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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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

5. Produced and Consumed - 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.

6. The figure for coal, Census code 120001 3, should represent the amounts used as a raw material for the production of coke. Coal purchased for heat and power should be reported in item 10, line c.

Line No.	Materials, parts, and supplies				Census material code	Unit of measure for quantities	Consumption of purchased materials and of materials received from other establishments of your company				
							Quantity	Cost, including delivery cost (freight-in) (E)			
								573	574	Thou- sands	Dollars
(A)	(B)	(C)	(D)	Millions							
1	Shapes and Forms (Except castings, forgings, and fabricated metal products)	FERROUS	Steel	Rod for wiredrawing	331084 4	↑ Short tons ↓		\$			
2				Wire for redrawing	331070 3						
3				All other steel shapes and forms	331074 5						
4			Ferroalloys		Ferromanganese, silicomanganese, and manganese	331313 7	↑ Short tons ↓				
5					Ferrochromium	331320 2					
6					Ferrosilicon (more than 8 percent silicon)	331331 9					
7					Ferrovandium	331335 0					
8					Other ferroalloys (including silvery iron, ferrotungsten, ferromolybdenum, and ferronickel)	331310 3					
9				All other ferrous shapes and forms	330056 3						
10		NON-FERROUS		Aluminum	333402 6						
11				Nickel (excluding ferronickel)	333971 0	↑ Short tons ↓					
12				Tin	333975 1						
13				Zinc	333978 5						
14				All other nonferrous shapes and forms	333945 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)	Unit of measure for quantities (C)	Consumption of purchased materials and of materials received from other establishments of your company				
					Quantity (D)	Cost, including delivery cost (freight-in) (E)			
						574 Millions	Thou- sands	Dollars	
15	CASTINGS								
		Gray iron ingot molds and stools	332161 9			\$			
16		All other iron and steel castings	332031 4						
17	Stone, Clay, Glass, and Concrete Products	Clay refractories	325501 5						
18		Nonclay refractories	329701 7						
19		FLUXES	Limestone	329503 7					
20			Lime (including quicklime)	327410 7					
21			Dead-burned dolomite	327420 6					
22			Fluorspar	329505 2					
23			Other fluxes	329506 0					
24		All other stone, clay, glass, and concrete products		320059 9					
25	CHEMICALS AND ALLIED PRODUCTS	Industrial chemicals (except sulfuric acid and oxygen)	280005 0						
26		Oxygen (including high and low purity) (liquid oxygen should be converted to its gaseous equivalent)	281361 6						
27		Sulfuric acid (100 percent H ₂ SO ₄)	281930 8						
28		All other chemicals and allied products		280055 5					
29	Metal Mining	IRON ORE (Including pelletized and manganese-ferrous)	Crude and concentrates	101130 3	Gross wt short tons ↑ ↓				
30			Agglomerates	101125 3					
31		Manganese ore (including 10 percent manganese) and ferroalloy ore		106102 7					
32		All other metal mining		100010 8					
33	Coal used in the production of coke (Do not report coal used for heat and power; the cost of such items should be reported in item 10, line c.)		120001 3		Short tons ↑ ↓				
34	Iron and steel purchased scrap (except rails for rerolling; including scrap generated in other establishments of your company and transferred to this establishment as well as scrap purchased from outside sources; excluding home scrap)		190023 2						
35	Direct-reduced iron (DRI)		190053 9						
36	Pig iron (excluding silvery iron)		331051 3						
37	Lubricating oils and greases and other petroleum products		291103 0						
38	Industrial dies, molds, jigs, and fixtures		354402 0						
39	Carbon and graphite electrodes		362411 1						
40	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						
41	TOTAL Sum of lines 1–40 should equal item 10, line a					\$			

