#### Form MC-3808

If not shown, please enter your 11-digit Census File Number from the address label on page 1

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 . . . " 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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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 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 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 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."
- 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.		Materials, parts, and supplies	Census material code	Consumption of purchased materials and of materials received from other establishments of your company Cost, including delivery cost (freight-in) (E)			
		(A)	(B)	Millions	Thou-   sands	l Dollars	
1		Printed circuit boards	367201 1	\$	 		
2	ELECTRONIC CIRCUITRY (Except tubes)	Printed circuit assemblies, loaded boards, or modules (printed circuit boards with inserted electronic components)	367981 8		   	1	
з		Semiconductors, including transistors, diodes, rectifiers, and integrated circuits	367408 2		   	 	
4	L .	Capacitors	367501 4		   		
5	6	Resistors	367601 2		   	1	
		Other components and accessories, n.e.c., not listed elsewhere – <i>Specify kind</i>			   	   	
6		367990 9		   			
7	Current-carrying	g wiring devices	364300 4			1	
8	Electric transmi	ssion, distribution, and control equipment	360101 0				
9	Electronic comp	357001 7		   			
10	Electrical instru	382501 5		 			
11	Electrical measu	382591 6		   	1		
12	Plastics resins c excluding sheet	onsumed in the form of granules, pellets, powders, liquids, etc., but s, rods, tubes, and shapes	282104 9		   	   	
13	Fabricated plast	ics products (except gaskets, hoses, and belting)	308004 1		   		

**CONTINUE WITH ITEM 17 ON PAGE 6** 

Fo	rm MC-380	8				Page 6								
lt	em 17. CONSU	JMPTION OF SELECTED MATERIALS DURING 1997 – Continued												
	Materials, parts, and supplies		Census material code	Consumption of purchased materia and of materials received from othe establishments of yo company										
Line No.					reight-i (E)	n)								
Lin		(A)	571 (B)	574 Millions	Thou-   sands	l Dollars								
14	FABRICATED METAL PRODUCTS	Sheet metal products (except stampings)	344401 5	\$	   									
15	(Except forgings)	Metal stampings	346901 2		 									
16		Other fabricated metal products	340041 3		   									
17	Forgings		346000 3		   									
18	Castings (rough	and semifinished)	330091 0		 									
19	Metal shapes ar	d forms (except castings, forgings, and fabricated metal products)	330090 2		   									
20	Glass and glass	products (excluding windows and mirrors)	320101 9		   									
21	supplies consur	materials and components, parts, containers, and ned	970099 8		   									
22	<b>TOTAL</b> Sum of lir	es 1–21 should equal item 10, line a		\$	     									
lt	<b>em 18A –</b> Not	applicable to this report				Item 18A – Not applicable to this report								

## CONTINUE WITH ITEM 18B ON PAGE 7

If not shown, please enter your 11-digit Census File Number from the address label on page 1



Page 7

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. MA35R, Computers and Office and Accounting Machines
  - b. MA36A, Switchgear, Switchboard Apparatus, Relays, and Industrial Controls
  - c. MA36K, Wiring Devices and Supplies
  - MA36P, Communications Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment
  - e. MA36Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components
  - MA38R, Electromedical Equipment and Irradiation Equipment (Including X-Ray)

**g.** MA38B, Selected Instruments and Related Products **NOTE:** Only CIR totals are requested; do not duplicate detail reported on the CIR.

					nds to the sum	Products shipped and other receipts			
	*	Products and services Item corresponds to products	Census product code		ts reported for 97 on –	Value, f.o.b. plant (E)			
Line No	i repo	reported on Current Industrial Reports (A)		CIR form <b>(B-2)</b>	ltem codes <b>(B-3)</b>	584 Thou- Millions sands Do	ollars		
	Laboratory and	38210 10 0	<b>↑</b>	4520–4538 4541–4548	\$				
	2 Laboratory furn	iture and parts sold separately*	38210 20 9		4539–4540				
:	Controls for mo environments a	nitoring residential and commercial nd appliance regulating controls <b>(38220)</b> *	38220 00 0		4570–4609				
	4 Process control	instruments (38230)*	38230 00 9		4612–4897				
!	FLUID METERS AND	Integrating and totalizing meters for gas and liquids ( <b>38242)</b> *	38242 00 4		5390–5425				
		UNTING Counting devices (excluding motor vehicle			5504–5525				
_	7				5531–5547				
	Automatic regulating and control valves – power operated valves designed for modulating (throttling) service (excluding power operated on/off valves)*		34918 00 3	MA38B	4001–4049				
	INSTRUMENTS TO MEASURE	Integrating instruments, electrical (38251)*	38251 00 5		5610–5631				
1		ELECTRICITY Portable instrument transformers*							
1	1	Test equipment for testing electrical, radio and communication circuits, and motors (except portable instrument transformers) *	38252 20 1		5701–5849				
1:	Analytical and scientific instruments (except optical) (38260)* Sighting, tracking, and fire-control equipment, optical-type		38253 00 1		6001–6053				
1:			38260 00 6		8001–8196				
1			38271 00 3		8379–8391				
1			38274 10 6		8211-8215				
1	Other optical ins tracking, and fir	38274 20 5	V	8221–8245					

