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Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997

INSTRUCTIONS

1. General – The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in item 18B. Please review the entire list and report separately each item consumed. Leave blank if you do not consume the item. If you use materials, parts, and supplies which are not listed, describe and report them in the "Cost of all other materials . . ." line at the end of this section. If you consumed less than \$25,000 of a listed material, include the value with "Cost of all other materials . . .," Census material code 970099 8.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

2. Valuation of Materials Consumed – The value of the materials, etc., consumed should be based on the delivered cost; i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials.

Materials received from other plants within your company should be reported at their full economic value (the value assigned by the shipping plant, plus the cost of freight and other handling charges).

If purchases or transfers do not differ significantly from the amounts actually put into production, you may report the cost of purchases or transfers. However, if consumption differs significantly from the amounts purchased or transferred, these amounts should be adjusted for changes in the materials and supplies inventories by adding the beginning inventory to the amount purchased or transferred and subtracting ending inventory.

3. Contract Work – Include as materials consumed those you purchased for use by others making products for you under contract. Amounts paid to the companies doing the contract work should be reported in item 10, line e, and should include freight in and out. On the other hand, materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.

4. Resales – Cost for products bought and sold or transferred from the establishments of your company and sold for further manufacturing processes (e.g., assembly) should be reported in item 10, line b, not in item 17 below. The value of these products shipped by this establishment should be reported in item 18B under Census product code 99989 00 6, "Resales."

5. Produced and Consumed – Forgings, foundries, and screw machine products – Report the quantities produced and used in manufacturing other products made in this establishment in item 19. Note that the materials used to produce these items should be reported in item 17.

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Line No.	Materials, parts, and supplies (A)		Census material code (B)	Consumption of purchased materials and of materials received from other establishments of your company		
				Cost, including delivery cost (freight-in) (E)		
				Millions	Thou- sands	Dollars
			571	574		
1	FABRICATED METAL PRODUCTS (Except forgings)	Metal stampings	346901 2	\$		
2		Bolts, nuts, screws, rivets, washers, and screw machine products	345001 2			
3		All other fabricated metal products	340093 4			
4	Forgings		346000 3			
5	CASTINGS (Rough and semi-finished)	Iron and steel	332001 7			
6		Aluminum and aluminum-base alloy	336005 4			
7		Other nonferrous castings	336003 9			
8	Shapes and Forms (Except castings, forgings, and fabricated metal products)	STEEL	Bars, bar shapes, and plates	331007 5		
9			Sheet and strip	331022 4		
10			Wire and wire products	331027 3		
11			All other steel shapes and forms	331019 0		
12		COPPER AND COPPER-BASE ALLOY	Bare wire (for electrical conduction only)	335728 2		
13			Rod, bar, and mechanical wire (including extruded and/or drawn shapes)	335102 0		
14			Other copper and copper-base alloy shapes and forms	335170 7		
15	Aluminum and aluminum-base alloy		335001 4			
16	All other nonferrous shapes and forms		335099 8			
17	Magnet wire		335770 4			

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Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued					
Line No.	Materials, parts, and supplies (A)	Census material code (B)	Consumption of purchased materials and of materials received from other establishments of your company		
			Cost, including delivery cost (freight-in) (E)		
			574 Millions	Thou- sands	Dollars
18	Insulated copper wire and cable (except magnet wire)	335792 8	\$		
19	Primary aluminum and aluminum-base alloy refinery shapes	333401 8			
20	ENGINES Diesel and semidiesel	351920 4			
21	Gasoline and other carburetor	351905 5			
22	Fractional horsepower electric motors less than 1 hp	362111 7			
23	Integral horsepower motors and generators (1 hp or more)	362120 8			
24	Ball and roller bearings (mounted or unmounted)	356200 6			
25	Plain bearings and bushings	356810 2			
26	Speed changers, gears, and industrial high-speed drives	356601 5			
27	Semiconductors, including transistors, diodes, rectifiers, and integrated circuits	367408 2			
28	Carbon brushes	362491 3			
29	Ceramic magnets (ferrite)	326401 7			
30	Plastics products consumed in the form of sheets, rods, tubes, and other shapes	308007 4			
31	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. (excluding sheets, rods, tubes, and other shapes)	282104 9			
32	Paints, varnishes, lacquers, stains, shellacs, japans, enamels, and allied products	285101 2			
33	Electrical industrial capacitors, resistors, rheostats, and coil windings	362001 0			
34	Electrical transmission, distribution, and control equipment	360101 0			
35	Paperboard boxes and containers and corrugated paperboard	265001 8			
36	Cost of all other materials and components, parts, containers, and supplies consumed. <i>Describe the principal materials, etc., included in this value.</i>	970099 8			
37	TOTAL Sum of lines 1–36 should equal item 10, line a		\$		