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Item 18A. SELECTED OPERATIONS PERFORMED AT THIS ESTABLISHMENT

Line No.	Type of operation		Key	Mark (X) appropriate box
	<i>Mark (X) the statements below which best describe the manufacturing operations performed at this establishment</i>			
	(A)			(B)
1	DRAWN PLAIN WIRE	Either all or partly produced from rods or bars produced in this establishment	401	4838 <input type="checkbox"/>
2		All produced from rods, bars, or redrawn wire purchased from other companies or received from other plants of the same company	402	4895 <input type="checkbox"/>
3	COLD-ROLLED; COLD-FINISHED SHEET, STRIP, OR BARS	Either all or partly produced from hot-rolled shapes produced in this establishment	403	5017 <input type="checkbox"/>
4		All produced from hot-rolled shapes purchased from other companies or received from other plants of the same company	404	5033 <input type="checkbox"/>
5	PIPE AND TUBE	Either all or partly produced from semifinished shapes or plate produced in this establishment	405	5074 <input type="checkbox"/>
6		All produced from semifinished shapes or plate purchased from other companies or received from other plants of the same company	406	5090 <input type="checkbox"/>
7	STEEL FORGINGS	Either all or partly produced from ingot, blooms, billets, slabs, or bars produced in this establishment	407	5116 <input type="checkbox"/>
8		All produced from ingot, blooms, billets, slabs, or bars purchased from other companies or received from other plants of the same company	408	5140 <input type="checkbox"/>
9	WIRE PRODUCTS	Either all or partly produced from wire drawn in this establishment from steel rods or bars produced in this establishment	409	4812 <input type="checkbox"/>
10		Either all or partly produced from wire drawn in this establishment from steel rods or bars purchased from other companies or received from other plants of the same company	410	4879 <input type="checkbox"/>
11		Either all or partly produced from nonferrous wire drawn in this establishment	411	4820 <input type="checkbox"/>
12		All produced from plain wire purchased from other companies or received from other plants of the same company	412	4986 <input type="checkbox"/>

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

INSTRUCTIONS

- 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.
- 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.
- 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 codes 93000 86 7, 93000 87 5, and/or 93000 14 9.

Toll operations - Tolling must be performed for customers outside your own company. If the work is done for other establishments within your company, the value of the materials consumed in the tolling operation should be reported in your cost of materials data and the processed value of the product should be reported as a product shipment.
- 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."
- 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.
- Special Instructions

Lines 36-40, 43, and 44 - Report the weight of castings in column (D) before machining. The removal of gates, risers, sprues, and tumblings, dipping, or sandblasting do not constitute machining. The weight of rough castings produced by you which are further machined in this establishment or assembled into other products in this establishment should be reported in item 19.

The quantity and value of machined castings or the finished products in which the castings are incorporated should be entered in columns (D) and (E) under the section "All other products," lines 100-104.

Lines 56-58 - Include on these same lines shipments of products made for you on a toll basis whether shipped direct from the toll processor or from this plant. Exclude shipments of products made in this establishment on a toll basis for others.

