

Includes Semitrailers; Semitrailer Dollies; Cargo Trailers; Passenger and House Trailers; Special Purpose Trailers, such as Ammunition.

Excludes Fire Fighting Trailers; Specially designed trailers for use in and around airfields, hangars, and warehouses.

- 2340 Motorcycles, Motor Scooters, and Bicycles
NOTE: This class includes only complete motorcycles, complete motor scooters, and complete bicycles. End items, assemblies, parts, attachments, or accessories for use in or on motorcycles, motor scooters, or bicycles are classified in classes other than this class. *Includes* Sidecars; Tricycles.
Excludes Children's Wheeled Goods.

- 2350 Combat, Assault, and Tactical Vehicles, Tracked
NOTE: This class includes only complete combat, assault, and tactical tracked vehicles, and chassis therefor. Any end items, assemblies, parts, attachments, or accessories, other than complete chassis, for use in or on such vehicles are classified in classes other than this class.
Includes Tanks and Tracked Self-Propelled Weapons and Vehicles with or without amphibian capabilities; Armored Halftracks; Self-Propelled Sleds; and Self-Propelled Flame Throwers.
Excludes Wheel Mounted Vehicles.

GROUP 24 Tractors

NOTE: This group includes only complete tractors and tractor chassis. Assemblies, subassemblies, parts, attachments or accessories are excluded from this group.

- 2410 Tractors, Full Tracked, Low Speed
NOTE: This class includes only complete low speed, full track tractors, and chassis therefor. Any end items, assemblies, parts, attachments, or accessories, other than complete chassis, for use in or on low speed, full track tractors are classified in classes other than this class.
Excludes High Speed Tractors (FSC Class 2430); Armored Dozer-Scraper Combina-

tion Tractors (FSC Class 2350).

- 2420 Tractors, Wheeled
NOTE: This class includes only complete wheeled tractors, and chassis therefor. Any end items, assemblies, parts, attachments, or accessories, other than complete chassis, for use in or on wheeled tractors, are classified in classes other than this class.
Includes Agricultural Tractors; High Speed Tractors; Industrial Tractors.
Excludes Aircraft Towing Tractors and Crashed Aircraft Moving Tractors (FSC Class 1740); Aircraft Towing-Power Servicing Tractors (FSC Class 1730); Warehouse Tractors (FSC Class 3930).

- 2430 Tractors, Full Tracked, High Speed
NOTE: This class includes only complete high speed track laying tractors, and chassis therefor. Any end items, assemblies, parts, attachments, or accessories, other than complete chassis, for use in or on high speed track laying tractors, are classified in classes other than this class.
Excludes Low Speed Tractors (FSC Class 2410); Armored Dozer-Scraper Combination Tractors (FSC Class 2350).

GROUP 25 Vehicular Equipment Components

NOTE: The term "vehicular", as delimited for group 25, is applicable to those vehicles and tractors included in groups 23 and 24, construction vehicles, and warehouse trucks, tractors, and trailers; it does not apply to railway vehicles, aircraft, and watercraft. An item of supply which is a "vehicular" component, within the scope of group 25 (as delimited above) is classified in this group, regardless of whether it has additional applications on vehicles outside the delimitations for this group.

- 2510 Vehicular Cab, Body, and Frame Structural Components
Includes Leaf Type Vehicular Springs; Suspension Type Shock Absorbers.
Excludes Vehicular Hardware; Specialized Vehicular Furniture.
- 2520 Vehicular Power Transmission Components

Includes Transfer Transmission Assemblies; Clutch Assemblies; Universal Joints; Propeller Shafts; Automotive Torque Converters; Power Takeoffs.

2530 Vehicular Brake, Steering, Axle, Wheel, and Track Components
Includes Turret Brakes; Clutch Brakes, Tank Turret.

2540 Vehicular Furniture and Accessories
Includes Automobile Seat Covers; Shock Absorber, Bumper Windshield Wipers; Bumper Guards; Mirrors, Rear View and Side View; Vehicle Heaters; Vehicular Furniture.
Excludes Speedometers, Suspension Type Shock Absorbers.

2590 Miscellaneous Vehicular Components
Includes Attachments for Tanks, Self-propelled Weapons, and High Speed Tractors; A-frames and Winches specifically designed for truck mounting; Cranes and Crane Booms for Wrecker Trucks.

GROUP 26 **Tires and Tubes**

2610 Tires and Tubes, Pneumatic, Except Aircraft
Excludes Aircraft Pneumatic Tires and Tubes.

2620 Tires and Tubes, Pneumatic, Aircraft

2630 Tires, Solid and Cushion
Includes Rubber Track Laying Treads.

2640 Tire Rebuilding and Tire and Tube Repair Materials
Includes Tread Gum; Cold Patches; Friction Cord Fabric; Vulcanizing Patches; Padding Stock; Quick-Cure Gum; Tire and Tube Repair Kits; Camelback; Valves; Valve Cores.
Excludes Vulcanizing Machinery and Equipment.

GROUP 28 **Engines, Turbines, and Components**

2805 Gasoline Reciprocating Engines, Except Aircraft; and Components

Includes Gas Reciprocating Engines; All Gasoline Reciprocating Engines except Aircraft Prime Moving.

Excludes Engine Accessories.

2810 Gasoline Reciprocating Engines, Aircraft; and Components
Includes Only Aircraft Prime Mover type.
Excludes Engine Accessories.

2815 Diesel Engines and Components
Includes Automotive, Industrial, Marine, Locomotive, and all other types of Diesel and Semi-Diesel Engines.
Excludes Engines Accessories.

2820 Steam Engines, Reciprocating; and Components

2825 Steam Turbines and Components
Includes Mercury Vapor Turbines.

2830 Water Turbines and Water Wheels; and Components

2835 Gas Turbines and Jet Engines, Except Aircraft; and Components
Includes All Gas Turbines and Jet Engines except Aircraft and Guided Missile Prime Moving; Airborne auxiliary and Ground Gas Turbine Power Units for Aircraft Engine Starting. *Excludes* Engine Accessories.

2840 Gas Turbines and Jet Engines, Aircraft; and Components
Includes Reservoirs, Hydraulic Tank, Oil; Turbo-jet and Turbo-prop Prime Movers of Aircraft and Guided Missiles.
Excludes Engine Accessories.

2845 Rocket Engines and Components
Includes Rocket Prime Movers, Liquid Type, including Liquid JATO Units, for use in aircraft, rockets, and guided missiles; Liquid Propellants encased in consumable containers, intended for insertion into missile propulsion systems as integral parts.
Excludes Rocket Motors (Solid Propellant Units); Liquid Propellants predetermined to specific quantity and quality, but packaged in reusable containers; Solid Propellant Squibs and Cartridges, whether intended for

insertion into Liquid Propellant Systems or not.

2850 Gasoline Rotary Engines and Components

2895 Miscellaneous Engines and Components
Includes Wind and Compressed Air Engines.

GROUP 29 Engine Accessories

NOTE: Unless specifically excluded, engine accessories for all vehicles, such as aircraft, motor vehicles, ships, tractors, and construction vehicles, as well as accessories for stationary engines, are classified in this group.

2910 Engine Fuel System Components, Nonaircraft
Includes Carburetors; Fuel Pumps; Engine Fuel Filters; Fuel Tanks; Components for all engines except Aircraft and Guided Missile Prime Moving.

2915 Engine Fuel System Components, Aircraft
Includes Carburetors; Fuel Pumps; Engine Fuel Filters; Fuel Controls, Jet Engine; Fuel Primers; Water Injection Controls and Valves; Fuel Valves and Strainers; Fuel Flow Regulators; Smoke Abatement Systems; Components of Aircraft and Guided Missile Prime Mover Type only.
Excludes Aircraft Fuel Tanks; Aircraft Auxiliary Engine Components; In-flight Refueling System Fuel Components.

2920 Engine Electrical System Components, Non-aircraft
Includes Generators, Magnetos, Spark Plugs; Ignition Coils; Ignition Distributors; Engine Voltage Regulators; Ignition Harness Assemblies; Starting Motors for Engines.
Excludes Vehicular Lighting Fixtures and Aircraft Generators.

2925 Engine Electrical System Components, Aircraft
Includes Magnetos; Spark Plugs; Ignition Coils; Ignition Distributors; Engine Voltage Regulators; Ignition Harness Assemblies; Starting Motors for Engines; Engine Accessory Generators.
Excludes Aircraft Lighting Fixtures and

Auxiliary Aircraft Generators.

2930 Engine Cooling System Components, Non-aircraft
Includes Cooling Fans; Radiators; Water Pumps; Water Hose Assemblies; Engine Coolant Filters; Components for all Engines except Aircraft and Guided Missile Prime Moving.

2935 Engine Cooling System Components, Aircraft
Includes Radiators; Cooling System Pumps; Water Hose Assemblies; Lubricating Oil Coolers and Control Valves; Oil Temperature Regulators; Components for Aircraft and Guided Missile Prime Mover type only.
Excludes Aircraft Auxiliary Engine Components.

2940 Engine Air and Oil Filters, Strainers, and Cleaners, Nonaircraft
Includes Components for all Engines except Aircraft and Guided Missile Prime Moving.
Excludes Air and Oil Filters, Strainers, and Cleaners not specifically designed for use with engines.

2945 Engine Air and Oil Filters, Strainers, and Cleaners, Aircraft
Includes Components for Aircraft and Guided Missile Prime Mover type only.
Excludes Air and Oil Filters, Strainers, and Cleaners not specifically designed for use with engines; Aircraft Auxiliary Engine Components.

2950 Turbosuperchargers
Includes Turbosupercharged Regulators; Ground and Aircraft Engine Turbosuperchargers.
Excludes Engine Integrated Superchargers.

2990 Miscellaneous Engine Accessories, Non-aircraft
Includes Engine Dynafocal Suspension Mounts; Engine Driven Superchargers (not integrated with engine); Starter Cranks; Engine Starter Ropes; Exhaust Mufflers; Hand Inertia Starters; Air Duct Heaters; Engine Governors; Intake Mufflers; Combustion Type Starters; Miscellaneous Accessories for all Engines except Aircraft and Guided Missile Prime Moving.

Excludes Electrical Starters.

- 2995 Miscellaneous Engine Accessories, Non-aircraft
Includes Engine Dynafocal Suspension Mounts; Engine Cowling Mounts; Engine Mounted Control Assemblies; Pneumatic Starters; Control Assemblies, Push-Pull; Specially designed Jet Engine Oil, Air, Anti-icing and Hydraulic Regulators, Valves, and Pumps; Combustion Type Starters; Miscellaneous Accessories for Prime Mover type Guided Missile.
Excludes Exhaust System; Jet Engine Oil Pumps, Integral with Engine; Jet Engine Hydraulic Reservoirs; Jet Engine Oil Tanks; Electrical Starters; Cockpit Mounted Control Quadrants; Aircraft Auxiliary Engine Accessories; Aircraft Engine Covers.

GROUP 30

Mechanical Power Transmission Equipment

- 3010 Torque Converters and Speed Changers
NOTE: Items specifically designed for specific use on or with specific individual types of equipment are excluded from this class and are to be classified in the same classes as their next higher assemblies. The FSC indexes and structure will govern the classification of those items permitted classification in a single class only.
Includes Fluid Couplings; Nonvehicular Clutches and Couplings; Horizontal Right Angle Drive Gear Units.
Excludes Automotive Torque Converters; Vehicular Power Transmission Components; Rotary Aircraft Transmission Gear Units.
- 3020 Gears, Pulleys, Sprockets, and Transmission Chain
NOTE: Items specifically designed for specific use on or with specific individual types of equipment are classifiable in this class. The FSC indexes and structure will govern the classification of items such as sash pulleys (FSC class 5340). The transmission chain included in this class may be in bulk, cut-to-size, or endless.
Includes Power Transmission Chain; Matched Gear Sets.
Excludes Reduction Gears.

- 3030 Belting, Drive Belts, Fan Belts, and Accessories

NOTE: This class includes belting, drive belts, and fan belts regardless of whether specifically designed for a specific use or for multiapplication. Items included in the class may be in bulk, cut-to-size, or "endless".

- 3040 Miscellaneous Power Transmission Equipment

NOTE: Items specifically designed for specific use on or with specific individual types of equipment are excluded from this class and are to be classified in the same classes as their next higher assemblies. The FSC indexes and structure will govern the classification of those items permitted classification in a single class only.
Includes Shafts and Shafting; Collars; flexible Shafting.

GROUP 31

Bearings

NOTE: All bearings, whether specially designed, specially lubricated, or specially selected, are classified in the appropriate classes of this group, unless specifically excluded, such as jewel bearings (FSC class 6695).

- 3110 Bearings, Antifriction, Unmounted
Includes Ball Bearings; Roller Bearings; Balls; Races.
Excludes Plain Bearings; Jewel Bearings.
- 3120 Bearings, Plain, Unmounted
Includes Sleeve Bearings; Split Bearings; Washer Type Bearings.
Excludes Antifriction Bearings.
- 3130 Bearings, Mounted
Includes Pillow Block Units; Cartridge Units; Flange Units; Takeup Units; Hanger Box Units; Flat Box Units; Step Box Units.

GROUP 32

Woodworking Machinery and Equipment

- 3210 Sawmill and Planing Mill Machinery
- 3220 Woodworking Machines

Includes Mortisers; Tenoners; Veneer Lathes.

Excludes Hand Held Power Driven Tools; Hand Held Tools Operated by Flexible Shaft.

- 3230 Tools and Attachments for Woodworking Machinery
Includes Circular and Band Saw Blades; Cutter Heads; Jointer and Notcher Heads; Cutters.
Excludes Hand Turning Tools.

GROUP 34
Metalworking Machinery

- 3405 Saws and Filing Machines
Includes Cut off Machines; Saw Blade Dressing Machines; Retooling Machines.

- 3408 Machining Centers and Way-Type Machines
NOTE: The following definitions apply to "machining centers" and "way-type machines".
a. "Machining Center", refers to a multipurpose numerically controlled machine tool for the complete and automatic machining of parts requiring multiple operations such as milling, drilling, tapping, boring, and reaming, having an integral tool storage device and an integral means for positioning various faces of the work piece. It must have facilities for automatic interchanging of varied cutting tools between successive operations. Excluded from this class are multipurpose numerically controlled machine tools, such as Boring-Drilling-Milling Machines, which require the use of an attachment or accessory for tool storage and/or to position the various faces of a work piece. These types of equipment are classified in other appropriate classes within group 34.
b. "Way-Type Machine", refers to a special machine tool of station type design consisting of individually mounted self-contained machining units and facilities for indexing the work piece to each station in a predetermined sequence. The machining unit(s) may be disassembled and rearranged to accommodate different work piece configurations. Machine is capable of performing single or multiple operations on the work

piece simultaneously or in sequence to each station.

- 3410 Electrical and Ultrasonic Erosion Machines
Includes Electrical Discharge Machines; Electrolytic Grinding Machines.
- 3411 Boring Machines
- 3412 Broaching Machines
- 3413 Drilling and Tapping Machines
Includes Multiple Spindle Drilling-Tapping Machines.
Excludes Way-Type Machines.
- 3414 Gear Cutting and Finishing Machines
- 3415 Grinding Machines
Excludes Electrolytic Grinding Machines.
- 3416 Lathes
Includes Screw Machines.
Excludes Speed Lathes; Metal Spinning Lathes; Cartridge Case and Shell Lathes.
- 3417 Milling Machines
- 3418 Planers and Shapers
Includes Combination Shaper-Planers.
Excludes Gear Shapers; Planer Type Milling Machines.
- 3419 Miscellaneous Machine Tools
Includes Gun Rifling Machines; Speed Lathes.
- 3422 Rolling Mills and Drawing Machines
- 3424 Metal Heat Treating and Non-Thermal Treating Equipment
Includes Hardening, Annealing, Tempering, Normalizing, Cyaniding, and Carburizing Equipment; Furnaces, Flue Welding, Non-Thermal Stress Relieving Systems.
- 3426 Metal Finishing Equipment
Includes Galvanizing, Tinning, Oiling, Pickling; Electroplating, and Anodizing Equipment.
- 3431 Electric Arc Welding Equipment

- Includes* Gas Shielded Arc Welding Machines; Arc Bonding Machines; Semi-Automatic and Automatic Arc Welding Machines. *Excludes* Welding Supplies, and Associated Equipment such as: Flux Recovery Machines; Flux Dispensers; Tacker Panels; Welding Panels.
- 3432 Electric Resistance Welding Equipment
Includes Electric Resistance Brazing Machines; Band Saw Brazers; Stored Energy Resistance Welding Machines.
Excludes Electric Induction Brazing and Soldering Machines.
- 3433 Gas Welding, Heat Cutting, and Metalizing Equipment
Includes Metal Spray Guns; Arc Cutting Machines; Torches and Tips; Gas Brazing Machines; Flame Cutting Machines; Vacuum Metalizers; Spark Discharge Metalizers.
Excludes Welding Supplies; Disintegrating Machines.
- 3436 Welding Positioners and Manipulators
Includes Welding Tables.
- 3438 Miscellaneous Welding Equipment
Includes Thermit Welding Equipment; Flux Recovery Machines; Flux Dispensers; Arc Converters; Welding Panels.
- 3439 Miscellaneous Welding, Soldering, and Brazing Supplies and Accessories
Includes Soldering Irons; Welding Electrodes and Rods; Brazing Fluxes; Soldering Fluxes; Solder.
- 3441 Bending and Forming Machines
Excludes Wire and Metal Ribbon Forming Machines.
- 3442 Hydraulic and Pneumatic Presses, Power Driven
Includes Metal Powder Compacting Presses.
- 3443 Mechanical Presses, Power Driven
Includes Metal Powder Compacting Presses.
- 3444 Manual Presses
- Includes* Arbor, Straightening, Forcing, and Assembly Presses.
- 3445 Punching and Shearing Machines
- 3446 Forging Machinery and Hammers
Excludes Forging Presses.
- 3447 Wire and Metal Ribbon Forming Machines
Excludes Roll Forming Machines.
- 3448 Riveting Machines
Excludes Power Driven Hand Riveting Machines.
- 3449 Miscellaneous Secondary Metal Forming and Cutting Machines
Includes Metal Spinning Lathes.
- 3450 Machine Tools, Portable
Includes Portable Abrasive Cutting Machines; Portable Drilling Machines; Portable Slotters and Shapers.
Excludes Stationary Type Machine Tools mounted on portable devices such as wheel or leg type stands.
- 3455 Cutting Tools for Machine Tools
Includes Broaches; Files; Milling Cutters; Reamers; Saws.
Excludes Flame Cutting Tools.
- 3456 Cutting and Forming Tools for Secondary Metalworking Machinery
- 3460 Machine Tool Accessories
Excludes Abrasive Wheels, Cones, and other Abrasive Attachments for use only on Hand Held Power Tools.
- 3461 Accessories for Secondary Metalworking Machinery
Excludes Parts Feeders.
- 3465 Production Jigs, Fixtures, and Templates
NOTE: This class includes jigs, fixtures, and templates used in conjunction with the metalworking machinery classified in group 34. Jigs, fixtures, and templates used in con-

junction with maintenance and repair shop specialized equipment are classified in group 49.

