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Census File Number

Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997

INSTRUCTIONS

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 . . . ," limits at the end of this section. If you consumed least the end of this section. If you consumed least the end of this section. If you consumed least the end of this section. If you consumed least the end of this section. If you consumed least the end of this section. If you consumed least the end of this section. If you consumed least the end of this section. If you consumed least the end of this section. If you consumed least the end of this section. If you consumed least the end of this section. If you consumed least the end of this section. If you consumed least the end of this section. If you consumed least the end of this section. If you consumed least the end of this section. If you consumed least the end of this section. If you consumed least the end of this section in the materials and supplies adjusted for transferred, these amounts actually put into production, you may report the cost of purchases or transfers. However, if consumption differs 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 actually put into production, you may report the cost of purchases or transfers. However, if consumption differs significantly from the amounts actually put into products for vour the cost of purchases or transfers. However, if consumption differs significantly from the amounts actually put into products for vour the cost of purchases or transfers. However, if consumption differs significantly from the amounts actually put into products for vour the cost of purchases or transfers. 1. General - The materials, parts, and supplies listed

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

- 4. Resales Cost for products bought and sold or transferred from other establishments of your company and sold without further manufacture, processing, or 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.

Line No.		Ma	Census material code	Cost, inclu cost (f	ed mate materia from of nents of npany ding de reight-ia (E)	erials als ther f your elivery n)				
	Fluid power pro	ducts including p			sands I I	Dollars				
			lies, filters, etc., (hydraulic and pneumatic)	190090 1	\$	<u> </u>	<u> </u>			
2	Electrical transn	nission, distributi	on, and control equipment	360101 0		<u> </u>				
3	Electric heating	elements for ind	ustrial furnaces, ovens, and kilns	356751 8		<u> </u>				
4	Fabricated meta	al products, inclu	340004 1							
5	CASTINGS (Rough and semifinished)	Iron and steel	332001 7		 					
6						 				
7	Shapes and Forms	and Bars, bar shapes, and plates				 				
8	(Except					 				
9	forgings, and fabricated		All other	331034 9		 				
10	metal NONFERROUS		Aluminum and aluminum-base alloy	335001 4						
11			Other	335091 5		 				
12	Cost of all other consumed Describe the thr	materials and co	970099 8		i 					
13	TOTAL Sum of lir	nes 1–12 should e	qual item 10, line a		\$	 				
	CONTINUE WITH ITEM 18A ON PAGE 6									

Form MC-3519				Page				
Item 18A. INSTRUCTIONS AND INQUIRY FOR COMPANIES ENG ERECTION) OF PRODUCTS OF THEIR OWN MANUFAC			ALLATION (OR					
It is preferable that you report the value of shipments for individual products excluding the amounts received for installation and erection. The installation and erection receipts (if any) should be								
reported in item 18B on line 56. In order to evaluate the reporting for this item please answer the following questions:	Key	Mark (X) appropriate boxes						
	591	5512						
1a. Do the value of shipments figures for individual products include the cost of installation or erection of the products?	592	1 🗌 Yes	2 No	3 ☐ Don't know				
b. If "Yes," please estimate the total amount received for installation or erection	593	_	er \$50,000 000–\$499,999	3 \(\)\\$500,000\(-\\$999,999\) 4 \(\)\\$1 million or more				
2. Do the employees of this manufacturing establishment install or erect the products of your company? If "Yes," include these employees in item 2 and their wages in item 3A.	594	1 🗌 Yes	2 🗌 No	3 ☐ Don't know				
3. Does a distinct outside labor force (not attached to this manufacturing plant) erect or install the products for your establishment? If "Yes," do not include this labor force in item 2 or their wages in item 2.4 P. P. and the stablishment force in item 2 or their wages in item 2.4 P. P. and the stablishment force in item 2.5 P. and the stablishment force in it	595	1 🗌 Yes	2 🗌 No	3 ☐ Don't know				
3A. Payments made by this establishment for any work done by others should be reported as a cost of contract work in item 10e. The payroll of this outside labor force should be reported by the establishment that maintains the records for them.								
Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997								
INSTRUCTIONS								
1. General – The manufactured products and services 3. Contract Work – Report PRODUCTS MADE BY OTHERS								

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.

- 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.

NOTE: Only CIR totals are requested; do not duplicate detail reported on the CIR.