CONTINUE WITH ITEM 18B ON PAGE 8

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued													
Line No.	Products and services		Census product code	Unit of measure for quantities	Quantity produced for all purposes	Products shipped and other receipts							
						Quantity		Value, f.o.b. plant (E)					
			581	(A)	(B)	(C)	582	(D-1)	583	(D-2)	584	Millions	Thousands
1	COKE OVEN PRODUCTS, MADE IN STEEL MILLS	Coke, except screenings and breeze	33121 15 3	↑ Short tons									
2		Screenings and breeze	33121 16 1	↓									
3		Crude tar	33121 53 4	↑ Thousand gallons									
4		Crude light oil	33121 73 2	↓									
5		Other coke oven products (including tar derivatives, ammonia, light oil derivations, and coke oven gas)	33121 96 3										
6	COKE OVEN PRODUCTS, NOT MADE IN STEEL MILLS	Coke, except screenings and breeze	33121 13 8	↑ Short tons									
7		Screenings and breeze	33121 14 6	↓									
8		Crude tar	33121 52 6	↑ Thousand gallons									
9		Crude light oil	33121 72 4	↓									
10		Other coke oven products (including tar derivatives, ammonia, light oil derivations, and coke oven gas)	33121 99 7										
11	BLAST FURNACE PRODUCTS (Except ferroalloys)	Pig iron (including pig iron with silicon content up to and including 6 percent silicon)	33121 91 4	↑ Short tons									
12		Slag	33121 92 2	↓									
13		Sinter from ore, flue dust, blast furnace gas, and other materials	33121 95 5										
14		Other blast furnace products - Specify kind	33121 98 9	↑ Short tons (gross weight)									
15	Products Made in Electric and Other Furnaces	Ferrochromium (including briquets), ferrochromium silicon, exothermic chromium additives, and other chromium alloys	33132 00 2	↓									
16		Ferrosilicon (including briquets) and other silicon alloys	33133 00 0										
17		Silicon, unalloyed	33398 73 6										
18		OTHER FERRO-ALLOYS	Superalloys (these superior heat and creep resistant alloys should be excluded from alloy categories listed elsewhere)	33134 16 4	↑								
19			Other ferroalloys (including silvery iron, ferromanganese, manganese metal, silicomanganese, and ferrospiegeleisen)	33134 87 5									
20			Other ferrous products made in electric and other furnaces - Specify kind	33134 97 4	↓ Short tons (gross weight)								
21		OTHER NON-FERROUS ADDITIVE ALLOYS	Superalloys (these superior heat and creep resistant alloys should be excluded from alloy categories listed elsewhere)	33134 17 2									
22	(Continued on next page)	(Continued on next page)	Other nonferrous additive alloys (including nonferrous spiegeleisen)	33134 88 3	↓								

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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 <small>581</small>	Unit of measure for quantities (C)	Quantity produced for all purposes <small>582</small>	Products shipped and other receipts		
						Quantity <small>583</small>	Value, f.o.b. plant (E)	
							<small>584</small>	Thousands
(A)		(B)	(D-1)	(D-2)	Millions			
23	Products Made in Electric and Other Furnaces - Continued	OTHER NON-FERROUS ADDITIVE ALLOYS-Continued Other nonferrous products made in electric and other furnaces - Specify kind	33134 99 0	↑ Short tons (gross weight) ↓			\$	
24	Steel Mill Products	Ingot and semifinished shapes and forms * (CIR MA33B, item codes 1100-1245, 2110-2241, 3110-3225)	33122 00 3					
25		Tinplate, blackplate, terneplate, tin free steel, and hot-rolled sheet and strip * (CIR MA33B, item codes 1323, 1355, 1360, 1370, 1385, 1390, 1420, 1430, 1445, 1450, 2321, 2333, 2375, 2391, 3335)	33123 00 1					
26		Plates, structural shapes, piling, hot-rolled bars and bar shapes (including concrete reinforcing and tool steel bars) * (CIR MA33B, item codes 1313, 1314, 1506, 1508, 1512, 1516, 1521, 1546, 2314, 2316, 2318, 2520, 2530, 2535, 3320, 3525)	33124 00 9					
27		WIRE (Including galvanized and other coated wire)* (CIR MA33B, item codes 1741-1771, 2707, 3710-3740)	Made in plants producing wire rods or hot-rolled bars	33125 00 6				
28			Made in plants not producing wire rods or hot-rolled bars, made in plants that draw wire	33155 00 3				
29		PIPE AND TUBES* (CIR MA33B, item codes 1636-1696, 2641-2649, 3610-3660)	Made in plants producing semifinished shapes or plate	33126 00 4				
30			Made in plants not producing semifinished shapes or plate	33170 00 2				
31		COLD-ROLLED SHEET AND STRIP* (CIR MA33B, item codes 1324, 1397, 2327, 2393, 3339)	Made in plants producing hot-rolled sheet or strip	33127 00 2				
32			Made in plants not producing hot-rolled sheet or strip	33167 00 8				
33		COLD-FINISHED BARS AND BAR SHAPES* (CIR MA33B, item codes 1551, 2525, 3550)	Made in plants producing hot-rolled bars and bar shapes	33128 00 0				
34			Made in plants not producing hot-rolled bars and bar shapes	33168 00 6				
35	Other steel mill products (including steel rails, except wire products)* (CIR MA33B, item codes 1571-1616)		3312C 00 1					

