

66347

SECRET - SECURITY INFORMATION

July 24, 1952

COMPARISON OF SELECTED ITEMS
IN
JAPANESE EXPORT CONTROL LIST
WITH
COCOM CHINA LIST AND UK SUPPLEMENTAL

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Part II

(Item 14 through Conclusion)

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State, Commerce declassification & release instructions on file

7/24/1952
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| No. | Definition | No. | Definition |
|-------------------------------------|---|------|--|
| 14 | All fertilizers and materials: 1) Intermediate 2) Finished | 2741 | Nitric acid; ammonium nitrate; potassium nitrate. |
| Remarks: Japanese coverage broader. | | | |
| 16 | All scientific, precision or professional instruments, apparatus, parts, attachments, accessories and supplies (except hand-operated office machines) | 1501 | Communication equipment of a kind exclusively designed for use in an aircraft; <u>and</u> specialized parts therefor. |
| | | 1502 | Communication equipment of a kind using infra-red radiation or ultrasonic waves; <u>and</u> specialized parts therefor. |
| | | 1505 | Ionosphere recording apparatus, fully automatic. |
| | | 1507 | 'Jamming' apparatus (i.e., apparatus specially designed to jam or otherwise interfere with radio reception); <u>and</u> specialized parts therefor. |
| | | 1509 | Location apparatus, as follows: a) Apparatus of a kind used for detecting objects or for determining the relative direction, position, or motion, of objects - by means of the constant velocity or rectilinear-propagation characteristics of electromagnetic waves having frequencies between 10^6 cycles per second (3 meters - 100 megacycles) and 4×10^{14} cps (0.75 microns); b) Specialized parts and accessories of such apparatus; c) Specialized equipment for testing or calibrating such apparatus. |
| | | 1510 | Location apparatus, under-water: apparatus for detecting or locating objects under water (<u>excluding</u> specific civil items, e.g., apparatus for detecting shoals of fish). |
| | | 1512 | Radar equipment, and radio navigation equipment (other than direction-finders), operating at frequencies below 100 megacycles per second. |
| | | 1514 | Pulse modulators capable of providing electric impulses of peak power exceeding 10 KW; <u>and</u> pulse transformers and pulse-forming equipment being specialized parts of such modulators. |
| | | 1516 | Radio receivers, panoramic (being receivers which search automatically a part of the radio-frequency spectrum and indicate visibly the signals received); <u>and</u> specialized parts therefor. |
| | | 1518 | Telecontrol equipment suitable for controlling pilotless aircraft and guided weapons. |
| | | 1521 | Amplifiers, as follows: a) Amplifiers, high gain, stable linear pulse designed to operate within the range of 50 |

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| 16 (Cont.) | | 1521 | cycles per second to 10 megacycles per second, and of input resistance not less than 10 megohms; b) Direct-current amplifiers (electronic or magnetic); c) Amplifiers (electronic or magnetic) with gain control calibrated to indicate change in gain to an accuracy of a quarter of a decibel or better; d) Amplifiers (electronic or magnetic) with a monimal logarithmic relationship between gain and input voltages. |
| | | 1522 | Antenna pattern recorders for use at frequencies over 250 megacycles per second. |
| | | 1525 | Coaxial-type cables, as follows: a) Cables of very low attenuation and high uniformity, as used for frequencies of the order of magnitude of 3000 megacycles and above; b) Cables of all types with polytetrafluoroethylene dielectric (i.e. teflon). |
| | | 1528 | Frequency meters of the following kinds: a) Frequency meters designed for measuring frequency of 600 megacycles per second or above; <u>and</u> specialized components thereof; b) Frequency meters of the frequency-synthesis type (being instruments by which signals with adjustable frequencies, known to an accuracy of one part in a million, are produced by the heterodyne combination of signals from crystal-controlled oscillators). |
| | | 1531 | Radio field strength meters of a kind used at frequencies over 60 megacycles per second; <u>and</u> specialized parts therefor. |
| | | 1532 | Radio-frequency signal generators (being screened electric oscillators associated with attenuators of a kind used to provide signals having frequencies exceeding 300 megacycles per second and magnitude less than 1 microwatt or 10 millivolts peak value); <u>and</u> specialized parts therefor. |
| | | 1533 | Radio spectrum analyzers (being apparatus capable of indicating the single-frequency components of multifrequency oscillations having frequencies exceeding 30 kilocycles per second); <u>and</u> specialized parts of such analyzers. |

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| 16 (Cont.) | | 1537 | Special tuned circuits, as follows: a) Electromagnetic waveguides, resonant circuits, and radiators of a kind used at frequencies exceeding 600 megacycles per second; b) Articles or equipment incorporating, or designed to be connected to or to be incorporated in, any such waveguide, circuit, or radiator. |
| | | 1541 | Cathode-ray tubes, with screen afterglow longer than 1/2 second. |
| | | 1544 | Diodes and triodes, as follows (and specialized parts therefor): a) Crystal diodes of a kind used at frequencies of 500 or more megacycles per second; b) Crystal triodes, regardless of frequencies. |
| | | 1548 | Photoelectric cells with peak sensitivity at a wave length longer than 7000 Angstrom units. |
| | | 1549 | Photomultiplier tubes; and specialized parts therefor. |
| | | 1552 | Rectifier or amplifier tubes, cold-cathode types. |
| | | 1555 | Television camera tubes; and other tubes in which provision is made for the storage of electric charge in a spatial pattern. |
| | | 1558 | Valves (tubes), electronic, of the following kinds and specialized parts therefor): a) Those of a kind used with a potential difference exceeding 9000 volts between electrodes; b) Those of a kind used at frequencies over 250 megacycles per second; c) Those of a kind that can be passed through a circular hole 1/2" (1.27 cm) in diameter; d) Those designed to withstand severe mechanical vibration or shock. |
| | | 1561 | Absorption meters, infra-red. |
| | | 1563 | Balances, as follows: a) Balances, electronic - capable of detecting differences in weight smaller than 10 micrograms; and specialized parts therefor; b) Balances of sensitivity of .01 milligrams or better. |
| | | 1565 | Computers, electronic (except business-type calculating machines). |
| | | 1567 | Densitometers measuring directly by photo-multiplier tube. |
| | | 1569 | Electrometers (except student type). |