Products shinned

	٥.		Products and services	Census product	and other receipts Value, f.o.b. plant (E)			
	Line No.		code 581	584	Thou-			
L	_		(A)	(B)	Millions	sands	Dollars	
		FUEL-FIRED (Nonelectric) INDUSTRIAL FURNACES,	Fuel-fired metal processing and heat treating furnaces (as for annealing, hardening, carburizing, and porcelain enameling), except parts and attachments	35670 03 3	\$	 		
	2	OVENS, AND KILNS	Other fuel-fired furnaces, ovens, and kilns for the melting, roasting, or other heat treatment of ores, pyrites, or metals, except parts and attachments	35670 06 6		 		
	3		Other fuel-fired industrial furnaces, ovens, and kilns, except nonelectric incinerators, and parts and attachments	35670 09 0		 		
	4		Parts and attachments for fuel-fired industrial furnaces, ovens, and kilns	35670 14 0		 	 	
	5	ELECTRIC INDUSTRIAL FURNACES,	High-frequency induction and dielectric heating equipment, including furnaces, ovens, and kilns, except parts and attachments	35670 40 5		 	 	
	6	OVENS, AND KILNS, AND	Electric resistance-heated metal processing and heat treating furnaces (as for annealing, hardening, carburizing, and porcelain enameling), except parts and attachments	35670 42 1		 		
	7	INDUCTION AND	Other electric resistance-heated furnaces, ovens, and kilns, except parts and attachments	35670 44 7		 	 	
	8	DIELECTRIC HEATING EQUIPMENT (Continued on next page)	Electric (except high-frequency induction and dielectric and resistance-heated) metal processing and heat treating furnaces (as for annealing, hardening, carburizing, and porcelain enameling), except parts and attachments	35670 47 0		 		

CONTINUE WITH ITEM 18B ON PAGE 7

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Item 12R	PRODUCTS AND	SERVICES OF THIS	S ESTABLISHMENT DURING	1997 - Continued
ILCIII IOD	I NODOCIO AINI	J 3611VICE3 01 11110	DESTABLISHMENT DUMING	1337 - COHUHUCU

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued									
			Census	Products shipped and other receipts					
No.		product code		o.b. pl (E)	ant				
Line No.		(A)	(B)	584 Millions	Thou-				
	ELECTRIC INDUSTRIAL				 				
9	111211071110	Electric (except high-frequency induction and dielectric and resistance-heated) furnaces and ovens for diffusion, oxidation, or annealing of semiconductor wafers; except parts and attachments	35670 50 0	\$	 				
10	HIGH- FREQUENCY INDUCTION AND	Other electric industrial furnaces, ovens, and kilns, except parts and attachments	35670 53 4		 				
11	DIELECTRIC HEATING EQUIPMENT – Continued	Parts and attachments for electric industrial furnaces, ovens, and kilns, and high-frequency induction and dielectric heating equipment	35670 59 1		 				
12	OTHER INDUSTRIAL	Electric industrial tubular heaters, except parts and attachments	35670 71 0						
13	ELECTRIC HEATING EQUIPMENT	Other electric heating equipment for industrial use, except parts and attachments	35670 75 1		 				
14		Parts and attachments for electric industrial tubular heaters and other electrical heating equipment for industrial use	35670 79 3		 				
15	Bakery ovens		35562 73 5		 				
16	parts sold separ	aces and ovens, and other laboratory apparatus (complete units and ately) (corresponds to the sum of items 4520–4538 and 4541–4548 as form MA38B, Selected Instruments and Related Products, for 1997)	38210 10 0		 				
17	items 4539 and	ture, and parts sold separately (corresponds to the sum of 4540 as reported on CIR form MA38B, Selected Instruments and s, for 1997)	38210 20 9		 				
18	Cremating oven	S	35699 48 7		 				
19	AIR- CONDITIONING AND WARM AIR HEATING EQUIPMENT,	Warm air furnaces, including duct furnaces and humidifiers, and electric and nonelectric comfort heating equipment (except parts, and excluding household appliances; report parts on line 21 and household appliances on lines 46–53)	3585C 00 1		 				
20	AND COMMERCIAL AND INDUSTRIAL	Other, except parts – Specify kind	35850 00 7						
21	REFRIGERA- TION EQUIPMENT	Parts - Specify kind	3585D 00 9		 				
	HEATING EQUIPMENT		33032 00 3						
22	(Except warm air furnaces, electrical	Nonelectric floor and wall furnaces, unit heaters, infrared heaters, mechanical stokers, and parts	34338 00 4						
	products, household	The character of the party							
23	appliances, water heaters, cooking and	Parts and attachments for gas burners (sold separately)	34339 19 2		 				
24	equipment, and laboratory equipment)	aboratory Other (except industrial nower and marine boilers: report those on			 				
25	Bulk material ha	35355 00 7		 					
	Parts for bulk m conveyors	aterial handling conveyors and systems – <i>Specify kind if for belt</i>			 				
26	5		35356 00 5		 				
27	regulating appli-	ols for monitoring residential and commerical environments and for ances (corresponds to the sum of items 4570–4609 as reported on CIR elected Instruments and Related Products, for 1997)	38220 00 0		 				
28	Electric motors "totals," as repo	and generators (corresponds to the sum of items 1015–8595, except rted on CIR form MA36H, Motors and Generators, for 1997)	36210 00 3		 				
29	Relays and indu "totals," as repo	strial controls (corresponds to the sum of items 5400–6705, except rted on CIR form MA36A, Switchgear and Industrial Controls, for 1997)	36250 00 9						
30	lines 46–53) (coi	ing equipment (except portable; report portable equipment on responds to the sum of items 1111–1429, except "totals," as form MA36F, Major Household Appliances, for 1997)	36310 00 1		 	 			
31	Air pollution cor	ntrol equipment	35646 00 9		 				
	CONTINUE ON PAGE 8								