3470 Machine Shop Sets, Kits, and Outfits

GROUP 35

Service and Trade Equipment

3510 Laundry and Dry Cleaning Equipment
Includes Washing Machines; Extractors; Wringers; Drying Tumblers; Ironers; Presses; Starching Machines; Marking Equipment; Mobile Laundry and Dry Cleaning Units.

3520 Shoe Repairing Equipment
Includes Shoe Sewing Machines; Mobile Shoe Repair Shops.

3530 Industrial Sewing Machines and Mobile Textile Repair Shops
Excludes Shoe Sewing Machines.

3540 Wrapping and Packaging Machinery
Includes Filling Machines; Container Capping Machines; Label Applying Machines; Package Sealing Machines; Paperboard Box, Case and Tray Making Machines; Strapping Machines; Stapling Machines, except Office Type.
Excludes Paperboard Manufacturing Machinery.

3550 Vending and Coin Operated Machines
Includes Fare Recording Devices; Parking Meters; Turnstiles; Coin Operated Phonographs.
Excludes Coin and Currency Handling Machines; Coin Operated Scales.

3590 Miscellaneous Service and Trade Equipment
Includes Manicure Tables.

GROUP 36

Special Industry Machinery

3605 Food Products Machinery and Equipment
Includes Industrial Food Product Equipment.

Excludes Kitchen and Galley Equipment.

3610 Printing, Duplicating, and Bookbinding Equipment
Includes Offset Presses; Typesetting Machinery; Bookbinding Machinery; Photoengraving Machinery; Printing Type; Rules; Leads, Slugs; Line Gages; Quoins; Plate Hooks; Gelatine Process Machines; Spirit Process Machines; Stencil Process Machines; Offset Process Machines; Photostat Machines; Blueprint Printing and Developing Machines; Print Shop Furniture.
Excludes Microfilm Machines.

3611 Industrial Marking Machines
NOTE: Marking machines which make permanent indentations in metal are classified in group 34.
Excludes Marking Machines, Laundry; Printing Machine, Label; Printing Press, Label; Embossing Machines, Office Type and Marking Machines, Office Type.

3615 Pulp and Paper Industries Machinery
Includes Chippers; Digestors; Beaters; Bleaching Equipment; Paperboard Manufacturing Machinery.
Excludes Paperboard Box, Case and Tray Making Machines.

3620 Rubber and Plastics Working Machinery
Includes Plasticators; Presses; Synthetic Rubber Working Machinery; Tread Extruding Machinery; Vulcanizing Machinery.
Excludes Protective Covering Laminating Presses; Tire Maintenance and Repair Equipment.

3625 Textile Industries Machinery
Includes Cotton Ginning Machinery; Looms; Button Covering Machines; Rope Laying Machines; Lace Machines.

3630 Clay and Concrete Products Industries Machinery
Includes Brickmaking Machinery.

3635 Crystal and Glass Industries Machinery
Includes Optical Goods Manufacturing Machinery.
Excludes Ophthalmic Lens Cutting, Drilling,

Edging, and Grinding Machines; Specialized Semiconductor, Microcircuit, and Printed Circuit Board Manufacturing Machinery.

3640 Tobacco Manufacturing Machinery

3645 Leather Tanning and Leather Working Industries Machinery

3650 Chemical and Pharmaceutical Products Manufacturing Machinery
Includes Crushers and Mills for Chemical Materials; Pharmaceutical Briquetting and Tableting Presses; Chemical Explosives Manufacturing Machinery.
Excludes Construction Materials Crushers, Mills and Pulverizers; Plastics Products Manufacturing Machinery; Pharmaceutical Products Wrapping and Packaging Machinery; Laboratory and Shop Type Mills and Mixers.

3655 Gas Generating and Dispensing Systems, Fixed or Mobile

NOTE: Included in this class are gaseous dispensing systems, both mobile and installed.

Includes liquefied gaseous storage tanks, mounted on a common base with, or integral to, gas generating equipment included in this class. Also includes those liquefied gaseous storage tanks, either trailer mounted or skid mounted, used to store liquefied gaseous products until needed. Excluded from this class are those storage tanks designed to be used as an integral part of guided missile propellant servicing trailers, rocket power plants or test stations, and aircraft oxygen converters which are classified as specified by the indexes and structure of the FSC.

Excludes Meteorological Equipment.

3660 Industrial Size Reduction Machinery

NOTE: This class includes general use machinery related to two or more manufacturing industries.

Excludes Chemical Products and Construction and Mining Type Crushing, Pulverizing, Screening and Mixing Machinery; Maintenance and Repair Shop Type Mixers.

3670 Specialized Semiconductor, Microcircuit,

and Printed Circuit Board Manufacturing Machinery

NOTE: This class includes, and is restricted to, equipment specifically designed for manufacturing semiconductor devices (class 5961), microcircuits (class 5962), and printed circuit boards (class 5998). Excludes items for which more suitable classes are specifically prescribed by the indexes and structure of the FSC.

Includes Substrate Preparation Equipment; Circuit Pattern Forming Equipment; Interconnecting and Packaging Equipment.
Excludes Assembly Machines for Mounting Discrete Components on Printed Wiring Boards.

3680 Foundry Machinery, Related Equipment and Supplies

Includes Molding Machines; Tumbling Mills, Foundry Dextrine; Core Paste.
Excludes Crucible Furnaces; Cupola Furnaces; Foundry Hand Tools.

3685 Specialized Metal Container Manufacturing Machinery and Related Equipment

NOTE: This class includes only those machines specifically designed for manufacturing metal containers. Closing machines designed to seam the tops of filled containers will be classified in class 3540.

Includes Drum and Jerrican Manufacturing Machinery; Specially Designed Container Leak Testing Machines; Can Making Machinery.

3690 Specialized Ammunition and Ordnance Machinery and Related Equipment

Includes Ammunition and Explosives Loading (Filling and Assembling) Specialized Machinery; Small Arms Ammunition Manufacturing Machinery; Artillery and Anti-Aircraft Shell Manufacturing Machinery.
Excludes Ammunition and Weapons Maintenance and Repair Shop Specialized Equipment; Nonspecialized or Standard Machinery not designed exclusively for manufacturing or assembling ammunition and ordnance equipments.

3693 Industrial Assembly Machines

NOTE: This class includes equipment specifically designed to assemble pre-fabricated

components without further design machining of the components. Equipment designed to perform combined machining and assembling operations which result in material removal are classified in classes other than this class. Also excluded are items for which more specific classifications are suitable.

Includes Industrial Production Type Power Screwdriving Machines; Circuit Card Assembly Machines.

Excludes Specialized Ammunition and Ordnance Assembly Machines; Wrapping and Packaging Machinery; Metalworking Machinery; Hand Tools.

3694 Clean Work Stations, Controlled Environment, and Related Equipment
Includes Laminar and Non-Laminar Flow Enclosures; Dust Controlled Facilities; Air Showers.

3695 Miscellaneous Special Industry Machinery
Includes Communication Wire Dispenser Fabricating Machinery; Specialized Logging Equipment; Petroleum Refinery Machinery; Shoemaking Machinery; Production Type Impregnating Equipment.
Excludes Ophthalmic Lens Cutting and Grinding Machinery; Clothing Impregnating Equipment.

GROUP 37

Agricultural Machinery and Equipment

3710 Soil Preparation Equipment
Includes Planting Equipment; Cultivating Equipment.

3720 Harvesting Equipment
Includes Threshers; Hullers; Feed Cutters; Grading and Cleaning Farm Machinery.

3730 Dairy, Poultry, and Livestock Equipment

3740 Pest, Disease, and Frost Control Equipment

3750 Gardening Implements and Tools
Includes Garden Tractors, Walking Type; Lawn Mowers, Powered and Nonpowered; Hedge Trimmers; Lawn Seeders; Fertilizer Spreaders; Gardening Rakes, Forks,

Hoes, and Other Garden Tools.

3760 Animal Drawn Vehicles and Farm Trailers
Includes Buggies; Carriages; Wagons; Sleighs.

3770 Saddlery, Harness, Whips, and Related Animal Furnishings.
Includes Dog Harnesses; Leads.

GROUP 38

Construction, Mining, Excavating, and Highway Maintenance Equipment

3805 Earth Moving and Excavating Equipment
Includes Scrapers; Ditchers; Loaders; Graders; Special Construction Type Earth and Rock Hauling Trucks and Trailers; Special Individual Work and Power Sections of Construction Equipment with a quick connect/disconnect capability. The Power Section is designed to be coupled with a Work Section to form a functional piece of Construction Equipment.
Excludes Standard Tractors with or without Attachments; Trailers, except Special Construction Type; Dump Trucks; Crane-Shovels.

3810 Cranes and Crane-Shovels
Includes Tracklaying and Wheeled Construction Type Convertible Cranes or Shovels; Nonconvertible Mobile Cranes.
Excludes Barge Mounted Cranes; Crane and Crane-Shovel Attachments.

3815 Crane and Crane-Shovel Attachments
Includes Shovels; Fairleads; Buckets; Skull Crackers; Booms; Lifting Electromagnets.

3820 Mining, Rock Drilling, Earth Boring, and Related Equipment
Includes Quarrying and Crushing Equipment; Minerals Classifying and Separating Equipment; Pulverizing and Screening Equipment; Cable Tool and Rotary Drilling Equipment; Well Drilling Equipment; Fishing Tools; Paving Breakers.
Excludes Attachments for Mounting on Tractors or Trucks.

- 3825 Road Clearing and Cleaning Equipment
Includes Motorized Sweepers; Motorized Snowplows; Motorized Street Sprinklers; Road Marking Machines.
Excludes Standard Tractors with Road Clearing or Cleaning Attachments; Timber Sawing Equipment.
- 3830 Truck and Tractor Attachments
Includes Equipment for Mounting on Trucks and Tractors, such as Bulldozers, Augers, Blades, Snowplows, Sweepers, Road Magnets, Water Distributors, Cranes; Winches for Integral Mounting on Trucks or Tractors.
Excludes Power Take Off Units; Attachments for Tanks, Self-Propelled Weapons, and High Speed Tractors; A-frames and Winches specifically designed for truck mounting; Cranes and Crane Booms for Wrecker Trucks; Special Individual Work and Power Sections of Construction Equipment with a quick connect/disconnect capability.
- 3835 Petroleum Production and Distribution Equipment
Includes Well Heads; Pumping Equipment; Gas Distribution Equipment.
Excludes Cable Tool and Rotary Drilling Equipment; Petroleum Bulk Storage Tanks.
- 3895 Miscellaneous Construction Equipment
Includes Asphalt Elevators; Asphalt Heaters; Asphalt Kettles; Asphalt Transfer Equipment; Batching Plants; Stabilizing and Compacting Equipment; Concrete Mixers (All Types); Concrete Vibrators; Bituminous and Concrete Pavers; Asphalt Distributors; Sheepsfoot Rollers; Rooters; Rippers; Pile Drivers; Bitumen Heaters; Cable Laying, Lashing, Spinning, and Reeling Equipment.
Excludes Earth Moving and Excavating Equipment; Pile Driving Attachments for Cranes and Crane-Shovels; Special Individual Work and Power Sections of Construction Equipment with a quick connect/disconnect capability.

GROUP 39
Materials Handling Equipment

NOTE: Excluded from this group are specialized atomic ordnance and guided missile handling equipment and airfield specialized trucks and trailers.

- 3910 Conveyors
Includes Pneumatic Tube Systems; Portable, Stationary, Powered, and Nonpowered Conveyors; Conveyor Feeders.
Excludes Asphalt Elevators.
- 3915 Materials Feeders
NOTE: Materials handling equipment included in this class is restricted to those materials feeders and parts feeders that serve as a conveying device, and by which the rate of delivery of bulk materials, packages, or objects may be controlled. Items included in this class are synchronized with companion machinery, feeding predetermined amounts, by volume, of specific materials accurately and continuously from storage bins or hoppers to process or mixing machines, and are interchangeable between machines. Excluded from this class are conveyor feeders (i.e., apron, belt, chain, flight, pan, etc., adapted for feeder service) that are classifiable in class 3910 and/or class 3895, as appropriate.
Includes Dry Materials Feeders; Parts Feeders.
Excludes Aggregate and Fines Feeders; Conveyor Feeders; Water Purification Dry Chemical Feeders.
- 3920 Materials Handling Equipment, Nonself-Propelled
Includes Dolly Trucks; Pushcarts; Handcarts; Wheelbarrows; Hand Trucks; Materials Handling Trailers.
Excludes Conveyors.
- 3930 Warehouse Truck and Tractors, Self-Propelled
Includes Jockeys; Fork Lift Trucks; Platform Trucks, Straddle Trucks.
- 3940 Blocks, Tackle, Rigging, and Slings
Excludes Load Chain; Chain and Metal Rope Fittings; Wire Rope; Hoists; Ship Rigging.

- 3950 Winches, Hoists, Cranes, and Derricks
Includes Windlasses, Capstans, Ore Bridges; Gypsies, Warehouse Cranes; Wharf Cranes; Mobile or Fixed; Overhead Traveling Cranes.
Excludes Crane-Shovels; Railroad Wreckers; Barge Mounted Cranes; Winches for Integral Mounting on Trucks or Tractors; Locomotive Cranes.
- 3960 Elevators and Escalators
Excludes Automotive Lifts; Asphalt and Aggregate Elevators.
- 3990 Miscellaneous Materials Handling Equipment
Includes Skids; Pallets.
Excludes Airfield Engine Transport Skids.

GROUP 40

Rope, Cable, Chain, and Fittings

- 4010 Chain and Wire Rope
NOTE: Chain or wire rope, fitted with terminations or attachments, is classified in this class only when it has multiple uses (falling into two or more classes), has general use, or has a specific use which does not provide an appropriate classification (such as one which couples dissimilar items without being predominantly related to either of the items being coupled). Excluded from the class are items for which more specific classifications are suitable. The FSC indexes and structure will govern the classification of those items permitted classification in a single class only.
Includes Wire Chain; Load Chain; Chain and Wire Rope Assemblies with Terminations and/or Attachments, not elsewhere classifiable.
Excludes Power Transmission Chain.
- 4020 Fiber Rope, Cordage, and Twine
NOTE: Fiber rope, fitted with terminations or attachments, is classified in this class only when it has multiple uses (falling into two or more classes), has general use, or has a specific use which does not provide an appropriate classification. Excluded from the class are items for which more specific classifications are suitable.
Includes Halyards; Lashing; Ratline; Towline; Hawsers; Lanyards; Textile Rope; Tex-

tile Cable; Nylon Rope; Rope with Terminations and/or Attachments, not elsewhere classifiable.

- 4030 Fittings for Rope, Cable, and Chain

GROUP 41

Refrigeration, Air Conditioning, and Air Circulating Equipment

- 4110 Refrigeration Equipment

NOTE: This class includes only complete refrigeration equipment, whether refrigerated from an integral or remote mechanical refrigeration unit or system. Also included in this class are refrigeration plants, and complete "packaged" refrigeration units and systems containing a power driven compressor, condenser, evaporator, and all other necessary components to refrigerate an enclosed space. Nonoperating accessories such as ice trays, shelves, and panels are included in this class. Excluded from this class are operating components, assemblies, parts, attachments, or accessories, for use in or on complete refrigeration equipment, plants, systems, or the "packaged" refrigeration units, and which are to be classified in class 4130, or as *otherwise* specifically prescribed by the indexes and structure of the FSC.

Includes Grocery Type Display Cases; Ice Cream Cabinets; Drinking Fountains (except portable and stationary types classified in class 4510); Professional and Scientific Refrigerators; Rivet Coolers; Photographic Refrigerators; Mortuary Refrigerators; Household and Commercial Refrigerators; Grocery Type Showcases; and other types of refrigeration equipment of the commissary or food store type.

Excludes Cafeteria Type Refrigerated Display Cases; Soda Fountains; Milk, Soda, and/or Ice Cream Dispensers; Cold Food Counters; Carbonators; Combination Heated-Refrigerated Food Serving Equipment; Cafeteria Type Showcases; Chilling Equipment Used for Display and Serving of Food (see class 7310 for these items). Also excluded from this class are refrigeration components (see class 4130).

- 4120 Air Conditioning Equipment

NOTE: This class includes only complete air conditioning equipment, systems, and plants. Also included are specially designed nonoperating accessories such as a window panel used with a window type air conditioning unit to facilitate mounting. Excluded from this class are operating components, assemblies, parts, attachments, or accessories for use in or on air conditioning equipment, which are to be classified in class 4130, or as otherwise specifically prescribed by the indexes and structure of the FSC.