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| 16 (Cont.) | | 1571 | Geophysical prospecting equipment, as follows: a) Seismeters; b) Gravimeters; c) Electronic or fluxgate magnetometers (including air borne magnetometers); d) Complete seismic exploration recording equipment, portable or designed for truck mounting; and the following units when specifically designed and/or designated therefor: 1) Amplifiers with automatic volume control; 2) Variable filters; 3) Synchronized timing-photographic recording equipment (including recording oscillographs), and parts specifically designed therefor; 4) Geophones; and parts specifically designed therefor; 5) Electromagnetically-damped galvanometers; 6) Equipment for surface shooting, employing shaped charges. |
| | | 1573 | Impedance-measuring apparatus (apparatus of a kind used to measure electric impedance at frequencies over 60 megacycles per second); and specialized parts therefor. |
| | | 1575 | Leak-detecting instruments (instruments capable of detecting small leaks of gases under high vacuum or high pressure). |
| | | *1577 | Meteorological sounding balloons, 1100 grams or larger. |
| | | 1578 | Micro-hardness testers. |
| | | 1579 | Microscopes of the following kinds: a) Electronic; b) Metallurgical - consisting of microscopes (whether or not in combination with a camera and mounted, or capable of being mounted, on a rigid optical bench - i.e. a metallograph) which possess, or are capable of adaptation to include the following: i) An illumination system by which the light beam enters the microscope axially and is projected through the objective lens to the specimen under observation; and ii) A tube of a length which, when used with a lens capable of magnification to 75 times or greater, will obtain a flat field of view wherein all parts of the specimen under observation are simultaneously in sharp focus. |

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| 16 (Cont.) | | 1582 | Optical curve generators (grinders, surfacers, and polishers) and parts, capable of producing: a) Aspherical curves; b) Toric, cylinder, or spherical surfaces on glass or other material without the use of mating surfaces or laps. |
| | | 1583 | Oscillographs, recording. |
| | | 1584 | Oscilloscopes (cathode-ray) and accessories, of the following kinds (and specialized parts therefor): a) With time basis shorter than 2 microseconds; b) Designed to incorporate 3 or more cathode-ray tubes; c) Oscilloscope cameras. |
| | | 1586 | Pyrometers, as follows: a) Optical pyrometers - disappearing-filament types; b) Radiation type pyrometers with sensitive receiver consisting of either a thermocouple (with or without protecting tube) or a "sighting" device whereby heat is focused on a thermopile by a lens or mirror. |
| | | *1587 | Quartz crystals and plates. |
| | | 1589 | Resistors, temperature-sensitive (of a kind used in bolometers or in the measurement of electric power below 10 milliwatts but excluding electric lamps. |
| | | 1591 | Spectrographs, spectrometers, and monochrometers as follows: a) Grating types with, or designed for use with, diffraction gratings (originals or replicas, plane or concave); and gratings therefor; b) Prism types, (1) capable of a spectrum length of 20 cms between 9000 and 2000 Angstrom units, or (2) designed for use with prisms having refracting face 35 mm or more in width; c) Infra-red types, having, when of prism pattern, an effective total prism base length over 2" (5 cm). |
| | | 1592 | Strain gauge equipment, electric recording; and specialized parts therefor. |
| | | 1594 | Voltmeters, as follows: a) Portable DC vacuum tube voltmeters with full scale range of 1 millivolt or less, with or without AC adapters; b) Portable AC vacuum tube voltmeters of laboratory type with full scale range of 0.01 millivolt or less. (Note: This excludes voltmeters specially designed for testing telephone lines.) |
| | | 1596 | Warburg apparatus for the examination of living tissue. |
| | | 1598 | -ray flows: |

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| 16 (Cont.) | | 1598 | X-ray diffraction equipment, as follows: a) X-ray diffraction units; b) X-ray tubes designed or intended for use in X-ray diffraction analysis. |
| | | 1599 | X-ray tubes 1000 PKV and over. |
| | | 1910 | Optical glass (slab or rough mouldings), as follows: a) Raw optical glass; b) Raw optical filter glass. |
| | | *1920 | Paper or synthetic film for dielectric use (condenser tissue), coated or uncoated, 0.0015" (.038 mm) or less in thickness. |
| | | 2521 | Sub-miniature electronic-circuit components. |
| | | 2541 | Crystal diodes incorporating germanium or silicon of a kind used at frequencies below 500 megacycles per second. |
| | | 2545 | Vacuum valves (tubes), electronic capable of conducting a peak current greater than 10 amperes (except those covered by Item 1558). |
| | | 2570 | Electric or electronic impulse registers or counters designed to operate at over 20 counts per second. |
| | | 2580 | pH meters, and pH control apparatus, for industrial processes. |
| | | 3561 | Bridges for measuring capacitance impedance, inductance, and/or resistance - precision types. |
| | | 3580 | Voltmeters, ammeters, and microammeters (including portable test type) precision indicating types with an accuracy of 0.5% of full scale deflection. |
| | | <u>Supp.</u> | Telescopes and binoculars. |
| | | <u>Supp.</u> | Precision scientific and optical instruments capable of being used in the development, production and testing of military equipment. |

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| 17 | All machinery, equipment, parts, accessories, attachments, apparatus and controls of the following types: (1) Construction, excavating, dredging, loading or surfacing. | *1130 | Compressors, as follows: a) Compressors capable of delivering air, gases, or vapors at pressures exceeding 300 psi (21 kg per sq cm); b) Compressors, n.e.s. and parts, regardless of delivery pressures and capacities, when fabricated of, or lined with, any corrosion-resistant material. (For other compressors see item 1380). |
| | | 1321 | Tractors, diesel or gasoline powered 60 bclt h.p. and over (50 drawbar h.p. and over): a) Wheel; b) Tracklaying. |
| | | 1325 | Excavating and moving equipment as follows, when specially designed for airborne transport: a) Excavators; b) Power shovels; c) Cranes. |
| | | *1380 | Compressors and blowers, as follows (also see item 1130): a) Turbo compressors or blowers capable of operating at either (1) speeds of 8,000 rpm or over, or (2) with internal air flow at any point exceeding a Mach. number of 0.7; b) Compressors or blowers capable of an overall compression ratio of 2:1 or more, coupled with a capacity of over 35,000 cu ft (991 cu m) per minute; c) Compressors or blowers capable of handling a mass flow of over 2500 pounds (1130 kg) per minute and designed for operating with intake above atmospheric pressure |
| | | *1822 | Pneumatic tire casings for soil compactors of 10 tons or over net vehicle weight, whether or not mounted on the vehicle. |
| | | *2210 | Welding sets for ferrous and non-ferrous metals, electrical (including high frequency), all types. |
| | | *2326 | Off-the-road trucks, wagons, and trailers, |
| | | 2401 | Dredges and specialized dredge equipment and components, such as grabs, buckets, cutters, ladders, centrifugal pumps, and floating and shore pipelines. |
| | | *3131 | All pumps (except vacuum pumps) delivering liquids separately or in combination with solids and/or gases, with all the following characteristics: (a) designed for working pressures of 75 psig and under 300 psig; (b) designed to operate continuously at temperatures under 200 degrees F; (c) not fabricated of or lined with any corrosion-resistant materials. |
| | | 3321 | Road and airport machinery: a) Concrete mixers (stationary and portable, including truck and trailer mounted) and concrete transport truck mounted agitators 18 cubic feet capacity and over; |