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It	Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued										
			Census	Products shipped and other receipts Value, f.o.b. plant							
No.		product code		.o.b. pl (E)	ant						
Line No.			581	584 Millions	Thou-	Dollars					
		(A)	(B)	Williamone	 	Jonard					
32	Gas generating MACHINERY,	equipment	35699 01 6	\$	<u> </u> 						
33	NOT ELSEWHERE	Semiconductor manufacturing Foundries (excluding patterns and molds; report those on lines	35596 00 6								
34	CLASSIFIED, FOR USE IN ONE SPECIFIC	46–53)	35592 00 5		! 	 					
35	INDLISTRY	Plastics working (excluding patterns and molds; report those on lines 46–53)	35593 00 3		[
36	potentially for use in more	Woodworking (except handtools; report those on lines 46–53)	35530 00 5		<u> </u>						
37	than one industry on lines 46–53)	Paper industries (excluding printing trades; see line 38)	35540 00 4		 	 					
38		Printing trades (except textile printing; report such products on line 39)	35550 00 3		[
39		Textiles (except sewing machines; report industrial sewing machines on line 42 and household sewing machines on lines 46–53)	35520 00 6		 						
40		Chemical manufacturing (including pharmaceuticals, cleaning preparations, paint, etc.; including chemical kilns)	35591 00 7		 						
41		Food products, either industrial (manufacturing) or commercial (other than refrigeration, cooking and food-warming, and packaging equipment; report refrigeration equipment on lines 20–21, and packaging, cooking, and food-warming equipment on lines 46–53)	35560 00 2		 	 - -					
		Another industry (including cement and wood kilns) – Specify product and industry			 						
42			35590 00 9		İ <u>I</u>						
43	Fabricated steel exchangers, ste power, and mar	34430 00 9		 							
44	Sheet metal wo	rk	34440 00 8								
45	Receipts for ma	chine shop job work and job order repair	35995 00 0		[
	ALL OTHER PRODUCTS MADE IN THIS ESTABLISH- MENT	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.				 					
46			18		[[
47			26		 						
48			34		 						
49			42		 						
50			59		 						
51			67		 						
52			75		1						
53			83		 						
54	CONTRACT WORK Receipts for work done for others on their own materials		93000 00 8		 						
	RESALES Sales of products bought and sold without further manufacture, processing, or assembly in this establishment. The cost of such										
55	MISCELLA-	items should be reported in item 10, line b	99989 00 6		 						
56	NEOUS RECEIPTS	Sales of scrap, refuse, and other miscellaneous receipts (including receipts for repair work, etc.)	99980 00 5		[[
57		alue of shipments and other receipts les 1–56, 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.
- **3.** Materials used to produce the items specified below should be reported in item 17.
- Quantities produced for sale as such and not for incorporation in other products should be reported in item 18B.

	2. Purchases should be	or receipts of the items specified below reported only in item 17.	item 18B. 5. Report quantities in the unit of measure specified in column (D).						
Line No.		Census code	Was this performe establis during	ed at this hment 1997?	Unit of measure for quantities	Quantities produced in this establishment and used in manufacturing other products made in this establishment			
		(A)	591 (B)	Yes	No	(D)	593 (E)		
1	Ferrous foundri	es	1001 7	1 🗆	2	Short tons			
2	NONFERROUS FOUNDRIES	Aluminum	1002 5	1	2	1			
3	(Except die-casting)	Copper	1003 3	1	2				
4		Zinc	1004 1	1	2	Thousand pounds			
5		Other	1005 8	1	2				
6		casting foundries	1006 6	1 🗆	2	1			
7	Precision turned centers, and CN	d products (on screw machines, turning IC equipment)	1007 4	1	2				
		1 – Not applicable to this report							
R	EMARKS - Plea	se use this space for any explanations that ma	y be essential	in understa	nding your	reported da	ta.		

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)				T		rea code	Number		Extension	
667 1				Teleph	ione 2					
Name of company				Address (Number and street, city, State, ZIP Code)						
	FROM: Month	Day	Yea	r TO:	Month	1	Day		Year	
Period covered	666 1	 	l I	2			I I			
Signature of authorized person Title		Title					Date			