# Form MC-3808

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lt	Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued									
					nds to the sum	Products shipped and other receipts				
o.	Products and services *Item corresponds to products reported on Current Industrial Reports (A)		Census product	of products reported for 1997 on –			Value, f.o.b. plant (E)			
Line No.			code 581 ( <b>B-1</b> )	CIR form ( <b>B-2</b> )		ltem code ( <b>B-3</b> )	584 Millions	Thou-	     Dollars 	
17	MEASURING AND CONTROLLING	Aircraft engine instruments (except flight) (38291)*	38291 00 1	Î		6101–6119	\$	   	1	
18	DEVICES, N.E.C.	Physical properties testing and inspection equipment and kinematic testing and measuring equipment <b>(38292)</b> *	38292 00 9			6201–6218		   	   	
19		Nuclear radiation, detection, and monitoring instruments (38294)*	38294 00 5			7001–7039		 	1	
20		Medical thermometers*	38295 10 1			6613			1	
21		Commercial, geophysical, meterological, and general purpose instruments and equipment (except medical thermometers)*	38295 20 0	MA38	3B	6601–6611 6615–6655		   	   	
22		Surveying and drafting instruments and apparatus, including photogrammetric equipment ( <b>38296)</b> *	38296 00 0			4551–4561		   	     	
23	Aeronautical, na sending or recei instruments) <b>(38</b>	autical, and navigational instruments, not iving radio signals (except engine <b>8121)</b> *	38121 00 0			4420–4518				
24	Search, detection systems and equilation of the second sec	38122 00 8	¥		4202–4382		   			
25	Switches for ele vehicular switch	36433 00 1	MA36	6K	3109–3137		 	1		
26	Relays for electronic circuitry, industrial control, overload, and switchgear type <b>(36251)</b> * Specific-purpose industrial controls <b>(36252)</b> *		36251 00 7	5400–5496			 			
27			36252 00 5	MA36	5A	6101–6355		   	1	
28	General-purpose	ieneral-purpose industrial controls (36253)*			57	6402–6509		   	1	
29	Parts for industr accessories <b>(36</b> )	ial controls and motor control <b>254)</b> *	36254 00 1	•		6703, 6705			1	
30	PRINTED CIRCUIT WIRING BOARDS OR ASSEMBLIES (Report contract	Printed circuit (wiring) boards (36720)*	36720 00 1			Î		         		
31	work receipts for work done by you for others on their own materials on lines 52 and 53)	Printed circuit assemblies, loaded boards, or modules (printed circuit boards with inserted electronic components) <b>(36798)</b> *	36798 00 7	MA36	60	See paragraphs		       		
32	Crystals, filters, (36791)*	piezoelectric, and other related devices	36791 00 2			4 or 5, "Comparability",			l	
33	Microwave com tubes, and semi	ponents and devices, except antennae, conductors <b>(36793)</b> *	36793 00 8			of CIR Instruction Manuals		   	1	
34	Transducers, ele <b>(36795)</b> *	ectrical/electronic input or output, n.e.c.	36795 00 3					   		
35	<ul> <li>5 Switches, mechanical, for electronic circuitry (36796)*</li> <li>Electronic trainers, simulators, teaching machines and</li> <li>6 teaching aids (36991)*</li> </ul>		36796 00 1	↓					1	
36			36991 00 8	Î						
37	Communication broadcast), inclu communications	36631 00 0	MA36	6P			   			
38	beta ray, gamm	zing radiation) equipment, including x-ray, a ray, and nuclear (medical, dental, cientific) <b>(38440)</b> *	38440 00 4	MA38		8002–8026, 8102, 8202–8214				
39	Electromedical e and patient mor equipment) <b>(38</b> 4	equipment, including diagnostic, therapeutic, hitoring (excluding ionizing radiation <b>450)</b> *	38450 00 3		511	8030–8080, 8106–8139, 8222–8242		   		