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| 17 (Cont.) | | <u>Supp.</u> | Cranes |
| | | <u>Supp.</u> | Excavators including power shovels. |
| | | <u>Supp.</u> | Bulldozers, angledozers, and trail builders. |
| Remarks: Japanese list broader. | | | |
| 17 Cont. (2) | Transportation, communi- cations, conveying or agricul- tural, including supplementary and service (except bicycles and parts only, children's vehicles, water craft under 18 feet in length and hand- powered agricultural ma- chinery. | *1255 | Diesel engines, marine types, of 1500 h.p. or over, with rotary speed of 200 rpm or over. |
| | | *1256 | Diesel engines, all types, with the following characteris- tics: a) 200 to 300 h.p. with rotary speed of 1,000 rpm or over; b) 300 to 800 h.p. with rotary speed of 600 rpm or over; c) Over 800 h.p. with rotary speed of 400 rpm or over. |
| | | *1260 | Electric motors, reversible types, over 1,000 h.p.; and auto- matic controls for starting, stopping and reversing such motors. |
| | | *1265 | Internal combustion marine engines, carburetor types, outboard over 50 h.p. |
| | | 1401 | Floating docks. |
| | | 1405 | Ice breakers (i.e., ships con- structed specifically for the pur- pose of breaking ice) of 2000 total h.p. or over. |
| | | 1410 | Tankers; tank barges, whaling factories. |
| | | 1415 | Warships (whether or not converted to non-military use and regard- less of current state of repair or operating condition); <u>and</u> hulls, or parts of hulls, for such ships. |
| | | 1425 | Batteries (submarine). |
| | | 1430 | Cables (multicore) suitable for harbour defense purposes and mine- sweeping. |
| | | 1450 | Automotive vehicles, or chassis, in which power may be applied to all wheels; <u>and</u> specialized components thereof. |
| | | 1470 | Flat cars with a load capacity of 40 tons or over |
| | | 1475 | Tank cars (rail) with a load capa- city of over 10 tons. |
| | | 1480 | Well cars with a load capacity of over 10 tons. |
| | | 1485 | Gyro-compasses; gyro repeaters. |
| | | 2250 | Diesel engines, marine types, of 1500 h.p. or over and less than 200 rpm. |
| | | 2251 | Diesel engines of over 65 h.p. not over 200 h.p. |
| | | 2255 | Internal combustion marine engines, carburetor types, inboard over 100 h.p. |
| | | 1435 | Minesweeping equipment (magnetic and acoustic). |

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| 17 (2) (Cont.) | | 2260 | Marine steam boilers of 3,000 sq ft (280m ²) heating surfaces or greater and designed to operate at 450 psi (32 kg per sq cm) or over; <u>and</u> feed water heaters for such boilers. |
| | | 2470 | Locomotives and locomotive parts, the following: a) General service (line), switching and industrial locomotives of a guage greater than 3' or with an individual axle load greater than 5 metric tons; b) Parts specially designed for the above locomotives; c) General service, switching and industrial locomotives of 3' guage or less or possessing an individual axle load of 5 metric tons or less; d) Mine locomotives (surface and underground), all types and sizes; e) Parts specially designed for the types of locomotives defined in paragraphs (c) and (d) above. |
| | | 2475 | Railway rails: a) Railway rails of 40 pounds or more per linear yard (2- kgs or more per meter). (Note: This item covers transportation and industrial type only, including but not limited to general service railway rails, grooved rails, mine rails, and light-railway rails, if within the above specification.) |
| | | 2480 | Automatic (block type) railway signal systems; <u>and</u> parts specially designed for such systems. |
| | | 2405 | Ice-breakers (i.e. ships constructed specifically for the purpose of breaking ice) under 2000 total h.p. |
| | | 2415 | Other vessels, as follows (<u>and</u> hulls, parts of hulls therefor): a) Merchant ships having (1) a gross tonnage over 700 gross registered tons, independent of speed; <u>or</u> (2) an operating speed loaded of over 12 knots; b) Fishing vessels as follows: (1) of 100 feet (30M) in length <u>or</u> over; <u>or</u> (2) having apparatus for generating electrical power of 20 KW <u>or</u> over; c) Merchant ships, n.e.s.; d) Other vessels, n.e.s. over 40 feet (12M) in length <u>or</u> over 50 shaft h.p. (or equivalent). |
| | | 2440 | Propellers (marine) of 12" (30 cm) diameter and over; <u>and</u> blades for such propellers. |
| | | 3250 | Diesel engines 25 to 65 h.p.; and diesel engines, n.e.s. |
| | | 3450 | Automotive vehicles or chassis, 10,001 lbs. and over GVW, powered by rear axle drive, gasoline, diesel or semi-diesel motors. |
| | | 3451 | Automotive parts and gasoline engine (except battery boxes, ball and roller bearings and parts, tires, inner tubes, and fan belts). |
| | | 3471 | Railway freight cars, all types, over 10-ton load capacity (<u>except</u> those covered in items 1470, 1475, & 1480). |