Includes Store Type Units; Window and Room Type Units; Marine, and Vehicular Air Conditioning Units; Air Conditioning Plants and Systems.

Excludes Air Conditioning Components (see class 4130, or as otherwise specifically prescribed by the indexes and structure of the FSC).

4130 Refrigeration and Air Conditioning Components

Includes Heat Exchanger Equipment; Refrigerant Strainers; Refrigeration Compressors; Air Conditioning and Refrigeration Servicing Equipment, such as Charging and Testing Manifolds, Lines and Units; Operating Components of Refrigeration and Air Conditioning Equipment, Plants, and Systems classified in classes 4110 and 4120.

Excludes Refrigeration and Air Conditioning Plants (see classes 4110 and 4120); Collections of Refrigeration Components "packaged" as a unit including a refrigeration compressor, condenser, evaporator, etc., specifically designed and tailored for applications such as walk-in type refrigerators. Individual components of the "packaged" unit will be classified in class 4130, or as otherwise specifically prescribed by the indexes and structure of the FSC. The complete "packaged" unit will be classified in class 4110.

4140 Fans, Air Circulators, and Blower Equipment

NOTE: Fans and impellers which are specifically designed for use with specific individual types of equipment are to be classified in the same classes as their next higher assemblies or in the appropriate components or accessories classes (as in group 25 or 29 or class 1680) as prescribed by the indexes

and structure of the FSC.

Includes Wall Type Fans; Pedestal Type Fans; Household Type and Attic Type Exhaust Fans; Floor Fans; Forced Draft Exhaust and Disposal Kits; Fans; Air Circulators, and Blower Equipment, whether designated as "industrial" or "nonindustrial" by application and/or use.

Excludes Combination Heater-Fans (see class 4520).

GROUP 42

Fire Fighting, Rescue, and Safety Equipment

4210 Fire Fighting Equipment

Includes Fire Extinguishers; Fire Axes; Fire Rakes; Fire Beaters; Fire Trucks; Fire Hose; Play Pipes; Hose Fittings having one or more Fire Hose End Connections; Fire Hose Reels; Fire Fighting Trailers; Fire Hydrants; Sprinkler Heads.

Excludes Wrecking Bars.

4220 Marine Lifesaving and Diving Equipment

Includes Diving and Salvage Apparatus, including Pressurized Divers' Suits; Rescue Nets, Buoyant; Inflatable Life Vests; Life Rafts.

Excludes Lifesaving Boats.

4230 Decontaminating and Impregnating Equipment

NOTE: Excludes production type equipment designed for impregnation of metal castings and electronic components, processing of leather and textiles, and for similar industrial processing operations.

4240 Safety and Rescue Equipment

Includes Portable Fire Escapes; Safety Nets, Nonbuoyant.

Excludes Divers' Suits; Fixed Fire Escapes.

GROUP 43

Pumps and Compressors

NOTE: This group excludes pumps and compressors designed for use on individual types of equipment, such as engine fuel pumps, aircraft propeller feathering pumps, fork lift operating pumps, compressors for operating gun turrets, and vehicular

brake system compressors. Also excluded are items specially designed as or for use on fuel dispensing equipment. The FSC indexes and structure will govern the classification of those items permitted classification in a single class only.

- 4310 Compressors and Vacuum Pumps
Includes Truck Mounted and Trailer Mounted Compressors.
Excludes Refrigeration Compressors.
- 4320 Power and Hand Pumps
Excludes Laboratory Jet Pumps.
- 4330 Centrifugals, Separators, and Pressure and Vacuum Filters
Excludes Laboratory Centrifuges; Water Purification Filters.

GROUP 44

Furnace, Steam Plant, and Drying Equipment; and Nuclear Reactors

- 4410 Industrial Boilers
Includes Steam Boilers, over 15 pounds WSP; Marine Boilers; Boiler Drums; Water Heaters, Low Pressure (over 100 gallon recovery capacity).
- 4420 Heat Exchangers and Steam Condensers
- 4430 Industrial Furnaces, Kilns, Lehrs, and Ovens
Includes Crucible Furnaces; Cupola Furnaces.
Excludes Food Industry Ovens; Metal Heat Treating Furnaces; Laboratory Type Furnaces.
- 4440 Driers, Dehydrators, and Anhydrators
Includes Evaporators.
- 4460 Air Purification Equipment
Includes Electronic Precipitators; Dust Collection Equipment.
Excludes Fan and Blower Equipment (see class 4140); Air Conditioning Equipment (see class 4120).
- 4470 Nuclear Reactors

NOTE: This class includes all types of nuclear reactors and those items which are specifically designed for use within nuclear reactors, their primary cooling systems, auxiliary fluid systems, special propulsion plant systems, handling and servicing equipment, electrical and control systems, and associated special test and water chemistry control items. Excluded from this class are those items for which more specific classifications are suitable.

Includes Refueling Machines; Ion Chamber Seals; Thermal Barriers; Control Rods; Steam Generators, Pressurized Water; Reactor Vessel Shells; Handling Carts; Hoisting Units, New and Spent Cartridges.

GROUP 45

Plumbing, Heating, and Sanitation Equipment

- 4510 Plumbing Fixtures and Accessories
Includes Soap Dishes and Dispensers; Towel Racks; Plumbing Fixture Trim such as Faucets, Shower Heads, Flush Valves, Stop Valves; Dispensers for Salt Tablets, Paper Cups, Toilet Seat Covers, Towels, and Toilet Paper; Sinks.
Excludes Fittings and Specialties for Hose, Pipes and Tubes.
- 4520 Space Heating Equipment and Domestic Water Heaters
Includes Hot Water Boilers (through 30 pounds water pressure); Steam and Vapor Boilers (15 pounds WSP and under); Radiators; Electric and Nonelectric Space Heaters; Warm Air Pipe and Pipeless Furnaces; Fireplace Heaters; Domestic Water Storage Tanks (through 100 gallon capacity); Water Heaters (through 100 gallon recovery capacity).
Excludes Vehicle Heaters; Aircraft Heaters.
- 4530 Fuel Burning Equipment Units
Includes Oil Burners; Stokers; Gas Burners.
- 4540 Miscellaneous Plumbing, Heating, and Sanitation Equipment
Includes Incinerators; Destructors; Septic Tanks; Garbage Disposal Units.

GROUP 46

Water Purification and Sewage Treatment Equipment

- 4610 Water Purification Equipment
Includes Filtration Equipment, Water Stills, Lifesaving.
Excludes Water Purification and Softening Compounds.
- 4620 Water Distillation Equipment, Marine and Industrial.
Excludes Water Stills, Lifesaving; Laboratory Distillation Apparatus.
- 4630 Sewage Treatment Equipment

GROUP 47

Pipe, Tubing, Hose, and Fittings

- 4710 Pipe and Tube
Includes Metal Pipe and Tube; Rigid Pipe and Tube of plastic, synthetic rubber, or other nonmetallic material for other than underground, electric, or laboratory use; fabricated fuel lines.
Excludes Nonmetallic Pipe and Conduit for Underground Use; Electrical Conduit; Laboratory Tubes.
- 4720 Hose and Tubing, Flexible
NOTE: Bulk or cut-to-size flexible hose and tubing without terminations, when not indexed in other classes, are classified in this class regardless of special design.
Includes Metallic and Nonmetallic Flexible Hose and Tubing; Hydraulic, Air, Chemical, Fuel, and Oil Hose Assemblies.
Excludes Hose assemblies with one or more Fire Hose End Connections; Textile and Paper Tubes and Tubing; Electrical Conduit.
- 4730 Fittings and Specialties; Hose, Pipe, and Tube
Includes Plumbing Fittings and Specialties; Lubrication Fittings; Pipe Joints, including Expansion Joints; Exhaust Heads; Flow Nozzles; Water Columns; Nonmetallic Fittings for other than underground, electrical, or laboratory use.
Excludes Hose Fittings having one or more Fire Hose End Connections; Railing Fittings;

Conduit Boxes and Fittings; Nonmetallic Fittings for Underground Use; Fittings for Laboratory Apparatus; Machine Thread Bushings, Magnetic and Nonmagnetic Machine Thread Plugs.

GROUP 48 Valves

NOTE: This group excludes valves designed for use on individual types of equipment or systems. Excluded are such items as tire valves, engine intake and exhaust valves, carburetor valves, water mixing valves, and flush valves.

- 4810 Valves, Powered
Includes Electric Motor Operated Valves; Hydraulic Operated Valves; Solenoid Operated Valves.
Excludes Engine Intake and Exhaust valves; Valves specifically designed for use with fire fighting equipment, plumbing equipment, and the like.
- 4820 Valves, Nonpowered
Includes Automatic Nonpowered Valves; Gate, Globe, Angle, Check, and Relief Valves; Cocks.
Excludes Fire Hydrants; Sprinkler Heads; Valves specifically designed for use with fire fighting equipment, plumbing equipment, and the like.

GROUP 49

Maintenance and Repair Shop Equipment

NOTE: Specialized equipment which is designed for automotive maintenance and repair, and which is also used for the maintenance and repair of non-automotive vehicles or equipment, will be classified in class 4910.

Jigs, fixtures, and templates used in conjunction with maintenance and repair shop specialized equipment are classified in this group. However, jigs, fixtures, and templates used in conjunction with metalworking machinery are classified in group 34.

Infrared assemblies, subassemblies, and components specifically designed as test and maintenance specialized equipment are classified in the appropriate classes of this group. Excluded from this group is infrared equipment designed for testing communications

and night vision equipment.

4910 Motor Vehicle Maintenance and Repair Shop
Specialized Equipment

Includes Automotive Lifts; Wheel Aligners; Brake Service Equipment; Tire Maintenance and Repair Equipment; Test stands and test equipment specially designed for use with motor vehicles.

Excludes Hand Tools; Lubrication and Fuel Dispensing Equipment; Basic types of electrical and electronic test instruments, including those specially designed, such as ammeters, voltmeters, ohmmeters, multimeters, and similar instruments, as shown in the indexes to the FSC.

4920 Aircraft Maintenance and Repair Shop
Specialized Equipment

Includes Maintenance stands designed for support of aircraft assemblies during repair or overhaul; Test Stands and Test Equipment specially designed for maintenance and repair of aircraft components such as: engines, generators, hydraulic systems, armament, automatic pilot, fire control, flight control and navigational systems.

Excludes Hand Tools; Airfield Maintenance Platforms; Basic types of electrical and electronic test instruments, including those specially designed, such as ammeters, voltmeters, ohmmeters, multimeters, and similar instruments, as shown in the indexes to the FSC; Test Apparatus used for both communications and other electrical and electronic equipment.

4921 Torpedo Maintenance, Repair, and Checkout
Specialized Equipment

Includes Specially designed maintenance, test, checkout, and repair shop specialized equipment for maintenance and repair of torpedoes, torpedo components; adapters, fixtures, inspection and holding fixtures, leveling jack assemblies, fuel filling and syphon assemblies, control surface adapter and protractor assemblies, afterbody cradle adapter and tilting mount assemblies, high pressure air heater assemblies, motor drier and puller assemblies, test stand levels and stands for overhaul, maintenance, test, checkout, and repair of torpedo and torpedo components, test panels, fixtures, and test sets for electri-

cal circuits, firing circuits and torpedo test sets.

Excludes Specially designed maintenance test, checkout and repair shop specialized equipment for maintenance and repair of ammunition, guided missiles, rockets, fire control, space vehicles, underwater mines, depth charges and nuclear ordnance. Also excludes "basic" types of electrical and electronic test instruments, such as ammeters, voltmeters, ohmmeters, multimeters, galvanometers and similar instruments.

4923 Depth Charges and Underwater Mines
Maintenance, Repair, and Checkout Specialized
Equipment

Includes Specially designed maintenance, test, checkout and repair shop specialized equipment for maintenance and repair of depth charges and underwater mines; adapters, inspection, test and holding fixtures; stands for overhaul, maintenance, test, checkout, and repair of underwater mines and depth charges; test fixtures, panels plus assemblies and test sets for leak test, pressure test, firing circuits and timing devices. *Excludes* Specially designed maintenance, test, checkout, and repair shop equipment designed for nuclear ordnance, guided missiles, ammunition, torpedoes, rockets, fire control, space vehicles and "basic" types of electrical and electronic test instruments.

4925 Ammunition Maintenance, Repair, and
Checkout Specialized Equipment

Includes Specially designed maintenance, test, checkout, and repair shop specialized equipment, for maintenance and repair of ammunition items; adapters; ammunition feeders and hoppers; inspection and holding fixtures; linkers, linkers-delinkers, and delinkers to assemble and disassemble ammunition belts; surveillance ovens; explosimeters; primer firing device fixtures; mandrels; repositioning machines; gas bomb service kits; test fixtures; panels; plug assemblies; and test sets for ammunition maintenance, checkout and repair.

Excludes Maintenance, repair, checkout and test equipment specially designed for use with guided missiles, guided missile remote control systems, guided missile systems; fire control; nuclear ordnance; rockets, under-

water mines and depth charges; torpedoes; space vehicles and test equipment for aircraft weapon launchers; basic types of electrical and electronic test instruments, such as ammeters, voltmeters, ohmmeters, multimeters, and similar instruments, as shown in the indexes to the FSC.

4927 Rocket Maintenance, Repair and Checkout Specialized Equipment
Includes Specially designed maintenance, test, checkout, and repair shop specialized equipment for maintenance and repair of rockets and rocket components; rocket maintenance stands; test stands; fixtures; jigs; and shop equipment designed for maintenance and repair of rockets, rocket motors and other rocket components.

Excludes Specially designed maintenance, test, checkout, and repair shop equipment specifically designed for nuclear ordnance, guided missiles, fire control, torpedoes, underwater mines, depth charges, ammunition, space vehicles; test equipment for aircraft rocket launchers and "basic" types of electrical and electronic test instruments, such as ammeters, voltmeters, ohmmeters, multimeters, galvanometers and similar instruments.

4930 Lubrication and Fuel Dispensing Equipment
Includes Hand Grease Guns; Centralized Lubrication Systems; Hydrostatic Lubricators; Oil and Gasoline Dispensing Pumps; Fuel Oil Dispensing Pumps; Hand Oilers; Grease Dispensers; Pressure Gun Attachments; Sight Feed Lubricators.
Excludes Alemite and Lubrication Fittings.

4931 Fire Control Maintenance and Repair Shop Specialized Equipment
Includes Specially Designed Test Equipment, Maintenance Fixtures and Stands.
Excludes Instruments for use on both Fire Control and other Equipment; Airborne Fire Control Maintenance and Repair Shop Equipment.

4933 Weapons Maintenance and Repair Shop Specialized Equipment
Includes Maintenance Stands, Fixtures, and Jigs.
Excludes Atomic Ordnance Maintenance and Repair Shop Specialized Equipment;

Airborne Weapons Maintenance and Repair Shop Equipment.

4935 Guided Missile Maintenance, Repair, and Checkout Specialized Equipment
Includes Checkout equipment and test equipment specially designed for use with guided missiles and guided missile remote control systems.
Excludes Specially designed internal (built-in) checkout equipment for guided missile remote control systems; Basic types of electrical and electronic test instruments, including those specially designed, such as ammeters, voltmeters, ohmmeters, multimeters, and similar instruments, as shown in the indexes to the FSC; Test Apparatus used for both communications and other electrical and electronic equipment.

4940 Miscellaneous Maintenance and Repair Shop Specialized Equipment
Includes Paint Spraying Equipment.
Excludes Hand Tools.

4960 Space Vehicle Maintenance, Repair, and Checkout Specialized Equipment
Includes Checkout and Test Equipment specially designed for use with Space Vehicles, including Remote Control Systems.
Excludes Checkout and Test Equipment used with both Guided Missiles and Space Vehicles; Specially designed Internal (built-in) Checkout Equipment for Remote Control Systems; Basic types of Electrical and Electronic Test Instruments, including those specially designed, such as ammeters, ohmmeters, multimeters, and similar instruments, as shown in the indexes to the FSC.

GROUP 51 Hand Tools

5110 Hand Tools, Edged, Nonpowered
Includes Chisels; Files; Pipe Cutters; Rasps; Saws; Screw Plates; Axes; Hatchets; Machetes.

5120 Hand Tools, Nonedged, Nonpowered
Includes Hammers; Picks; Pliers, except pliers for cutting only; Screwdrivers; Shovels; Construction Rakes, Forks and Hoes; Jacks,

including Contractors' Jacks; Wrecking Bars; Glue Pots; Blowtorches.
Excludes Craftsman's Measuring Tools; Gardening Rakes, Forks, Hoes, and other Garden Tools.

- 5130 Hand Tools, Power Driven
Includes Drills; Riveters; Portable Electric Saws; Pneumatic Tools; Abrasive Wheels, Cones and other Abrasive Attachments for use only on Hand Held Power Tools.
- 5133 Drill Bits, Counterbores, and Countersinks; Hand and Machine
- 5136 Taps, Dies, and Collets; Hand and Machine
Excludes Punching, Stamping, and Marking Dies.
- 5140 Tool and Hardware Boxes
- 5180 Sets, Kits and Outfits of Hand Tools

NOTE: This class includes sets, kits, and outfits consisting of several different items classifiable either in a single class or in several classes. Excluded from this class are sets, kits, and outfits consisting of variations (such as size or color) of an item. Classify these items in the same class as the individual item.