Item 18A – TYPE OF ACTIVITY DURING 1997		Key	Mark (X)	
			Yes	No
1.	Is this establishment primarily engaged in rewinding armatures or repairing electric motors owned by others on a custom basis in a repair shop ? If yes, report the value of work done on line 8; code 97694 10 3.	401	5710 <input type="checkbox"/>	5728 <input type="checkbox"/>
2.	Is this establishment primarily engaged in rebuilding, remanufacturing or rewinding armatures on a factory basis regardless of who owns the armature? If yes, report the value of shipments for this activity on line 9; code 76940 20 4.	402	5736 <input type="checkbox"/>	5744 <input type="checkbox"/>
3.	Is this establishment primarily engaged in rebuilding or remanufacturing complete electric motors on a factory basis ? If yes, report the value of shipments for this activity in the appropriate product code on lines 1 through 7; codes 36211 00 1 through 36219 00 4. <i>(Rebuilt or remanufactured complete electric motors must have been dismantled and reconstructed, as necessary; all parts cleaned and made free from rust and corrosion; damaged, defective, worn, and missing parts restored or replaced; and other operations performed necessary to put the product in sound working condition.)</i>	403	5751 <input type="checkbox"/>	5769 <input type="checkbox"/>

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997

INSTRUCTIONS

- 1. General** – The manufactured products and services listed below are generally made in your industry. If you make products that are not listed, describe and report them in the "All other products made in this establishment" section at the end of item 18B. PLEASE DO NOT COMBINE PRODUCT LINES.
If quantities are requested, please use the unit of measure specified.
If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.
- 2. Valuation of Products** – Report the value of the products shipped and services performed at the net selling value, f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.
If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.
- 3. Contract Work** – Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOUR MATERIALS on the specific lines as if they were made in this establishment. On the other hand, do not report on the specific product lines

PRODUCTS THAT YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount that you received for "commission or contract receipts" under Census product code 93000 00 8.

- 4. Resales** – Do not report on the specific product lines those PRODUCTS BOUGHT AND SOLD OR TRANSFERRED FROM OTHER ESTABLISHMENTS OF YOUR COMPANY AND SOLD WITHOUT FURTHER MANUFACTURE. Report only a value under Census product code 99989 00 6, "Resales."
 - 5. Detailed Data Reported Elsewhere** – Items denoted by an asterisk(*) require totals for groups of products covered in the more frequent Current Industrial Reports (CIR). If you report on the CIR forms, the sum of the detailed CIR products should equal the total reported on this census form. The Current Industrial Reports related to this report are as follows:
 - a. MA36H, Motors and Generators
 - b. MA35L, Internal Combustion Engines
 - c. MA36A, Switchgear, Switchboard Apparatus, and Industrial Controls
 - d. MA38B, Selected Instruments and Related Products
- NOTE:** Only CIR totals are requested; do not duplicate detail reported on the CIR.

Line No.	Products and services *Item corresponds to products reported on Current Industrial Reports		Census product code	Corresponds to the sum of products reported for 1997 on –		Products shipped and other receipts		
				CIR form (B-2)	Item code (B-3)	Value, f.o.b. plant (E)		
	581 (B-1)	584	Millions			Thousands	Dollars	
1	Fractional horsepower motors (rated at less than 746 watts) (excluding hermetics) (36211)*		36211 00 1	MA36H	1015–2088, 2091, 2411–2416, 2418, 2430–2436, 2438, 2441, 2448, 2615–2645, 2647, 2841–2844, 2851–2855, 2860–2916, 4206, and 4314	\$		
2	Integral horsepower motors and generators other than for land transportation equipment (rated at 746 watts or more) (excluding hermetics) (36212)*		36212 00 9		2089, 2092, 2417, 2419, 2437, 2439, 2449, 2646, 2648, 2845, 2856, 4204, 4208, 4315–4329, 4353–4396, and 4601–4604			
3	Land transportation motors, generators, and control equipment (excluding parts – See line 7) (36213)*		36213 00 7		5310			
4	Prime mover generator sets (except steam or hydraulic turbine) (36214)*		36214 00 5		7401–7475			
5	MOTOR-GENERATOR SETS AND OTHER ROTATING EQUIPMENT (Including hermetics)	Fractional (36217)*	36217 00 8		8515, 8553–8563, and 8583			
6		Integral (36218)*	36218 00 6		8513, 8530, 8540, 8565, and 8585			
7	Parts and supplies for motors, generators, generator sets, and other rotating equipment (excluding motors for built-in jobs; these should be reported in the appropriate motor classification above) (36219)*		36219 00 4		8590, 8591, and 8595			
8	Custom repair shop rewinding of armatures or repairing electric motors		97694 10 3					
9	Rewinding armatures on a factory basis		76940 20 4					
10	Turbines, turbine generators, turbine generator sets, and parts		35110 00 6					
11	Gasoline and gas-gasoline engines (except aircraft, automobile, highway trucks, bus, tank, and outboard marine) (35191)*		35191 00 6	MA35L	9101–9207			
12	Diesel, semi-diesel, and dual-fuel engines (except automobile, highway trucks, bus, and tank) (35193)*		35193 00 2		9331–9353			
13	Multistage blowers		35643 29 5					
14	Other centrifugal fans and blowers (except parts; report these on line 28) – Specify kind		35643 00 6					