**CONTINUE WITH ITEM 18B ON PAGE 9** 

# Form MC-3808

If not shown, please enter your 11-digit Census File Number from the address label on page 1

Census File Number

					nds to the sum	Products shipped and other receipts				
<u>۲</u> ٥.	Products and services		Census product code	of products reported for 1997 on –		Value, f.o.b. plant (E)				
Line No.			581 ( <b>B-1</b> )	CIR form <b>(B-2)</b>	Item code (B-3)	584 Millions	Thou- sands	         Dollars		
40	Computers (exc parts)*	luding word processors, peripherals, and	35710 00 3	1	1	\$				
41	Computer stora	ge equipment, auxiliary <b>(35721)</b> *	35721 00 0	See paragraph 4,						
	Computer termi	nals (excluding point-of-sale and evices) (35751)*	35751 00 7	MA35R	"Comparability", of CIR					
		heral equipment, n.e.c. (35771)*	35771 00 5		Instruction Manual					
		ptical recording media (unrecorded)	36950 00 4	↓ ↓				   		
		tances, in vitro (clinical chemistry products)	28351 00 5				   			
_	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				   			
<u>50</u>			67							
52	CONTRACT WORK	Printed circuit (wiring) boards	93000 31 3							
53		Printed circuit assemblies, loaded boards, or modules (printed circuit boards with inserted electronic components)	93000 32 1							
54		Receipts for work done for others on their own materials	93000 00 8					                 		
55	MISCELLA- NEOUS RECEIPTS	Receipts for repair work (maintenance)	99980 61 7							
56		Sales of scrap, refuse, and other miscellaneous receipts	99980 98 9				 			
57	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							
58		alue of shipments and other receipts es 1–57, column (E)	77000 00 8			\$				

CONTINUE WITH ITEM 19 ON PAGE 10

Form	MC-3808	

Form MC-3808 Page 10														
Item 19. SELECTED PRODUCTS PRODUCED IN THIS ESTABLISHMENT AND USED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT														
			11	NSTRUC	TIONS									
	1. Report bel	ow the quantity of each listed	l item		3. Materials	s used to pro	oduce the ite	ems sp	ecified	l belo	sw			
	produced	in this establishment and use Iring other products made in	d in		<ol> <li>Materials used to produce the items specified below should be reported in item 17.</li> </ol>									
	establishm	nent.			<b>4.</b> Quantities produced for sale as such and not for incorporation in other products should be reported in									
	2 Purchasos	or respirite of the items energy	fied below		item 18B. <b>5.</b> Report quantities in the unit of measure specified in									
	should be	or receipts of the items specir reported only in item 17.		V	column (			leasure	e spec	meu				
											uantities roduced			
						Was this	operation	Uni	tof	-	in this			
		ltem			Census		ed at this shment	mea	sure	an	ablishment d used in			
					code		ı 1997?	fo quan		man	nufacturing er products			
Line No.										ma	ide in this ablishment			
Lin		(			(D)		C)		.					
		(A)			591 <b>(B)</b>	Yes	No	(D Sho		593	(E)			
1	Ferrous foundrie	es			1001 7	1	2	toi						
2	NONFERROUS FOUNDRIES	Aluminum			1002 5	1	2	1						
	(Except die-casting)								ŀ					
3	ale custing,	Copper			1003 3	1	2		-					
4		Zinc			1004 1	1	2	Thou pou						
5		Other			1005 8	1	2							
									ŀ					
6	Nonferrous die- Precision turned		1006 6	1	2	<b>↓</b>	, 							
7		and CNC equipment)	-,		1007 4	1	2							
lt	ems 20 and 2	1 – Not applicable to this reader to the second	eport											
R	EMARKS – Pleas	se use this space for any exp	lanations	that may	, be essential	in understa	nding your	report	ed dat	a.				
lt	em 22. CERTIF	ICATION – This report is sul	ostantially	y accurat	te and has be	een prepare	ed in accord	lance	with ir	nstru	ctions.			
		o contact regarding this repor	t (Print or	type)	Talast	Area	code Nun	nber		E	Extension			
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	eriod covered	666 1	/ 		2			1						
S	ignature of autho	prized person		Title					Da	te				
									-					