

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

Census File Number

**Item 17** – Not applicable to this report

**Item 18A. SELECTED METALWORKING AND RELATED OPERATIONS PERFORMED IN THIS ESTABLISHMENT DURING 1997**

Census code	Mark (X) appropriate box	
	592	
591	Yes	No
208	1 <input type="checkbox"/>	2 <input type="checkbox"/>

Were any of the operations listed below performed in this establishment in 1997? .....

If "Yes," indicate in column (C) by marking appropriately, which of the specified operations were performed in this establishment during 1997. Where "Yes" is marked, show in column (D) the approximate number of production workers on all shifts usually engaged in the specified operation.

Line No.	Operation <b>(A)</b>	Census code <b>(B)</b>	Was this operation performed in this establishment during 1997? <b>(C)</b>		Number of production workers (on all shifts) usually employed when operated (estimate if necessary) <b>(D)</b>
			592 Yes	No	
1	Electroplating and other plating	018	1 <input type="checkbox"/>	<input type="checkbox"/>	
2	Galvanizing and other hot dip coating	026	1 <input type="checkbox"/>	<input type="checkbox"/>	
3	Heat treating of metals for production purposes	034	1 <input type="checkbox"/>	<input type="checkbox"/>	
4	Automatic screw machine department	042	1 <input type="checkbox"/>	<input type="checkbox"/>	
5	Machine shop	059	1 <input type="checkbox"/>	<input type="checkbox"/>	
6	Tool and die shop (if separate from machine shop) for jigs, fixtures, dies, and other special tooling	067	1 <input type="checkbox"/>	<input type="checkbox"/>	
7	Pattern shop (foundry patterns only – metal, wood, etc.)	075	1 <input type="checkbox"/>	<input type="checkbox"/>	
8	Sheet metal work, aluminum or steel	083	1 <input type="checkbox"/>	<input type="checkbox"/>	
9	Stamping, blanking, and forming of metals	133	1 <input type="checkbox"/>	<input type="checkbox"/>	
10	Painting, lacquering, and enameling on metals	109	1 <input type="checkbox"/>	<input type="checkbox"/>	
11	Welding of steel plate for manufacturing production	117	1 <input type="checkbox"/>	<input type="checkbox"/>	
12	Welding repair shop	125	1 <input type="checkbox"/>	<input type="checkbox"/>	

**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**

**a.** 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.

**b. Toll Operations** – Tolling must be performed for customers **outside** your own company. If the work is done for other establishments within your company, the entering value of the materials should be reported in your cost of materials data and the processed value of the product should be reported as a product shipment.

**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."

**CONTINUE WITH ITEM 18B ON PAGE 6**

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued									
Line No.	Products and services		Census product code 581	Unit of measure for quantities (C)	Products shipped and other receipts				
					Quantity 583 (D)	Value, f.o.b. plant (E)			
						584 Millions	Thou- sands	Dollars	
(A)	(B)	(C)	(D)	(E)					
1	Heat treating of metal (heat treating, pickling, annealing, brazing, shot peening, tempering, etc.)		33980 00 4			\$			
2	METAL POWDERS, PASTE, AND FLAKES (33991)	Aluminum and aluminum-base alloy (Report aluminum content only)	33991 11 8	Thousand pounds					
3		Copper and copper-base alloy (Report copper content only)	33991 33 2						
4		Iron and steel (Report iron content only)	33991 55 5						
5		Nickel-cobalt-base superalloy materials	33991 66 2						
6		Tungsten and tungsten-base alloy	33991 77 9						
7		Molybdenum	33991 86 0						
8		Titanium and tantalum	33991 89 4						
9		Precious metals and precious-metal-base alloys (gold, silver, platinum, etc.)	33991 91 0		Troy ounces				
10		Other nonferrous powders, paste, and flakes – <i>Specify kind of metal</i>	33991 98 5	Thousand pounds					
11		PRIMARY METAL PRODUCTS, N.E.C. (33992)	Nonferrous nails, brads, tacks, and staples	33992 11 6					
12	Other primary metal products, n.e.c.– <i>Specify</i>		33992 98 3						
13	POWDER METALLURGY PARTS (Excluding bearings, gears, and machine cutting tools and all cemented carbide parts) (34996)	Aluminum and aluminum-base alloy (Report aluminum content only)	34996 11 6	Thousand pounds					
14		Copper and copper-base alloy (Report copper content only)	34996 33 0						
15		Iron and steel (Report iron content only)	34996 55 3						
16		Nickel-cobalt-base superalloy materials	34996 66 0						
17		Tungsten and tungsten-base alloy	34996 77 7						
18		Other materials – <i>Specify kind of metal</i>	34996 88 4						
19	Electroplating, plating, polishing, and anodizing		34710 00 4						
20	Etching, Engraving, Coating, and Allied Services (34790)	Electronic engraving (excluding metal nameplates)	34790 10 5						
21		Photochemical etching (including machining but excluding metal nameplates)	34790 11 3						
22		Etching and engraving metal nameplates	34790 13 9						
23		Engraving and etching on precious metal jewelry	34790 22 0						
24		Engraving and etching on silver and plated ware	34790 24 6						
25		Engraving and etching on custome jewelry	34790 26 1						
26		Other engraving and etching, except jewelry	34790 28 7						
27		Galvanizing and other hot dip coating	34790 31 1						
28		ORGANIC COATINGS, ENAMELS, AND LACQUERS (Including alkyds, vinyls, acrylics, and plastisols)	Coil coating	34790 61 8					
29			Liquid spray coating (including electrostatic)	34790 73 3					
30			Powder coating (including electrostatic and fluidized bed)	34790 75 8					
31			All other (including curtain coating and wash coating)	34790 81 6					
32		Inorganic coatings (including porcelain)		34790 77 4					

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

Line No.	Products and services  (A)	Census product code  (B)	Unit of measure for quantities  (C)	Products shipped and other receipts			
				Quantity  (D)	Value, f.o.b. plant (E)		
					584 Millions	Thou- sands	Dollars
33	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. Specify unit of measure for quantity. For all remaining products, write "Other" and report a single total value.</i>						
		18			\$		
34		26					
35		34					
36		42					
37		59					
38	CONTRACT WORK  <i>Receipts for work done for others on their own materials . . . . . Describe below products worked on and kind of work.</i>	93000 00 8					
39	MISCELLANEOUS RECEIPTS	Sales of scrap and refuse	99980 13 8				
40		Other miscellaneous receipts (including receipts for repair work)	99980 98 9				
41	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				
42	<b>TOTAL value of shipments and other receipts</b> Sum of lines 1-41, column (E)		77000 00 8		\$		

Items 19-21 - 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 ( <i>Print or type</i> )		Telephone	Area code	Number	Extension		
667	1		2				
Name of company			Address ( <i>Number and street, city, State, ZIP Code</i> )				
Period covered		FROM: Month	Day	Year	TO: Month	Day	Year
		666	1		2		
Signature of authorized person				Title		Date	