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued								
Line No.	Products and services *Item corresponds to products reported on Current Industrial Reports		Census product code	Corresponds to the sum of products reported for 1997 on -		Products shipped and other receipts		
				CIR form (B-2)	Item code (B-3)	Value, f.o.b. plant (E)		
	(A)	581 (B-1)	584 Millions			Thou-sands	Dollars	
15	Commercial, institutional, and industrial general-purpose transformers, all voltages, single- and three-phase, excluding electric utility distribution transformers) (36126)*		36126 00 1			\$		
16	Power regulators, boosters, and other transformers (Including parts and accessories for all transformers) (36127)*		36127 00 9					
17	Low voltage panelboards and distribution boards and other switching and interrupting devices, 1000 volts or less (include higher voltages on line 18) (36133)*		36133 00 7	MA36A ↑ ↓	3001-3201			
18	Switchgear (except ducts and relays) (36139)*		36139 00 4		5314-5361			
19	RELAYS AND INDUSTRIAL CONTROLS	Relays for electronic circuitry, industrial control overload, and switchgear type (36251)*	36251 00 7		5400-5496			
20		Specific-purpose industrial controls (36252)*	36252 00 5		6101-6355			
21		General-purpose industrial controls (36253)*	36253 00 3		6402-6509			
22		Parts for industrial controls and motor-control accessories (36254)*	36254 00 1	6703-6705				
23	CRANKING MOTORS (Starters)	Automotive types, new	36943 01 7					
24		Other types, new	36943 02 5					
25		Rebuilt, all types	36943 03 3					
26	Aeronautical, nautical, and navigational instruments (except systems and engine instruments) (38121)*		38121 00 0	MA38B ↑ ↓	4420-4518			
27	Process control Instruments		38230 00 9		4612-4897			
28	ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT	<i>Describe and report separately each product with a sales value of \$50,000 or more which cannot be assigned to one of the lines above. For all remaining products, write "Other" and report a single total value.</i>						
			18					
29			26					
30			34					
31	CONTRACT WORK	Receipts for work done for others on their own materials	93000 00 8					
		<i>Describe below products worked on and kind of work.</i>						
32	MISCELLANEOUS RECEIPTS	Miscellaneous receipts (including receipts for research and developmental work, etc.)	99980 00 5					
33	RESALES	Sales of products bought and sold without further manufacture, processing, or assembly in this establishment. The cost of such items should be reported in item 10, line b.	99989 00 6					
34	TOTAL value of shipments and other receipts Sum of lines 1-33, column (E)		77000 00 8			\$		

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Item 19. SELECTED PRODUCTS PRODUCED IN THIS ESTABLISHMENT AND USED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT

INSTRUCTIONS

- 1. Report below the quantity of each listed item produced in this establishment and used in manufacturing other products made in this establishment.
- 2. Purchases or receipts of the items specified below should be reported only in item 17.
- 3. Materials used to produce the items specified below should be reported in item 17.
- 4. Quantities produced for sale as such and not for incorporation in other products should be reported in item 18B.
- 5. Report quantities in the unit of measure specified in column (D).

Line No.	Item (A)	Census code		Was this operation performed at this establishment during 1997? (C)		Unit of measure for quantities (D)	Quantities produced in this establishment and used in manufacturing other products made in this establishment	
		591	(B)	592	(C)		593	(E)
				Yes	No			
1	Ferrous foundries	1001	7	1 <input type="checkbox"/>	2 <input type="checkbox"/>	Short tons		
2	NONFERROUS FOUNDRIES (Except die-casting)	1002	5	1 <input type="checkbox"/>	2 <input type="checkbox"/>	↑ Thousand pounds ↓		
3		1003	3	1 <input type="checkbox"/>	2 <input type="checkbox"/>			
4		1004	1	1 <input type="checkbox"/>	2 <input type="checkbox"/>			
5		1005	8	1 <input type="checkbox"/>	2 <input type="checkbox"/>			
6	Nonferrous die-casting foundries	1006	6	1 <input type="checkbox"/>	2 <input type="checkbox"/>			
7	Precision turned products (on screw machines, turning centers, and CNC equipment)	1007	4	1 <input type="checkbox"/>	2 <input type="checkbox"/>			

Items 20 and 21 – Not applicable to this report

REMARKS – Please use this space for any explanations that may be essential in understanding your reported data.

Item 22. CERTIFICATION – This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report (Print or type)				Telephone	Area code	Number	Extension
667	1			2			
Name of company				Address (Number and street, city, State, ZIP Code)			
Period covered		FROM: Month	Day	Year	TO: Month	Day	Year
		666	1		2		
Signature of authorized person				Title			Date