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It	em 17. CONSI	UMPTION OF SELECTED MATERIALS DURING 1997 INSTRUCTIONS									
	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 Report materials, parts, and supplies pir hased, transferred from other plants of your company or withdrawn from inventory. If purchases or transfers do not differ significantly from the amounts actually put into production, you may report the cost of purchases 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. If purchases or transfers do not differ significantly from the amounts actually put into production, you may report the cost of purchases 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.										
	withdrawn fro If quantities a measure spec	ire requested, please ase the unit of In making products r	or others under a	the other ha it this establ contract or o	nd, ishmen n	t					
	If the informa from your boo ACCEPTABLE	tion as requested cannot be taken directly ok records, REASONABLE ESTIMATES ARE . <b>Resales –</b> Cost for p transferred from othe and sold without furt	er establishments	s of your cor							
	materials, etc delivered cost discounts and incurred in ac	<ul> <li>Materials Consumed - The value of the item 17 below. The value of the value of the item 17 below. The value of th</li></ul>	reported in item alue of these pro ould be reported 99989 00 6, "Re sumed – Forging	10, line b, no oducts shippo 1 in item 18E sales." 19, foundries	ot in ed by under , and						
	company sho (the value ass	eived from other plants within your screw machine production of the product their full economic value signed by the shipping plant, plus the cost of the handling charges). screw machine produce these items	turing other proo 19. Note that th	ducts made i le materials	n this used to						
		Materials, parts, and supplies	Census material code			erials als ther f your					
ne No.				Code Cost, including c cost (freight- (E)							
Lin		(A)	571 <b>(B)</b>	574 Millions	Thou-	     Dollars					
1	Electric motors a	nd generators	362100 2	\$		1					
2	Electrical transmi	ission, distribution, and control equipment	360101 0								
3	FLUID POWER	Fluid power pumps, motors, and hydraulic transmissions (complete assemblies)	359412 4		 	1					
4	PRODUCTS, HYDRAULIC AND PNEUMATIC	Fluid power cylinders and rotary actuators	359301 9		     	   					
5		Fluid power filters	356921 7		 						
6		Fluid power valves	349271 7			   					
7		Fluid power hose or tube fittings and assemblies	349261 8		   	   					
8		Other hydraulic and pneumatic products	190089 3		1	1					
9	Speed changers,	, gears, and industrial high-speed drives	356601 5		   						
10	Ball and roller be	arings (mounted or unmounted)	356200 6		   	   					
11		p parts, except fluid power (hydraulic and pneumatic)	356101 6		 	1					
12	FABRICATED METAL PRODUCTS,	345001 2		   							
13	EXCEPT FORGINGS	Metal tanks, heat exchangers, steam condensers, and other boiler products fabricated steel plate and weldments	<sup>;</sup> 344301 7		   						
14	FLUID POWER (Hydraulic	Pipe, valves, and pipe fittings (except fluid power)	349402 8		   	1					
15	and pneumatic products)	Other fabricated metal products, except fluid power	340072 8		   						
					1						
16	Forgings		346000 3			 					
	Forgings CASTINGS (Rough and semifinished)	Iron and steel	346000 3 332001 7		     	   					

Fo	Form MC-3538 Page 6										
Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued											
Line No.		Ma	Census material code	purchase and of received establishr cor Cost, inclu	materi from o nents o npany	erials als ther f your elivery					
Line			(A)		571 <b>(B)</b>	574	Thou-				
19	Shapes and Forms	STEEL	Bars, bar shapes, and plates		331007 5	Millions \$	i I	Dollars   			
	(Except castings, forgings, and		Sheet and strip		331022 4		   				
21	fabricated metal products)		All other		331034 9						
22		NONFERROUS	Aluminum and aluminum-base alloy		335001 4						
23			Other		335091 5		   				
24	Filter paper				262195 1		   				
25			omponents, parts, containers, and supplies consu etc., included in this value.	med .	. 970099 8						
	Describe the ph	ncipai materiais,					   	   			
					-		   	   			
							1				
26	<b>TOTAL</b> Sum of lir	nes 1–25 should e	equal item 10, line a			\$	-     				
π	PRO It is j recei repo	DUCTS OF THE preferable that yo ived for installation	ID INQUIRY FOR COMPANIES ENGAGED IN EIR OWN MANUFACTURE ou report the value of shipments for individual pro- on and erection. The installation and erection rece- item 18B. In order to evaluate the reporting for th	oducts, eipts (if is item	excluding the a	amounts	N) OF				
1a	a. Do the value	of shipments f	igures for individual products include the		512	appropriate					
	cost of insta	llation or erecti	on of the product?		Yes 2 No						
k			tal amount received for installation		Under \$50,000		0,000–\$9 nillion or				
2.	erect the pro	ducts of your c	anufacturing establishment install or ompany?	594 1	Yes 2 No 3 Don't know						
3.	If "Yes," do no Payments mad reported as a d	ct outside labo or install the pro- t include this lab de by this establis cost of contract v ould be reported	☐Yes 2☐Nc	o 3⊡Dor	ı't know						
CONTINUE WITH ITEM 18B ON PAGE 7											

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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.

