUOUS MOVEMENT, SINGLE
BEADING, FLANGING AND EXPANDING	TABLE, ORDNANCE
MACHINE24	BASIC ASSEMBLY MACHINE, ROTARY,
BEADING, FLANGING AND TRIMMING	ORDNANCE
MACHINE	BASIC ASSEMBLY MACHINE, ROTARY,
BEADING, TRIMMING AND THREAD	MULTIPLE TABLE, ORDNANCE 18
ROLLING MACHINE	BASIC ASSEMBLY MACHINE, STRAIGHT
BODYMAKER	LINE, ORDNANCE

Figure 6B-18. SERVICE LIFE TABLES—continuing

BASIC ASSEMBLY MACHINE, SINGLE	DRYING UNIT, POWDER22
STATION, ORDNANCE20	EJECTING MACHINE, PROJECTILE 20
BEAKER WRAPPING MACHINE, POWDER 20	EXPANDING MACHINE, CARTRIDGE
BLOCKING PRESS, POWDER25	CASE
BULLET AND CASE SHAKER MACHINE,	EXTRACTING MACHINE, EXPLOSIVE 15
CARTRIDGE 18	EXTRACTING MACHINE, NON-EXPLOSIVE
BURST LENGTH COUNTER15	POWDER
CARPET ROLL MACHINE, POWDER 20	EXTRUSION PRESS, POWDER
CAVITY DRILLING MACHINE, BOMBLET . 15	FACING MACHINE, BURSTER
CAVITY DRILLING MACHINE, GRENADE . 20	FACING MACHINE, GRENADE20
CAVITY DRILLING MACHINE, MORTAR	FACING MACHINE, ROCKET20
CARTRIDGE 23	FACING MACHINE, PROJECTILE20
CAVITY DRILLING MACHINE,	FILLING AND CLOSING UNIT, GRENADE . 15
CAVITY DRILLING MACHINE, PROJECTILE25	FILLING AND CLOSING UNIT, MORTAR
CAVITY DRILLING MACHINE, ROCKET 25	CARTRIDGE 25
CAVITY HOT MELT KETTLE, BOMB CASE . 14	FILLING AND CLOSING UNIT,
CHARGING MACHINE, BULLET20	PROJECTILE
CHARGING MACHINE, PRIMER21	FILLING MACHINE, BOMB22
CONTINUITY TESTER, BOMBLET 15	FILLING MACHINE, PROJECTILE22
CONTINUITY TESTER, FUZE	FIRING TEST MACHINE, FUZE20
CONTINUITY TESTER, ROCKET18	FORMING MACHINE, BULLET JACKET 18
CONTOURING MACHINE, POWDER 15	FORMING MACHINE, CARTRIDGE CASE 21
COOLING MACHINE, CARTRIDGE CASE 21	FORMING MACHINE, FUZE21
COOLING SYSTEM, MORTAR CARTRIDGE . 22	FORMING UNIT, CARTRIDGE CASE20
COOLING SYSTEM, PROJECTILE21	Fragmentation tester,
CRIMPING MACHINE, BOMB22	FRAGMENTATION TESTER, AMMUNITION25
CRIMPING MACHINE, BOMBLET 12	
CRIMPING MACHINE, BURSTER21	CARTRIDGE21
CRIMPING MACHINE, CARTRIDGE 22	GAGING MACHINE, BULLET25
CRIMPING MACHINE, FUZE20	GAGING MACHINE, CARTRIDGE CASE 25
CRIMPING MACHINE, PRIMER21	GAGING MACHINE, CARTRIDGE21
CRIMPING MACHINE, PROJECTILE 19	GAGING MACHINE, DETONATOR 18
CRIMPING MACHINE, ROCKET 20	GAGING MACHINE, MORTAR CARTRIDGE 18
CUTTING MACHINE, BULK POWDER 25	GAGING MACHINE, PROJECTILE 20
DEACTIVATION FURNACE, AMMUNITION 15	GAGING MACHINE, ROCKET
DEBURRING AND CHAMFERING	GRAIN CUTTING MACHINE, POWDER 25
MACHINE, FUZE20	GRAIN SLOTTING MACHINE, POWDER 18
DEHYDRATING PRESS, POWDER25	GRAIN SPIRAL WRAP MACHINE, POWDER 21
DESCALING MACHINE, PROJECTILE	GRAIN TRIMMING MACHINE, POWDER 28
BILLET 20	GRINDING MACHINE, FUZE
DIMPLING MACHINE, BOMBLET 15	GRINDING MACHINE, BOMB
DISPENSING MACHINE, GRENADE 15	HEAD TURNING MACHINE, CARTRIDGE
DRILLING MACHINE, BOMB20	CASE20
DRILLING MACHINE, CARTRIDGE CASE . 20	HEATER, OPEN FLAME, AMMUNITION 25
DRILLING MACHINE, POWDER GRAIN 21	HOLDING AND CONVEYING MACHINE,
DRILLING MACHINE, PROJECTILE 20	AMMUNITION ITEM21
Drop and Electric Firing Test	IDENTIFY MACHINE, CARTRIDGE 20
MACHINE, PRIMER19	INSPECTION AND PACKAGING MACHINE,
DROP TEST MACHINE, DETONATOR 20	DETONATOR17
DROP TEST MACHINE, FUZE21	INSPECTION MACHINE, CARTRIDGE
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DRYING PRESS, CARTRIDGE CASE 20	INSPECTION MACHINE, CARTRIDGE 15

Figure 6B-19. SERVICE LIFE TABLES—continuing

INSPECTION MACHINE, FUZE 15	POWER SUPPLY, ORDNANCE TEST 10
INSPECTION MACHINE, MORTAR	PROBE MACHINE, MORTAR CARTRIDGE . 20
CARTRIDGE 18	PROBE MACHINE, PROJECTILE 20
INSPECTION MACHINE, PRIMER 25	PROCESSING MACHINE, PROJECTILE,
INSPECTION MACHINE, PROJECTILE 15	MULTIPLE STATION20
JOLT TEST MACHINE, FUZE 20	PULLING MACHINE, FUZE18
JUMBLE TEST MACHINE, FUZE 18	REAMING MACHINE, BOMB17
LEAK TEST MACHINE, AMMUNITION	ROLLING MILL, POWDER
CONTAINER	ROLLING MILL, PROJECTILE BILLET 25
LEAK TEST MACHINE, CARTRIDGE 20	ROTATING BAND TEST MACHINE,
LEAK TEST MACHINE, FUZE20	PROJECTILE 22
LEAK TEST MACHINE, FUZE CONTAINER 20	SCREENING MACHINE, POWDER25
LEAK TEST MACHINE, GRENADE 15	SCRIBING MACHINE, FUZE21
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LEAK TEST MACHINE, MORTAR	SEALING MACHINE, ROCKET
CARTRIDGE	SEAT AND CRIMP MACHINE, CARTRIDGE 20
LEAK TEST MACHINE, PROJECTILE 20	SHEARING MACHINE, PRESSURE
LEAK TEST MACHINE, ROCKET 15	CYLINDER
LEAK TEST SET, CARTRIDGE ACTUATING	SHELLAC MACHINE, AMMUNITION ITEM 15
DEVICE	SEPARATOR, AMMUNITION ITEM21
LEAK TESTER, BOMB CASING21	SLITTING MACHINE, POWDER25
LOAD AND ASSEMBLE MACHINE,	SLOTTING MACHINE, BOASTER 22
CARTRIDGE	SLOTTING MACHINE, FUZE
LOAD AND ASSEMBLE MACHINE,	SOLVENT RECOVERY TANK, POWDER 25
PROJECTILE	SPIN TEST MACHINE, BOASTER21
LOAD CASE, MOUTH OPEN AND VERIFY	SPIN TEST MACHINE, FUZE21
MACHINE, CARTRIDGE	SPIN TEST MACHINE, PROJECTILE 18
LOAD CONSOLIDATING PRESS, POWDER . 20	SPINNING MACHINE, ROCKET 15
LOAD, ASSEMBLE AND IDENTIFY	STACKING MACHINE, POWDER25
MACHINE, CARTRIDGE	STAKING MACHINE, FUZE20
	STAKING MACHINE, PROJECTILE20
LOADING AND CRIMPING MACHINE,	STAKING MACHINE, CARTRIDGE CASE 20
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Cathode Ray Tube	Signal Data Converter
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Compass System 12	Sonobuoy
Computer	Synchro11
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Hydraphone	Vibrator
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Infrared	<b>Digital</b>
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ANALYZER, DISSOLVED OXYGEN 6	ANALYZER, TRACE HYDROCARBON 8
ANALYZER, ELECTRO CONDUCTIVITY	APPARATUS, PETROLEUM PRODUCTS, SULFURE DETERMINATION, LAMP
TYPE 12 ANALYZER, ELECTRODEPOSITION	TYPE 10
TYPE 19	BRIDGE, (ALL TYPES)
ANALYZER, ELECTROPHORETIC	BURN RATE APPARATUS
MASS-TRANSPORT TYPE 8	CALORIMETER, CUPTYPE
ANALYZER, EXHAUST GAS 10	CALORIMETER, COPTIFE
ANALYZER, FLOW, ULTRA-VIOLET	COMPENSATION TYPE
TYPE 8	CALORIMETER, GAS FLOW TYPE 9
ANALYZER, FUEL, WATER CONTENT 9	
ANALYZER, GAS, NITROGEN CONTENT	CALORIMETER, OXYGEN BOMB TYPE 13 CART, OIL SUPPORT, LUBRICANT
TYPE 17	FRICTION TEST
ANALYZER, GAS, VACUUM FUSION	CARBON INDUCTION APPARATUS 14
(OXYGEN-HYDROGEN-NITROGEN)	
TVDF	CHROMATOCRADU COMBINIATION
* * * * * · · · · · · · · · · · · · · ·	CHROMATOGRAPH, COMBINATION DETECTOR TYPE
TYPE 15 ANALYZER, GASOLINE ENGINE	DETECTOR TYPE 7
ANALYZER, GASOLINE ENGINE EXHAUST, INFRARED TYPE	CHROMATOGRAPH, COMBINATION DETECTOR TYPE