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| 17 (2) (Cont.) | | 3475 | Components for railway freight cars, all types, over 10-ton load capacity as follows: a) wheels, tires, axles and assemblies thereof; b) brake equipment (except hand brakes), and parts. |
| | | 3477 | Railway rails: b) Railway rails of less than 40 lbs. per linear yard (20 kgs per meter) (Note: This item covers transportation and industrial types only, including but not limited to general service railway rails, grooved rails, mine rails, and light-railway rails, if within the above specification.) |
| | | <u>Supp.</u> | Internal combustion engines. |
| | | <u>Supp.</u> | Motor vehicles (including tractors and motor cycles); trailers and components and spares, servicing equipment and materials. |
| | | <u>Supp.</u> | Rails, locomotives and railway rolling stock, and parts thereof. |
| | | * <u>Supp.</u> | Water craft and important components. |
| | | * <u>Supp.</u> | Cranes. |
| Remarks: Japanese coverage broader. | | | |
| 17 Cont. (3) | Mining, quarrying, well or pumping. | *1131 | Pumps (except vacuum pumps) delivering liquids separately or in combination with solids and/or gases and having <u>any</u> of the following characteristics: a) Designed to produce pressures of 300 psi (21 kg per sq cm) and over <u>or</u> b) Designed to operate at temperature of 220 degrees F (104 degrees C) and over; or c) Fabricated of, or lined with, any corrosion-resistant material. (Note: This does <u>not</u> include diesel and fuel injection pumps, or pumps destined for compressing the liquid in hydraulic presses in conjunction with woodworking planing machines.) |
| | | 1310 | Separators (electrostatic) having voltage of more than 1,000 volts across the air gap; and parts. |
| | | 1351 | Mining equipment: 'Rocker' shovels (i.e., mine car loaders fitted with shovels or buckets operating on rocker arms); <u>and</u> component parts thereof. |
| | | 1381 | Core drill bits (<u>excluding</u> those covered by 1150(c) and (h)). |
| | | *2326 | Off-the-road trucks, wagons, and trailers. |
| | | 2350 | Mining equipment, as follows: a) Loading machines, all underground types for rock, coal or ore. (This <u>includes</u> duckbill type self-loading shaking conveyers, but <u>excludes</u> "rocker" shovels as covered by 1351) b) Underground tractors, self-propelled only, tracklaying and rubber-tyred types specially designed: (i) for hauling of minerals, rock, equipment, or supplies, <u>or</u> (ii) as |

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| 17 (3) (Cont.) | | 2350 (b)(ii) (Cont.) | following auxiliary underground mining equipment (whether or not mounted with such equipment): drills, timber setters, post pullers, rock dusters, compressors, conveyers. |
| | | *3131 | All pumps (except vacuum pumps) delivering liquids separately or in combination with solids and/or gases, with all the following characteristics: (a) designed for working pressures of 75 psig and under 300 psig; (b) designed to operate continuously at temperatures under 200 degrees F; (c) not fabricated of or lined with any corrosion-resistant materials. |
| | | 3150 | Core drills, n.e.s. (including those used for blast-hole drilling, but excluding (i) chilled shot type drills and (ii) all core drill bits, as covered by 1150 (c) and (h), and 1381) |
| | | 3351 | Power driven hoisting equipment for mines, and controls for such equipment 500 h.p. and over. |
| | | *3380 | Conveyor belting (interpreted to include rubber balata, asbestos and woven wire conveyor belting). |
| | | 3381 | Crushing equipment the following: a) crushers, grinders and pulverizers; all types except for food processing; b) colloid mills. |
| | | <u>Supp.</u> | Mining machinery. |
| 17 (4) Petroleum field, refining, pumping, processing or handling. | | *1133 | Valves and cocks with pressure parts wholly made of, or wholly lined with, any corrosion-resistant material. |
| | | *1134 | Valves, electrically controlled automatic types. |
| | | *1135 | Pipe valves, n.e.s., designed for working pressures of 900 or more psi (63 kg per sq cm). |
| | | *1141 | Stainless steel tanks with capacity of 2,000 Imperial gallons (2,400 US gallons or 9,100 litres) or over; and piping and allied fixtures for such tanks. |
| | | 1150 | Oil well drilling and exploration equipment. (see also item 1571, formerly 100A.) (Interpreted to include the following: a) Casinghead and Christmas tree assemblies; b) Cementing equipment; c) Coring equipment; d) Gun perforating equipment; e) Photoclinimeters; f) Power pumping units, bottom hole pumps and working barrels; g) Blowout preventers; h) Drill bits (rock bits); i) Draw works and rotary tables; j) Well logging instruments and equipment; k) Drill collars, tool joints, Kelly's and Kelly substitutes; l) Crown blocks, traveling blocks for oil derricks). |

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| 17 (4) (Cont.) | | 1151 | Oil refining equipment, the following units for refining lubricating oils (and complete plants including any of these units): a) Solvent processing units (<u>including</u> phenol, duosol, furfural, and nitro-benzene solvent extraction and propane de-asphalting units); b) Dewaxing units (<u>including</u> centrifugal and solvent dewaxing units, such as methyl-ethyl-ketone and propane units); c) Filtration units (<u>including</u> percolation filtration, contact filtration, and filtrol fractionation units); d) Fractionating, rectifying, and dephlegmating columns, <u>and</u> parts therefor. |
| | | 1152 | Oil and natural gas production equipment, as follows: a) Units for treating, separating and stabilizing, and natural gas extraction; b) Complete plants including any of the above units; c) Items of equipment specially designed therefor (<u>including</u> , but not limited to, the following: stabilizing, absorption, and stripping vessels; separators; condensers). |
| | | 1153 | Fuel production equipment, as follows: a) Processing units of types suitable for the production of components of aviation fuels for reciprocating engines (includes alkylation, thermal, and catalytic cracking units; isomerization, hydroforming, aromatization, dehydrogenation, hydrogenation, polymerization, polyforming and platforming units.) b) Complete plants including any of these units. |
| | | 1154 | Welded or seamless steel casing, drill pipe, tubing, and line pipe conforming with API specifications for oil country tubular products. (This <u>excludes</u> gas, water, and steam pipes of ordinary commercial quality; spigot and faucet pipes; flange tubes.) |
| | | 1155 | Heater return bends for petroleum refineries. |
| | | *1571 | <u>Geophysical</u> prospecting equipment, as follows: a) Seismometers; b) Gravimeters; c) Electronic or fluxgate magnetometers (including airborne magnetometers); d) Complete seismic exploration recording equipment, portable or designed for truck mounting; and the following units when specifically designed and/or designated therefor: 1) Amplifiers with automatic volume control; 2) Variable filters; |