CONTINUE WITH ITEM 18B ON PAGE 10

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 (A)		Census product code 581 (B)	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		
36	Iron and Steel Castings	Molds and stools for heavy steel ingots	33216 00 3	↑ Short tons ↓		\$				
37		OTHER GRAY IRON CASTINGS (Except ductile iron) (33219)	Rolls for rolling mills		33219 31 2					
38			Automotive uses		33219 39 5					
39			Construction and utility uses		33219 49 4					
40			All other uses		33219 98 1					
41			CARBON STEEL CASTINGS (Except invest- ment) (33252)	Carbon rolls for rolling mills	33252 15 6					
42		All other carbon steel castings (except rolls for rolling mills, railway specialties, and railroad car wheels)		33252 19 8						
43		OTHER ALLOY STEEL CASTINGS (Except invest- ment) (33255)		Alloy rolls for rolling mills	33255 55 5	↑ Short tons ↓				
44			All other alloy steel castings, (excluding railway specialties and rolls for rolling mills)	33255 59 7						
45		Iron and Steel Forgings	SEAMLESS ROLLED RING FORGINGS, FERROUS (3312A)	Carbon steel and alloy steel (excluding stainless and hi-temp)	3312A 17 9					
46	Stainless and hi-temp (iron, nickel, or cobalt-base alloy)			3312A 26 0						
47	OPEN DIE OR SMITH FORGINGS, FERROUS (Hammer or press) (3312B)		Carbon steel and alloy steel (excluding stainless and hi-temp)	3312B 62 3						
48			Stainless and hi-temp (iron, nickel, or cobalt-base alloy)	3312B 66 4						
49	HOT IMPRESSION DIE IMPACT, PRESS, AND UPSET STEEL FORGINGS (34625)		Carbon steel	34625 11 1	↑ Short tons ↓					
50			Alloy steel (excluding stainless and hi-temp)	34625 13 7						
51			Stainless	34625 15 2						
52			Hi-temp (iron, nickel, or cobalt-base alloys)	34625 17 8						
53	COLD IMPRESSION DIE IMPACT, PRESS, AND UPSET STEEL FORGINGS (34626)		Carbon steel	34626 11 9						
54			Alloy steel (excluding stainless and hi-temp)	34626 13 5						
55			Stainless steel and hi-temp (iron, nickel, or cobalt-base alloys)	34626 16 8						
56	TITANIUM AND TITANIUM- BASE ALLOY MILL SHAPES (Excluding wire) (33562)		Forging and extrusion ingot (billet)	33562 74 5						
57			Other, including sheet, plate, tubing, bar, etc. (excluding ingot)	33562 79 4						
58	Nonferrous metal wire, bare (except aluminum and copper)		33573 00 7							
59	NONINSULATED FERROUS WIRE ROPE, CABLE, AND STRAND, MADE IN PLANTS THAT DRAW WIRE (33151)		Rope and cable made from steel wire (excluding fabricated wire rope assemblies)* (CIR MA33B, item code 1783)			33151 13 5				
60		Fabricated wire rope assemblies (including lifting slings)		33151 15 0						
61		Wire forms (excluding rope assemblies) and composite rope and cable		33151 25 9						
62		Steel wire strand (including strand for prestressed concrete, composite wire strand, except ACSR, and guard rail cable) * (CIR MA33B, item codes 1784 and 1786)		33151 34 1						