Figure 6B-29. SERVICE LIFE TABLES—continuing

CHROMATOGRAPH, FLAME DETECTOR	FURNACE, ARC IMAGE TYPE11
TYPE . ~ 9	HEMOGLOBINOMETER 8
TYPE	INDICATOR, OXIDATION REDUCTION
<b>DETECTOR TYPE</b> 7	POTENTIAL
CHROMATOGRAPH, RECYCLING,	INDICATOR, TURBIDITY, LABORATORY
ULTRAVIOLET ABSORPTION DETECTOR	TYPE
TYPE 8	INTEGRATORS, DIGITAL, (ALL TYPES) 10
CHROMATOGRAPH, THERMAL	INTEGRATOR-RECORDER, COMBINATION
CONDUCTIVITY DETECTOR TYPE 11	ANALYSIS TYPE 10
CHROMATOGRAPH, LIQUID,	IMPACTOR, CASCADE, PARTICLE SIZE
COMBINATION MODE, REFRACTOMETER	DISTRIBUTION 9
<b>DETECTOR TYPE</b>	IRRADIATOR, SPECIMEN, LABORATORY,
CHROMATOGRAPH SYSTEM,	CESIUM TYPE
COMBINATION DETECTOR TYPE 7	IRRADIATOR, SPECIMEN, LABORATORY,
CLOUD AND POUR TEST APPARATUS 14	COBALT TYPE12
COLORIMETER, PHOTOELECTRIC TYPE 11	MELTING POINT APPARATUS 10
COLORIMETER, VISUAL TYPE12	METER, DENSITY, RADIATION, CLAMP ON,
COMPARATOR, METAL CONTENT 22	<b>RECORDING TYPE</b>
COMPUTER, COLORANT MIXTURE 12	METER, HYDROGEN-ION
COUNTER, BLOOD CELL, AUTOMATIC	METER, OZONE 7
TOTALIZING TYPE11	METER, ZETA POTENTIAL 7
COUNTER, CONTAMINANT, TRACE	MOLECULAR WEIGHT APPARATUS,
AIRBORNE, CONDENSATION NUCLEI	DISTILLATION TYPE 9
TYPE 10	MONITOR, WATER QUALITY,
CYCLOTRON	MULTI-PARAMETER TYPE 8
DENSITOMETER, ELECTROPHORESIS	MICROWAVE SYSTEM, PLASMA
STRIP ANALYSIS, CATHODE RAY	ANALYSIS, ATTENUATION TYPE10
DISPLAY 8	OSMOMETERS, (ALL TYPES)
DENSITOMETER, FLUID OR SLURRY,	POLAROGRAPH, CATHODE RAY TYPE 13
ELECTRICAL TYPE 10	POLAROGRAPH, RECORDING, STRIP
DENSITOMETER, FLUID OR SLURRY,	CHART, INK WRITING TYPE
PNEUMATIC TYPE 10	PROGRAMMER-PRINTER, EFFLUX TIME . 10
DENSITOMETERS, CHROMATOGRAPH,	PROGRAMMER, TEMPERATURE,
(ALLTYPES) 8	SAMPLE-REFERENCE COLUMN TYPE 10
DENSITOMETER, RECORDING,	PURIFIER, HYDROGEN
ELECTROPHORESIS STRIP ANALYSIS 8	·
DENSITOMETER, SOLID MATERIALS,	PURIFIER, INERT GAS
PNEUMATIC TYPE (INCLUDING	
POWDERS) 8	RECORDER, CONTAMINATION LEVEL, TRANSPARANT LIQUID,
DETECTOR, HYDROGEN SORPTION	PHOTO-ELECTRIC SENSING,
TYPE 9	FLOW-THRU TYPE
DETECTOR, COMBUSTIBLE GAS, RACK	RECORDER, POLAROGRAPH
MOUNT TYPE	RECORDER, POLAROGRAPH 10 RECORDER, RESIDUAL CHLORINE 10
	RECORDER, TESTIDOAL CHLORINE
DETECTOR, STREAMING CURRENT 10	RECORDER, 111 RATOR
DIGESTER SYSTEM, NITROGEN	HYDROGEN-ION TYPE
DETERMINATION (INCLUDING	SALINOMETER 9
DIGESTER AND DISTILLATION RACKS). 10	SAMPLER 10
ELECTROPHORESIS APPARATUS, (ALL TYPES)	SCANNERS, RADIO-CHROMATOGRAPH,
FRACTION COLLECTORS, (ALL TYPES) 8	(ALL TYPES)10
FRACTION COLLECTORS, (ALL 11FES) 8 FRACTIONATOR, REFRIGERATED CELL	SCANNER, RADIO-CHROMATOGRAPH,
	PAPER STRIP TYPE
TYPE 8	