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

Products shipped and other receipts

				Census	and other receipts		
o.			Products and services	product	Value, f		ant
N				code		(E)	
Line No.				581	584	Thou-	I
			(A)	(B)	Millions		Dollars
	Filters for	NON-					
	Fluid Power	AEROSPACE-	Hydraulic (corresponds to the sum of items 3301–3309 as reported on CIR form MA35N, Fluid Power Products, for				i l
1	Systems TYPE		1997)	35694 00 9	\$		
	(Hydraulic and		Provinctio (corresponde to the sum of items 2211 2222 as				
	Pneumatic;		Pneumatic (corresponds to the sum of items 3311 –3323 as reported on CIR form MA35N, Fluid Power Products, for				1
2	see lines 37-41 for		1997)	35695 00 6			
	other fluid	Aerospace-type	hydraulic and pneumatic (corresponds to the sum of items				
	power	3325 and 3327 a	s reported on CIR form MA35N, Fluid Power Products, for				
3	products)	1997)		35696 00 4			l
	Filters	FILTER AND				1	
	and	STRAINER					l I
	Strainers, Except	ASSEMBLIES (Containment	Forwater	35693 04 3			
4	for Fluid	or housing	For water	33093 04 3			
	Power	devices), WITH					I
	Systems and Parts	OR WITHOUT FILTER ELEMENT					
5	(See also	INSTALLED	For other fluids	35693 08 4			
	lines 9–27 for other	FILTER					I
6	filtration and	REPLACEMENT ELEMENTS	Reusable (cleanable)	35693 11 8			
	separation	(Media)	Nonreusable, including disposable				
7	products)		(throwaway) litter cartridges	35693 12 6			I
8		Parts and access	ories, sold separately	35693 89 4			
	Industrial air pollu	ution control equip	ment, including products made specifically for the				
9	collection of parti	culate or gaseous	emissions or other purification of outgoing air	35646 11 6			
10		al air pollution con	trol equipment (for cleaning or purifying outgoing air)	35646 21 5			I
	Dust						
11	Collection, Air	Air washers, exce	ept parts	35645 31 6			I
	Purification	OTHER					
	Equipment,	PRODUCTS,	Electrostatic precipitation equipment, except for use				
	and Air Washers for	EXCEPT PARTS	in air pollution control (outgoing air purification)				1
12	Heating,		applications	35645 41 5			
	Ventilating,						
	and Air- Conditioning						1
	Systems,		Air filters for air-conditioners and furnaces, etc., of				
13	Clean Room		2400 cubic feet per minute or less	35645 43 1			
	Applications, and Similar Functions for Cleaning Incoming Air						
14			35645 46 4				
	Incoming Air						I
15		Parts		35645 47 2			
	FILTERS FOR						
	INTERNAL COMBUSTION			07444000			
16	ENGINES	For motor vehicle	S	37144 00 3		 	
17		For other uses		35944 98 7			
					CONTINUE		

Ite	m 18B. PRODU	JCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 -	Continued				
			Carrous	Products shipped and other receipts			
νo.		Products and services	Census product code	Value, f.o.b. plant (E)			
Line No.					l <sup> </sup> Thou-		
_		(B)	Millions	sands	Dollars		
18	Swimming pool	filters	35892 95 9	\$	   	1	
19	Air or gas liquefy	ving machinery	35591 07 2		 		
20	machinery, or d for complete un	ng, rectifying, fractionating, heat exchange, or air or gas liquefying ryers (for chemical manufacturing use; see lines 19 and 108–110 its)	35591 13 0		     		
21	OTHER PRO- DUCTS FOR SEPARATING	Gas separating equipment, complete units	35699 03 2		   		
22	SOLIDS, LIQUIDS,	Steam and vapor separators, complete units	35699 05 7		1		
23	OR GASES	Sifting and screening machines, complete units	35699 15 6		   		
24		Centrifugals and separators (except cream, grain, and berry), complete units	35699 21 4		 	1	
		Other products, except filters and strainers, complete units – <i>Specify kind</i>			   	   	
25			35699 46 1		     	   	
26		Parts for products for separating solids, liquids, or gases, except parts for filters and strainers and fluid power products	35699 50 3		     <del> </del>		