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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	Unit of measure for quantities	Products shipped and other receipts			
						Quantity	Value, f.o.b. plant (E)		
							583	584	Thou- sands
(A)	(B)	(C)	(D)	Millions					
63	Steel Nails, Staples, Tacks, Spikes, and Brads, Made in Plants That Draw Wire	Round wire nails, collated, prepackaged * (CIR MA33B, item code 1773, pt)	33152 51 3	Short tons		\$			
64	ROUND WIRE NAILS, NOT COLLATED, SMOOTH SHANK * (CIR MA33B, item codes 1773, pt)	Coated, plated, or painted	Galvanized		33152 52 1				
65		Coated, plated, or painted	Vinyl, resin, or cement coated		33152 53 9				
66			Other		33152 54 7				
67		Not coated, plated, or painted			33152 55 4				
68	ROUND WIRE NAILS, NOT COLLATED, OTHER THAN SMOOTH SHANK* (CIR MA33B, item code 1773, pt)	Coated, plated, or painted			33152 14 1				
69		Not coated, plated, or painted			33152 56 2				
70	Steel cut nails (including horseshoe nails) * (CIR MA33B, item code 1773, pt)				33152 57 0				
71	Steel wire staples* (CIR MA33B, item code 1773, pt)				33152 58 8				
72	Steel tacks (wire and cut)				33152 59 6				
73	Steel spikes and brads (including track spikes)			33152 60 4					
74	Steel Nails, Staples, Tacks, Spikes, and Brads, Not Made in Plants That Draw Wire, Made From Purchased Wire	Round wire nails, collated, prepackaged	33152 02 6	Short tons					
75	ROUND WIRE NAILS, NOT COLLATED, SMOOTH SHANK	Coated, plated, or painted	Galvanized		33152 04 2				
76			Vinyl, resin, or cement coated		33152 06 7				
77			Other		33152 08 3				
78		Not coated, plated, or painted			33152 11 7				
79	ROUND WIRE NAILS, NOT COLLATED, OTHER THAN SMOOTH SHANK	Coated, plated, or painted			33152 12 5				
80		Not coated, plated, or painted			33152 15 8				
81	Steel cut nails (including horseshoe nails)				33152 21 6				
82	Steel wire staples				33152 24 0				
83	Steel tacks (wire and cut)				33152 26 5				
84	Steel spikes and brads (including track spikes)			33152 31 5					
85	FENCING AND FENCE GATES, MADE IN PLANTS THAT DRAW WIRE (33156)	Chain link fencing, excluding posts, gates, and fittings (including galvanized and plastics coated)		33156 13 4					
86	Woven and welded fencing, excluding posts, gates, and fittings (including galvanized and plastics coated)*(CIR MA33B, item code 1779)			33156 21 7					
87	Fence gates, posts, and fittings and ornamental lawn fence			33156 40 7					
88	Ferrous wire cloth and other ferrous woven wire products, made in plants that draw wire			33157 00 9					

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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	Value, f.o.b. plant (E)		
						584	Thou-	Dollars
(A)	(B)	(C)	(D)	Millions	sands			
89	OTHER FERROUS WIRE	Barbed and twisted wire * (CIR MA33B, item code 1777)	33159 51 8					\$
90	PRODUCTS, MADE IN PLANTS THAT DRAW WIRE (Except springs) (33159)	Wire bale ties * (CIR MA33B, item code 1781)	33159 55 9					
91		Welded steel wire fabrics (including concrete reinforcing mesh)	33159 63 3					
92		Wire garment hangers	33159 71 6					
93		Other wire products (including guards, baskets, florists' designs, paperclips, kitchenware, wire shelving, wire racks, wire chain, wire carts, wire cages, etc.) - Specify kind	33159 98 9					
94	CHAINS FOR SPROCKET DRIVES (35683)	Roller chain meeting any ASME or ANSI standard	35683 33 3					
95		Other	35683 35 8					
96		Weldments and fabricated steel plate for purposes other than pipe, penstocks, tunnel lining, stacks, breeching, and shielding for use in nuclear reactors	34432 99 7					
97		Fabricated concrete reinforcing bars	34494 52 6					
98		Fabricated assemblies of railroad frogs, switches, and crossings	34998 19 5					
99		Electrical conduit and conduit fittings (including plastics conduit and conduit fittings) (36442)* (corresponds to the sum of survey item codes 4201-4262 on CIR form MA36K, Wiring Devices and Supplies (Shipments), for 1997) *	36442 00 2					
100	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					
101			26					
102			34					
103			42					
104			59					
105	CONTRACT WORK	Receipts for conversion of steel for other companies (including fees received from both steel-producing and nonsteel companies)	93000 86 7					
106		Receipts for processing (rolling, drawing, extruding, etc.) of materials owned by others on a toll basis for nonferrous metal mill shapes	93000 87 5					
107		All receipts for work done for others on their own materials	93000 14 9					
108	MISCELLANEOUS RECEIPTS	Sales of scrap and refuse	99980 13 8					
109		Receipts for research and developmental work	99980 41 9					
110		Other miscellaneous receipts (including receipts for repair work, etc.)	99980 98 9					
111	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					
112	TOTAL value of shipments and other receipts Sum of lines 1-111, 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?		Unit of measure for quantities (D)	Quantities produced in this establishment and used in manufacturing other products made in this establishment (E)
		591 (B)	592 (C)	Yes	No		
1	Ferrous foundries	1001 7	1 <input type="checkbox"/>	2 <input type="checkbox"/>	Short tons		
2	NONFERROUS FOUNDRIES (Except die-casting)	Aluminum	1002 5	1 <input type="checkbox"/>	2 <input type="checkbox"/>	↑ Thousand pounds ↓	
3		Copper	1003 3	1 <input type="checkbox"/>	2 <input type="checkbox"/>		
4		Zinc	1004 1	1 <input type="checkbox"/>	2 <input type="checkbox"/>		
5		Other	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"/>			