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SCANINED INTERESTATION	ECOAME DITIOLOLI DOADEDMING
SCANNER-INTEGRATOR,	FSC 6635 — PHYSICAL PROPERTIES
RADIO-CHROMATOGRAPH,	TESTING EQUIPMENT
COMBINATION MODE TYPE 10	
SEPARATOR, FLUID, REVERSE OSMOSIS	ABRASION TESTING MACHINE 20
TYPE	AGING TESTING APPARATUS20
TYPE	ANALYZER, STRESS AND STRAIN 14
SPECTROMETER, MASSITYE	DATAMOND DODMADER
SPECTROMETER SYSTEMS, (ALL TYPES) . 12	BALANCER, PORTABLE
SPECTROMETER SYSTEM, MNR TYPE 12	BALANCING MACHINE, DYNAMIC 20
TEST BATH, VISCOSIMETER, OIL TYPE 15	BALANCING MACHINE, STATIC21
TEST ENGINES, (ALL TYPES)	BALANCING UNIT, STRESS AND STRAIN . 15
TEST SET, ATTENUATION, ULTRASONIC	CALIBRATING DEVICE, CABLE
TYPE	TENSIOMETER 12
TEST SET, EXPLOSIVES STABILITY	CALIBRATING DEVICE, EXTENSOMETER 10
TEST SET, EXPLOSIVES STABILITY	CALIDDATING DEVICE, EXTENSUMEDER 10
METAL BLOCK TYPE	CALIBRATING DEVICE, LOAD CELL
TEST SET, FLAME RADIATION	Beam Type, Mechanically Operated 7
CHARACTERISTICS, AVIATION	Columnar Type, Dead Weight, Manually
TURBINE FUELS	Operated
TESTER, FLASH POINT, (ALL TYPES) 10	Columnar Type, Hydraulically Operated 14
TESTER, LUBRICANT FRICTION.	Null Indicating, Portable
ANNULAR RING-FLAT BLOCK TYPE 10	CAMERA, X-RAY DIFFRACTION12
	COMPARATION
TESTER, LUBRICANT FRICTION,	COMPARATOR, GAGE
ELEVATED TEMPERATURE, BALL	COMPARATOR, PROJECTION
BEARING TYPE 16	CONTROLLER, INDICATOR, STRESS AND
TESTER, LUBRICANT FRICTION, OPPOSED	STRAIN
BLOCK TYPE11	CONVERTER, STRAIN, SEMI-CONDUCTOR
TESTER, LUBRICANT FRICTION.	STRAIN GAGE TYPE10
	DATA LOGGER SYSTEM, STRESS AND
PRESS FIT, PIN AND BUSHING TYPE 12	STRAIN
TESTER, LUBRICANT FRICTION,	
ROTATING PLN TYPE 12	Multi-Channel Type, Adding Machine Tape
TESTER, LUBRICANT FRICTION,	Printout 10
ROTATING RING TYPE12	Multi-Channel Type, Punch Tape Printout 11
TESTER, LUBRICANT FRICTION, SLIDING	DATA PLOTTER/SCANNER SYSTEM,
BLOCK TYPE12	STRESS AND STRAIN
TROPPE LUBBIG DE COMPANION DE C	Multi-Channel Type, Strip Chart Plotting . 15
TESTER, LUBRICANT FRICTION, STEEL	Mulai Channel Turn 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
BALL TYPE	Multi-Channel Type, Industrial Typewriter
TESTER, LUBRICANT, LOAD CARRYING	Printout
ABILITY, GEAR TYPE 12	Multi-Channel Type, Punch Tape Printout . 15
TESTER, PETROLEUM PRODUCTS, COKE	DEMAGNETIZER, PRODUCTION TYPE.
CONTENT 15	STATIONARY
CONTENT	DIFFRACTION PATTERN MEASURING
DEPOSIT AND DEGRADATION	DEVICE 5
CHARACTERISTICS TYPE 12	DILATOMETER
TESTER, PETROLEUM PRODUCTS.	ELECTROMETER
	ELECTROMAGNETIC INSPECTION UNIT 12
DISTILLATION RATE TYPE12	FLAW DETECTION SYSTEM, INFRARED
TESTER, PETROLEUM PRODUCTS, GUM	RADIATION SENSING 7
CONTENT 15	FLUORESCENT PENETRANT INSPECTION
TESTER, PETROLEUM PRODUCTS.	EQUIPMENT21
OXIDATION BATH TYPE17	FURNACE, TESTING MACHINE 12
TESTER, RUST PREVENTION, TURBINE	GEAR CUTTER MEASURING MACHINE 22
OIL 9	CEAD MEASURING MACHINE 22
TITRATOR10	GEAR MEASURING MACHINE
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ZONE MELT APPARATUS 12	GONIOMETER, X-RAY DIFFRACTION 20

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HARDNESS TESTING MACHINE	CHART, INK WRITING, MACHINE
Brinell	ATTACHED TYPE
Combination	RECORDER, STRESS AND STRAIN, STRIP
DPH-Micro	CHART
Rockwell	Electric Writing
Other	Ink Writing 12
IMAGE AMPLIFIER, INDUSTRIAL X-RAY	RECORDER, STRESS AND STRAIN, X-Y
SYSTEM 7	Ink Writing
IMAGE INTENSIFIER	ROOM, X-RAY SHIELDING
INDICATOR, STRESS AND STRAIN, DIGITAL	
READOUT 10	SPECTROMETER, X-RAY DIFFRACTION 10 SPRING TESTING MACHINE
INDICATOR, STRESS AND STRAIN, DIAL	
	Compression Type
POINTER READOUT	Compression And Extension Type21
INDUSTRIAL GAMMA RAY UNIT 9	Fatigue21
INDUSTRIAL X-RAY UNIT	Leaf Type
LEAK DETECTOR, MASS SPECTROMETER	Torsion Type
TYPE14	STRENGTH OF MATERIALS TESTING
LEAK DETECTOR, PACKAGE, VACUUM	EQUIPMENT, IMPACT AND FATIGUE
CHAMBER TYPE	PRE-CRACKING 8
LEAK DETECTOR, RADIATION SENSING,	STRENGTH OF MATERIALS TESTING
PRODUCTION TYPE 13	MACHINE, LOAD CELL SYSTEM
MAGNET CHARGER, PRODUCTION TYPE . 12	Compression Type11
MAGNETIC PARTICLE INSPECTION UNIT 20	Compression and Tension
MEASURING MACHINE	Tension Type 5
Contour Type 20	STRENGTH OF MATERIALS TESTING
Coordinate Type	MACHINE
Linear Type	Bursting Point Type
Presetting machine, Cutting Tool,	Ductility Type
Industrial Production Type 9	Stiffness Type
Roundness Type	STRENGTH OF MATERIALS TESTING
Surface Finish Type	
	MACHINE, LOAD CELL
Tap, Hook and Rake	Compression Type
Universal Type	Compression and Tension
MEASURING MACHINE, BEARING, AXIAL	Tension Type
PLAY TYPE	Torsion
MEASURING MACHINE, BEARING,	STRENGTH OF MATERIALS TESTING
FLUSHNESS TYPE 5	MACHINE
MEASURING MACHINE, BEARING,	Compression
RADIAL PLAY TYPE	Creep
PIPEWALL THICKNESS GAGE, PORTABLE,	Fatigue
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POWER SUPPLY, MAGNETIC PARTICLE	Tensile21
INSPECTION UNIT 10	Torsion
POWER SUPPLY, STRESS AND STRAIN 13	Universal
PRESSURE TESTING MACHINE	STRENGTH OF MATERIALS TESTING
PROCESSING UNIT, X-RAY FILM 8	
PROGRAMMER, CONTROL SYSTEM 9	MACHINE, SEMI-CONDUCTOR DEVICES 10
PROVING RING	SWITCHING AND BALANCING SYSTEM,
Compression Type	STRESS AND STRAIN 9
Universal Type14	SWITCHING AND BALANCING UNIT,
RECORDER, STRESS AND STRAIN.	STRESS AND STRAIN 18
CIRCULAR CHART INK WRITING 12	TANK ASSEMBLY, IMMERSION,
RECORDER, STRESS AND STRAIN, DRUM	ULTRASONIC, FLAW DETECTION 16