27	Sewage treatme	ent equipment	35892 00 9		 		
28	Assembly mach	ines	35492 00 8		   		
29	Industrial robots	s, attachments, and parts	35699 09 9		 		
30	Mixers for indus	35699 11 5		   			
31	Automatic fire s	35699 23 0		 			
32		aling, complete units (report parts on line 150)	35699 17 2		   		
33	Hydraulic jacks,	complete units (report parts on line 150)	35699 27 1		   		
34	Screwjacks, exc	ept automotive; complete units (report parts on line 150)	35699 31 3		   		
35	Gas generating	equipment, complete units (report parts on line 150)	35699 01 6		 	1	
36	LUBRICATING SYSTEMS, INDUSTRIAL, CENTRALIZED AND AUTOMATIC	Other than for pneumatic systems (complete units; report parts on line 150)	35699 08 1		       		
37	(Complete units sold separately)	For pneumatic systems (corresponds to item 3347 as reported on CIR form MA35N, Fluid Power Products, for 1997)	35699 07 3		'     		
38	the sum of item	and gas dryers (refrigerant, desiccant and other; corresponds to s 3341–3346 as reported on CIR form MA35N, Fluid Power 97)	35699 45 3		   		
39	Fluid power valv items 1201–2277 see lines 51–53 t	ves and hose fittings and assemblies (corresponds to the sum of as reported on CIR form MA35N, Fluid Power Products, for 1997; for other valves)	34920 00 9		   		
40	Fluid power cyli reported on CIR	nders and actuators (corresponds to the sum of items 4501–4893 as form MA35N, Fluid Power Products, for 1997)	35930 00 7		 		
41	Fluid power pum sum of items 550	ps, motors, and hydrostatic transmission components (corresponds to the 4–5597 as reported on CIR form MA35N, Fluid Power Products, for 1997)	35940 00 6		'   		
42	(report those on	hydraulic turbines, and turbine generator set units; except aircraft line 44), agricultural (report farm windmill heads and towers for on line 59), and electrical (report these on lines 151–156)	35110 00 6		     		
43	Carburetors, pistons, piston rings, and engine intake and exhaust valves				   		
44		and aircraft engine parts	37240 00 9		   		
45	Gasoline engine	s (and parts) for automobiles, highway trucks, and buses	37142 00 7		   		
46	Other internal co	ombustion engines and parts (report electric motors and generators on	35190 00 8		 		
47		e station pumps, including lubricating pumps and grease guns	35860 00 6		   		
		section parties, more any representing parties and grease gains		CONTINUI		AGE 9	

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					Products	chinno	d and
Line No.			Products and services	Census product code	other Value, t	receip	ts
Line		581 ( <b>B</b> )	584 Millions	Thou-   sands	l Dollars		
48	compressors (ex industrial spray	(except laborato xcept refrigeratio ing and dusting e iral equipment o	35630 00 3	\$			
49	Other pumps ar	nd pumping equi	35610 00 5				
50	Industrial and control of the second	ommercial fans a commercial kitch	nd blowers (report attic fans here, but report other en, and small portable fans on lines 151–156),	35640 00 2		   	   
51	Industrial valves	s, except fluid po	wer and plumbing and heating (see lines 39 and 53)	34910 00 0			l
52	Fabricated pipe	and pipe fittings	made from purchased pipe – <i>Specify kind of metal</i>	34980 00 3			
53	plumbing fixtur	e fittings, not else e fittings and trin on lines 151–156	where classified (except plastics pipe fittings, n, and garden hose fittings and couplings; report	34940 00 7		     	1     
54	Oil and gas field	d machinery and	equipment (except pumps)	35330 00 0			1
55	Mining machine	ery (except oil an	d gas field), complete units	35320 00 1			1
56	Parts and attach	ments for mining	g machinery, sold separately (including mining drill bits)	35329 00 2			l I
	Construction ma attachments and Specify kind	achinery and equ d machinery for r	ipment, complete units, including crane and excavator nounting on trucks, tractors, and other prime movers –			     	     