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| 17 (4) (Cont.) | | *1571 (d) (Cont.) | 3) Synchronized timing-photographic recording equipment (including recording oscillographs) <u>and</u> parts specifically designed therefor; 4) Geophones; <u>and</u> parts specifically designed therefor; 5) Electromagnetically-damped galvanometers; 6) Equipment for surface shooting, employing shaped charges. |
| | | *1386 | All tools, including dies and slugs, incorporating diamonds. |
| | | *1845 | Rotary drilling hose, high pressure (with test pressure 3000 psi (210 kg per sq cm) <u>and</u> over). |
| | | *2110 | Heat exchangers (tubular) for industrial processes, n.e.s., <u>and</u> components therefor. |
| | | *2131 | Pipe valves (except automatic control or corrosion-resistant) designed for working pressures within the ranges of 300 to 900 psi (21 to 63 kg per sq cm). |
| | | *2132 | Valves, controlled automatic types (<u>except</u> those electrically controlled and those made of or wholly lined with corrosion-resistant material, as covered by items 1134 and 1133 respectively) as follows: Any pipe valve having partially or wholly integral with it a mechanism actuated by hydraulic, pneumatic, mechanical or other means which regulates or controls its operations, <u>except</u> (i) check, non-return and float; (ii) pressure relief valves designed for working pressures of less than 300 psi (21 kg per sq cm); and (iii) valves specifically designed for milking machines and for household refrigerators and home freezers. |
| | | *2140 | Drums(metal) of 5 or more US or UK gallons capacity (20 litres), made of, or lined with, any corrosion-resistant material, <u>except</u> containers designed for the transport of milk. |
| | | *2141 | Chemical process vessels (with or without stirring gear and with or without jackets) and piping made of or lined with any corrosion-resistant material. |
| | | *2610 | Metal pipe and tubing, seamless, as follows (cast iron not included): (a) Steel, n.e.s., (b) Platinum. |
| | | <u>Supp.</u> | Petroleum refinery equipment. |
| | | <u>Supp.</u> | Containers suitable for use in storing or transporting petroleum, of capacity of 4 gallons or more. |
| 17 (5) Chemical, manufacturing, handling or storing. | | 1101 | Acid (mineral) concentrating equipment, as follows: a) Complete installations; b) Unit components; c) Items of equipment specially designed therefor. |

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| <u>No.</u> | <u>Definition</u> | <u>No.</u> | <u>Definition</u> |
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| 17 (5) (Cont.) | | 1102 | Ammonia oxidation equipment, as follows: a) Complete installations; b) Catalysts suitable for ammonia oxidation. |
| | | 1103 | Anti-biotics production equipment, as follows: a) Complete installations; b) Specialized components thereof. |
| | | 1106 | Centrifugal counter-current solvent extractors. |
| | | 1107 | Chlorine production equipment (for producing gaseous and liquid chlorine) as follows: a) Complete installations; b) Unit components; c) Items of equipment specially designed therefor. |
| | | 1109 | Freeze-drying equipment or plant. |
| | | 1110 | Gas-liquefying equipment and equipment for handling liquefied gas, designed for operation at pressures of 300 psi (21 kg per sq cm) or over. (Note: This includes steel cylinders for compressed or liquefied gases, whether or not with welded bottoms. |
| | | 1112 | Hydrogen producing equipment (water gas, electrolytic, gas cracking, gas extraction processes). |
| | | 1113 | Hydrogenation equipment, as follows: a) Complete installations; b) Catalysts suitable for hydrogenation. |
| | | 1116 | Methanol oxidation equipment, as follows: a) Complete installations; b) Catalysts suitable for methanol oxidation. |
| | | 1118 | Nitrators |
| | | 1120 | Processing equipment operating at pressures over 200 psi (14.0 kg per sq cm) as follows: a) Complete installations; b) Unit components; c) Items of equipment specially designed therefor (including, but not limited to, autoclaves and digesters). |
| | | 1123 | Sulphur (natural) extraction equipment, as follows: a) Complete installations; b) Unit components; c) Items of equipment specially designed therefor. |
| | | 1124 | Sulphur burners and pyrites roasters. |
| | | 1127 | Water-treatment equipment, industrial (Except (a) anti-scaling equipment, as covered by item 2120; and (b) stationary equipment for the treatment of drinking water. |
| | | *1130 | Compressors, as follows: a) Compressors capable of delivering air, gases, or vapors at pressures exceeding 300 psi (21 kg per sq cm); b) Compressors, n.e.s. and parts, regardless of delivery pressures and capacities, when fabricated of, or lined with, any corrosion-resistant material. (For other compressors, see item 1380). |

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| No. | Definitions | No. | Definition |
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| 17 (5) (Cont.) | | *1131 | Pumps (except vacuum pumps) delivering liquids separately or in combination with solids and/or gases and having <u>any</u> of the following characteristics: a) Designed to produce pressures of 300 psi (21 kg per sq cm) and over; <u>or</u> b) Designed to operate at temperatures of 220 degrees F (104 degrees C) and over; <u>or</u> c) Fabricated of, or lined with, any corrosion-resistant material. (Note: This does <u>not</u> include diesel and fuel injection pumps, or pumps destined for compressing the liquid in hydraulic presses in conjunction with woodworking planing machines.) |
| | | *1132 | Vacuum pumps (and parts), all types (including mechanical diffusion and objector) which: a) Are designed to produce a vacuum of 2mm of mercury pressure absolute or less; <u>or</u> b) Regardless of vacuum produced, are fabricated of, or lined with, any corrosion-resistant material. |
| | | *1133 | Valves and cocks with pressure parts wholly made of, or wholly lined with, any corrosion-resistant material. |
| | | *1134 | Valves, electrically controlled automatic types. |
| | | *1135 | Pipe valves, n.e.s., designed for working pressures of 900 or more psi (63 kg per sq cm). |
| | | 1140 | Vacuum-insulated storage or transportation containers for liquids or liquefied gases, 25 litres (26.42 US qts or 22 Imperial qts) capacity or more. |
| | | 1141 | Stainless steel tanks with capacity of 2,000 Imperial gallons (2,400 US gallons or 9,100 litres) or over; and piping and allied fixtures for such tanks. |
| | | 1145 | Gauges for measuring pressures over 100 atmospheres (gauge pressures of 1470 psi or 103 kg per sq cm). |
| | | 1146 | Moulding machines for plastics (extrusion, injection, and other). |
| | | 1330 | Calenders (rubber-working) with 3 or more rolls and capable of handling fabric 55" (140 cm) <u>or</u> over. |
| | | 1331 | Master batch mixers, with automatically controlled time cycle, chamber volume 130,000 cu cm or more. |
| | | 1332 | Tire-curing presses, single or multiple cavity, capable of accommodating tire moulds of a total outside depth of 10" (25.4 cm) or over. |
| | | 1350 | Carbon black manufacturing plants. |
| | | *1380 | Compressors and blowers, as follows (also see item 1130): a) Turbo compressors or blowers capable of operating at <u>either</u> (1) speeds of 8,000 rpm or over, <u>or</u> (2) with internal air flow at any point exceeding a Mach. number of 0.7; (Cont.) |