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TANK, MASTER, X-RAY FILM	PANTE ON A PART OF A PART
PROCESSING17	ENVIRONMENTAL CHAMBER, HEATING
TESTER, BALL AND ROLLER BEARING,	AND COOLING UNIT 12
PERFORMANCE TYPE 15	ENVIRONMENTAL CHAMBERS, HIGH
TESTER CORROSION	TEMPERATURE, (ALL TYPES)14
TESTER, DYNAMIC MODULES, SONIC	ENVIRONMENTAL CHAMBERS, HIGH
VELOCITY TYPE 5	TEMPERATURE AND HUMIDITY, (ALL
TESTER, HEAT DISTORTION TYPE 17	TYPES)
TESTER, INSTRUMENT BEARING	ENVIRONMENTAL CHAMBER,
TORQUE15	IMMERSION TESTING 4
TESTER, JOURNAL BEARING,	ENVIRONMENTAL CHAMBERS, LOW
PERFORMANCE TYPE22	TEMPERATURE, (ALL TYPES)
TESTER, PLASTIC MATERIALS12	ENVIRONMENTAL CHAMBERS, LOW-HIGH
TESTER, TORQUE, WRENCH TYPE 17	TEMPERATURE, (ALL TYPES)
TESTER, TORSIONAL DAMPING 12	ENVIRONMENTAL CHAMBERS, LOW-HIGH
TESTER, V-BELT, UNIVERSAL TYPE 20	TEMPERATURE AND HUMIDITY, (ALL
TESTING MACHINE, TIRE PRODUCTION	TYPES)
TYPE, AUTOMOTIVE, INDOOR	ENVIRONMENTAL CHAMBERS, OZONE
ENDURANCE, DUAL POSITION21	RESISTANCE
TUBE STAND, INDUSTRIAL X-Ray 15	ENVIRONMENTAL CHAMBERS, RAIN
ULTRASONIC INSPECTION EQUIPMENT11	SIMULATION, (ALL TYPES)
VIEWER, X-RAY FILM	ENVIRONMENTAL CHAMBERS, RAIN
VOLTAGE CHECK PANEL, STRAIN GAGE . 18	AND SUNSHINE, (ALL TYPES)
WEAR TESTING MACHINE20	ENVIRONMENTAL CHAMBERS, SALT
	SPRAY, (ALL TYPES)
FSC 6636 — ENVIRONMENTAL CHAMBERS	AND DUCT (ALL TYPES)
AND RELATED EQUIPMENT	AND DUST, (ALL TYPES)
ACCELERATION TESTING MACHINE,	SINGUINE (ALL DYDES)
CENTRIFUGE TYPE	SUNSHINE, (ALL TYPES)
ENVIKUNMENTAL CHAMPERS	VIBRATION AND TEMPERATURE, (ALL
ACOUSTIC, (ALL TYPES)	TVPES
ENVIRONMENTAL CHAMBER, AIR	TYPES)
HEATING UNIT	SIMULATOR 7
ENVIKUNMENTAL CHAMBERS	ROOMS, SHIELDED, ELECTROMAGNETIC,
ALTITUDE, (ALL TYPES)	WAVE AND/OR ELECTRICAL
ENVIRONMENTAL CHAMBERS	INTERFERENCE, PLATE TYPE, (ALL
ALTITUDE AND TEMPERATURE, (ALL	TYPES)
TYPES)	ROOMS, SHIELDED, ELECTROMAGNETIC
ENVIRONMENTAL CHAMBERS,	WAVE AND/OR ELECTRICAL
ALTITUDE, TEMPERATURE AND	INTERFERENCE, SCREEN TYPE, (ALL
HUMIDITY, (ALL TYPES)	TYPES)
ENVIRONMENTAL CHAMBERS,	ROOMS, SHIELDED, MICROWAVE
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COOLING AND HUMIDITY UNIT 10	ELECTRODYNAMIC TYPE
ENVIRONMENTAL CHAMBERS,	SHAKER, VIBRATION TESTING,
EXPLOSIVE HAZARD, (ALL TYPES) 9	ELECTROHYDRAULIC TYPE 9
ENVIRONMENTAL CHAMBERS,	Shaker, Vibration Testing,
EXPLOSION PROOF TESTING, (ALL	MECHANICAL TYPE12
TYPES)	SLIPTABLE, VIBRATION TESTING 11
ENVIRUNMENTAL CHAMBERS, FUNGUS	TESTING MACHINE, HYDROFOILS 8
RESISTANCE, (ALL TYPES)	The state of the s

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VIBRATION TESTING EQUIPMENT,	VIBRATION TESTING EQUIPMENT,
ACCELERATION LIMITER10	GENERATOR, DUAL NOISE 9
VIBRATION TESTING EQUIPMENT,	VIBRATION TESTING EQUIPMENT,
amplifier, accelerometer	GENERATOR RANDOM NOISE 8
NORMALIZING 6	VIBRATION TESTING EQUIPMENT,
VIBRATION TESTING EQUIPMENT,	MONITOR, SIGNAL
AMPLIFIER, MIXER10	VIBRATION TESTING EQUIPMENT,
VIBRATION TESTING EQUIPMENT,	MULTI-LEVEL 7 VIBRATION TESTING EQUIPMENT,
AMPLIFIER, MONITOR	VIBRATION TESTING EQUIPMENT,
VIBRATION TESTING EQUIPMENT,	OSCILLATOR, CYCLING
AMPLIFIER, NOISE BOOSTER10	VIBRATION TESTING EQUIPMENT,
VIBRATION TESTING EQUIPMENT,	PANEL, CONTROL 8
AMPLIFIER, POWER	VIBRATION TESTING EQUIPMENT,
VIBRATION TESTING EQUIPMENT,	PANEL SWITCH SCANNER 9
AMPLIFIER, SPECTRAL DENSITY 10	VIBRATION TESTING EQUIPMENT,
VIBRATION TESTING EQUIPMENT,	POWER SUPPLY, BOGEN 9
CLIPPER MIXER 18	VIBRATION TESTING EQUIPMENT,
VIBRATION TESTING EQUIPMENT,	POWER SUPPLY, ELECTRONIC 15
CONTROL, CONSOLE 18	VIBRATION TESTING EQUIPMENT,
VIBRATION TESTING EQUIPMENT,	POWER SUPPLY, ROTARY
CONTROL, SHAKER 8	VIBRATION TESTING EQUIPMENT,
VIBRATION TESTING EQUIPMENT,	PROGRAMMER, MULTI-LEVEL 6
CONTROL, SPECTRAL DENSITY	VIBRATION TESTING EQUIPMENT, SCANNER
ANALYZER 9	SCANNER
VIBRATION TESTING EQUIPMENT,	VIBRATION TESTING EQUIPMENT,
DISCRIMINATOR, SINE NOISE 8	SELECTOR AND MIXER
VIBRATION TESTING EQUIPMENT,	VIBRATION TESTING EQUIPMENT,
ELECTROHYDRAULICTYPE10	SELECTOR, CHANNEL MODE 9
VIBRATION TESTING EQUIPMENT,	VIBRATION TESTING EQUIPMENT, SELECTOR, IMPEDANCE
ELECTRONIC, SHAKER-AMPLIFIER,	SELECTUR, IMPEDANCE
REMOTE CONTROL CONSOLE 18	VIBRATION TESTING EQUIPMENT, SELECTOR, METER RANGE 9
VIBRATION TESTING EQUIPMENT,	SELECTOR, METER RANGE
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SELF-CONTAINED	VIBRATION TESTING EQUIPMENT,
VIBRATION TESTING EQUIPMENT,	SERVO SYSTEM 18
EQUALIZER/ANALYZER, LOW	VIBRATION TESTING EQUIPMENT,
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EQUALIZER/ANALYZER, SPECTRAL	SIGNAL SELECTOR11
DENSITY	VIBRATION TESTING EQUIPMENT,
VIBRATION TESTING EQUIPMENT,	SWITCH, SPECTRUM DENSITY
EQUALIZER, GRAPHIC	ANALYZER10
VIBRATION TESTING EQUIPMENT, EQUALIZER, SHAKER14	WIND TUNNEL
EQUALIZER, STARER	WIND TUNNEL, PORTABLE
VIBRATION TESTING EQUIPMENT, EQUALIZER, SPECTRAL DENSITY 9	WIND IUNNEL, FORTABLE
VIBRATION TESTING EQUIPMENT,	FSC 6640 LABORATORY EQUIPMENT
FILTER, ANALYZER	AND SUPPLIES
VIBRATION TESTING EQUIPMENT,	ANALYZER, ENERGY DISTRIBUTION,
FILTER, BANDPASS 7	ELECTRON BEAM, MAGNETIC
VIBRATION TESTING EQUIPMENT, GAIN	DEFLECTION TYPE
REDUCTION CHASSIS	ANALYZER, SURFACE AREA
REMUDIALIUM LELAGOIO	

