16 DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES

General - The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in ②. 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 that are not listed, describe and report them in the "Cost of all other materials..." 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 009700 99 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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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.

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 the dect, have incurred in acquiring the materials.

Materials received from other plants within your land the resorted at their full example assigned by the shipping plant, plus the cold to other handling charges). valve the lalue

If purchases or transfers do not differ significantly from the amounts actually put into plotusion, 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 onlinges in the paterials and supplies inventories by adding the beginning inventory to the amount purchased or transferred and subtracting ending inventory.

Contract Work - Include at my trial consumer those you purchased for use by others making products for you under contract. Amounts pad the companies doing the contract work should be reported in , line A5, 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.

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 to, line A2, not in to. The value of these products shipped by this establishment should be reported in 2 under Census product code 000999 8900 6, "Resales."

Lines 9 and 10 - Scrap generated in other establishments of your company and transferred to this establishment should be reported as scrap purchased from outside sources. Exclude home scrap.

	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)					
		0634	0630	\$ Bil.	Mil.	Thou.			
ľ		Shapes and forms (excluding castings, forgings, and fabricated metal products) Ferrous		900.					
L	1	Pig iron	331200 45 1						
ŀ	2	Ferrochromium	331112 05 2				_		
ļ	3	Ferromanganese, silicomanganese, and manganese	331112 03 7						
ļ	4	Ferrosilicon (more than 8 percent silicon)	331112 07 8						
ļ	5	All other ferrous shapes and forms	331000 13 3						
		Nonferrous							
	6	Nickel and nickel-base alloy	331419 25 9						
Ŀ	7	Cobalt-base alloy	331419 47 3						
	8	All other nonferrous shapes and forms	331419 05 1						

CONTINUE WITH 6 ON PAGE 9



· · · · · · · · · · · · · · · · · · ·	DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES - Continued							
-	Materials, parts, and supplies	Census material	Consumption of purchaser materials and of materials received from other establishments of your company Cost, including delivery cost (freight-in)					
Line No.		code						
	0634	0630	\$ Bil.	Mil.	Thou.			
	Purchased scrap (excluding home scrap)							
9	Iron and steel	001900 23 2						
10	All other purchased scrap	001900 82 8						
	Stone, clay, glass, and concrete products							
11	Clay refractories	327124 00 4						
12	Grinding wheels and other abrasive products (excluding industrial diamonds)	327910 01 4						
13	Nonclay refractories	327125 00 1						
14	All other stone, clay, glass, and concrete products	327000 09 7	·					
	Industrial and commercial machinery and computer equipment							
15	Industrial patterns	332997 00 6						
16	Industrial dies, molds, jigs, and fixtures	333500 03 1						
17	All other industrial and commercial machinery and computer equipment	001900 A5 8						
18	Sand	212320 05 5						
19	Cost of all other materials and components, parts, containers, and supplies consumed (Specify the principal materials, etc., included in this value.)	009700 99 8		1 1				
		_						
	TOTAL (Should equal total reported in 😉, line A1)	771000 00 7						
20	Not Applicable.							

DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE

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 **2**. 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.

Products Shipped and Other Receipts - Report the quantity and value of each product made and physically shipped during 2002 from this establishment; include products shipped to other plants, sales branches, retail stores, or warehouses of your company and on consignment. Deduct returned goods. Also report the value of services performed at this establishment.

Quantities - Lines 1 through 45 - Where requested, report the weight of castings before machining. The removal of gates; risers; sprues; and tumbling, dipping, or sandblasting do not constitute machining. Report in the weight of rough castings you produced and machined or assembled into other products in this establishment. The quantity and value of the machined castings or the finished product in which the castings are incorporated should be entered in appropriate columns on lines 76 through 81.

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.

Line 34 - Report heat and/or corrosion resistant steel castings containing eight percent or more of chromium or nickel, or both, with or without molybdenum or other elements.

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 code 000930 0000 8.

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 code 000999 8900 6, "Resales."