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| 17 (5) (Cont.) | | *1380 (Cont.) | <ul style="list-style-type: none"> b) Compressors or blowers capable of an overall compression ratio of 2:1 or more, coupled with a capacity of over 35,000 cu ft (991 cu m) per minute; c) Compressors or blowers capable of handling a mass flow of over 2500 pounds (1130 kg) per minute and designed for operating with intake above atmospheric pressure. |
| | | 2101 | Distillation equipment (industrial), as follows: <ul style="list-style-type: none"> a) Fractionating, rectifying, and dephlegmating columns; <u>and</u> parts therefor (except those covered by item 1151d); b) Destructive distillation equipment; <u>and</u> parts; c) Stills designed to operate at absolute pressure of 5mm and lower of mercury; <u>and</u> parts therefor. |
| | | 2110 | Heat exchangers (tubular) for industrial processes, n.e.s.; <u>and</u> components therefor. |
| | | 2120 | Water-treatment equipment, industrial: Anti-scaling types. |
| | | *2130 | Vacuum pumps (<u>and</u> parts), all types (including mechanical, diffusion, and ejector) meeting <u>both</u> of the following specifications: <ul style="list-style-type: none"> a) Capable of inducing a vacuum within the range of 50 to 2 mm of mercury pressure absolute; <u>and</u> b) Not fabricated of, or lined with, any corrosion-resistant material. |
| | | *2131 | Pipe valves (except automatic control or corrosion-resistant) designed for working pressures within the ranges of 300 to 900 psi (21 to 63 kg per sq cm). |
| | | *2132 | Valves, controlled automatic types (<u>except</u> those electrically controlled and those made of or wholly lined with corrosion-resistant material, as covered by items 1134 and 1133 respectively) as follows: Any pipe valve having partially or wholly integral with it a mechanism actuated by hydraulic, pneumatic, mechanical or other means which regulates or controls its operations, <u>except</u> (i) check, non-return and float; (ii) pressure relief valves designed for working pressures of less than 300 psi (21 kg per sq cm); and (iii) valves specifically designed for milking machines and for electric household refrigerators and home freezers. |
| | | 2140 | Drums (metal) of 5 or more US or UK gallons capacity (20 litres), made of, or lined with, any corrosion-resistant material, <u>except</u> containers designed for the transport of milk. |
| | | 2141 | Chemical process vessels (with or without stirring gear and with or without jackets) and piping made of or lined with any corrosion-resistant material. |
| | | 3105 | Multiple-effect evaporators. |
| | | 3110 | Liquid solvent extraction equipment, n.e.s. |

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| 17 (5) Cont.: | | 3140 | Tanks and vats, n.e.s., and piping and allied fixtures made of or lined with any corrosion resistant material; and piping and allied fixtures for such tanks and vats. |
| | | 3102 | Driers for chemical processes, the following: continuous screen; cylinder; drum; rotary; spray; vacuum. |
| | | 3101 | Industrial distillation equipment, the following: stills operating at absolute pressures between 760 and 5 mm. of mercury, and parts. |
| | | *3131 | All pumps (except vacuum pumps) delivering liquids separately or in combination with solids and/or gases, with all the following characteristics: (a) designed for working pressures of 75 psig and under 300 psig; (b) designed to operate continuously at temperatures under 220 degrees Fahrenheit; (c) not fabricated of or lined with any corrosion-resistant materials. |
| 17 (6) | Mill, foundry, forging or any other metal working | 1301 | Casting equipment, as follows: a) Die-casting and centrifugal casting machines (except special artillery casting machines as covered by item 1086h); b) Equipment or plants for continuous casting of metals into partially-processed mill product forms. |
| | | 1305 | Metal rolling mills, all types; and controls therefor. |
| | | 1311 | Sintering equipment for metallurgical purposes. |
| | | 1315 | Tinning units, electrolytic-automatic continuous. |
| | | 2301 | Furnace equipment: pressure-top equipment (i.e., top equipment for blast furnaces designed to facilitate the retention during the recharging process of the pressure and temperature generated during the preceding heat for use with the new charge.) |
| | | | <u>Forming Machines</u> |
| | | 1070 | Forging hammers, as follows: a) forging hammers, having a falling weight exceeding 3.5 tons (English or metric); b) steam, air, or mechanical hammers, rated size 1800 lbs. and over. |
| | | 1071 | Forging machines, as follows: a) forging machines capable of operating on bar stock of a diameter exceeding 3.5" (8.9 cm) or of equivalent cross-section; b) Heading and/or upsetting machinery (horizontal); c) Nut forging machinery d) Forging rolls; e) Swaging machinery. |
| | | 1072 | Presses, mechanical or hydraulic, with a rated pressure of over 1,000 tons (English or metric). |

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| No. | Definition | No. | Definition |
|--------------|------------|------|--|
| 17 (6) Cont. | | 1073 | Wire, tubing, and strip machinery, as follows: a) Machinery for drawing and/or tempering wire and tubing .015" (.381 mm) in diameter or less; b) Wire and strip forming machines, horizontal, multiple-slide. |
| | | 1074 | Thread rolling machines (<u>except</u> those capable of thread rolling on sheet metal only). |
| | | 2070 | Forging hammers and drop hammers, n.e.s. |
| | | 2071 | Pipe and tube flanging machines, power driven. |
| | | 2072 | Presses, mechanical and hydraulic, rated pressures between 500 and 1,000 metric tons, inclusive. |
| | | 3072 | Presses, mechanical and hydraulic, rated pressure under 500 metric tons. |
| | | 1085 | Balancing machines (dynamic) of the following types: a) Machines for locating and correcting unbalance; b) Machines for automatically locating and measuring the amount of unbalance. |
| | | 1086 | All machines and equipment specially designed for manufacturing armaments (i.e., arms, ammunition, and implements of war), including: a) Shell lathes; b) Cartridge case trimming and head finishing lathes; c) Special spinning lathes for bombs; d) Hydraulic presses for shell banding (tire setters); e) Special forging machines for bomb nose and tail; f) Shell tappers; g) Armour plate drilling machines (not including radial); h) Special artillery centrifugal casting machines; i) Special boring machines for aircraft bomb nose and tail; j) Gun-jump screw lathes; k) Rifle working machines. |
| | | 1087 | Broaching machines. |
| | | 1088 | Gear-making machinery: All machinery designed for the manufacture and/or finishing of machine-cut gears. (<u>This does not include</u> machines for casting, moulding, stamping, or forging, but does include machines for the precision finishing and testing of these gears.) |
| | | 1089 | Honing and/or lapping machines (<u>except</u> gear). |