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ANALYZER SYSTEM, MAGNETIC	ETCHER, METAL SAMPLE PREPARATION.
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ASHER, LOW TEMPERATURE, RADIO	TYPE10
<b>FREQUENCY TYPE</b>	ETCHER, METAL SAMPLE PREPARATION,
<b>BATHS, (ALL TYPES)</b>	SIMULATED DEFECT, ULTRASONIC
BEATER, WOOD PULP, LABORATORY	STANDARD, SPARK EROSION TYPE 10
<b>TYPE</b> 12	EVAPORATOR
BLENDER, LABORATORY14	FERMENTOR SYSTEMS, LABORATORY,
<b>BOXES, DRY, (ALL TYPES)</b>	(ALLTYPES)
BREACHING MACHINE, IMPACT	FILTER CELL MEMBRANE TYPE 10
SPECIMEN, MECHANICAL TYPE 12	FREEZE ETCH APPARATUS
CABINET, CONSTANT TEMPERATURE 11	FREEZER, LABORATORY, ICE SHELL
CENTRIFUGE, ANALYTICAL, OPTICAL	TYPE 19
<b>SYSTEM TYPE</b>	FURNACE, COMBUSTION, MICRO AND
CENTRIFUGE, LABORATORY, (ALL	SEMI-MICRO, PROGRAMMABLE,
TYPES) 16	RADIANT HEAT14
<b>CHAMBER, CLOUD</b> 18	FURNACE, INFRARED, LABORATORY,
CHAMBER, FRACTION COLLECTOR,	REFLECTOR TYPE 10
CONSTANT TEMPERATURE, MOBILE	FURNACE, FREEZING POINT 10
TYPE	FURNACE, LABORATORY, COMBINATION
	VACUUM-CONTROLLED ATMOSPHERE,
CLOUD-ION TYPE 18	ARC MELTING TYPE 12
CIRCULATOR, LABORATORY, (ALL	FURNACE, LABORATORY, COMBINATION
TYPES)	VACUUM-CONTROLLED ATMOSPHERE,
COLUMN, EXTRACTION, LIQUID	TILT TYPE 12
SOLVENTS, CONTINUOUS TYPE 15	FURNACE, LABORATORY, CONTROLLED
COUNTER, COLONY, AUTOMATIC,	ATMOSPHERE, TOP LOADED,
PHOTO-ELECTRIC TYPE10	RESISTANCE TYPE 12
CRYOSTAT, HELIUM 10	FURNACE, LABORATORY, CONTROLLED
CRYOSTAT, NITROGEN	ATMOSPHERE, BOTTOM LOADED,
CUT-OFF MACHINE, METAL SAMPLE	RESISTANCE TYPE 12
PREPARATION, LABORATORY,	FURNACE, LABORATORY, GRAPHITE
ABRASIVE TYPE14	TUBE TYPE (EXCEPT TILT TYPE) 12
CUT-OFF MACHINE, METAL SAMPLE	FURNACE LABORATORY CRADIENT
PREPARATION, LABORATORY,	TYPE 12
DIAMOND WHEEL TYPE 14	FURNACE, LABORATORY, GRAPHITE
CUT-OFF MACHINE, METAL SAMPLE	TUBE, TILT TYPE 12
PREPARATION, LABORATORY, SPARK	FURNACE, LABORATORY. ZONE MELT
EROSION TYPE10	TYPE
DILUTION APPARATUS10	FURNACE, LABORATORY, BUTTON TYPE 12
DISTILLATION APPARATUS,	FURNANCES, TUBE, LABORATORY, (ALL.
Fractionation, Laboratory, High	TYPES)12
TEMPERATURE TYPE12	TYPES)
DRYER, LABORATORY, VACUUM, DOUBLE	ELECTROCHEMICAL TYPE
DRUM TYPE12	GENERATOR, HYDROGEN, LABORATORY
DRYING UNIT, LABORATORY (EXCEPT	TYPE 10
FREEZE TYPE)	GENERATOR, OZONE17
DRYING UNIT, LABORATORY, FREEZE	GREASE WORKER, AUTOMATIC
TYPE	COUNTING TYPE16
ELECTROMAGNET, LABORATORY TYPE . 14	Grinder, flexible material
ELECTROMAGNET SYSTEM,	Sample Preparation, Laboratory,
LABORATORY TYPE14	DISC TYPE 12

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GRINDERS, METAL SAMPLE	POLISH AND ETCH APPARATUS, METAL
PREPARATION, (ALL TYPES)	SAMPLE PREPARATION, LABORATORY,
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HEATER, PLASMA JET, LABORATORY	POROSIMETER10
TYPE12	POTENTIOSTAT 8
HOMOGENIZER, MECHANICAL	POWER SUPPLY, LABORATORY,
OSCILLATOR TYPE10	ELECTROMAGNET TYPE13
HOMOGENIZER, ULTRASONIC	PRESS, SPECIMEN MOUNTING,
OSCILLATOR TYPE11	LABORATORY TYPE 16
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TYPES)14	LABORATORY, HYDRAULIC TYPE 16
INCUBATOR, BACTERIOLOGICAL, (ALL	PRESSURE REACTION APPARATUS,
TYPES)	AUTOCLAVE TYPE 12
INCUBATOR, HORTICULTURAL,	PRESSURE REACTION APPARATUS,
REACH-IN TYPE 10	ROCKER TYPE
INDICATOR, WATER-VAPOR,	PRESSURE REACTION APPARATUS,
COMPRESSED GAS TYPE10	SHAKER TYPE 12
MAGNET SYSTEM SUPERCONDUCTING.	PRESSURE REACTION APPARATUS,
LABORATORY, DOUBLE ACCESS TYPE 9	STIRRER TYPE12
MAGNET SYSTEM, SUPERCONDUCTING.	PRESSURE REACTION APPARATUS,
LABORATORY, SINGLE ACCESS TYPE 8	STATIONARY TYPE 19
MAGNETIC FIELD SYSTEM,	PROCESSOR, TISSUE18
CANCELLATION AND CONTROLLING,	PURIFIER, GAS, RECIRCULATING,
HELMHOLTZ COIL TYPE16	LABORATORY DRY BOX TYPE 10
MAGNETOMETER, VIBRATING SAMPLE 10	RECORDER, STRIP CHART, INK WRITING,
MANIPULATORS, LABORATORY,	BENCH MOUNT, LABORATORY TYPE 10
MASTER-SLAVE, (ALL TYPES)	SAMPLER, AIR, ELECTROSTATIC TYPE 10
MANOMÉTRIC APPARATUS 20	SEPARATOR, MINERAL,
MICROTOME, CRYOSTAT	ELECTROMAGNET, LABORATORY,
MICROTOME, (ALL OTHER TYPES) 12	BENCH TYPE10
MILL, COLLOID, LABORATORY TYPE 12	SHAKER, GENERAL PURPOSE,
MILL, LABORATORY, SOLID MATERIAL,	RECIPROCATING TYPE
SHEARING TYPE	SHAKER, GYROTORY, WATER BATH TYPE 16
MILL, LABORATORY, ROLLER TYPE 12	SOLENOID, AIR CORE
MILL, LABORATORY, SOLID MATERIAL,	STILL, MERCURY
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PNEUMATICTYPE 8 MILL, LABORATORY, MORTER AND PESTLE TYPE 8	SYSTEM, DESSICATOR
PERTIF TYPE	TEST SET, FUEL CONTAMINATION,
mill, Laboratory, solid materials,	CONTINUOUS DUTY TYPE 8 TEST SET, RUBBER, ACCELERATED
MULTIPLE-CHAMBER, VIBRATING	AGING. COMBINATION AIR-OXYGEN,
TYPE 10	
MILLING MACHINE, METAL SAMPLE	BOMB TYPE TEST SET, RUBBER PROCESSIBILITY,
PREPARATION, LABORATORY, CONTOUR	COMBINATION TEST TYPE 12
	TEST STAND, CALIBRATION, PLASMA JET 10
TYPE	TESTER, FLOW FACTOR, PARTICULATE
CONSUMPTION, LABORATORY,	SOLIDS10
BIOLOGICAL TYPE	TESTERS, PROPELLANT, (ALL TYPES) 12
OVEN, DRYING 10	TESTER, THERMAL CONDUCTIVITY,
OXIMETER, CLINICAL, INDICATOR TYPE 10	INSULATING MATERIALS TYPE 14
PENETROMETERS, (ALL TYPES)16	TESTER, THERMAL CONDUCTIVITY,
POLISHERS, METAL SAMPLE	REFRACTORY MATERIALS TYPE 14
PREPARATION, LABORATORY, (ALL	TESTER, THERMAL CONDUCTIVITY,
TYPES)	SOLID MATERIALS TYPE 12