.oj	Duradicate and associate	Census produ		nit of	Products s includ	shipped a ing inter	and other re plant trans	eceipts, fers	
Line No.	Products and services	code		sure for ntities	Quantity	—	alue, f.o.b.	plant	
ڌَ	1			Ī		\$ Bil.	Mil.	Thou.	
	0734	0730	0736	A	0732	0731			
	Ductile iron castings	,		T					
	Ductile iron pressure pipe and fittings Ductile iron pressure pipe								
	Ductile Iron pressure pipe								
1	Less than 14 inches (inside diameter)	331511 1201	9					1 1	
2	14 inches or more (inside diameter)	331511 1106	<u> </u>						_
	Fittings								
	, and the second					1			
3	Less than 14 inches (inside diameter)	331511 1111)						4
4	14 inches or more (inside diameter)	331511 1116) show	rt tons		İ			
	Other ductile iron castings		31101						1
	Cure ademic non edeanige					1		1 1	ĕ
5	Automotive uses	331511 3101)						9
6	Construction and utility upon	331511 3206	,			1		1 1	I ~
0	Construction and utility uses	331311 3200	<u> </u>						331
7	Machinery uses	331511 3216	5				1 1	1 1	
						1			
8	Valve uses	331511 3211	5						-
	All other uses (including electric and								
9	electronic equipment uses and heat resistant parts) (including coke oven door parts)	331511 3221	5	\					

CONTINUE WITH ② ON PAGE 11

•	DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVE	ENUE - Continue	л 	D 1 .						
10 11 12 13 14 15 16 17		Census product	Unit of		shipped and other receipts, ling interplant transfers					
	Products and services	code	measure for quantities	Quantity		plant				
5	2004	0700	0700		\$ Bil.	Mil.	Thou.			
	0734	0730	0736	0732	0731					
	Gray iron castings (excluding ductile iron)		short tons							
0	Molds and stools for heavy steel ingots	331511 E200 7	+							
	Cast iron pressure pipe and fittings Cast iron pressure pipe									
11	Less than 14 inches (inside diameter)	331511 5101 7								
12	14 inches or more (inside diameter)	331511 5106 6								
	Fittings		1							
13	Less than 14 inches (inside diameter)	331511 5111 6								
14	14 inches or more (inside diameter)	331511 5116 5			'					
	Cast iron soil pipe and fittings (including special fittings)									
	Cast iron soil pipe									
15	3 inches or less (inside diameter)	331511 7101 5								
16	More than 3 inches, and up to but not including 5 inches (inside diameter)	331511 7106 4	_							
17	5 inches or more (inside diameter)	331511 7111 4	_							
	Fittings (including special fittings)									
8	3 inches or less (inside diameter)	331511 7116 3	short tons							
19	More than 3 inches, and up to but not including 5 inches (inside diameter)	331511 7121 3	_							
20	5 inches or more (inside diameter)	331511 7126 2	-							
	Other gray iron castings									
21	Rolls for rolling mills	331511 9101 3	_							
22	Automotive uses	331511 9206 0								
23	Construction and utility uses	331511 9111 2								
24	All other uses	331511 9116 1								
25	Standard malleable iron castings	331511 A100 3								
26	Pearlitic malleable iron castings	331511 C300 7	 							

22	DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVE		1	Б.			
ō.	Products and services	Census product	Unit of measure for	Products includ	shipped a ding interp	nd other re plant transf	eceipts, ers
Line No.	Froducts and services	code	quantities	Quantity		plant	
=					\$ Bil.	Mil.	Thou.
	0734	0730	0736	0732	0731		
	Steel investment castings			-			
27	Carbon (including low alloy)	331512 0101 0					
28	Alloy (excluding stainless)	331512 0106 9					
29	Stainless steel	331512 0311 5					
30	Hi-temp metal castings (iron, nickel, or cobalt- base alloys)	331512 0216 6	pounds				
	Other carbon steel castings, except investment						
31	Cast steel railroad car wheels and railway specialties	331513 1101 7					
32	Other carbon steel castings (including rolls for rolling mills)	331513 1211 4					
	High alloy steel castings (except investment)		short tons				
33	High manganese steel castings	331513 3101 5	↓ ↓				
34	Other high alloy steel castings	331513 3106 4					
	Other alloy steel castings (except investment)		1				
35	Railway specialties	331513 5101 3	short tons				++
36	Rolls for rolling mills	331513 5106 2					
37	All other alloy steel castings	331513 5111 2	+				
38	Aluminum and aluminum-base alloy die-castings .	331521 0100 3					
	Nonferrous die-castings (except aluminum)						
39	Copper and copper-base alloys (including bearings and bushings)	331522 0101 9	1000 lb				
40	Zinc and zinc-base alloys	331522 0206 6					
41	Magnesium and magnesium-base alloys	331522 0311 4					
12	Lead and lead-base alloys	331522 0416 1	+				
	Other nonferrous metal die-castings (Specify kind of metal.)						
ı3		331522 0521 8				1 1	