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| 17 (6) | Cont. | 1090 | Profiling and duplicating machinery, as follows: a) Die-sinking machines; b) Profiling machines for marine and aircraft propeller blades (planing, shaping, milling and grinding); c) Profiling and duplicating milling machines (except propeller types covered by paragraph b); d) Profiling machines, n.e.s. e) Attachments to center lathes, capstan lathes, milling machines and vertical borers, which make them capable of carrying out profiling and duplicating. |
| | | 1091 | Shaving machines (except gear machinery as covered by item 1088). |
| | | 2085 | Contour band sawing and filing machines. |
| | | 2086 | Portable machine tools, over 2 metric tons in weight, so designed that they must be attached to the work to be operated. |
| | | 3071 | Power-driven plateworking machinery of the following kind: punching, shearing, bending, straightening, stretching, forming, cropping, scarfing, plate edge planing, press brakes. |
| | | 3072 | Presses, mechanical and hydraulic, rated pressure under 500 metric tons. |
| | | Supp. | Foundry plant. |

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| <u>No.</u> | <u>Definition</u> | <u>No.</u> | <u>Definition</u> |
|------------|---|------------|--|
| 17 | All machinery, equipment, parts, accessories, attachments, apparatus and controls of the following types: 7) Machine tools | | |
| | | | <u>Boring Machines</u> |
| 1001 | Vertical boring and turning mills, as follows: a) all types with table diameter 72" (183 cms) or over; b) automatic types (automatic feed) with table diameter under 72" (183 cms). | 1002 | Jig boring machines |
| | | 1003 | Horizontal combination boring, drilling, and milling machines, as follows: a) Rotary table type; b) Floor type; c) Planer type; d) Multiple head type. |
| | | 2002 | High precision (fine) boring machines, production types only, capable of an accuracy of .015 mm (.0005") or better. |
| | | | <u>Drilling and Tapping Machines</u> |
| | | 1006 | Deep hole drilling machines; and deep hole drills. |
| | | 1007 | Multiple-spindle drilling and/or tapping machines having a cluster of a number of spindles driven from one or more power units, as follows: a) All automatic and non-automatic types with clusters of 7 or more spindles; b) Automatic horizontal and automatic combination horizontal-vertical types with clusters of less than 7 spindles. |
| | | 1008 | Unit-head type drilling machines, as follows: a) Single-spindle; b) Fixed center multiple-spindle |
| | | 1009 | Verticle inverted spindle drilling machines. |
| | | 2006 | Multiple spindle drilling and/or tapping machines consisting of a cluster of less than 7 spindles driven from one or more power units, as follows: a) Horizontal and combination horizontal-vertical, non-automatic; b) Verticle, automatic |
| | | 2007 | Radial drilling machines, 13" (33 cms) column diameter or over and 4' (122 cms) arm or over, plain or traversing type. |
| | | 3001 | Vertical boring and turning mills - non-automatic types under 72 inches. |
| | | 3006 | Multiple spindle drilling and/or tapping machines consisting of a cluster of less than 7 spindles driven from one or more power units, vertical types, non-automatic. |
| | | | <u>Grinding Machines</u> |
| | | 1015 | External cylindrical grinding machines, centerless (whether or not automatic-sizing). |
| | | 1016 | Internal cylindrical grinding machines, fully automatic, as follows: a) Automatic-sizing; or b) Centerless. |

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| 17 (7) | (Cont.) | 1017 | Surface grinding machines, multiple-spindle (automatic and non-automatic). |
| | | 1018 | Crankshaft, crankpin, cam, and camshaft grinders. |
| | | 1019 | Contour profile grinders. |
| | | 1020 | Gap gauge grinding machines. |
| | | 1021 | Jig grinders. |
| | | 1022 | Lap radial grinders (automatic oscillating types) i.e. machines for grinding concave or convex surfaces such as those in ball bearing races. |
| | | 1023 | Roll grinding machines (machines fitted with, or capable of being fitted with, cambering device only). |
| | | 1024 | Spline grinders. |
| | | 1025 | Thread grinding machines |
| | | 1026 | Combined internal and external grinding machines capable of grinding irregular contours on both internal and external surfaces. |
| | | 1027 | Grinders for broaching tools. |
| | | 2015 | Internal cylindrical grinding machines, mechanical and hydraulic feed, production types only (i.e., automatic feed, automatic sizing, <u>or</u> centerless. |
| | | 2016 | Combined internal and external cylindrical grinding machines, <u>except</u> those covered in item 1026. |
| | | 2017 | Automatic single-spindle surface grinder. |
| | | 3015 | External cylindrical grinders, plain standard and plain raised, 18 inches and over between centers (excluding machines fitted with or capable of being fitted with cambering device only). |
| | | 3016 | Surface grinding machines, non-automatic single spindle. |
| | | | <u>Lathes</u> |
| | | 1035 | Axle lathes |
| | | 1036 | Crankshaft and camshaft lathes |
| | | 1037 | Hollow spindle (oil country type) lathes. |
| | | 1038 | Relieving lathes: machines specially designed for the "backing off" of rotary cutters to provide clearance behind the cutting edge. |
| | | 1040 | Turret lathes, of bar capacity of 3" (7.5 cms) and over <u>or</u> swing-over-bed of 18" (46 cms) <u>or</u> over. |
| | | 1041 | Automatic lathes (screw machines) of the following kinds: a) Multiple-spindle, bar or chucking; b) Single-spindle, chucking and/or between center. |
| | | 1042 | Surfacing and boring lathes, 10" (25 cms) center height and over. |
| | | 1043 | Combination boring and turning lathes. |
| | | 1044 | Combination lathe, drilling, and milling machines, specially designed for mobile military workshops or for naval craft. |
| | | 2035 | Engine and center lathes, as follows: a) Over 16" (400 mm) center height, <u>or</u> over 6' (1830 mm) between centers; b) Over 10" (250 mm) up to and including 16" (400 mm) center height, and not exceeding 6' (1830 mm) between centers. |
| | | 2036 | Automatic lathes, single-spindle bar type only. |
| | | 3035 | Turret lathes which are (a) less than 3" bar capacity and, in addition (b) less than 18" swing over bed. |