GROUP 52 Measuring Tools

- 5210 Measuring Tools, Craftsmen's
NOTE: This class does not include special inspection gages, which are classified in class 5220.
Includes Calipers; Levels; Micrometers; Plumb Bobs; Precision Tapes; Squares; Angle Gages; Center Gages; Depth Gages; Draw Gages; Drill Point Gages; Fillet and Radius Gages; Glaziers' Gages; Height Gages (Vernier); Planer Gages; Rivet Selector Gages; Saw Tooth Set Gages; Screw Pitch Gages; Surface Gages; Telescoping Gages; Thickness Gages; Tube Bead Gages; Tube Flare Gages; Twist Drill Gages; Twist Drill and Rod Gages; Twist Drill and Tap Gages; Taper-Wire-Thickness Gages; Wire Gages; Tool Setting Planer and Shaper Gages; Gage Blocks.

- 5220 Inspection Gages and Precision Layout Tools
NOTE: Special inspection gages are included in this class.
Includes Go and Not-Go Gages, including Plug, Ring, Snap, Thread, and Length Gages; Profile Gages; Fixture Gages; Special Inspection Gages.

- 5280 Sets, Kits, and Outfits of Measuring Tools

GROUP 53 Hardware and Abrasives

- 5305 Screws
- 5306 Bolts
- 5307 Studs
- 5310 Nuts and Washers
Excludes Thrust Washers.
- 5315 Nails, Keys, and Pins
Includes Dowel Pins, Metal; Leader Pins; Split Pins; Shafting Keys; Shafting Pins; Spikes, except Railroad; Tacks; Staples, Nonoffice type; Brads.
Excludes Railroad Spikes.
- 5320 Rivets
- 5325 Fastening Devices
Includes Eyelets; Grommets; Aircraft Cowl-ing Fasteners; Textile Fasteners.
- 5330 Packing and Gasket Materials
Includes General Purpose Oil and Grease Seals and Retainers; Bibb Washers; Oakum; Specialized Bulk Packing and Gasket Materials; Gasket Strip and Tape; Prefabricated Gaskets and Seals designed for a single specific application.
- 5335 Metal Screening
Includes Insect Screening; Industrial Metal Cloth and Mesh.
Excludes Fencing.
- 5340 Miscellaneous Hardware
Includes Cabinet Hardware; Casters; Door Closers; Hinges; Locks; Turnbuckles; Casket Hardware; Trunk and Luggage Hardware;

of which has an application in cryptologic equipment, covered by class 5810, and the other in radar equipment covered by class 5840. Consequently the name CODER, AUDIO FREQUENCY is an entry under each of the two classes.

When an item identification bears a name which is indexed under more than one class of group 58, or in group 58 and in some other group, the item will be classified in the same class as its next higher assembly in the manner described in the Department of Defense, Defense Integrated Data System (DIDS) Procedures Manual, DoD 4100.39-M.

Also excluded from this group are data transmission and communications equipment such as terminals, sensors, and other devices designed for use with a configuration of ADPE.

- 5805 Telephone and Telegraph Equipment
- 5810 Communications Security Equipment and Components
- 5811 Other Cryptologic Equipment and Components
- 5815 Teletype and Facsimile Equipment
Includes Ticker Tape and Sigot Equipment.
- 5820 Radio and Television Communication Equipment, Except Airborne
Includes Telemetry Equipment.
Excludes Home Type Radio and Television Equipment.
- 5821 Radio and Television Communication Equipment, Airborne
Includes Telemetry Equipment.
- 5825 Radio Navigation Equipment, Except Airborne
Includes Loran Equipment; Shoran Equipment; Direction Finding Equipment.
- 5826 Radio Navigation Equipment, Airborne
Includes Loran Equipment; Shoran Equipment; Direction Finding Equipment.
- 5830 Intercommunication and Public Address Systems, Except Airborne
Includes Wired Audio Systems; Office Type Systems; Shipboard Systems; Tank Systems.
- 5831 Intercommunication and Public Address

Systems, Airborne

- 5835 Sound Recording and Reproducing Equipment
Excludes Phonographs, Home Type; Dictating Machines.
- 5836 Video Recording and Reproducing Equipment
- 5840 Radar Equipment, Except Airborne
NOTE: Radar assemblies and subassemblies designed specifically for use with fire control equipment or guided missiles are excluded from this class and are included in the appropriate classes of group 12 or group 14.
- 5841 Radar Equipment, Airborne
NOTE: Radar assemblies and subassemblies designed specifically for use with fire control equipment or guided missiles are excluded from this class and are included in the appropriate classes of group 12 or group 14.
- 5845 Underwater Sound Equipment
NOTE: This class excludes items specifically designed for fire control sonar systems.
Includes Sonar Equipment; Underwater Listening Equipment; Sonobuoys; Sonobuoy Launchers; Fathometers; Sofar Equipment.
- 5850 Visible and Invisible Light Communication Equipment
NOTE: This class includes only communication types of infrared equipment. Excluded from this class are infrared assemblies, subassemblies, and components designed specifically for use in fire control systems, guided missile systems, test and maintenance specialized equipment, night vision equipment, and other noncommunication types of equipment.
Includes Heliographs.
- 5855 Night Vision Equipment, Emitted and Reflected Radiation
NOTE: This class includes image forming devices and associated aids, their subassemblies and components, utilizing passive and/or active techniques for detection, observation, and identification of terrain and objects at night, while maintaining conceal-

ment afforded by darkness. Includes items having multiapplication for purposes of fire control, and/or night observation, and/or detection. Excluded from this class are items for which more specific classifications are suitable as prescribed by the structure and indexes of the FSC.

Includes Sighting and Observation Devices; Target Detectors; Locators and Viewers utilizing radiation projected from near infrared sources and/or utilizing low level natural radiation as reflected from an object(s). Also included are associated Radiation Sources, Image Converter and Intensifying Tubes; Power Supplies and other components specifically designed for Night Vision use; Sighting and Observation Devices; Target Detectors and Locators; Remote Viewing Systems utilizing heat radiation emitted from an object(s); associated Solid State Radiation Intensifiers; Photoconductors; Heat Sensitive Tubes, Cells, and Elements, and other components specifically designed for Night Vision Equipment. Also includes items having the combined capability of utilizing both reflected and emitted radiation.

Excludes Optical sighting devices which incorporate both day and night viewing characteristics within an integral unit for fire control purposes, nonnight vision type items designed for use with guided missiles, communications, or laboratory equipment, and Optical Elements, such as Lens, Prisms, Windows.

5860 Stimulated Coherent Radiation Devices, Components, and Accessories

NOTE: This class includes, and is restricted to, devices the operation of which is based on principles involving the stimulated emission of radiation, and to associated components and accessories directly related to stimulated coherent radiation techniques. The methods for producing the radiation are those obtained by LASER (Light Amplification by Stimulated Emission of Radiation) and by MASER (Microwave and/or Molecular Amplification by Stimulated Emission of Radiation) techniques. Only those items specifically designed for stimulated coherent radiation applications, and having no other application, are to be included in this class.

Assemblies or major systems containing such devices are excluded from this class.

5865 Electronic Countermeasures, Counter-Countermeasures and Quick Reaction Capability Equipment

NOTE: This class includes, and is restricted to, passive and active electronic equipment, systems, and subsystems designed to prevent or reduce an enemy's effective use of radiated electromagnetic energy or designed to insure our own effective use of radiated electromagnetic energy. *Includes* Electronic Countermeasures, Electronic Counter-Countermeasures, Electronic Support Measures, and Quick Reaction Capability Equipment and components specially designed therefor which are not classifiable elsewhere in the FSC structure. Excluded from this class are nonelectronic items which are properly classified in more specific classes in accordance with the FSC structure and indexes.

5895 Miscellaneous Communication Equipment

NOTE: This class includes miscellaneous communication equipment that is not classified in more specific classes. (See the "NOTE" for FSC group 58.) *Includes* Modems. *Excludes* Electronic Countermeasures Equipment.

GROUP 59

Electrical and Electronic Equipment Components

NOTE: Mounting hardware, included in classes of this group, includes such specially designed items as brackets, holders, retainers, etc. Excluded from classes in this group are such hardware items as screws (class 5305), bolts (class 5306), studs (class 5307), washers (class 5310), rivets (class 5320), and other common items indexed to specific classes, other than in group 59. The FSC indexes and structure will govern the classification of items used on or with mounting hardware cited above.

5905 Resistors

Includes Varistors; Resistive

- Ballast Tubes; Rheostats; Resistor Networks; Resistor Mounting Hardware; Thermistors.
Excludes Resistance Wire.
- 5910 Capacitors
Includes Interference Filter *Capacitors*; *Capacitor Mounting Hardware*.
Excludes Semiconductor Devices and Associated Hardware.
- 5915 Filters and Networks
NOTE: This class includes those filters and networks which consist of a combination of resistors, capacitors, or coils, but not a combination of resistors only (classified in 5905), capacitors only (classified in 5910), or coils only (classified in 5950).
- 5920 Fuses, Arresters, Absorbers, and Protectors
Includes Fuseholders; Fuse Boxes; Fuse Posts; Fuse Links; Fuse blocks; Current Limiters. Corona Balls, Electrostatic Dischargers.
Excludes Circuit Breakers.
- 5925 Circuit Breakers
Includes Circuit Breakers and Cutouts.
Excludes Relays.
- 5930 Switches
Includes Rotary, Knife, Toggle, Push Button, Mercury, Thermostatic, and Differential Pressure Switches.
Excludes Switchgear.
- 5935 Connectors, Electrical
Includes Plugs; Jacks; Receptacles; Electronic Component Sockets and Associated Accessories.
Excludes Interconnectors, Fiber Optic.
- 5940 Lugs, Terminals, and Terminal Strips
Includes Binding Posts; Battery Clips; Stud Terminals; Test Clips.
Excludes Caps, Electrical; Clips Electrical; and Contacts, Electrical.
- 5945 Relays and Solenoids
Includes Electromagnetic Actuators.
Excludes Contactors.
- 5950 Coils and Transformers
Includes Coils, except ignition and magneto; coil assemblies; magnetic amplifiers; reactors; transformers.
- 5955 Oscillators and Piezoelectric Crystals
Includes Crystal Units, Processed Unmounted Crystals, Crystal Controlled Oscillators and Noncrystal Controlled Oscillators.
Excludes Crystal Controlled Oscillators and Noncrystal Controlled Oscillators which meet the definition of the term "electronic module" as defined for FSC 5963 and Microcircuits.
- 5960 Electron Tubes and Associated Hardware
Includes Rectifying Tubes; Photoelectric Tubes; Electron Vibrator Tubes.
Excludes Transistors; Tube Sockets; X-ray Tubes; Semiconductor Devices and Associated Hardware.
- 5961 Semiconductor Devices and Associated Hardware
Includes Semiconductor Assemblies; Semiconductor Diodes; Semiconductor Rectifiers, Semiconductor Thyristors; Transistors; Unitized Semiconductors; Associated Hardware except Sockets.
Excludes Microcircuits; Optoelectronic Devices and Associated Hardware.
- 5962 Microcircuits, Electronic
NOTE: (1) A microcircuit is defined as follows: A small circuit having a high equivalent circuit element density, which is considered as a single part composed of interconnected elements placed and/or formed on or within a single substrate to perform an electronic circuit function. The elements may be formed on or within a semiconductor material substrate; may consist of conductive film(s) formed on an insulating substrate; or may be a combination of one or both of these types with discrete elements. (2) The term "microcircuit", as applied to circuit devices included in this class, is delimited to exclude items consisting solely of interconnected "microcomponents" (discrete miniaturized components). Also excluded are items fabricated in the form of monolithic thick-film or thin-film structures that in themselves are not functional elec-

tronic circuits (e.g., capacitors, resistors, transistors, or "arrays" thereof).

Includes Integrated Circuit Devices; Integrated Circuit Modules; Integrated Electronic Devices: Hybrid, Magnetic, Molecular, Opto-Electronic, and Thin Film.

Excludes Single Circuit Elements such as Capacitors; Resistors; Diodes and Transistors; Printed Circuit Boards and Circuit Card Assemblies; and Filters and Networks.

5963 Electronic Modules

NOTE: The term "electronic module" as used in this class designates an electronic component designed for use in various equipment or end item applications, and capable of controlling voltage and/or current to produce gain, oscillation, switching, or similar integral electronic functions. It consists of a collection of miniaturized electronic parts and/or elements in a single replaceable package with plug-in mounting which will also complete the required electrical connections. It is not normally subject to disassembly as distinguished from such items as CIRCUIT CARD ASSEMBLY and ELECTRONIC COMPONENTS ASSEMBLY. These modules conform to industry or government specifications/standards that define all physical dimensions and electrical parameters required to promote commonality and ensure proper operational performance.

Excludes Microcircuits; Electronic Test Equipment Plug-In Units.

5965 Headsets, Handsets, Microphones and Speakers

5970 Electrical Insulators and Insulating Materials
Includes Tube, Knob, Cleat, Strain, and Standoff Insulators; Feed Thru Insulators; Bead Insulators; Varnish Cambrie Tape; Friction Tape.

5975 Electrical Hardware and Supplies
Includes Conduit; Raceways; Face Plates; Condulets; Outlet and Junction Boxes; Pole Line Hardware, not elsewhere classifiable.

5977 Electrical Contact Brushes and Electrodes
Includes Brushes for electrical rotating equipment; Carbon Stock for Brushes;

Brush Arm and Holders; Lighting Electrodes.

Excludes Anodes; Cathodes, Welding Electrodes.

5980 Optoelectronic Devices and Associated Hardware

Includes Optoelectronic devices and assemblies which display numeric, alphanumeric, symbolic, or graphic information, emitters, and nondisplay optoelectronic devices, such as couplers, detectors, and switches which perform an active function in an electronic system.

Excludes Electric lighting fixtures, lamps, and associated hardware.

5985 Antennas, Waveguide, and Related Equipment

NOTE: Items specifically designed for specific use on or with specific individual types of equipment are generally excluded from this class and are to be classified in the same classes as their next higher assemblies. (Individual exceptions to this general rule (for example, couplers) are indicated by conditioncode in the FSC indexes).

Includes Aerial, Mast, Tower Equipment; Attenuators, Couplers; Transmission Lines.
Excludes Tower Structures.

5990 Synchros and Resolvers

Excludes Synchro Systems; Servo Mechanisms.

5995 Cable, Cord, and Wire Assemblies; Communication Equipment

NOTE: This class includes only those types of cable, cord, and wire assemblies and sets (and wiring harnesses) used on or with equipment and components covered by groups 58 and 59. Cable, cord, wire assemblies, and sets (wiring harnesses) used on or with equipment classified in FSC groups other than groups 58 or 59 are classified in FSC class 6150 if multiapplication, or classified with the next higher classifiable assembly if specially designed.

Excludes Cable Assemblies, Fiber Optic

5998 Electrical and Electronic Assemblies; Boards, Cards, and Associated Hardware

Excludes circuit card and electronic component assemblies which can be identified to a more definitive Approved Item Name.

- 5999 Miscellaneous Electrical and Electronic Components
Includes Permanent Magnets and Magnetostriction Elements; Caps, Clips, and Contacts, Electrical.

GROUP 60

Fiber Optics Materials, Components, Assemblies, and Accessories

NOTE: Fiber Optics is a general term used to describe the function where optical energy (i.e., light/laser driven rays) is guided to another location through fiber(s). This group includes Fiber Optics items such as parts, materials, and devices used for communications, data transmission, or illumination. *Excludes* Imaging devices under FSG 65 (Medical); hand tools under FSG 51; Electrical, Electronic and Optical Instruments under FSG 66 (Instruments).

6004 Rotary Joints

NOTE: Included in this class are rotary couplers for fiber optic systems.

6005 Couplers, Splitters, and Mixers

NOTE: Included in this class are non-rotary couplers, splitters, and mixers used in fiber optic systems.

6006 Attenuators

NOTE: Included in this class are fixed and variable attenuators used in fiber optic systems.

Excluded from this class are nonfiber optic type attenuators.

6007 Filters

NOTE: Included in this class are light filters used in fiber optic systems.

6008 Optical Multiplexers/Demultiplexers

NOTE: Included in this class are multiplexers/demultiplexers used in fiber optic systems.

6010 Fiber Optic Conductors

NOTE: Included in this class are bulk discrete fibers.

6015 Fiber Optic Cables

NOTE: Included in this class are one or more discrete fiber optic conductors with a common protective covering in bulk form. May include electrical conductors/cables and/or reinforcing material.

6020 Fiber Optic Cable Assemblies and Harnesses

NOTE: Included in this class are items used for communication and/or data transmission having one or more fiber optic conductors/cables with processed end(s) or terminated in fitting(s).

Excludes items used for illumination and/or image transmission.

6021 Fiber Optic Switches

NOTE: Included in this class are switches used for line selection in fiber optic systems.

6025 Fiber Optic Transmitters

NOTE: Included in this class are light signal transmitters used in fiber optic systems.

6026 Fiber Optic Receivers

NOTE: Included in this class are light signal receivers used in fiber optic systems.

6029 Optical Repeaters

NOTE: Included in this class are optical signal boosters used in fiber optic systems.

6030 Fiber Optic Devices

NOTE: Included in this class are fiber optic devices that perform an active function in a fiber optics system.

6031 Integrated Optical Circuits

6032 Fiber Optic Light Sources

NOTE: Included in this class are light emitting and laser diodes used in fiber optic systems.

6033 Fiber Optic Photo Detectors

NOTE: Included in this class are photo detectors used in fiber optic systems.

6034 Fiber Optic Modulators/Demodulators

NOTE: Included in this class are modulators/demodulators for use in fiber optic systems.

6035 Fiber Optic Light Transfer and Image Transfer Devices

NOTE: Included in this class are fiber optic devices used for illumination and/or image transmission. Excluded from this class are items used for communication and/or data transmission.

6040 Fiber Optic Sensors

NOTE: Included in this class are fiber optic devices which detect the presence of a liquid, solid, and/or gas and provide an electrical output to measure characteristics such as movement, density, size, quantity, and/or color.