Figure 6B-36. SERVICE LIFE TABLES—continuing

ULTRASHADOWING APPARATUS,	Research15
ELECTRON BEAM TYPE 12	MODULATION TRANSFER FUNCTION
	ANALYZER 7
FSC 6650 — OPTICAL INSTRUMENTS	MONOCHROMATOR
	MONOCHROMATIC LIGHT 7
ABSORPTIOMETER 10	MOUNTING STAND
ANALYZER, MASS, ION PROBE 2	OPTICAL BENCH ASSEMBLY
AUTOCOLLIMATOR	
BORESCOPE	OPTICAL ROTARY TABLE
CALIBRATOR, DETECTOR	OPTICAL STRAIN GAGE
ACCELEROMETER 6	OPTICAL TABLE 5
CATHETOMETER	OPTICAL TOOLING SYSTEM
CLINOMETER	PHOTOMETER
COLLIMATOR	PLOTTER, INFRARED 8
COMPARATOR, MICROGRAPHIC6	POLARIMETER
DENSITOMETER	POLARISCOPE
DENSITOMETER-COMPARATOR21	REFLECTOMETER12
DETECTOR INFRADED	REFRACTOMETER
DETECTOR, INFRARED	SPECTROFLUOROMETER
DISPLACEMENT FOLLOWER	SPECTROGRAPH
ELLIPSOMETER11	SPECTROMETER 12
EXTENSOMETER	SPECTROPHOTOFLUOROMETER 12
	SPECTROPHOTOMETER
Collimating and Repair	Indicating
FLASH PHOTOLYSIS SYSTEM 4	Recording
FLUOROMETER	SPECTROPOLARIMETER11
GAGE, WIPER POSITIONING	SPECTRORADIOMETER 6
GONIOMETER8	SPECTROREFLECTOMETER11
GONIOPHOTOMETER18	SPECTROSCOPE12
HAZEMETER11	SPEROMETER19
INDUSTRIAL PERISCOPE	STRAIGHTEDGE
INTERFEROMETER	TELESCOPE 18
LENS ANALYSIS SYSTEM	TEST COLLIMATOR
LEVEL	TEST FIXTURE
Optical	TEST STAND
Telescopic11	TESTER, DETECTOR RESPONSE
LIGHT BEAM DEVIATION INSTRUMENT . 12	CHARACTERISTICS 6
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MICROANALYZER	TRANSIT SQUARE
Aerosol Deposit	TOO AREA COATED AND DATANCES
Electron Probe 8	FSC 6670 — SCALES AND BALANÇES
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MICROFORGE	CALIBRATOR14
MICROGONIOMETER 7	BALANCE, FILLING TYPE11
MICROMANIPULATOR 11 MICROPHOTOMETER 18	BALANCE, LABORATORY11
MICROPHOTOMETER	BALANCE, SEDIMENTATION TYPE 13
MICROPOSITIONER10	SCALE, AIRCRAFT, LOAD CELL TYPE 16
MICROPROJECTOR14	SCALE, BAGGING TYPE
MICROSCOPE	SCALE, BATCHING TYPE 10
Electron	SCALE, COAL WEIGHING
Interference10	SCALE, CONVEYOR TYPE
Measuring21	SCALE, FUEL WEIGHING 10
Metallurgical	SCALE, GENERAL PURPOSE, LOAD CELL
Polarizing	TYPE 12

Figure 6B-37. SERVICE LIFE TABLES—continuing

SCALE HODDED AND TANK	Immost Panis Time
SCALE, HOPPER AND TANK	Impact-Force Type
SCALE, LABORATORY 9	Mechanical Unbalance Type25
SCALE, LIFT TRUCK 7	Piezo-Electric Type
SCALE, MUNITION FRAGMENT	Portable Type11
WEIGHING 2	CALIBRATOR, FLOWMETER
SCALE, OIL WEIGHING30	Gas Type
SCALE, OVERHEAD, CRANE 19	Liquid Type
SCALE, OVERHEAD, HOPPER AND	CALIBRATOR, TACHOMETER
TANK	CALIBRATOR
SCALE, OVERHEAD, MONORAIL AND	Angular Accelerometer
TRACK	Linear Accelerometer
SCALE, PLATFORM, COUNTING AND	Linear Accelerometer, Mechanical
WEIGHING, BENCH	Unbalance Type
SCALE, PLATFORM, COUNTING AND	CONTROLLER-RECORDER SYSTEM,
WEIGHING, PORTABLE 8	LIQUID FLOW, STRIP CHART, INK
SCALE, PLATFORM, PREDETERMINED	WRITING TYPE 12
WEIGHT, BENCH 13	CONTROLLER-RECORDER, GAS FLOW,
SCALE, PLATFORM, PREDETERMINED	CIRCULAR CHART, INK WRITING TYPE . 10
WEIGHT, PORTABLE10	CONTROLLER-RECORDER, LIQUID FLOW,
SCALE, PLATFORM, WEIGHING,	CIRCULAR CHART, INK WRITING TYPE . 10
AIRPLANE 29	CONTROLLER-RECORDER, LIQUID FLOW,
SCALE, PLATFORM WEIGHING, BENCH 14	STRIP CHART INK WRITING TYPE 12
SCALE, PLATFORM, WEIGHING, MOTOR	CONTROLLER-RECORDER, LIQUID LEVEL,
VEHICLE	STRIP CHART INK WRITING TYPE 10
SCALE, PLATFORM, WEIGHING,	CONTROLLER, ACCELEROMETER,
RAILROAD30	LINEAR, NON-INDICATING, NON-RESET
	TYPE11 CONTROLLER, LIQUID LEVEL,
SCALE, PLATFORM, WEIGHING,	
WAREHOUSE, PORTABLE	NON-INDICATING Float Type21
SCALE, PLATFORM, WEIGHING,	Radiation Type
WAREHOUSE, BUILT-IN TYPE21	CONTROLLER, RATE OF FLOW, GAS RATIO,
SCALE, PLATFORM, WEIGHING,	INDICATING
PORTABLE14	
SCALE, PRICING TYPE	Mechanical Type
SCALE, PROPELLANT CHARGE 6	Pneumatic Type
SCALE, SHELL WEIGHING 19	CONTROLLER, RATE OF FLOW, GAS,
SCALE, WEIGHING AND SORTING TYPE 10	INDICATING, ELECTRICAL TYPE 10
WEIGH CAR23	CONTROLLER, RATE OF FLOW, LIQUID
WEIGHT, DIGITAL READOUT	Indicating, Electrical Type10
INSTRUMENT	Indicating, Pneumatic Type
WEIGHT, TEST LOADING12	Non-Indicating, Pneumatic Type 16
WEIGHT CALIBRATOR 9	CONTROLLER, TACHOMETER,
WEIGHT DETERMINING AND CENTER OF	INDICATING, NON-RESET TYPE 10
GRAVITY LOCATING SYSTEM	COUNTER, MECHANICAL MOTION AND
WEIGHT SET, BALANCE	ROTATION
WEIGHTS, SCALE TESTING 13	Electrical
	Electronic
FSC 6680 = LIQUID AND GAS FLOW,	COUNTER
LIQUID LEVEL, AND MECHANICAL	Electrical, Digital Indicating Type 14
MOTION MEASURING INSTRUMENTS	Electronic, Digital Indicating Type 10
The second secon	FLOWMETER SYSTEM, GAS, RATE,
ANEMOMETERS, (ALL TYPES)	DIFFERENTIAL PRESSURE TYPE 10
CALIBRATOR, ACCELEROMETER	FLOWMETER SYSTEM, LIQUID, RATE
Capacitive Displacement Type	Electrical Type
s apartition of respondential type	minetinent appe