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| 17 (7) (Cont.) | | | <u>Milling and Planing Machines</u> |
| | | 1050 | Thread milling machines, 6" (15 cms) work diameter at the thread and over (except gun jump screw lathes covered by item 1086j). |
| | | 1051 | Spar millers |
| | | 1052 | Combination miller and planer with double housing and/or open side 48" (122 cms) width of the table and over. |
| | | 1053 | Armour plate planers. |
| | | 2050 | Automatic milling machines (cycle type) |
| | | 2051 | Milling machines, planer type, incorporating one or more verticle spindles, or vertical and horizontal spindles or capable of incorporating vertical spindles, n.e.s. |
| | | 2052 | Planing machines with table over 6' (183 cms) long. |
| | | 2060 | Shapers of the following types: a) Hydraulic (vertical or horizontal); b) Horizontal, traveling head (including draw-out). |
| | | | <u>Thread-cutting Machines</u> |
| | | 1060 | Automatic or semi-automatic cam-operated thread cutting machines, single or multiple spindle. |
| | | 1061 | Pipe threading machines: a) Combination threading and cut-off, 8" (20 cms) and over diameter; b) Nipple threading machines, 8" (20 cms) and over diameter. |
| | | | <u>Attachments and Accessories</u> |
| | | 1065 | Military-type jigs, fixtures and plate metal working accessories (except machines). |
| | | 2065 | Chucks, expanding arbors, and collets for machine tools (air operated; hydraulic operated; magnetic; permanent magnet). |
| | | 2066 | Metal cutting and working tools (not incorporating diamonds) for machine operations: a) Broaching cutting; b) Carbide and carbide tipped; c) Gear cutting; d) Forming roll sets; e) Lapping, honing. |
| | | *2375 | Abrasives, as follows: a) Silicon carbide, crude, and in grain of grit sizes 180 and coarser; b) Natural corundum; c) Fused aluminum oxide; d) Grinding wheels of silicon carbide, grit sizes 180 and coarser, and other articles incorporating these grains; e) Grinding wheels of natural corundum, and other articles incorporating these grains; f) Grinding wheels of fused aluminum oxide, and other articles incorporating these grains. |

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| No. | Definition | No. | Definition |
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| 17 (7) (Cont.) | | *1374 | Abrasives, as follows: a) Silicon carbide, in grains of grit sizes finer than 180; b) Boron carbide; c) Grinding wheels of silicon carbide of grit sizes finer than 180; and other articles incorporating these grains. |
| | | 1386 | All tools, including dies and slugs, incorporating diamonds. |
| | | 1387 | Diamond grinding, lapping and polishing wheels, and other articles incorporating diamond abrasives. |
| | | Supp. | Metal working machine tools |
| | | Supp. | Portable hand-held power tools (Pneumatic, electric and petrol) including parts. |
| | | Supp. | Welding machines and equipment, and parts including welding rods and electrodes. |
| 17 (8) Electrical (except household and ornamental light bulbs and household appliances. | | | <u>Electrical Equipment</u> |
| | | 1201 | Electric furnaces, as follows: a) induction furnaces, vacuum metal melting; and electrical component parts therefor; b) Infra-red and induction annealing and heat-treating furnaces, and component parts therefor; c) Electrical equipment designed for electric industrial melting and refining furnaces (whether for, or as part of, a complete furnace) for the production of the following commodities: sodium, magnesium, artificial graphite tungsten carbide, silicon carbide, boron carbide and metal alloys containing 1% or more of any alloying element. (Includes all electrical generating equipment designed for induction type furnaces). |
| | | 1202 | Electrodes for underwater cutting (covered tubular steel or ceramic types). |
| | | 1210 | Searchlight control units. |
| | | *1260 | Electric motors, reversible types, over 1,000 h.p.; and automatic controls for starting, stopping, and reversing such motors. |
| | | 2265 | *Rotating electrical machinery (including AC and DC generators, motors, rotary condensers, and rotary converters) of 500 h.p. or 500 KVA and above; and prime movers for such generators. |
| | | 3255 | Electric generating sets. |
| | | Supp. | Electric motors |
| | | Supp. | Power equipment as follows: a) electrical generating, transforming, rectifying and converting, transmission, power distribution, control gear and accessories including substation equipment and parts thereof; b) plant for the production of fuel gas; c) boiler house plant for use with (a) and (b) above. |

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| 17 (9) | Rayon and synthetic fiber manufacturing, preparing, spinning, twisting, filament and band-forming. | 1359 | Rayon Manufacturing equipment, as follows: a) Spinning pumps and motors; b) Filament extrusion and spinning machines (except pumping units and spinnerets. |
| | | 1360 | Spinnerets for yarn of 150 denier and greater. |
| (10) | Textile dyeing and finishing | None | |
| (11) | Ball and roller bearings and components | | <u>Metal and Mineral Manufactures</u> |
| | | 1601 | Anti-friction bearings (ball or roller) and parts, as follows: a) Steel alloy bearings with inner-ring bore diameters as follows: 1) <u>Ball</u> : 15 mm and below or 60 mm and above; 2) <u>Roller</u> : 20 mm below or 70 mm and above; b) Bearing parts, as follows: 1) All steel alloy rollers and balls (except 'low quality' balls made of 'normal' chrome steel, as defined in Interpretative Footnote No. 2 at end of List I; 2) All steel alloy outer rings, inner rings, and separators (except any such parts useable only for bearings not covered by subitem 1601(a) above. |
| | | 2601 | Anti-friction bearings (ball or roller) and parts, as follows: a) steel alloy bearings with inner-ring bore diameters as follows: 1) <u>Ball</u> : over 15 mm but under 60 mm; 2) <u>Roller</u> : over 20 mm but under 70 mm; b) Bearing parts, as follows: 1) Steel alloy outer rings, inner-rings, and separators useable only for bearings covered by sub-item (a) above. |
| (12) | Industrial or manufacturing not specifically mentioned. | | <u>Equipment for other Specific Industries</u> |
| | | 1355 | Radio valve manufacturing machinery |
| | | 1375 | Air-conditioning units, packaged (except window-mounted types). |
| | | 1388 | Dynamometers capable of absorbing more than 300 brake horsepower. |
| | | 1395 | Precipitators (electrostatic), capable of removing 90% or more (by blackness test) of all airborne particles down to sizes as small as 1/250,000 of an inch; and specialized parts therefor. |
| | | | <u>Electrical and Power-Generating Equipment</u> |
| | | 2270 | Turbines over 300 h.p. (except those designed for driving electric generators). |