57				35310 00 2			1
58	Parts for constru	uction machinery	35319 00 3			1	
59	Farm (and comr items 6101–8143 and Lawn and C	35230 00 2		     			
60	Home lawn and "Totals," as repo Equipment, for	orted on CIR form	ent (corresponds to the sum of items 8202–8335, except n MA35A, Farm Machinery and Lawn and Garden	35240 00 1		   	1
61	Overhead travel hoists; report th	ling cranes, hoist ose on line 63 ar	s, and monorail systems (except aircraft loading id their parts sold separately on line 64)	35360 00 7			1
62	Elevator and mo and 65–70)	ovifng stairways	except farm and conveying equipment; see lines 59	35340 00 3			1
63	stacking machir	, tractors, mobile nes, for materials minals (complete	e straddle carriers and cranes, and automatic -handling use in and around plants, depots, docks, e units)	35373 00 0		   	
64	automatic stack	rial trucks, tractor ing machines, fo airports, and term	rs, mobile straddle carriers and cranes, and r materials-handling use in and around plants, iinals	35374 00 8		   	1
65	Unit Handling Conveyors and Conveying	COMPLETE UNITS	Powered (belt and roller), light- to medium-duty – <i>Specify whether belt or roller</i>	35353 00 2		     	
66	Systems (Except hoists and farm equipment)     Other       Parts, attachments, and accessories		Other	35353 00 2		   	   
67				35354 00 0			1
68	Bulk Material Handling	COMPLETE UNITS	Belt, conveyors and systems			   	
00	Conveying and Conveying Systems (Except hoists and farm equipment)		35355 05 6		                 		
69		Parts – Specify	kind if for belt conveyors	35355 00 7			
		Choole Choole A		35356 00 5			

		Census		receipt	ts
No.	Products and services	product code	Value, f.o.b. pla		
Line	(A)	581 (B)	584 Millions	<sup> </sup> Thou- <sup> </sup> sands	
71	Packaging machinery, including wrapping and bottling machinery; complete units	35651 00 9	\$		
72	Parts for packaging machinery	35652 00 7		   	
73	Power-driven handtools (except for construction; report such products on line 57)	35460 00 5			
74	Saw blades and handsaws (except power-driven sawing machines for woodworking use; report those on line 121)	34250 00 1		   	
75	Other non-power-driven handtools and edge tools (except metal cutting dies; report those on line 79)	34230 00 3		   	
76	Metal cutting type machine tools (except handtools and electric gas welding and soldering equipment; report handtools on lines 73 through 75, handheld soldering irons on line 75, and other electric and gas welding and soldering equipment on line 83)	35410 00 0		   	
77	Metal forming type machine tools (except handtools, and electric and gas welding and soldering equipment; report handtools on lines 73 through 75, other electric and gas welding and soldering equipment on line 83, and rolling mill equipment on line 82)	35420 00 9		     	   
78	Cutting tools, machine tool accessories, and machinists' precision measuring tools (except handtools; see lines 73 through 75)	35450 00 6		   <del> </del>	   
79	Special dies and tools, die sets, jigs, and fixtures (report cutting dies for non-metals on line 75)	35441 00 5		   	   
80	Industrial molds and mold boxes (except for heavy steel ingots; report those on line 125)	35442 00 3		 	
81	Industrial patterns	35430 00 8		 	 
82	Rolling mill machinery and equipment	35470 00 4			
83	Electric and gas welding and soldering equipment (except handheld soldering irons; report those on line 75; report electron beam, ultrasonic, and laser welding equipment on lines 151–156)	35480 00 3		     	1
84	Metal degreasing machinery and parts	35598 74 7		1	
85	Wire fabricating machines (weaving, drawing, coil conversion or straightening, etc., and drawbenches) and other metalworking machinery, not elsewhere classified (see line 123 for foundry equipment)	35495 00 1		     	