CONTINUE WITH **②** ON PAGE 13



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·	DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVE	Census product	Unit of			nd other re plant transf	
Line No.	Products and services	code	measure for quantities	Quantity	Va \$ Bil.	alue, f.o.b. Mil.	plant Thou
	0734	0730	0736	0732	0731		
	Other nonferrous castings, nec (excluding diecastings)						
0	Zinc and zinc-base alloy	331528 0201 4					
	Magnesium and magnesium-base alloy						
1	Sand	331528 0206 3					
62	Other (including permanent and semipermanent mold and cast anodes)	331528 0211 3					
63	Nickel and nickel-base alloy	331528 0116 4					
	Other nonferrous metal castings (Specify kind of metal.)						
64		331528 0221 2					
	Industrial molds and mold boxes, nsk (excluding molds for metal, metal carbides, or wax) (Specify kind.)						
35		333511 0YWW 4					
66	Foundry patterns (billed to customers separately) (Include only those patterns whose cost was borne directly by the company for whom the pattern was made, whether delivered to that company or kept in your own plant.)	332997 0101 2					
67	Receipts for machine shop job work and job order repairs	332710 0100 1					
88	Ductile iron grooved fittings and couplings for piping systems	332919 3113 8					
69	Gas (all types) domestic heating stoves, including vented and unvented circulators, radiants, and laundry stoves (excluding parts)	333414 3101 4					
70	Multiple drive sheaves	333613 3649 9					
11	Pulleys	333613 3767 9					
2	Parts for mechanical power transmission equipment	333613 3798 4					
'3	Parts for winches (except for mounting on prime movers), aerial work platforms, automobile hoists (sold separately)	333923 7495 6					
' 4	Compression type piston rings for motor vehicle engines (passenger car, truck, and bus), all types .	336311 3209 0					
75	Research and development on missile and space vehicle parts and components for other customers	336419 3111 9					



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CONTINUE WITH **②** ON PAGE 15

DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

	Duradicate and comities	Census product	Unit of	Products shipped and other receipts, including interplant transfers						
Line No.	Products and services	code	measure for quantities	Quantity	V \$ Bil.	alue, f.o.b. Mil.	plant Thou.			
	0734	0730	0736	0732	0731					
	All other products made in this establishment - Specify and report each product with sales value of \$50,000 or more that cannot be assigned to one of the "listed products and services". For all remaining products, write "Other" and report a single total value.									
76		18				1 1				
77		26								
78		34								
		42			I					
79		59					+++			
80										
81		67				1 1	1 1			
	Contract work - Receipts for work done for others on their materials (Specify products worked on and kind of work.)									
82		000930 0000 8								
	Miscellaneous receipts									
83	Sales of scrap and refuse	000999 8013 8								
84	Receipts for repair work	000999 8061 7								
85	Other miscellaneous receipts	000999 8098 9								
0.6	Resales - Sales of products bought and sold without further manufacture, processing, or assembly (The cost of such items should be	000000 0000								
86	reported in (a) , line A2.)	000999 8900 6								
87 2 0	TOTAL (Should equal @, line A)	770000 0000 8								

23–25 Not Applicable.

01111 1410					i age i
26 SPE	CIAL INQUIRIES				
:	SELECTED PRODUCTS PRODUCED AND CONSUMED				
	 Report below the quantity of each listed item produced in this establishment and used in manufacturing other products made in this establishment. 	ent			
•	Purchases or receipts of the items specified below should be reported only in 6 .				I
•	• Materials used to produce the items specified below should be reported in © .		M4IIIVII :£		Quantities produced in this
	 Quantities produced for sale as such and not for incorporation in other products should be reported in ②. Report quantities in the unit of measure specified. 		Mark "X" if not performed at this establishment	Unit of measure for quantities	establishmen
	1. Ferrous foundries	8301		short tons	
2	2. Nonferrous foundries, excluding die-casting				
	a. Aluminum	8302		1000 lb	
	b. Copper	8303		1000 lb	
	c. Zinc	8304		1000 lb	
	d. Other	8305		1000 lb	
;	3. Nonferrous die-casting foundries	8306		1000 lb	
•	4. Did this establishment produce precision turned products (on screw machines, turning centers, and CNC equipment)? Yes 8308 No				
27 Not	Applicable.				