6050 Fiber Optic Passive Devices

NOTE: Included in this class are fiber optic devices which have an inactive function in a fiber optic system such as choppers, jewels, and lenses.

6060 Fiber Optic Interconnectors and Supplies

NOTE: Included in this class are all fiber optic terminations, such as connectors, dividers, and splices. May include electrical connectors.

6070 Fiber Optic Accessories and Supplies

NOTE: Included in this class are mode stripping materials, index matching materials and other related supplies.
Excludes Hardware and supplies common to both electrical and fiber optic applications which are classifiable on FSC 5975.

6080 Fiber Optic Kits and Sets

NOTE: Included in this class are kits and sets which consists of fiber optic components only; fiber optic components and related parts; fiber optic components and related tools; or fiber optic components, related parts and related tools.
Excludes Tool kits and sets which are classifiable in FSC 5180; test sets/instruments classifiable in FSG 66; and end item sets/equipment utilizing fiber optic components which are classifiable in the applicable equipment FSC.

6099 Miscellaneous Fiber Optic Components

NOTE: Included in this class are fiber optic items which are not classifiable in a

more specific class. (See the "Note" for FSG 60.)

GROUP 61
Electric Wire, and Power and Distribution Equipment

6105 Motors, Electrical

Excludes Starting Motors for Engines

6110 Electrical Control Equipment

Includes Contactors; Motor Controllers; Power Servomechanisms; Switchgear; Voltage Regulators.
Excludes Automatic Pilot Mechanisms; Relays; Resistors.

6115 Generators and Generator Sets, Electrical

Includes Engine, Turbine, Wind, and Hand Driven Generator Sets and Auxiliary Aircraft Generators.
Excludes Motor-Converters; Motor-Generator Sets; Engine Generators; Engine Accessory Generators.

6116 Fuel Cell Power Units, Components, and Accessories

NOTE: This class includes items that are designed to produce an electromotive force directly from an oxidation-reduction type of chemical reaction. A complete power unit must include tanks, pumps, and associated control equipment, and requires a continuous, uninterrupted supply of liquid or gaseous fuel and oxidizers.

Includes Complete Functioning Fuel Cell Power Units; Fuel Cells; Fuel Cell Assemblies or Modules; Fuel Cell Reactant Chambers; Fuel Feed Mechanism; Electrolyte Heaters; Heat Exchangers; and other internal components peculiar to, and used exclusively on or with, Fuel Cell Power Units classified in this class.

Excludes Nonrechargeable Batteries (class 6135); Rechargeable Batteries (class 6140); Generators and Generating Sets (class 6115); and items for which more suitable classes are specifically prescribed by the indexes and structure of the FSC.

6117 Solar Electric Power Systems

NOTE: This class includes items which are designed for the direct conversion of

solar energy into electrical power.

6120 Transformers: Distribution and Power Station

NOTE: This class includes transformers with a kilovolt-ampere rating above 1 kva. *Excludes* Potential and Current Transformers.

6125 Converters, Electrical, Rotating

NOTE: This class includes devices employing mechanical rotation of changing electrical energy from one form to another (i.e., AC to AC, DC to DC, AC to DC, DC to AC). Excluded from this class are electrical generators and generator sets (class 6115).

Includes Complete Battery Charging Equipment, Rotating; Dynamotors; Motor Converters; Motor-Generator Sets; Phase Converters; Rotating Equipment; Synchronous Converters.

Excludes Nonrotating Equipment.

6130 Converters, Electrical, Nonrotating

NOTE: This class includes devices employing a means other than mechanical rotation for changing electrical energy from one form to another (i.e., AC to AC, DC to DC, AC to DC, and DC to AC). Excluded from this class are rectifying crystals (class 5961) and transformers (classes 5950 and 6120).

Includes Complete Battery Charging Equipment, Nonrotating; Power Supplies, Multiapplication.

Excludes Rectifying Tubes; Rotating Equipment; Semiconductor Devices and Associated Hardware.

6135 Batteries, Nonrechargeable

Includes Cells and Dry Batteries; Nuclear Batteries.

6140 Batteries, Rechargeable

Includes Rechargeable Cells and Batteries.

6145 Wire and Cable, Electrical

NOTE: This class includes only bulk electrical wire and cable. Excluded from this class are electrical wire and cable items of definite length either with processed ends, or terminated in fittings.

Includes Insulated and Noninsulated, such as Antenna Wire, Coaxial Cable, Fuse and

Resistance Wire, Magnet Wire.

Excludes Radio Frequency Transmission Line; Waveguides and Associated Hardware; Cable Fiber Optic.

6150 Miscellaneous Electric Power and Distribution Equipment

Includes Appliance and Extension Cords; Electric Power and Distribution Cable with Attachments, Multiapplication; Common Components of Electrical Rotating Equipment, such as End Bells and Frames.

6160 Miscellaneous Battery Retaining Fixtures and Liners

Includes Battery Boxes, Covers, Liners, Racks, Retainers, and Trays.

GROUP 62

Lighting Fixtures and Lamps

6210 Indoor and Outdoor Electric Lighting Fixtures

Includes Airport, Railroad Platform, Stadium, and Street Lighting Fixtures. *Excludes* Nonelectrical Outdoor Fixtures; Signal Fixtures; Nonelectrical Indoor Fixtures.

6220 Electric Vehicular Lights and Fixtures

Includes Automotive, Marine, Railroad, and Aircraft Lights and Fixtures. *Excludes* Nonelectrical Vehicular Fixtures.

6230 Electric Portable and Hand Lighting Equipment

Includes Floodlights; Searchlights; Extension Lights. *Excludes* Nonelectrical Portable and Hand Lighting Equipment; Signal and Alarm Equipment.

6240 Electric Lamps

Includes Fluorescent Lamps; Incandescent Lamps, Large and Miniature; Mercury Lamps; Sodium Lamps.

6250 Ballasts, Lampholders, and Starters

6260 Nonelectrical Lighting Fixtures

Includes Lanterns, Nonelectrical; Hand and Portable Carbide Lamps; Candles.

GROUP 63

Alarm, Signal, and Security Detection Systems

- 6310 Traffic and Transit Signal Systems
Excludes Railroad Signals.
- 6320 Shipboard Alarm and Signals Systems
- 6330 Railroad Signal and Warning Devices
Includes Railroad Gates; Flasher Lights; Block Signals.
Excludes Semaphore Flag Signals.
- 6340 Aircraft Alarm and Signal Systems
Includes Oxygen Pressure Signals and Warning Devices; Such as Air Pressure Warning Signals, Aircraft Crew Warning Signals, Altitude Warning Signals, Alarm Controls, Audible Landing Gear Alarms.
Excludes Aircraft Engine Oil and Fuel Warning Devices.
- 6350 Miscellaneous Alarm, Signal, and Security Detection Systems
Includes Anti-intrusion Alarm Systems; Foghorns; Gongs; Chimes; Bells; Burglar Alarm Systems; Fire Alarms; Police Alarm Systems; Sounding Devices; Manual Gas Alarms; Landing Wands.
Excludes Loran; Radar; Sonar; Engine Oil and Fuel Warning Devices; Aircraft Oxygen Warning Devices.

GROUP 65

Medical, Dental, and Veterinary Equipment and Supplies

- 6505 Drugs and Biologicals
NOTE: Among the items included in this class are all drugs, chemicals of medicinal grade, and biologicals subject to the Federal Food, Drug and Cosmetic Act; Department of Agriculture (Veterinary Drugs and Biologicals), listed in the Monograph Section of the United States Pharmacopeia or the National Formulary or covered by the United States Adopted Names (USAN). Excluded from this class are medicated cosmetics and toiletries classifiable in Class 6508 and in vitro diagnostic substances and reagents classifiable in Class 6550.
Includes Items consisting of an individual

dose prepackaged in a disposable dispenser.
Excludes Bandages; Absorbent Gauze; Adhesive Plaster; Sutures.

- 6506 Blood
- 6507 Blood Derivatives
- 6508 Medicated Cosmetics and Toiletries
NOTE: Included in this class are medicated cosmetics and toiletries that have been determined to be drugs in accordance with the Federal Food, Drug, and Cosmetic Act. For nonmedicated cosmetics and toiletries, see group 85.
- 6510 Surgical Dressing Materials
Includes Bandages, Cotton; Surgical Crinoline; Compresses; Absorbent Gauze; Adhesive Plaster; Surgical Pads.
- 6515 Medical and Surgical Instruments, Equipment, and Supplies
Includes Anesthesia Apparatus; Blood Transfusion Apparatus; Oxygen Therapy Apparatus; Respirators; Orthopedic Supplies; Arch Supports; Clinical Thermometers; Sutures; Hearing Aids; Veterinary Equipment, Endoscopes, Fiber Optic.
Excludes Ophthalmic Instruments, Equipment, and Supplies; Non-Medical Endoscopes.
- 6520 Dental Instruments, Equipment, and Supplies
Includes Dental Engines; Dental Laboratory Equipment; Operating Chairs; Orthodontic Appliances; Teeth; Dental Metals; Dental Abrasives; Dental Laboratory Furniture.
- 6525 X-Ray Equipment and Supplies: Medical, Dental, Veterinary
Includes Medical X-Ray Film; Medical X-Ray Film Viewing Equipment; Medical X-Ray Film Processing and Finishing Equipment and Supplies; X-Ray Tubes.
Excludes Industrial X-Ray Equipment.
- 6530 Hospital Furniture, Equipment, Utensils, and Supplies
Includes Orthopedic Equipment; Operating Lights; Physiotherapy Equipment; Sterilizers; Wheel Chairs; Litters; Hospital Beds; Re-

straint Equipment.

- 6532 Hospital and Surgical Clothing and Related Special Purpose Items
Includes Only those clothing items which are required exclusively for use in hospital operations, or in medical or dental facilities, which have no functional counterpart elsewhere in Federal Organizations Participating in the Federal Catalog System.
Excludes General purpose items of clothing and fabricated textile material.
- 6540 Ophthalmic Instruments, Equipment, and Supplies
Includes Ophthalmic Lens Cutting and Grinding Machine; Ophthalmic Lenses and Lens Blanks; Spectacle Frames; Ophthalmological and Optometric Instruments, Equipment, and Supplies
Excludes Optical Lens Cutting and Grinding Machines; Otoloscope and Ophthalmoscope Set; Surgical Instruments and Supplies that can be used by other medical disciplines, such as sutures, eye pads, eye shields, eye bath, and the like.
- 6545 Replenishable Field Medical Sets, Kits, and Outfits
Excludes Sets and kits which can be logically classified in another FSC Class in Group 65, such as Insect Sting Kit; Otoloscope and Ophthalmoscope Set; In Vitro Diagnostic Test Kits; and the like.
- 6550 In Vitro Diagnostic Substances, Reagents, Test Kits and Sets
Includes In Vitro diagnostic aids, such as test tablets, test strips, test cards, test papers, test solutions, reagents; sets and kits, designated for in vitro qualitative and quantitative tests on specimens, such as blood, urine, feces, and the like, for the purpose of aiding in the medical diagnosis of disease, body organ dysfunction, or other abnormal conditions.
Excludes In vitro diagnostic substances.

GROUP 66

Instruments and Laboratory Equipment

NOTE: Infrared assemblies (including sub-assemblies and components) designed specifically for

use as or with instruments and laboratory equipment are included in the classes of this group. Also included are computers (including computer assemblies, computer systems and components) designed specifically for use with instruments and laboratory equipment.

- 6605 Navigational Instruments
Includes Azimuths, Sextants; Octants; Compasses; Plotting Boards; Underwater Log Equipment; Air Position Indicators; Drift Meters.
- 6610 Flight Instruments
Includes Air Speed Indicators; Rate of Climb Indicators; Bank and Turn Indicators; Pitot Tubes, Gyro Horizon Indicators; Attitude Gyro Indicators.
Excludes Navigational Instruments.
- 6615 Automatic Pilot Mechanisms and Airborne Gyro Components
NOTE: Included in this class are gyro components of guided missiles. Excluded are complete gyro mechanisms and nonairborne gyro components, both of which are classified in the same classes as their next higher assemblies.
Includes Automatic Pilot Regulators; Directional, Vertical, Bank and Turn, and Hydraulic Surface Gyro Controls; Airborne and Shipborne Automatic Pilot Mechanisms; Helicopter Automatic Stabilization Equipment.
Excludes Automatic Pilot Training Devices; Automatic Pilot Mechanisms, Guided Missile.
- 6620 Engine Instruments
NOTE: Instruments designed for use on both engines and other than engines are not included in this class and should be classified in the appropriate instruments class of group 66.
Includes All Engine Instruments, including Aircraft, Marine, and Vehicular; Fuel Pressure Gages; Manifold Pressure Gages; Oil Pressure Gages; Fuel Mixture Indicators; Engine Oil and Fuel Warning Devices.
- 6625 Electrical and Electronic Properties Measuring and Testing Instruments

NOTE: This class includes all "basic" types of electrical and electronic test instruments, such as ammeters, voltmeters, ohmmeters, multimeters, and similar instruments, even if specially designed. Excluded from this class by the modifier "except specially designed" are test instruments, other than "basic" instruments, which are specially designed for use with atomic ordnance, fire control, guided missile, motor vehicle, aircraft, or photographic equipment. Such specially designed test instruments are to be classified in other classes in the Federal Supply Classification.

This class includes communications test equipment, infrared test equipment designed for communication, and night vision maintenance and test specialized equipment.

Includes Test Leads and Test Lead Attachments; Test instruments designed for communication equipment; Test instruments designed for use with electronic equipment classified in two or more FSC groups.

Excludes Radiac Equipment.

6630 Chemical Analysis Instruments
Includes Acidity (pH) Meters; Gas Analyzers; Alkalinity Measuring Instruments; Colorimeters.

Excludes Gas Detecting Equipment; Manual Gas Alarms; Chemicals; In Vitro Diagnostic Substances and Reagents.

6635 Physical Properties Testing Equipment
Includes Hardness Testers; Industrial X-Ray Machines; Industrial X-Ray Film.

6636 Environmental Chambers and Related Equipment

NOTE: This class includes only those environmental chambers used exclusively to perform controlled tests, under simulated conditions, to determine physical damage and/or changes in operating characteristics for equipments and components such as Humidity, Immersion, Moisture; Altitude; Explosion; Thermal Shock; Sand and Dust; Flammability; Seal. Environmental chambers included in this class provide data regarding service life and behavior of various items equivalent to actual service conditions existing in the field. Excluded from this class are items for which more specific classifications

are suitable as prescribed by the structure and indexes of the FSC.

Includes Chambers; Wind Tunnels; Enclosures specifically designed to simulate an environmental condition; Weatherometers; Fadeometers; Specially designed equipment and components exclusively related to environmental chambers.

Excludes General purpose prefabricated buildings, chambers, panels, and components; Controlled Environmental Conditioning Kits and Sets; Baths; Ovens; Kilns; Radiosonde Baseline Check Sets; Divers Recompression Chambers; Altitude Training Decompression Chambers; and chambers used as training devices. Also excluded from this class are Checkout and Test Equipment; Chemical Analysis Instruments; Electrical and Electronic Properties Measuring and Testing Instruments; Meteorological Instruments.

6640 Laboratory Equipment and Supplies
Includes Laboratory Glassware; Laboratory Funnels; Laboratory Furnaces; Glass Beads; Laboratory White Sand; Litmus Paper; Paper Filters; Insect Transfixion Pins; Laboratory Glass Wool; Laboratory Furniture, except Dental Laboratory.

Excludes Instruments covered by other classes in group 66; Dental Laboratory Equipment; Laboratory Scales and Balances; In Vitro Diagnostic Substances and Reagents.

6645 Time Measuring Instruments
Includes Clocks; Job Recording Devices; Time Recorders; Time Stamps; Watch and Clock Movements; Watches.

6650 Optical Instruments, Test Equipment, Components and Accessories

NOTE: Optical instruments which are designed for integral use with other assemblies or equipment, such as periscopes for submarines and optical devices for use in fire control equipment, are excluded from this class and should be classified in the same class as their next higher assemblies. Night vision equipment is classified in Group 58. This class includes items designed for optical testing.

Includes Binoculars; Magnifiers; Micro-

- scopes; Periscopes; Telescopes. Optical Elements, such as Lens, Prisms, Windows; Optical Benches and associated devices; Endoscopes, Fiber Optics (non-medical).
Excludes Fire Control Instruments, Optical; Surveying Instruments, Optical; Photogrammetric Instruments; Octants and Sextants; Optical Instruments Integrated with Fire Control Equipment; Ophthalmological Instruments. Electronic Fiber Optic Test Equipment; Medical Endoscopes.
- 6655 Geophysical Instruments
Includes Geodetic, Oceanographic, and Seismographic Instruments.
Excludes Telescopes.
- 6660 Meteorological Instruments and Apparatus
Includes Meteorological Balloons; Radiosonde Sets; Radarsonde Sets.
- 6665 Hazard-Detecting Instruments and Apparatus
Includes Radiac Equipment; Gas Detecting Equipment; Land Mine Detecting Equipment.
Excludes Manual Gas Alarms.
- 6670 Scales and Balances
Includes Coin Operated, Household, Industrial, Postal, and Laboratory Scales and Balances.
- 6675 Drafting, Surveying, and Mapping Instruments
Includes Drawing Instruments, Drafting Tools; Engineering and Architectural Scales; Levels; Transits; Photogrammetric Instruments; Astrolabes; Level Rods; Plane Tables; Surveying Altimeters; Theodolites.
Excludes Surveyors' Tapes.
- 6680 Liquid and Gas Flow, Liquid Level, and Mechanical Motion Measuring Instruments
Includes Liquid Level Float Instruments; Revolution Counters; Speedometers; Rotation Measuring Instruments and Apparatus; Oxygen Flow Indicators; Tachometers, including Engine Tachometers.
Excludes Combination Instruments; Meteorological Instruments; Automatic Control Valves.
- 6685 Pressure, Temperature, and Humidity Measuring and Controlling Instruments
Includes Thermometers, including Engine Thermometers; Pressure Gages; Thermocouple Leads; Resistance Bulbs.
Excludes Clinical Thermometers; Thermostatic and Differential Pressure Switches; Meteorological Instruments.
- 6695 Combination and Miscellaneous Instruments
Includes Flow-Pressure Instruments; Taximeters; Dynamometers.
Excludes Dental, Medical, Surgical, and Veterinary Instruments.