86	Antifriction bearings (bail and roller, mounted or unmounted) and parts (corresponds to the sum of all items, except totals, as reported on CIR form MA35Q, Antifriction Bearings, for 1997)	35620 00 4		   	   
87	Power transmission equipment, pumps, and other parts, not elsewhere classified, for automobiles, highway trucks, and buses (see line 16 for filters)	37140 00 1		   	
88	Power transmission equipment for aircraft, and other parts, not elsewhere classified, for aircraft	37280 00 5			
89	Speed changers, industrial high-speed drives, gears, and parts, except automotive and aircraft (see lines 87 and 88)	35660 00 0			
90	Other mechanical power transmission equipment, not elsewhere classified, including plain bearings and bushings	35680 00 8		   	
. 91	Air-conditioning, warm air heating, and commercial and industrial refrigeration equipment (report all air-conditioners here, but report refrigerators for household or farm use on lines 151–156)	35850 00 7		   	
92	Commercial cooking and food-warming equipment (report products for household use on lines 151–156)	35891 00 1		   	
93	Commercial laundry, dry-cleaning, and pressing machinery (report products for household use on lines 151–156)	35820 00 0			
94	Commercial and industrial vacuum cleaners, parts, and attachments (report products for household use on lines 151–156)	35893 00 7		   	
95	Automatic vending machines and coin-operated mechanisms for them; and parts	35810 00 1		   	
96	Automotive maintenance equipment, except handtools (see lines 73 and 75)	35597 00 4		   	1
97	Industrial process furnaces, ovens, and kilns; and industrial electric heating equipment and related devices, including furnaces and ovens for semiconductor manufacturing (report bakery ovens on line 117; cement, wood, and chemical kilns on line 124; cremating ovens on line 149; and laboratory furnaces and ovens on lines 151–158); and parts	35670 00 9			
98	Scales and balances (weighing and force-measuring machines of all types), including parts; except laboratory (report scientific apparatus for laboratory work on lines 151–156)	35960 00 4			
99	Test equipment for testing motors and electrical, radio, communications, printed circuit board, and semiconductor circuitry (corresponds to the sum of items 5701–5849 as reported on CIR form MA38B, Selected Instruments and Related Products, for 1997); except portable instrument transformers; report those on lines 151–156)	38252 00 3		     	

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				_	Products		
No.	Products and services		Census product code	Value, f.o.b. plar			
Line [				581	594	(E)	1
			(A)	(B)	Millions	Thou-   sands	   Dollars
100	Automatic contro appliances (corre MA38B, Selected	esponds to the side of the sid	38220 00 0	\$	     		
101	Industrial instrume as reported on CIR	ents for controlling form MA38B, Sele	process variables (corresponds to the sum of items 4612–4897 acted Instruments and Related Products, for 1997)	38230 00 9		1	1
102	Physical properti (corresponds to Instruments and	the sum of items	c testing, inspecting, and measuring equipment 5 6201–6218 as reported on CIR form MA38B, Selected s, for 1997)	38292 00 9		   	
103	Specific-purpose reported on CIR Industrial Contro	form MA36A, Sv	ols (corresponds to the sum of items 6101–6355 as vitchgear, Switchboard Apparatus, Relays, and	36252 00 5		   	
104		orted on CIR for	oonds to the sum of items 5400–5496, 6402–6509, 6703, m MA36A, Switchgear, Switchboard Apparatus, or 1997)	36250 00 9		   	
105	Electrical and ele	ectronic teaching	machines, teaching aids, trainers, and simulators,	36991 00 8			