Figure 6B-38. SERVICE LIFE TABLES—continuing

Impeller Type	Electronic, Less Stop Button Type 10
FLOWMETER, GAS, RATE	Electronic, Non-Self Generating Type 80
Electrical Type10	TESTER, ACCELEROMETER
Float Type15	Impact-Force Type 10
Impeller Type10	Impulse Pendulum Type10
FLOWMETER, LIQUID METAL, RATE	Piezo-Electric Type
MAGNETIC TYPE	TESTER, FLOWMETER
FLOWMETER, LIQUID, RATE AND	Gas Type11
TOTALIZING	Liquid Type
Float Type10	TESTER, INSTRUMENT, GAS VOLUME
Impeller Type10	TYPE10
Mechanical Type	TESTER, MECHANICAL MOTION AND
FLOWMETER, LIQUID, RATE	ROTATION
Differential Pressure Type	TESTER, SERVO-VALVE
Electrical Type	Liquid Flow Type
Float Type	Pressure Type
Impeller Type	TESTER, TACHOMETER
Mechanical Type	Bench Type
Positive Displacement Type	Console Type
Scale Balance Type	Portable Type10
FLOWMETER, LIQUID, TOTALIZING	700 4401 PP 700-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Electrical Type	FSC 6685 — PRESSURE, TEMPERATURE,
Mechanical Type	AND HUMIDITY MEASURING AND
TYPE	CONTROLLING INSTRUMENTS
GAGE, LIQUID LEVEL	AMPLIETED CALIDDAMOD DVDVIVAMO
Float Type	AMPLIFIER-CALIBRATOR, PNEUMATIC
Radiation Type	INSTRUMENT, PORTABLE TYPE 10
INDICATOR SYSTEM, MECHANICAL	ANALYZER, MOISTURE
MOTION, LINEAR	DISPLAY
INDICATOR, MECHANICAL MOTION,	BAROMETER
LINEAR-ROTATIONAL11	Mercurial Type16
RECORDER, GAS FLOW, CIRCULAR CHART,	Mercurial, Altitude Test Type
INK WRITING TYPE 19	Standard, Micrometer Type
RECORDER, IMPACT, ONE AXIS	CALIBRATOR-TESTER, TEMPERATURE
Pressure Sensitive Writing Type 16	Bath Type
RECORDER, IMPACT, THREE AXIS 11	Bath Type, Negative Range
RECORDER, LIQUID FLOW, CIRCULAR	Freeze Point Type10
CHART, INK WRITING TYPE18	Infrared Radiometric Comparison Type 13
RECORDER, LIQUID FLOW, STRIP CHART,	Pyrometer Type10
INK WRITING TYPE21	Steam Point Type11
RECORDING SYSTEM, GAS FLOW, STRIP	Thermocouple Type14
CHART, INK WRITING TYPE 10	Thermometer Type
RECORDING SYSTEM, LIQUID FLOW,	CONTROLLER-RECORDER SYSTEM,
CIRCULAR CHART, INK WRITING	PRESSURE 10
TYPE	CONTROLLER-RECORDING SYSTEM,
STANDARD, SECONDARY, AIR FLOW 13	TEMPERATURE11
TACHOMETER Change at the Lord Board Button There	CONTROLLER-RECORDER, DEW POINT 16
Chronometric, Less Reset Button Type 21	CONTROLLER-RECORDER, PRESSURE 14
Electric, Non-Self Generating, Less Stop	CONTROLLER-RECORDER, RELATIVE
Button Type	HUMIDITY10
Type10	CONTROLLER-RECORDER,
*3 be 10	TEMPERATURE

Figure 6B-39. SERVICE LIFE TABLES—continuing

CONTROLLER SYSTEM, TEMPERATURE,	TEST SET, PRESSURE INSTRUMENT, BENCH
ELECTRICAL, INDICATING TYPE 10	TYPE10
CONTROLLER, DEW POINT 10	TEST SET, PRESSURE INSTRUMENT,
CONTROLLER, PRESSURE 10	PORTABLE TYPE10
CONTROLLER, RELATIVE HUMIDITY 12	TEST SET, VACUUM INSTRUMENT 10
CONTROLLER, TEMPERATURE	TEST STAND, PRESSURE AND VACUUM
Electrical, Indicating Type	INSTRUMENT TYPE
Electrical, Non-Indicating Type	TEST STAND, PRESSURE INSTRUMENT 12
Pneumatic, Indicating Type 10	TEST STAND, VACUUM INSTRUMENT 10
CONVERTER, SIGNAL, PNEUMATIC TO	TESTER, FLOW LEAKAGE, FULL
ELECTRICAL 10	PRESSURE FLYING OUTFIT
GAGE, COMPOUND, PRESSURE AND	TESTER, PRESSURE INSTRUMENT,
VACUUM	DIFFERENTIAL TYPE
GAGE, PRESSURE 10	TESTER, PRESSURE, DEAD WEIGHT TYPE 14
GAGE, VACUUM13	1201011, 1 112000 RE, DEAD WEIGHT TYPE: 14
INDICATOR, ABSOLUTE HUMIDITY 12	FSC 6695 — COMBINATION AND
INDICATOR, DEW POINT	MISCELLANEOUS INSTRUMENTS
INDICATOR, PRESSURE	MICCELLANEOUS INSTRUMENTS
Differential Type10	AMPLIFIERS, (ALL TYPES)
Digital Readout Type 10	AMPLIFIER SYSTEMS, (ALL TYPES) 10
Electrical Type	ANALYZERS, (ALL TYPES)
INDICATOR, RELATIVE HUMIDITY10	BRIDGE
INDICATOR, TEMPERATURE	Balance, Strain Gage Transducer 12
Dial Face Type	All Other Types
Differential Type10	CABINET, DYNAMOMETER CONTROL 20
Digital Type	CALIBRATION SETS, (ALL TYPES) 10
MANOMETER	CALIBRATOR, TRANSDUCER, BRIDGE
Digital Type 10	TYPE
Electronic Type14	CATHODE FOLLOWER, PIEZOELECTRIC
U Tube Type	TRANSDUCER TYPE
Vertical Tube Type	CATHODE FOLLOWER SYSTEM,
MEASURING SYSTEM, PRESSURE 12	PIEZOELECTRIC TRANSDUCER TYPE 12
MISSILE CRADLE LEAK DETECTOR, FLOW	COMPARATOR SYSTEM, INFRARED
MEASURING TYPE	RADIATION-REFLECTOMETER TYPE 1.10
PYROMETER 14	CONDITIONER SYSTEM, SIGNAL
RECORDER	TRANSDUCER 10
Absolute Humidity 10	CONDITIONER, SIGNAL, TRANSDUCER 10
Relative Humidity	CONTROL, CURRENT INTEGRATOR.
RECORDER, DEW POINT	INDICATING TYPE
RECORDER, PRESSURE	CONTROLLERS, (ALL TYPES)
RECORDER, TEMPERATURE14	CONVERTER, TRANSDUCER, FREQUENCY
RECORDING SYSTEM, DEW POINT 19	TO DC10
RECORDING SYSTEM, PRESSURE10	CONVERTER SYSTEM, TRANSDUCER,
RECORDING SYSTEM, TEMPERATURE 10	FREQUENCY TO DC
REFERENCE JUNCTION, THERMOCOUPLE	COUNTERS, SEED, PHOTOELECTRIC, (ALL
Elevated Temperature Type	TYPES)
Ice Point Type 10	DEMODULATORS, TRANSDUCER OUTPUT,
SOURCE, BLACKBODY, TEMPERATURE	(ALL TYPES)
TYPE 11	DETECTOR
TEMPERATURE MEASURING SYSTEM 10	Oil In Compressed Gas
TEST SET, COMBINATION PRESSURE AND	Tramp Metal, Electromagnetic, Conveyor
VACUUM, PORTABLE TYPE	Type, Rectangular Coil, Single Unit 14
	comments on only in the contract of the contra