GROUP 67

Photographic Equipment

NOTE: Included are computers (including computer assemblies, computer systems and components) designed specifically for use with photographic equipment.

- 6710 Cameras, Motion Picture
Includes Aerial and Mapping Cameras.
Excludes Television Cameras, Nonairborne (class 5820); Television Cameras, Airborne (class 5821); Video Camera (class 5836).
- 6720 Cameras, Still Picture
Includes Aerial, Mapping, Microfilm, Photocopy, and Studio Cameras.
Excludes X-Ray Cameras (class 6525), and Industrial X-Ray Machine (class 6635).
- 6730 Photographic Projection Equipment
Includes Screens; Viewers; Photomap Projectors; Integrated Viewers; Printers and Microform Storage and Retrieval Systems.
- 6740 Photographic Developing and Finishing Equipment
Includes Editing Equipment; Enlargers; Driers; Pressures; Printers; Washers.
- 6750 Photographic Supplies
Includes Sensitized Photographic Paper; Special Purpose Photographic Chemicals; Unprocessed Film; Photoflash Lamps.
Excludes X-Ray Film (Medical Class 6525 or Industrial Class 6653); Electrographic

(Facsimile) Paper for direct electrostatic printing or copying (class 7530).

6760 Photographic Equipment and Accessories
Includes Light Meters; Tripods; Filters; Rangefinders; Photographic Floodlight Fixtures; Lenses; Specialized Photographic Test Equipment.
Excludes Lamps (bulbs) (class 6240); Photoflash Lamps (class 6750).

6770 Film, Processed
Includes Motion Picture Film, Silent and Sound; Still Picture Film.
Excludes X-Ray Film (Medical class 6525 or Industrial class 6635); Training and Educational Film (class 6910); Processed Microfilm (class 7670).

6780 Photographic Sets, Kits, and Outfits

GROUP 68

Chemicals and Chemical Products

NOTE: In general, individual nonmedicinal chemical elements and compounds are classified in class 6810. Combinations (or mixtures) of chemical compounds, or chemicals prepared in a particular vehicle (other than water) are generally classified according to use, in classes other than 6810. For example, the chemical compound DDT, is classified in 6810, whereas DDT liquid spray, the insecticide is classified in 6840—Pest Control Agents and Disinfectants. Similarly, items of supply bearing non-chemical names such as BLEACH; INSECTICIDE, ROACH; and ANTIFREEZE are generally classified according to use, in classes other than 6810, whereas corresponding chemical compounds, such as sodium hypochlorite solution, chlordane, and ethylene glycol are classified in 6810. Medicinal chemicals are generally classified in 6505—Drugs and Biologicals; in vitro diagnostic substances and reagents are classified in 6550—In Vitro Diagnostic Substances, Reagents, Test Kits and Sets. Excluded from this group are liquid chemicals designed exclusively for use as propellant fuels and oxidizers.

6810 Chemicals
Includes Naphtha Solvents; Water Softening Compounds; Tanning Materials, Natural or Synthetic; Dextrines and Starches; Inedible Gelatins; Acetone; Propellant Chemicals, Bulk not specialized solely for Guided Mis-

sile Use.

Excludes Medicinal Chemicals; Gases; Foundry Dextrines; Radiographic and Photographic Chemicals; In Vitro Diagnostic Substances and Reagents.

6820 Dyes
Includes Household Tints

6830 Gases: Compressed and Liquefied
Includes Fuel Gases.
Excludes Military Chemical Gases; Medical Gases; Empty Gas Cylinders and their caps, valves, and valve spare parts.

6840 Pest Control Agents and Disinfectants
Includes Insect Repellents; Fungicides; Insecticides; Rodenticides; Weck Killers.
Excludes Personal Deodorants.

6850 Miscellaneous Chemical Specialties
Includes Antifogging Compounds; Wetting Agents; Etching and Fountain Solutions for Lithographing; Blanket Repair Solutions for Lithographing; Antifreeze.

GROUP 69

Training Aids and Devices

NOTE: Included are computers (including computer assemblies, computer systems and components) designed specifically for use as, or with training aids and devices.

6910 Training Aids
Includes Mockups; Cutaway Models; Scale Models; Training Films; Training Aid Maps; Navigational Training Aids; Flight Instrument Training Aids; Aircraft Instrument Training Aids; Vehicle Training Aids; Engine Instrument Training Aids; Hydraulic System Training Aids; Cutaway, Mockup, or Sectionalized Ammunition only; Training Equipment normally used in classroom training.
Excludes Drill, Dummy, Exercise, Practice, or Simulated Ammunition and Weapons.

6920 Armament Training Devices
Includes Bombing Trainers; Gunnery Trainers; Tow Targets; Gunnery Targets; Guided Missile Training Sets.

Excludes Target Drones; Drones for such use as training, surveillance, missile evaluation, and photographic reconnaissance; Atomic Ordnance Training Devices; Training Aids; Drill, Dummy, Exercise, Practice, or Simulated Ammunition and Weapons.

6930 Operation Training Devices

Includes Link Trainers; Automatic Pilot Training Devices; Drift Meter Training Devices; Celestial Navigation Trainers; Dead Reckoning Navigation Trainers; Instrument Flying and Landing Trainers; Terrain Projection Trainers; All operational training devices except communication and armament. *Excludes* Training Aids.

6940 Communication Training Devices

Includes Supersonic Radar Trainers; Navigational Radar Trainers; Search and Detecting Radar Trainers; Code Practice Equipment. *Excludes* Training Aids.

GROUP 70

Automatic Data Processing Equipment (Including Firmware), Software, Supplies and Support Equipment

NOTE: This group includes commercially available General Purpose Automatic Data Processing Equipment, components, and the data processing equipment systems configured from them regardless of use, size, capacity or price that are designed to be applied to the solution or processing of a variety of problems and applications and are not specially designed, as opposed to configured, for any specific application. Excluded from this group is General Purpose ADPE which, prior to acquisition, is modified to meet Government specifications to the extent that:

1. it no longer has a commercial market; or
2. it cannot be used to process a variety of problems or applications; or
3. it can be used only as an integral part of a non-ADP higher order system.

7010 ADPE System Configuration

NOTE: A group of general purpose analog, digital, or hybrid electronic or electromechanical devices that are interconnected to operate as a system. Frequently referred

to as an ADP system, although the term "system" is not considered definitive.

Includes an assembly of devices consisting of a central processing unit (CPU) and the necessary input/output devices, accessorial devices, analog measurement devices, software and/or firmware required to perform the desired objectives. Also includes sub-assemblies and units in which input/output devices, CPUs, and/or accessorial devices or components are incorporated into a single assembly or unit. A specially designed device incorporated into a system shall not influence the classification of the base assembly or unit.

7020 ADP Central Processing Unit (CPU, Computer), Analog

NOTE: An analog is a representation in one form of a physical condition existing in another form (e.g., the level of mercury in a tube represents temperature in a thermometer; the angular position of a needle represents speed on a speedometer). This class includes on CPUs that accept as inputs the electrical equivalent of physical conditions such as flow, temperature, pressure, angular position or voltage and perform computations by manipulating these electrical equivalents to produce results for further use.

7021 ADP Central Processing Unit (CPU, Computer), Digital

NOTE: Digital refers to the representation of discrete numbers, symbols and alphabetic characters by a predetermined, coded combination of electrical impulses. This class includes only CPUs that accept information represented by digital impulses. Specifically, a device capable of performing sequences of arithmetic and logic operations (a program), not only on data but also on the program which is contained in its internal memory (storage) without intervention of an operator.

7022 ADP Central Processing Unit (CPU, Computer), Hybrid

NOTE: Hybrid refers to a combination of analog and digital capability as defined in classes 7020 and 7021 with conversion capa-

bility required for intercommunication.

7025 ADP Input/Output and Storage Devices

NOTE: This class includes devices used to control and transfer information to and from a CPU. The input device is used for transferring data and instructions into a CPU. The output device is used to transfer results or processing by the CPU onto printed forms, punched cards, magnetic media and/or COM (Computer Output to Microform). Input/output devices combine the above functions in the same device. This class also includes data transmission terminals, batch terminals, display terminals, sensors, multiplexers, and concentrators, which are specially designed or modified to be used in conjunction with digital, analog or hybrid CPUs. It also includes storage devices which are designed to be cable connected for use on line in which data can be inserted, retained, and retrieved for later use; and firmware.

Excludes Communication type modems.

7030 ADP Software

NOTE: Software is a series of instructions or statements in a form acceptable to a CPU, designed to cause the ADPE configuration to execute an operation or operations; or a collection of data in a form capable of being processed and operated on by a computer. Includes system programs, such as operating systems, assemblers, compilers, executive routines, interpreters, translators; utility programs, such as sort/merge programs, media conversion, maintenance diagnostic programs; and application programs, such as payroll, inventory control, and engineering analysis programs. Excludes software designed to Government specifications to satisfy the requirements of a particular user or for use with ADPE properly classifiable in an FSG other than FSG 70.

Also excludes operating manuals and programmers' manuals properly classified in FSG 76.

7035 ADP Support Equipment

NOTE: This class includes various devices and associated control units which are designed for use in combination or conjunction with an ADPE configuration but are not part

of the configuration itself. ADP support equipment includes magnetic tape testing, certifying, and cleaning equipment; disk pack testing, certifying and cleaning equipment; tape equipment, rewinders, splicers, and spoolers and card reconditioners. Included in this class are complete units and components of related general purpose commercially available support equipment which are not specifically designed for use as part of system such as a weapon system, control system, digital image processing system, missile system, communication system or navigation system. Also included are support control systems and components not specifically designed for use with process control such as automatic machine tool processing operations in which flow, pressure, temperature or other parameters are controlled by instrument regulations in automatic machine tool and process operations.

7040 Punched Card Equipment

Includes Collating machines, key punch machines, tabulating machines; verifiers; reproducers; summary punches, sorters; interpreters.

Excludes Card actuated machines designed for use with an ADPE system.

7042 Mini and Micro Computer Control Devices

Includes Mini or micro computers used as control mechanisms where computer technology is essential in controlling, monitoring, measuring, and directing processes, devices, instruments or other equipment.

Excludes Mini and micro computer control devices which are designed specifically for use in and/or integral to higher order systems, e.g., aircraft fire control systems, numerically controlled machine tools, sequence controlled printing equipment, motion measuring instruments, office information system equipment; and the like.

7045 ADP Supplies

NOTE: This class includes ADP tape seal bands, reels and hubs, carrying cases, canisters, and the like. Also includes all non-recorded magnetic recording media designed to be used with ADPE, such as ADP magnetic tape, removable disk packs, magnetic

cards, cassettes and diskettes.

7050 ADP Components

NOTE: This class includes ADP component assemblies that are parts of analog, digital or hybrid data processing devices. Excluded from the class are items for which more specific classifications are suitable. The FSC structure and indexes will govern the classification of those items permitted classification in a single class only.

GROUP 71
Furniture

7105 Household Furniture

Includes Bedsprings, Open Style (All-metallic); Folding Chairs; Camp Furniture; Mirrors, Wall Mounting and Furniture Types; Smoking Stands.
Excludes Hospital Beds and Bedsprings; Ash Trays; Mattresses; Bedsprings, Box Style (Fabric Covered).

7110 Office Furniture

Includes Filing Cabinets; Safes; Post Office Furniture; School Furniture; Blackboards.
Excludes Dental X-Ray Film Protective Safes; Visible Record Equipment.

7125 Cabinets, Lockers, Bins, and Shelving

Includes Kitchen Cabinets; Sectional Shelving.
Excludes Foot Lockers; Filing Cabinets.

7195 Miscellaneous Furniture and Fixtures

Includes Stone, Clay, and Concrete Furniture; Auditorium and Theater Furniture; Library Furniture; Cashier Stands.

GROUP 72

Household and Commercial Furnishings and Appliances

7210 Household Furnishings

Includes Household furnishings of Textiles, Plastics, Paper, Rubber, and other materials; Sheets, Pillows, Blankets, and other Bedding; Insect Bars; Tablecloths; Towels; Steamer Rugs; Mattresses; Bedsprings, Box style (Fabric Covered); Bedspring and Mat-

tress Sets.

Excludes Floor Coverings; Curtains; Draperies; Paper Napkins; Paper Dollies; Bedsprings, Open Style (All-Metallic).

7220 Floor Coverings

Includes Linoleum; Rubber and Asphalt Tile; Carpets; Rugs; Rug Pads.
Excludes Vehicular Floor Mats.

7230 Draperies, Awnings, and Shades

Includes Curtains; Specialized Hardware and Fittings for Curtains, Draperies, Venetian Blinds, and Window Shades.

7240 Household and Commercial Utility Containers

Includes Refuse Cans; Sprinkling Cans; Clothes Hampers; Household Basket; Fabric Utility Containers.

7290 Miscellaneous Household and Commercial Furnishings and Appliances

Includes Fireplace Sets; Vases and Urns; Household Sewing Machines.

GROUP 73

Food Preparation and Serving Equipment

7310 Food Cooking, Baking, and Serving Equipment

NOTE: This class includes warming and/or chilling equipment used for the display and serving of food.
Includes Warming and/or Chilling Tables, Stationary and Portable; Serving Carts; Field and Mobile Baking Ovens; Toasters; Waffle Irons; Grills; Special Aircraft, Marine, and Railway Type Food Cooking Equipment; Utensils with Integral Heating Units; Cafeteria Type Display Cases and Showcases; Soda Fountains; Milk, Soda, and/or Ice Cream Dispensers; Cold Food Counters; Combination Heated-Refrigerated Food Serving Equipment; Carbonators; and other types of refrigerated food serving and display equipment commonly used in cafeterias, mess hall kitchens, and the like.
Excludes Carts other than Serving; Commissary or Food Store Type Refrigeration Equipment; Commercial Household, or Professional and Scientific Refrigerators; Drink-

ing Fountains; (see class 4110 for items excluded from class 7310).

- 7320 Kitchen Equipment and Appliances
Includes Dishwashing Machines; Food Slicing Machines; Food Mixers; Utility Carts Specially designed for use in Kitchen and Dining Area.
Excludes Sinks; Serving Carts (see class 7310 for Food Serving Carts).
- 7330 Kitchen Hand Tools and Utensils
Includes Pots; Pans; Can Openers; Graters; Food Mashers; Cleavers; Vacuum Bottles and Jugs.
Excludes Utensils with Integral Heating Units; Knives; Forks; Spoons.
- 7340 Cutlery and Flatware
Includes Knives; Forks; Spoons; Hunting Knives.
- 7350 Tableware
Includes China and Earthenware; Glassware; Paper Plates and Cups.
- 7360 Sets, Kits, Outfits and Modules Food Preparation and Serving

GROUP 74

Office Machines, Text Processing Systems and Visible Record Equipment

- 7420 Accounting and Calculating Machines
Includes Accounting and adding machines and electronic calculators.
Excludes Punched card system machines; Machines or devices that can be applied to a variety of problems by the internal execution of a series of instructions, not limited to specific keystroke functions, but controlled by a general purpose data processing language.
- 7430 Typewriters and Office Type Composing Machines
Includes Typewriters and office type composing machines with built-in electric/electronic functions such as margins, headings, tabs, centering and related actions.
Excludes Typewriters and office type composing machines which are designed primar-

ily for use as a component of an ADPE system or that are user programmable, and that can be applied to a variety of applications by the internal execution of a series of instructions, not limited to specific keystroke functions, but controlled by some form of general purpose data processing language.

- 7435 Office Information System Equipment
Includes Minicomputer and microcomputer controlled systems specifically designed for user programmable processing of the office information application; Connected peripheral equipment; Automatic repetitive typewriters; Text editing typewriters and video display text editing typewriters.
Excludes General purpose ADPE which is designed primarily to be applied through the internal execution of a series of instructions, not limited to specific keystroke functions, but controlled by a general purpose data processing language, to process a variety of applications such as financial management, logistics, scientific, communications, and the like.
- 7450 Office Type Sound Recording and Reproducing Machines
Includes Dictating Machines; Transcribing Machines; Combination Dictating and Transcribing Machines.
Excludes Communication Type Sound Recording and Reproducing Machines.

- 7460 Visible Record Equipment
Includes Manually operated and power operated visible record equipment; visible index files, rotary and stationary; specially designed components, such as Wire and Bar Pockets, Cover Plates, Stop Wires, and Channel Stops; Control Boards; Binder Racks; devices and systems designed to automatically store and retrieve hard copy documents. For those microform automatic retrieval systems that contain an integral viewer or view/printer, see Class 6730.

- 7490 Miscellaneous Office Machines
Includes Addressing Machines; Check Handling Machines; Coin Counting Machines; Mailing Machines; Currency Handling Machines.
Excludes Pencil Sharpeners; Staplers, Office

Type; Duplicating Equipment.