	Commercial- and accessories (exco outdoor-, spotlig	ept bulbs, glassy ht-type, and por ponds to the sur	be electric lighting fixtures, including parts and vare, and industrial-, residential-, vehicular-, table fixtures; report such products on lines n of item codes 2101–2298, as reported on CIR form , for 1997)	36462 00 0		       	
107	Other machinery	, not elsewhere	classified, for service industry use	35892 00 9		   	
108	MACHINERY (Not elsewhere classified)	units; report pa		35591 01 5		   	1   
109	FOR MANU- FACTURING CHEMICALS	Heat exchange on line 20)	units (complete units; report parts	35591 03 1		   	
110	(Including pharma-	Dryers (comple	te units; report parts on line 20)	35591 05 6		1	
111	ceuticals, soaps, and mulsifying, or		ng, crushing, grinding, sifting, homogenizing, stirring machines (complete units; report parts on	35591 09 8		     	
112		Other (except a complete units	ir or gas liquefying machinery; see lines 19 and 20), (report parts on line 113)	35591 11 4			
113	OTHER	Parts for produc	cts listed on lines 111 and 112	35591 15 5		   	
114	OTHER MACHINERY	Semiconductor	manufacturing	35596 00 6		   	1
115	(And parts), USED FOR SPECIFIC INDUSTRIAL	Printing trades	(except textile printing; see line 118)	35550 00 3		1   	   
116	PURPOSES (By industry in	Paper industries	s (except printing; see line 115)	35540 00 4		'   	1
117	which products are used)	Food products and 91–92)	(except packaging and refrigeration; see lines 65-72	35560 00 2		 	l I
118		Textiles (except on line 124 and	sewing machines; report industrial sewing machines household sewing machines on lines 151–156)	35520 00 6		   	1
119		Plastics working	g (except patterns and molds; see lines 80 and 81)	35593 00 3		   	
120			g (excluding tire molds)	35594 00 1		   	
121	Woodworking 73 through 75)		except saws and handtools included on lines	35530 00 5		 	1
122		Printed circuit b	ooard manufacturing (except testing; see line 99)	35595 00 8			
123		Foundries (exce	ept patterns and molds; see lines 80 and 81)	35592 00 5		   	
124	metal finishing concrete produ		g glass making, petroleum refining, desalination, sewing, stone or ceramics (or clay, etc.) working, cts forming, wood kilning, battery making, wire or J, cotton ginning, etc., for SPECIFIC industry use	35598 00 2		     	     
125	Castings	FERROUS	Gray and ductile iron castings	33210 00 6		   	
126			Malleable iron castings	33220 00 5		   	
127			Steel investment castings	33240 00 3		 	
	(Continued on next page)		Other	33250 00 2		r I	

					Products	shippe	d and
0.	Products and services		Census product	other receipts Value, f.o.b. plant			
Line No.			code 581	584	(E)	1	
Li		(B)	Millions	I Thou- I sands	   Dollar		
129	Castings – Continued	NONFERROUS	Aluminum (and aluminum-base alloy) die-castings	33630 00 5	\$		
130			Other nonferrous die-castings (including copper)	33640 00 4		 	   
31			Other aluminum (and aluminum-base alloy) castings	33650 00 3		   	   
32			Other copper (and copper-base alloy) castings	33660 00 2		   	
133			Other nonferrous castings	33690 00 9			
34	Metal heat treatir	ng for the trade		33980 00 4		   	
135	Sheet metal work	(		34440 00 8		   	
136	Fabricated plate	work and weldme	its	34430 00 9		 	-
137	Welding repair sh	nop services		97692 00 8		-	
138	Cold-heading (or	warm- or hot-hea	ding) products, including metal fasteners	34520 00 7		   	
139	Precision turned	products (made o	a screw machines, turning centers, CNC equipment, etc.)	34510 00 8		 	   
140	Automotive stam	pings		34650 00 2			   
41	Metal crowns and	d closures		34660 00 1			 
142	Other metal stam	pings		34690 00 8		   	 
143	Iron and steel for	gings		34620 00 5		 	 
144	Nonferrous forgir Wire products, no and whether ferro	-	fied, made from purchased wire – Specify kind of product	34630 00 4		     	 
145				34960 00 5		   	