Item 20. STEEL MILLS OPERATIONS

591 19001 7

Is THIS ESTABLISHMENT considered a mini-mill?

- 592 593 _____ (Month/Year) Go to (b)
- (a) 1 Yes - Date this establishment was built. _____ (Month/Year) Go to (b)
- 2 No - Continue with item 21A.

(b) What is the greatest distance that you ship your products? 594 _____ miles

What is the shortest distance that you ship your products? 595 _____ miles

Item 21A. DEPARTMENTAL OPERATIONS OF THIS ESTABLISHMENT

INSTRUCTIONS

All establishments should complete this item except electrometallurgical plants. If you do not maintain actual departmental records on hours worked and wages of production workers, please enter estimates.

Line No.	Department (A)	Census code (B)	Total for the year					
			Hours worked by production workers (C)			Wages paid to production workers (D)		
			592 Millions	Thou- sands	Hours	593 Millions	Thou- sands	Dollars
1	Coke ovens	181 8				\$		
2	Blast furnaces	182 6						
3	Basic oxygen furnaces	177 6						
4	Electric arc furnaces	178 4						
5	Steel department (furnaces) (through pouring stage)	183 4						

CONTINUE WITH ITEM 21A ON PAGE 14

Item 21A. DEPARTMENTAL OPERATIONS OF THIS ESTABLISHMENT – Continued

Line No.	Department (A)	Census code (B)	Total for the year						
			Hours worked by production workers (C)			Wages paid to production workers (D)			
			592 Millions	Thou- sands	Hours	593 Millions	Thou- sands	Dollars	
6	ROLLING AND FINISHING MILLS Sheet and strip mill	184 2					\$		
7	Tin mill	185 9							
8	Bar mill (including rebars)	186 7							
9	Wiredrawing mill	187 5							
10	Pipe mill	188 3							
11	Other mills (including semifinishing, plate, and structural)	189 1							
12	Foundry (iron or steel)	190 9							
13	Forging (presses, hammers, or upsetters)(excluding manufacture of nuts, bolts, etc.)	191 7							
14	Other manufacturing or fabricating departments (nuts, bolts, steel containers, etc.)	192 5							
15	Service or auxiliary operations (all other activities not directly assignable above)	193 3							
16	TOTAL (Sum of lines 1–15 should be same as item 4 and item 3A, line a)	194 1					\$		

Item 21B. DEPARTMENTAL OPERATIONS OF THIS ESTABLISHMENT 591 21001 3

Does THIS ESTABLISHMENT have a blast furnace at this location?

592 1 Yes – Did this establishment OPERATE a blast furnace in 1997?

593 1 Yes
2 No

2 No – Continue with item 22

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	
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	