GROUP 75

Office Supplies and Devices

- 7510 Office Supplies
Includes Crayons; Erasers; File Holders; Writing Ink; Printing Ink; Paper Fasteners; Pencils; Penholders and Pen Points; Rulers, Office Type; Art Supplies; Tape, Pressure Sensitive Adhesive.
Excludes Office Devices; Fountain Pens; Artists' Brushes; Paper Stationery; Record Forms; Mechanical Pencils.
- 7520 Office Devices and Accessories
Includes Copyholders; Fountain Pens and Pen Desk Sets; Pencil Sharpeners; Paper Punches; Staplers, Office Type; Artists' Accessories, such as Easels, Airbrushes; Slide Rules.
- 7530 Stationery and Record Forms
Includes Business Forms; Record Books; Surveyors' Computation Forms; Electric Accounting Machine (EAM) Cards; Forms approved for use within individual government activities.
Excludes Standard forms approved for government-wide use.
- 7540 Standard Forms
Includes Only those standard forms approved for government-wide use by the government activities empowered to do so (such as the U.S. Bureau of the Budget and the U.S. General Accounting Office, and similar organizations in other NATO countries).
Excludes Forms approved for use within individual government activities.

GROUP 76

Books, Maps, and Other Publications

- 7610 Books and Pamphlets
Includes Technical and Nontechnical Books and Pamphlets; Regulations; Instruction Manuals; Technical Orders.
Excludes Sheet and Book Music; Periodicals; Bibles.

- 7630 Newspapers and Periodicals
- 7640 Maps, Atlases, Charts, and Globes
Excludes Training Aid Maps.
- 7650 Drawings and Specifications
Includes Federal, Military, and Departmental Specifications.
- 7660 Sheet and Book Music
Excludes Hymn books.
- 7670 Microfilm, Processed
- 7690 Miscellaneous Printed Matter
Includes Decals; Printed Posters; Printed Labels.
Excludes Sheet and Book Music.

GROUP 77

Musical Instruments, Phonographs, and Home-Type Radios

- 7710 Musical Instruments
NOTE: This class includes only complete musical instruments. Assemblies, parts, attachments, or accessories for use in or on musical instruments are classified in classes other than this class.
Excludes Phonographs; Radios; Television Sets.
- 7720 Musical Instrument Parts and Accessories
Includes Instrument Cases; Music Stands; Tuning Forks.
- 7730 Phonographs, Radios, and Television Sets: Home Type
NOTE: This class includes only complete home-type phonographs, complete home-type radios, and complete home-type television sets. End items, assemblies, parts, attachments, or accessories for use in or on the above are classified in classes other than this class.
Includes Combination Sets.
Excludes Coin Operated Phonographs; Wire and Tape Recorders.
- 7740 Phonograph Records
Excludes Training Aid Records.

GROUP 78

Recreational and Athletic Equipment

- 7810 Athletic and Sporting Equipment
Includes Baseball Equipment; Basketballs; Boxing Gloves; Fencing Masks; Fishing Tackle, except Commercial; Handballs; Shin Guards, Hockey.
Excludes Athletic and Sports Clothing.
- 7820 Games, Toys, and Wheeled Goods
Includes Baby Carriages; Checkers; Doll Carriages; Dolls; Playing Cards; Velocipedes; Handicraft Kits, not elsewhere classifiable.
- 7830 Recreational and Gymnastic Equipment
Includes Slides; Swings; Amusement Park and Shooting Gallery Equipment; Playyard and Playground Equipment; Billiard and Pool Tables and Equipment; Gymnasium Equipment.

GROUP 79

Cleaning Equipment and Supplies

- 7910 Floor Polishers and Vacuum Cleaning Equipment
Includes Domestic and Industrial Vacuum Cleaning Equipment; Carpet Sweepers.
Excludes Self-propelled and Trailer Mounted Vacuum Cleaners.
- 7920 Brooms, Brushes, Mops, and Sponges
Includes Squeegees; Whisk Brooms.
Excludes Hair Brushes; Toothbrushes; Paint and Artists' Brushes.
- 7930 Cleaning and Polishing Compounds and Preparations
Includes Scouring Powders; Washing Compounds; Detergents; Nontilet Soaps; Automobile and Household Polishes and Waxes.
Excludes Shaving Soap; Toilet Soap; Abrasive Polishing Compounds; Metal Finishing Abrasives; Surgical Detergents.

GROUP 80

Brushes, Paints, Sealers, and Adhesives

- 8010 Paints, Dopes, Varnishes, and Related Products

Includes Water Paints; Oil Paints; Driers; Wood and Wall Fillers; Lacquers, Paint Sealers; Pigments for Coloring; Stains; Turpentine; Paint Removers.
Excludes Acetone.

- 8020 Paint and Artists' Brushes
Excludes Airbrushes.
- 8030 Preservative and Sealing Compounds
Includes Fire Resistant Compounds; Water Resistant Compounds; Weather Resistant Compounds; Belt Dressing; Antiseize Compounds; Calking and Glazing Compounds; Putties. *Excludes* Food Preservative Compounds.
- 8040 Adhesives
Includes Glue; Mucilage; Sizes; Adhesive Cements.

GROUP 81

Containers, Packaging, and Packing Supplies

NOTE: A chest, case, box, roll, bag, or other container, when specifically designed for housing of a set, kit, outfit, or individual item (with or without attachments or spares), for its protection when not in use, or for the convenience of the user, is classified in the same class as the item or items for which designed, or in such other class as is appropriate. However, when the chest, case, box, roll, bag, or other container is primarily a shipping container, it is classified in group 81.

- 8105 Bags and Sacks
Includes Shipping and Protective Envelopes; Liners for Bags and Sacks; Textile and Paper Laminated Shipping Bags; Closures for Bags and Sacks.
- 8110 Drums and Cans
Includes Barrels; Kegs, Shipping and Storage Pails; Collapsible Tubes; Mailing and Filing Tubes; Closures for Drums and Cans.
- 8115 Boxes, Cartons, and Crates
Includes Shoe Boxes; Beer Cases; Pill Boxes; Piano Cases; Engine Boxes; Bomb-sight Boxes.
Excludes Special boxes, packages, and con-

tainers designed primarily for shipping, storage and handling of ammunition, nuclear ordnance, explosives, guided missiles, military chemical agents; and repairable /reusable containers specially designed for specialized equipment such as the "Shipping and Storage Containers" for components of aircraft, space vehicles, automotive vehicles, ships, ground communication equipment.

- 8120 Commercial and Industrial Gas Cylinders
NOTE: This class includes empty commercial and industrial gas cylinders and their caps, valves, and valve spare parts.
Excludes filled gas cylinders and items related to gaseous and liquefied gaseous dispensing systems, both mobile and installed. All components of installed gas dispensing systems are classified by "application" or "function" with the end equipment for which designed.
- 8125 Bottles and Jars
Includes Shipping Jugs and Carboys; Ampoules.
- 8130 Reels and Spools
- 8135 Packaging and Packing Bulk Materials
Includes Wrapping Paper; Moisture Vapor Barrier Paper; Excelsior; Wadding for Packing; Corrugated Paper; Baling Bands, Baling Ties; Shipping Tags; Gummed Paper Tape; Separators; Box Liners; Packaging Staples; Baling Wire; Performed Cushioning Inserts;
Excludes Adhesives; Aluminum Foil other than for food handling and processing.
- 8140 Ammunition and Nuclear Ordnance Boxes, Packages and Special Containers
NOTE: This class includes only containers and fittings which are specifically designed for the storage, handling, and shipping of ammunition, explosives, and military chemical agents.
Includes All shipping and storage containers specially designed for guided missiles, major missile sections, missile warheads, and other guided missile components.
Excludes General Purpose Containers, Shipping and storage reusable/repairable containers specially designed for components of aircraft, space vehicles, automotive vehicles,

ships, and ground communication equipment.

- 8145 Specialized Shipping and Storage Containers
NOTE: This class includes only reusable and repairable containers specially designed for shipping and storage of specialized equipment; i.e., shipping and storage containers for components of aircraft, space vehicles, automotive vehicles, ships, ground communication equipment, etc.
Includes Specially designed components (not elsewhere classifiable) peculiar to special shipping and storage containers as delimited under this class.
Excludes General purpose containers; specially designed containers for ammunition, nuclear ordnance, explosives, military chemical agents and guided missile components. Excluded from this class are items for which more specific classifications are suitable. The FSC indexes and structure will govern the classification of those items permitted classification in a single class only.

GROUP 83

Textiles, Leather, Furs, Apparel and Shoe Findings, Tents and Flags

- 8305 Textile Fabrics
NOTE: This class includes only textiles in bulk. Excluded from this class are items that are precut or performed, thus limiting their usefulness to specific applications. Such items are classified in the same class as the item or items for which designed or in such other class as is appropriate.
Includes Canvas Materials; Plastic Fabrics; Felt Materials; Netting, Plastic and Textile; Oilcloth, Textile Scrap.
Excludes Carpeting.
- 8310 Yarn and Thread
- 8315 Notions and Apparel Findings
Includes Buttons; Dressmakers' Pins; Needles; Shoulder Pads; Embroideries; Stamped Art Goods for Embroidery and Art Needlework; Hair Nets; Sewing Kits.
Excludes Yarn; Thread; General Purpose Buckles.
- 8320 Padding and Stuffing Materials

Includes Feathers and Downs, Processed; Spanish Moss, Processed; Cotton Wadding and Batting; Kapok.
Excludes Feathers and Downs, Unprocessed.

8325 Fur Materials

NOTE: This class includes only fur materials in bulk. Excluded from this class are items that are precut or performed, thus limiting their usefulness to specific applications. Such items are classified in the same class as the item or items for which designed, or in such other class as is appropriate.

Includes Crosses; Sacs; Fur Plates; Fur Mats.

8330 Leather

Includes Garment Leather; Patent Leather; Glove Leather; Shoe Leather; Upholstery Leather; Industrial Leather.

Excludes Belting; Shoe Findings.

8335 Shoe Findings and Soling Materials

Includes Counters; Taps; Shoe Laces; Lasts and Last Sole Patterns; Ornamental Shoe Buckles and Bows.

8340 Tents and Tarpaulins

NOTE: Fitted covers which are specifically designed for use on or with specific individual types of equipment are excluded from this class and are to be classified in the same classes as the items for which they are designed, or in such other classes as are appropriate.

Includes Tent Pins; Tent Poles; Multiple purpose covers of woven or unwoven fabrics, not for permanent installation.

8345 Flags and Pennants

Includes Signalling Flags; Flagstaffs; Signal Shapes; Flagpoles; Flagstaff Trucks; Speed Cones; Flagstaff Belts; Semaphore Flags.

8405 Outerwear, Men's

Includes Uniforms, Military and Non-military; Civilian Outerwear; Headwear; Work Clothing (Ordinary Nonsafety); Shirts; Trousers; Coats.

Excludes Items included in other classes such as Special Purpose Clothing; Helmets, Steel and Plastic; Safety Clothing; Handwear; Footwear.

8410 Outerwear, Women's

Includes Uniforms, Military and Non-military; Civilian Outerwear; Headwear; Work Clothing (Ordinary Nonsafety); Shirts; Skirts; Blouses.

Excludes Items included in other classes such as Special Purpose Clothing; Helmets, Steel and Plastic; Safety Clothing; Handwear; Footwear.

8415 Clothing, Special Purpose

NOTE: This class includes conventional winter, summer, and intermediate flight clothing ensembles and their components. Excluded from this class are specialized anti-exposure, antigravity, partial pressure, and full pressure, flight ensembles and their specialized components.

Includes Special Purpose Headwear, including Helmets, except Ballistic Protective; Safety and Protective Clothing; Athletic Clothing; Safety, Combat, Protective, and Work Gloves; Submarine Deck Exposure Clothing; Flight Clothing Components designed for use with both Specialized and Conventional Ensembles.

Excludes Sporting and Athletic Gloves; Athletic Footwear; Safety Footwear; Personal Armor; Special Hospital and Surgical Clothing.

Excludes special purpose clothing wherein the primary purpose is ballistic resistant protection. This class will include common use components of both ballistic and conventional end items.

8420 Underwear and Nightwear, Men's

8425 Underwear and Nightwear, Women's

Includes Corsets; Girdles.

8430 Footwear, Men's

GROUP 84

Clothing, Individual Equipment, and Insignia

NOTE: Where applicable, clothing items which are intended for use by both men and women are classified in the appropriate "men's" class.

Includes Rubber Footwear; Athletic Footwear; Safety Footwear; Submarine Deck Exposure Footwear.

- 8435 Footwear, Women's
Includes Rubber Footwear; Athletic Footwear; Safety Footwear.
- 8440 Hosiery, Handwear, and Clothing Accessories, Men's
Includes Handkerchiefs; Suspenders; Garters; Belts; Dress Handwear; Leggings, Non-safety Type.
- 8445 Hosiery, Handwear, and Clothing Accessories, Women's
Includes Handkerchiefs; Garters; Belts; Neckerchiefs; Handbags; Dress Handwear; Leggings, Nonsafety Type.
- 8450 Children's and Infants' Apparel and Accessories
Includes Footwear; Outerwear; Headwear; Handwear; Underwear; Nightwear.
- 8455 Badges and Insignia
NOTE: This class includes only items worn or carried on the person.
Excludes Nonpersonal Insignia.
- 8460 Luggage
Includes Foot Lockers; Brief Cases; Trunks; Suitcases.
Excludes Duffel Bags; Musette Bags.
- 8465 Individual Equipment
Includes Musette Bags; Duffel Bags; Ammunition Belts; Pistol Belts; Handcuffs; Packboards; Sleeping Bags; Knapsacks; Hikers' Packs; Sunglasses; Skis; Snowshoes; Swords with Scabbards.
Excludes Toilet Articles; Mess Gear; Fabric Utility Containers.
- 8470 Armor, Personal
Includes Clothing specially designed for use as personal armor.
Excludes All specialized flight clothing and accessories which may contain ballistic resistant properties as a secondary function.
Excludes special purpose clothing wherein the primary function is for purpose other

than ballistic protection.

- 8475 Specialized Flight Clothing and Accessories
Includes Specialized Antiexposure, Antigravity, Partial Pressure, and Full Pressure Ensembles, and Specialized Components therefor, including Unpressurized Protective Helmets, Eye Protective Devices, and items with Sound Attenuating Features.
Excludes Conventional Winter, Summer, and Intermediate Flight Clothing Ensembles, and Components therefor; Components designed for use with both Specialized and Conventional Flight Clothing Ensembles.

GROUP 85 Toiletries

NOTE: Excluded from this group are medicated cosmetics and toiletries that have been determined to be drugs in accordance with the Federal Food, Drug, and Cosmetic Act. For medicated cosmetics and toiletries, see class 6508.

- 8510 Perfumes, Toilet Preparations, and Powders
Includes Colognes; Cosmetics; Deodorants; Depilatories; Toilet Waters.
- 8520 Toilet Soap, Shaving Preparations, and Dentifrices
Includes Toothpaste; Shaving Soap.
Excludes Medicated Soaps.
- 8530 Personal Toiletry Articles
Includes Hair Brushes; Nail Brushes; Nail Files; Toothbrushes; Manicure and Pedicure Implements; Razors and Blades.
Excludes Dental Floss.
- 8540 Toiletry Paper Products
Includes Facial Tissues; Paper Toilet Seat Covers; Toilet Paper; Paper Napkins; Doilies.
Excludes Towel Dispensers; Paper Plates and Cups.

GROUP 87 Agricultural Supplies

- 8710 Forage and Feed

Includes Hay; Manufactured Feed; Straw; Zoological Animal Food.

8720 Fertilizers
Includes Natural and Synthetic Fertilizers; Peat Moss; Animal Manures.

8730 Seeds and Nursery Stock
Includes Cut Flowers.

GROUP 88
Live Animals

8810 Live Animals, Raised for Food

8820 Live Animals, Not Raised for Food

GROUP 89
Subsistence

NOTE: Subsistence items which are specifically prepared for dietetic use are classified in class 8940. Nondietetic foods, even though they bear the same approved item names as corresponding dietetic foods, are classified in classes other than 8940.

8905 Meat, Poultry, and Fish
Includes Game Birds; Shellfish; Sausage Casings.

8910 Dairy Foods and Eggs
Includes Ice Cream; Frozen Custards; Ice Cream Mixes; Rennet; Milk Sherbets; Ices.

8915 Fruits and Vegetables
Includes Baked Beans; Juices.

8920 Bakery and Cereal Products
Includes Flour; Prepared Flour; Prepared Cereals; Macaroni.

8925 Sugar, Confectionery, and Nuts
Includes Candy; Chewing Gum; Honey; Maple Syrup.

8930 Jams, Jellies, and Preserves

8935 Soups and Bouillons

8940 Special Dietary Foods and Food Specialty Preparations

Includes Infant Foods; Potato Chips; Prepared Pie and Cake Fillings.

8945 Food, Oils and Fats

8950 Condiments and Related Products
Includes Salad Dressings; Spices; Seasonings; Flavoring Extracts; Yeast; Olives.

8955 Coffee, Tea, and Cocoa
Includes Postum; Yerba Mate; Chicory.

8960 Beverages, Nonalcoholic
Includes Soft Drinks; Ice.

8965 Beverages, Alcoholic
Includes Beer; Whisky; Wine; Liqueur.
Excludes Sacramental Wine and Medicinal grade Brandy, Whisky, and Wine.

8970 Composite Food Packages
Includes Ration Packs and Emergency Rations; CARE Packages.

8975 Tobacco Products
Includes Snuff; Cigarettes; Cigars.

GROUP 91
Fuels, Lubricants, Oils, and Waxes

9110 Fuels, Solid
Includes Ration Heating Tablets; Cordwood; Charcoal; Briquettes; Coke.
Excludes Peat.

9130 Liquid Propellants and Fuels, Petroleum Base
NOTE: This class includes liquid propellants with more than 50% or higher petroleum content.
Includes All Aviation Gasoline; JP-1, 3, 4, and 5 Jet Fuel; Combat Vehicle and Automotive Gasoline (all types and grades); Liquid Propellants, Bulk; Liquid Propellants, predetermined to specify quantity and quality, packaged in reusable containers.
Excludes Solid Propellants; Liquid Propellants, encased in consumable containers, for insertion into missile propulsion systems as integral parts.