		wn, please enter your 11-digit Census File CFN) from the mailing address.									
28		BLISHMENT ACTIVITIES									
						This	activity w	as per	formed -		
	or du	dicate activities that were performed by this establishment were performed for this establishment by another company uring 2002. **Jark "X" ALL that apply.)	B estab	y this lishm		estab o	another blishment f this mpany		another npany	No	t at all
	1.	Product design/engineering	0921			8071		0941		0961	
	2.	Order fulfillment									
		a. Bundling or kitting (combining multiple items into a prepackaged product)	0923			8072		0943		0963	
		b. Pick and pack (taking goods from inventory and packaging them to fill orders)	0924			8073		0944		0964	
		c. Warehousing of finished products	0925			8074		0945		0965	
		d. Breaking bulk (reducing large shipments into smaller portions for customers)	0926			8075		0946		0966	
		e. Local delivery (within a city, town, or other local area, including adjoining towns and suburban areas)	0927			8076		0947		0967	
		f. Long distance delivery (beyond local areas and commercial zones)	0928			8077		0948		0968	
		g. Processing of returned merchandise	0932	Ш		8078		0952		0972	
	B. Du	uring 2002 did this establishment:									
	1.	Manage inventory owned by this establishment AND held at this location?	0936		Yes	6		0937	□ No	1	
	2.	Manage inventory owned by this establishment BUT held at a customer's location?	0956		Yes	3		0957	□ No)	
	3.	Manage inventory owned by another company BUT held at this location?	0976		Yes	Yes			□ No	1	
	4.	Manage inventory owned by another company AND held somewhere other than at this location?	0994		Yes	5		0995	□ No	•	
	5.	Contract with another firm for any of your production using materials owned by this location?	8041		Yes	5		8042	□ No	1	
	6.	Send any partially completed products to a foreign facility for processing that were then returned to this establishment for completion?	8044		Yes	6		8045	□ No	,	
	7.	Manufacture products for a government to their specifications?	8047		Yes	5		8048	□ No		
	8.	Manufacture products for another business to their specifications?	8016		Yes	5		8017	□ No		
	9.	Manufacture products for a final retail customer to their specifications?	8060		Yes	S		8062	□ No		

. •			113											1 age 10
29	OPE	RAT	IONAL STATUS											
	Activ (Mar	ity t k "X	that best describes th (" only ONE box.)	is est	ablishment's sta	itus at tl	he end o	f 2002						
	0011		In operation	0013	Temporaril	y or sea	sonally i	inactive						
	0012		Under construction, development, or	0014	Ceased ope	eration -	- Give da	ite at rigl	ht	-	0018	Month	Day	Year
			exploration	at right i	another o AND ente ss below	perator - er new n	. —— ame							
		006	Name of new owner o	r ope	rator			Employer Enter EIN	Identification of new	ion iv	lumbe	r 		
								owner (9	digits) —	-		-		
		006	² Mailing address (num	ber ar	nd street, P.O. Box	, etc.)								
		006	3 City, town, village, etc						0064 St	tate	0065 Z I	P Code		
			,, ,, , , , , , , , , , , , , , , , ,								İ	i i i	_	
Rem	narks	(Plea	ase use this space for	any	explanations tha	at may b	oe essent	tial in un	derstandi	ng y	our re	ported	data.)	
30	CER	ΓIFIC	CATION - This report	is suk	ostantially accura	ate and	was prer	pared in	accordano	ce w	ith the	e instru	ctions.	
					-									
Is the	e time	per	riod covered by this r	eport	a calendar year	?		Month	n Yea	r			Month	Year
0078	□ Y	es	0079 No - Er	ter ti	me period cover	ed—▶	FROM				,	то	ı	1 1 1
								070				0071		
0072	vame (ot pe	erson to contact regarding	ng this	report		0073 Title	9						
			Area code		Number	Exte	nsion			Area	code		Num	ber
	Telep	hone						Fa	ıx					
			0074		-	1			0075				-	
0076 	nterne	t e-n	nail address						Date	.		Month	Day	Year
									comple				1	1 1 1
											0069			
			Thank you f	or o	completing	your	2002	Econ	omic C	en	sus	form		

Thank you for completing your 2002 Economic Census form.

PLEASE PHOTOCOPY THIS FORM FOR YOUR RECORDS AND RETURN THE ORIGINAL.

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