146	Electroplating, pla	ating, polishing, ar	odizing, and coloring of metals, for the trade	34710 00 4		1	
147	Galvanizing, lacq	uering, enameling	, and allied services to metals, for the trade	34790 00 6		I I	1
148	· · · · · · · · · · · · · · · · · · ·		and job order repair	35995 00 0			1
	Other general inc	lustrial machinery,	not elsewhere classified, complete units - Specify kind				
149				35699 48 7		 	1
150	industrial lubricat	ing systems, indus as generating egu	sed air and gas dryers, centralized and automatic trial mixers, automatic fire sprinklers, metal baling pment, and other general industrial machinery and	35699 52 9		     	
	ALL OTHER PRODUCTS MADE IN THIS	Describe and re \$50,000 or more	port separately each product with a sales value of which cannot be assigned to one of the lines above.				1
151	ESTABLISH- MENT			18		   	
152				26			
153				34		   	
154				42		   	
155				59		   	1
156				67			
157	CONTRACT WORK		k done for others on their own materials	93000 00 8		   	
							i I
				-		I I	 

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

				T							
Ite	em 18B. PROD	UCTS AND SERVICES OF THIS	ESTABLISH	HMENT DUR	NG 1997 –	Continued					
	Products and services				Census	Products shipped an other receipts					
Line No.					product code	Valu	e, f.o.b. plant <b>(E)</b>				
Line		(A)				581 (B)	584 Million	Thou-			
	RESALES	Sales of products bought and so	ld without fu	rther manufa	cture,		withon				
158		processing, or assembly in this e should be reported in item 10, lin	establishmen	t. The cost of	such items	99989 00 0	5 <b>\$</b>				
159	MISCELLA- NEOUS RECEIPTS	Receipts or installation (for consectablishment	truction) of p	roducts of thi	S	99980 31 (	D				
160		Other miscellaneous receipts (in refuse, repair work, etc.)	cluding recei	pts for sale of	f scrap and	99980 98	9				
161	TOTAL v Sum of lin	alue of shipments and other renews 1–160, column (E)	ceipts			77000 00 8	3 <b>\$</b>				
Ite		TED PRODUCTS PRODUCED IN R PRODUCTS MADE IN THIS ES			T AND USE	D IN MANU	IFACTURI	NG			
	OTTEL		INSTRUC								
	produced i	by the quantity of each listed item n this establishment and used in	1	should b	e reported in						
	manufactu establishm	ring other products made in this ent.		incorpor	ation in othe	for sale as su r products sl	uch and no nould be re	t for eported in			
	2. Purchases	or receipts of the items specified b reported only in item 17.	below	item 18B 5. Report qu column (	uantities in tl	ne unit of me	asure spec	cified in			
								Quantities			
					Was this o	operation	Unit of	produced in this establishment			
		Item		Census code	establis during	shment for		and used in manufacturing			
Line No.	(A)				20.119		quantities	other products made in this			
Line				591 <b>(B)</b>	592 <b>(C</b> Yes	<b>;)</b> No	(D)	establishment			
1	Ferrous foundrie			1001 7	1	2	Short tons				
	NONFERROUS FOUNDRIES	Aluminum		1002 5	1	2					
3	(Except die-casting)				1						
		Copper		1003 3			 Thousand				
4		Zinc		1004 1	1	2	pounds				
5		Other		1005 8	1	2					
		casting foundries products (on screw machines, tur	nina	1006 6	1	2	¥				
7	centers, and CN	C equipment)	-	1007 4	1	2					
		<ol> <li>Not applicable to this report</li> </ol>									
RE	MARKS – Pleas	se use this space for any explanati	ions that may	/ be essential	in understa	nding your re	eported da	ta.			
<b>Item 22.</b> CERTIFICATION – This report is substantially accurate and has been prepared in accordance with instructions.											
		contact regarding this report (Pri			Area			Extension			
667	667     1     Telephone     2       Name of company     Address (Number and street, city, State, ZIP Code)										
		FROM: Month Day	/ Yea		Month		)ay	Year			
	eriod covered	666 1		2	monur	<sup> </sup>	-	1			
. 51	gnature of autho	inzeu person	Title				Da	ate			