9135 Liquid Propellant Fuels and Oxidizers, Chemical Base

NOTE: This class includes liquid propellants with more than 50% or higher chemical content.

Includes Liquid chemicals designed exclusively for use as propellant fuels and oxidizers; Liquid Propellants, Bulk; Liquid Propellants, predetermined to specific quantity and quality, packaged in reusable containers.

Excludes Multiple-use chemicals, such as Nitrogen, Technical; Ammonia, Technical; Furfuryl Alcohol, Technical; Aniline, Technical, Solid Propellants; Liquid Propellants, encased in consumable containers for insertion into missile propulsion systems as integral parts.

9140 Fuel Oils

Includes Light Burner Fuels; Diesel Fuels, Kerosene; Military Specification Type Residuals; Special and Heavy Grade Turbine Vessel Propulsion Fuels; Federal Specification Heavy Burner Fuels; Bunker "C" Commercial Grade Fuel; Heavy Fuel and other Black (Boiler Type) Fuels; Illuminating Oils.

9150 Oils and Greases: Cutting, Lubricating, and Hydraulic

Includes Petrolatum, except USP.

Excludes Rust Preventive Compounds; Antiseizing Compounds; Petrolatum USP.

9160 Miscellaneous Waxes, Oils, and Fats

Includes Animal, Vegetable, and Petroleum Waxes; Wool Grease (Lanolin); Tallow; Marine Oils; Coconut Oil; Soap Stock; Essential Oils, except USP or NF grades.

Excludes Edible Fats and Oils; Household and Automobile Waxes.

GROUP 93

Nonmetallic Fabricated Materials

9310 Paper and Paperboard

Includes Book Paper Stock; Newsprint; Paperboard; Bulk Paper Materials.

Excludes Corrugated Paper; Wrapping Paper; Building Board; Insulating Board; Stationery; Construction Paper; Paper Towels; Facial Tissues; Blank Books; Containers; Shipping and Identification Tags.

9320 Rubber Fabricated Materials

Includes Natural and Synthetic Rubber Fabricated Materials, such as Rubber Sheets, Structural Rubber Shapes, Strips.

9330 Plastics Fabricated Materials

Includes Cellulose Acetate and other plastics; Bars, Rods, Sheets, and Strips.

Excludes Cable, Fiber Optic.

9340 Glass Fabricated Materials

Includes Glass Rods, Bars, and Tubing; Optical Glass Blanks.

Excludes Insulators; Ophthalmic Glass Blanks; Cable, Fiber Optic.

9350 Refractories and Fire Surfacing Materials

9390 Miscellaneous Fabricated Nonmetallic Materials

Includes Cork Fabricated Basic Materials; Asbestos Fabricated Materials; Manufactured Mica; Minerals for scientific and technical use (cut but not mounted); Pottery Supplies; Catgut and Wormgut; Vegetable Brush Fibers; Bagasse.

GROUP 94

Nonmetallic Crude Materials

9410 Crude Grades of Plant Materials

Includes Flavoring Materials; Crude Drugs of Plant Origin; Crude Materials for Perfume; Tobacco; Unmanufactured.

9420 Fibers: Vegetable, Animal, and Synthetic

Includes Cotton, Wool, Silk, Horsehair, Rayon, and Nylon Fibers.

9430 Miscellaneous Crude Animal Products, Inedible

Includes Feathers and Downs, Unprocessed; Ivory; Bristles; Hides and Fur Skins, Crude.

9440 Miscellaneous Crude Agricultural and Forestry Products

Includes Cereal Grains; Sugar Crops; Crude Rubber.

9450 Nonmetallic Scrap, Except Textile

GROUP 95

Metal Bars, Sheets, and Shapes

- 9505 Wire, Nonelectrical, Iron and Steel
Excludes Wire having electrical resistivity or conductivity rating; Baling Wire.
- 9510 Bars and Rods, Iron and Steel
Excludes Muck Bar; Rods for Wire; Sheet Bar.
- 9515 Plate, Sheet, Strip and Foil; Iron and Steel
Includes Armor Plate; Black Plate; Floor Plate; Perforated Sheet and Strip.
Excludes Bale Ties; Baling Bands; Hoops.
- 9520 Structural Shapes, Iron and Steel
Includes Bar Size Shapes (under 3"); Metal Piles and Piling.
- 9525 Wire, Nonelectrical, Nonferrous Base Metal
Excludes Wire having electrical resistivity or conductivity rating.
- 9530 Bars and Rods, Nonferrous Base Metal
- 9535 Plate, Sheet, Strip, and Foil: Nonferrous Base Metal
Includes Leaf; Perforated Sheet and Strips.
- 9540 Structural Shapes, Nonferrous Base Metal
Includes Angles; Channels; Tees; Zees.
- 9545 Plate, Sheet, Strip, Foil, and Wire: Precious Metal
Includes Bars; Leaf; Ribbon, Rods; Tubing.
Excludes Precious Metals for dental use.

GROUP 96

Ores, Minerals, and Their Primary Products

- 9610 Ores
Includes Buxite; Ferrous Ores; Lead Ores; Precious Metal Ores; Radioactive Metal Ores; Zinc Ores.
- 9620 Minerals, Natural and Synthetic
Includes Clays and other Earths; Mica; Asbestos; Crude Petroleum; Graphite.
Excludes Gravel; Sand; Abrasives; Foundry Bentonite Clay; Refractory Clays.

- 9630 Additive Metal Materials and Master Alloys
Excludes Fuel Additives.
- 9640 Iron and Steel Primary and Semifinished Products
Includes Ingots; Pigs; Billets; Blooms; Muck Bar; Rods for Wire; Sheet Bar; Skelp; Tube Rounds.
- 9650 Nonferrous Base Metal Refinery and Intermediate Forms
Includes Ingots; Slabs.
- 9660 Precious Metals Primary Forms
Includes Bullion; Ingot.
Excludes Precious Metals for dental use.
- 9670 Iron and Steel Scrap
- 9680 Nonferrous Metal Scrap

GROUP 99

Miscellaneous

- 9905 Signs, Advertising Displays, and Identification Plates
Includes Electric Signs; Sign Boards; Display Stands; Mannequins and other display forms; Printed Signs; General Purpose Identification Tags and Blanks, Nonpersonal; Plates and Tags for specific applications.
- 9910 Jewelry
Includes Jewelers' Findings; Precious Stones, Cut; Costume Jewelry; Natural Gems and Ornamental Stones, Cut.
Excludes Watches; Clocks; Tableware; Scientific Instruments; Toilet Articles; Smokers' Articles; Industrial Diamonds.
- 9915 Collectors and/or Historical Items
Includes Antiques; Artifacts; Coins; Stamps; Rare Books; Work of Art, Collectors and/or Historical Gems; Jewelry, and Cut Precious Stones; Natural History Items.
- 9920 Smokers' Articles and Matches
Includes Cigarette Lighters; Lighter Fluid; Pipe Reamers; Ash Trays; Tobacco Humidors; Packaged Cigarette Paper.
Excludes Ash receivers and lighters specifically designed for installation in or on

equipment.

- 9925 **Ecclesiastical Equipment, Furnishings, and Supplies**
Includes Vestments; Altars; Communion Sets; Ecclesiastical Candelabra; Chalices; Patens; Altar Clothes; Ecclesiastical Statuary; Sacramental Wine.
- 9930 **Memorials; Cemeterial and Mortuary Equipment and Supplies**
Includes Grave Markers; Burial Vaults; Burial Urns; Caskets; Burial Boxes; Morticians' Supplies; Monuments; Casket Shipping Cases.
Excludes Hearses; Mortuary Refrigerators.
- 9999 **Miscellaneous Items**
Includes Only those items which cannot conceivably be classified in any existing classes.



APPENDIX A

PROCEDURES FOR CHANGING PRODUCT AND SERVICE CODES

The following procedures shall be followed by agencies in obtaining approval for the use of new product or service codes in the Federal Procurement Data System (FPDS):

A. Adding, Deleting, or Revising Product Codes

1. The Federal Supply Classification Coding System is used to classify supplies and equipment in the FPDS. Any proposals for new codes or requests for changes to existing codes must be submitted as follows: (1) civilian agencies must send requests to the Federal Supply Service in the General Services Administration and (2) defense agencies must send requests to the Directorate of Cataloging, Defense Logistics Service Center, Battle Creek, Michigan. All requests are reviewed for approval by the Defense Logistics Service Center. Further information on the Federal Supply Classification appears in Volume 3 of the Department of Defense, Defense Integrated Data System (DIDS) Procedural Manual, DOD 4100.39-M.

2. Submit a copy of DLSC approval notification to the Federal Procurement Data Center (FPDC). The FPDS Product and Service Code (PSC) File shall be updated immediately and the changes included in the next scheduled amendment to the Product and Service Code Manual.

B. Adding New Service Codes

1. Submit a written request to the Federal Procurement Data Center (FPDC) outlining the need for the new service code. The request shall include: (1) brief description of proposed new service code with a suggested short title description; (2) authority for new code, e.g. law, regulation, or some other agency requirement; (3) statement on expected contract obligations, extent of congressional interest (if any), or other reasons for separately reporting the information to the FPDS; and (4) statement that no redundancy exists with any present FPDS product or service code.

2. The FPDC shall review the request for completeness and forward a copy of the request with its recommendation to OFPP.

3. OFPP shall either approve or disapprove the request stating the rationale for a disapproval.

4. FPDC shall notify the requestor in writing of the decision and forward a copy of the letter to OFPP.

5. If the request is approved, the FPDS PSC file shall be updated immediately.

6. Periodically, FPDC shall issue amendments to the FPDS Product and Service Code Manual incorporating all approved new codes.

C. Revising or Deleting Existing Service Codes

1. Submit a written request to the FPDC with appropriate justification as set forth in Part B above.

2. The FPDC shall review the request for completeness including coordination with other agencies that use the code and forward a copy with its recommendation to OFPP.

3. Above procedures in Part B for items 3, 4, 5 and 6 apply (if applicable).

D. Other Circumstances

1. Should the FPDC detect any anomalies in the coding structure that could require a code to be deleted or changed, the Center must notify OFPP in writing stating the need for the change. Subsequent to agencies review and OFPP approval, the FPDS PSC file shall be updated immediately. The change will be included in the next scheduled amendment to the Product and Service Code Manual.

2. Periodically, FPDC shall review usage of PSC codes to determine if specific codes should be retained as active codes. OFPP shall notify agencies of intent to inactivate a code and allow 60 days for comments. If no comments are received, FPDC shall inactivate the code in the FPDS PSC file and include the change in the next scheduled amendment to the Product and Service Code Manual.

APPENDIX B

DEFINITIONS APPLICABLE TO "GENERAL SCIENCE AND TECHNOLOGY R&D" CATEGORY

Report codes from the AJ category only after all other R & D categories have been considered and rejected as not being appropriate for the action being reported.

"Not elsewhere classified" is used for multidisciplinary projects within a primary field and for single discipline projects for which a separate discipline code has not been assigned.

AJ1_ Physical Sciences. Physical sciences are concerned with the understanding of the material universe and its phenomena. They comprise the fields of astronomy, chemistry, physics, and physical sciences not elsewhere classified. Examples of disciplines under each of these fields are:

Astronomy

- Laboratory Astrophysics
- Optical Astronomy
- Radioastronomy
- Theoretical Astrophysics
- X-Ray, Gamma-ray, Neutrino Astronomy.

Chemistry

- Inorganic
- Organo-Metallic
- Organic
- Physical

Physics

- Acoustics
- Atomic and Molecular
- Condensed Matter
- Elementary Particles
- Nuclear Structure
- Optics
- Plasma

Physical Sciences not elsewhere classified

AJ2_ Mathematical and Computer Sciences. Mathematical and computer sciences employ logical reasoning with the aid of symbols and are concerned with the development of methods of operations employing such symbols. Examples of disciplines under each of these fields are:

Mathematics

- Algebra
- Analysis
- Applied Mathematics
- Foundations and Logic
- Geometry
- Numerical Analysis
- Statistics
- Topology

Computer Sciences

- Computer Programming
- Computer and Information Sciences (General)
- Design, Development, and Application of Computer Capabilities to Data Storage and Manipulation
- Information Sciences and Systems
- Systems Analysis
- Telecommunications

Mathematical and Computer Sciences not elsewhere classified

J3_ Environmental Sciences. Environmental sciences: (terrestrial and extraterrestrial) are concerned with the gross nonbiological properties of the areas of the solar system that directly or indirectly affect man's survival and welfare; they comprise the fields of atmospheric sciences, geological sciences, oceanography, and environmental sciences not elsewhere classified. Examples of disciplines under each of the fields are:

Atmospheric Sciences

- Aeronomy
- Solar
- Weather Modification
- Extraterrestrial Atmospheres
- Meteorology

Geological Sciences

- Engineering Geophysics
- General Geology
- Geodesy and Gravity
- Geomagnetism
- Hydrology
- Inorganic Geochemistry
- Isotopic Geochemistry
- Organic Geochemistry

Laboratory Geophysics
Paleomagnetism
Paleontology
Physical Geography and Cartography
Seismology
Soil Sciences

Oceanography

Biological Oceanography
Chemical Oceanography
Geological Oceanography
Physical Oceanography
Marine Geophysics

Environmental Sciences not elsewhere classified.

AJ4 . Engineering. Engineering is concerned with the studies directed toward developing engineering principles or toward making specific scientific principles usable in engineering practice. Engineering is divided into eight fields: aeronautical, astronautical, chemical, civil, electrical, mechanical, metallurgy and materials, and engineering not elsewhere classified. Examples of disciplines under each of these fields are:

Aeronautical

Aerodynamics

Astronautica

Aerospace
Space Technology

Chemical

Petroleum
Petroleum Refining
Process

Civil

Architectural
Hydraulic
Hydrologic
Marine
Sanitary and Environmental
Structural
Transportation

Electrical

Communications
Electronic
Power

Mechanical

Engineering Mechanics

Metallurgy and Materials

Ceramic
Mining
Textile
Welding

Engineering not elsewhere classified including

Agricultural
Bioengineering
Biomedical
Industrial and Management
Nuclear
Ocean engineering
Systems
Other

AJ5_ Life Sciences. Life Sciences consist of five detailed fields: biological (excluding environmental), environmental biology, agricultural, medical, and life sciences not elsewhere classified. The illustrative disciplines provided below under each of these detailed fields are intended to be guidelines, not sharp definitions, as to what should be reported under a particular field; they represent examples of disciplines generally classified under another detailed field when the major emphasis is elsewhere. Research in biochemistry could be reported as biological, agricultural, or medical, depending on the orientation of the project; human biochemistry should be classified under biological, but animal biochemistry or plant biochemistry should be under agricultural.

Biological Sciences (excluding environmental biology)

Anatomy
Biochemistry
Biology
Biometry and Biostatistics
Biophysics
Botany
Cell Biology
Entomology and Parasitology
Genetics

Microbiology
Neuroscience (Biological)
Nutrition
Physiology
Zoology
Other Biological Science not elsewhere classified

Environmental Biology

Ecosystem Sciences
Evolutionary Biology
Limnology
Physiological Ecology
Population Biology
Population and Biotic Community Ecology
Systematics
Other Environmental Biology not elsewhere classified

Agricultural Sciences

Agronomy
Animal Sciences
Food Science and Technology
Fish and Wildlife
Forestry
Horticulture
Plant Sciences
Soils and Soil science
Phytopathology
Phytoproduction
Agriculture, General
Aquaculture and Hydroponics
Other Agriculture sciences not elsewhere classified

Medical Sciences

Internal Medicine, Neurology, Obstetrics and Gynecology
Ophthalmology, Otolaryngology
Pediatrics
Preventive Medicine
Pathology
Pharmacology
Psychiatry
Radiology
Surgery
Dentistry
Pharmacy
Veterinary Medicine

Other Medical Sciences not elsewhere classified

Life Sciences not elsewhere classified

AJ6_ Psychological Sciences. Psychology deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology is divided into three categories: biological aspects, social aspects, and psychological sciences, not elsewhere classified. Examples of the disciplines under each of these fields are:

Biological Aspects

- Experimental Psychology
- Animal Behavior
- Clinical Psychology
- Comparative Psychology
- Ethology

Social Aspects

- Social Psychology
- Educational, Personnel, Vocational Psychology and Testing
- Industrial and Engineering Psychology
- Development and Personality

Psychological Sciences not elsewhere classified

AJ7_ Social Sciences. Social sciences are directed toward an understanding of the behavior of social institutions and groups and of individuals as members of a group. Social sciences include anthropology, economics, history, linguistics, political science, sociology, and social sciences not elsewhere classified. Examples of disciplines under the fields of social science are:

Anthropology

- Archaeology
- Cultural and Personality
- Social and Ethnology
- Applied Anthropology

Economics

- Econometrics and Economic Statistics
- History of Economic Thought
- International Economics
- Industrial, Labor and Agricultural Economics
- Macroeconomics
- Public Finance and Fiscal Policy

Theory
Economic Systems and Development

History

Linguistics

Anthropological – Archaeological
Computational
Psycholinguistics
Sociolinguistics

Political Science

Area or Regional Studies
Comparative Government
History of Political Ideas
International Relations and Law
National Political and Legal Systems
Political Administration

Sociology

Comparative and Historical
Complex Organizations
Culture and Social Structure
Demography
Group Interactions
Social Problems and Social Welfare
Sociological Theory

Social Sciences not elsewhere classified including

Research in Law and Education not elsewhere classified
Socioeconomic Geography
Other Social Sciences

AJ9_ Other Sciences not elsewhere classified

Multidisciplinary and interdisciplinary projects that cannot be classified within one of the above fields
Metrology and other measurement related phenomena