Figure 6B-40. SERVICE LIFE TABLES—continuing

Tramp Metal, Electromagnetic, In-Line	All Other Types14
Type, Spool Piece Coil	MONITOR, MACHINE, COMBINATION AXIAL
DYNAMOMETERS, ABSORPTION, (ALL	AND RADIAL VIBRATION14
TYPES)	MONITORS, VIBRATION, (ALL TYPES) 12
DYNAMOMETERS, CHASSIS, (ALL TYPES) 20	OSCILLATOR-CARRIER, TRANSDUCER 16
DYNAMOMETER, MOTORING AND	OSCILLATOR-DEMODULATOR, CRYSTAL
ABSORPTION TYPE	CONTROLLED16
DYNAMOMETER, MOTORING, DIRECT	PHOTOMETERS, (ALL TYPES)
CURRENT TYPE20	PHOTOMETERS SYSTEM, (ALL TYPES) 14
DYNAMOMETER, SINGLE TIRE, CARRIAGE	POWER SUPPLY ELECTROSTATIO OLLAROR
DRIVE20	POWER SUPPLY, ELECTROSTATIC CHARGE
INDICATORS, (ALL TYPES)	AMPLIFIER TYPE
LIGHT SYSTEM, TUNGSTEN, CALIBRATED	RADIOMETER, QUANTUM
TYPE16	RECORDER, DISSOLVED
MEASURING SYSTEM, MECHANICAL	OXYGEN-TEMPERATURE TYPE 16
IMPEDANCE14	SAMPLER, LIQUIFIED GAS, CRYOGENIC
METER, PEAK HOLDING,	TYPE14
ACCELEROMETER12	SCALES, DYNAMOMETER, DIAL
METERS, FOOT CANDLE, (ALL TYPES) 16	INDICATING, (ALL TYPES)
METER SYSTEM, PEAK HOLDING	TEST SET, RECORDING, EMISSIVITY AND
ACCEL EDOMETER	COLOR, PYROTECHNIC TYPE 14
ACCELEROMETER 12	TEST SETS, TORQUE, (ALL TYPES) 18
METER, TRANSDUCER, ACCELEROMETER	TEST STAND
TYPE	Demand Oxygen Regulator
METER, WIRE AND CABLE MEASURING 20	All Other Types
MICROMETER, ELECTRONIC, MUTUAL	TEST STATION
INDUCTANCE	Gyro Torque 18
MONITOR SYSTEM	Torque, Controlling and Recording 20
Indicating-Controlling-Recording, Panel	TORQUEMETERS, DYNAMIC.
Type12	(ALL TYPES)16

## Appendix 6C CHART PERCENTAGE TABLE

CHART	r Per	CENTA	GE	TABLE	Ē

SERVICE LIFE (Years)	CHART PERCENT
5	40.0
6	33.3
7	28.6
8	25.0
9	22.2
10	20.0
11	18.9
12	16.7
13	15.4
14	14.3
15	13.3
16	12.5
17	11.8
<b>18</b> ,	11.1
19	10.5
20	10.0
21	9.5
22	9.1
23	8.7
24	8.3
25	8.0

Figure 6C-1. CHART PERCENTAGE TABLE

		ANALYSIA NUMBER		1	***************************************
INDUSTRIAL PLANT EQUIPMEN	T	999099-0001			
REPLACEMENT ANALYSIS WORKSHI		DATE		Perm Appr Buddet Bu	ovod rosu No. 22-R179
REPLACEMENT ANALYSIS WORKSHI	EE 1	25 Aug 71			
1. ACTIVITY S.	LOCATION	1 25 Aug 71		3- SHOP	4- BUILDING NO
ABC Arsenal	Daver	port, Iowa		K	225
PRESENT EQUIPMENT		S. DESCRIPTION	PROPOSI	C EQUIPMENT	
	"swg x 192	1			
192" CC, 15 hp 2. Lathe, 16" swg x 5	swg x 192	" Lathe, engi 32" swg o/b		-	ontrolled
. MANUFACTURE	ODEL NO.	S. MANUFACTURER			C. MODEL NO.
	. X . CW	R.K. LeBlon	de Mch :	rool Co.	NT 3220
d. PLANT EQUIPER CODE 7 1 -2112-219		d. PLANT EQUIPMENT	CODE		
3416-2112-192 3413-2111-0 3		3416-2143	-2072		
OF DEPARTMENTA IL VEAT CONTINUE ACTION NOT ACTION STATEMENT ACTION NOT ACTION STATEMENT ACTION NOT ACTION STATEMENT ACTION ST	ANTITY	e. QUANTITY		CTIVITY INCRE	ASE RATIO
3416-16760 19 \$23,8	, , 3	1		2.59:1	
3416-17660 IN TING	T ANALYSIS &	UIVALENT OUTP	UT (Ment Yo	·ar)	
CTOR		PRESENT EQUI			ED EQUIPMENT
. MACHINE LOAD (Noure next year)			9480		3660
D. DIRECT LABOR \$3.54/hr	1	34 517		13,436	
e. INDIRECT LABOR 1768 of Direct	Lab	60,750		23,647	***************************************
d. FRINGE BENEFITS 28.6% of Direct	Labo	1 9 372		s 3,843	
. MAINTENANCE		2.86		s 605	
I. POWER		1,5		1,679	
d. SCRAP/REWORK		s 646			
h. TOOLING				<b>s</b> 460	
/. SAVINGS/OTHER OPERATIONS, ASSEMBLY		2,10		• 🔨	
. OTHER COSTS		300		<b>A</b>	1
k. TOTAL OPERATING COSTS		12.37		43,670	<del></del>
I. NET OPERATING COSTS FAVORING PROPOSED €	QUIPMENT (A,	col a, minus ( ol b)	00,72	<b>3</b>	
	ANALYSIS OF	PROPOSED OU TEN	T (Nost You	7)	
ACQUISITION COST				108,175	3.
. INSTALLATION, TRANSPORTATION AND MISCELL	AMEOUS COST			\$ 2,000	
c. TOTAL INSTALLED COSTS (Se plus 86)				110,175	5
d. PRESENT DISPOSAL VALUE OF PRESENT EQUIP	MENY	```		s 7,130	
. NET REQUIRED INVESTMENT (Sc minus gd)	···			103,045	<u> </u>
SERVICE LIFE				10	Yeare .
1. CHART PERCENT				20	
h. <i>Total Capital Cost (80 x 8<u>4)</u> B. Next Years Savings from Replacement (71 x</i>	-1			<b>8</b> 20,609	
F. GOO! TEAMS SAVINGS FROM REPLACEMENT (7) #	ninus Sh)			48.118	

Figure 6D-1. CHART PERCENTAGE TABLE

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