16	DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES					
	General - The materials, parts, and supplies listed below are those commonly processing, or assembly of the products listed in 2 . Please review the entire l consumed. Leave blank if you do not consume the item. If you use materials, describe and report them in the "Cost of all other materials" at the end of \$25,000 of a listed material, include the value with "Cost of all other materials".	ist and report sep parts, and suppli this section. If ye	parately es that ou cons	y each iter are not lis sumed les	sted, s than	
	Report materials, parts, and supplies purchased, transferred from other plants inventory.					
	If quantities are requested, please use the unit of measure specified.		ND'			
	If the information as requested cannot be taken directly from your book received a comparison of the second s	REASDNARLE	ESTIN	ATES AR	E	
	Valuation of Materials Consumed - The value of the materials, etc., consur cost; i.e., the amount paid or payable after discrups an Vinculuding freight and acquiring the materials.					
	Materials received from other plans within your company photol be report d assigned by the shipping plant, plus the cost of freight and other and ing case	t their full ecor	nomic v	alue (the v	value	
	If purchases or transfers do not differ significantly from the amounts actually the cost of purchases or transmire. However, from umption differs significant transferred, these amounts those be adjusted for changes in the materials ar beginning inventory to the amount purchased or transferred and subtracting e	put into production by from the amound supplies inven	ints pu tories l	i may repo rchased or by adding	ort f the	
	Contract Work - Include as materials consumed those you purchased for use under contract. Amounts paid to the companies doing the contract work shou include freight in and out. On the other hand, materials owned by others but o products for others under contract or on commission should be excluded.	ld be reported in	🕒, line	e A5, and s	should	
	Resales - Cost for products bought and sold or transferred from other establi without further manufacture, processing, or assembly should be reported in products shipped by this establishment should be reported in 2 under Censu	, line A2, not in	🕼. The	value of t	these	
Line No.	Materials, parts, and supplies	Census material code	mate re	umption of prials and of ceived from ablishments company	materials other of your	
Lin				ncluding de (freight-i	n)	
	0634	0630	\$ Bil.	Mil.	Thou.	
	Fabricated metal products (excluding castings and forgings)					
1	Bolts, nuts, screws, washers, rivets, and other screw machine products .	332722 03 2				
2	Metal stampings	332000 AC 2				-
3	Valves, fittings, and couplings purchased for further assembly	332900 03 4				
4	Other fabricated metal products	332000 29 8				
	Castings (rough and semifinished)					
5	lron	331511 01 4				
6	Steel	331510 09 9				5
7	Aluminum and aluminum-base alloy	331520 05 6				3108
8						33231085
	Copper and copper-base alloy	331525 00 6				
9	Other nonferrous castings	331520 09 8				
10		000111.01.0				
10	Iron and steal forgings					
11	Iron and steel forgings	332111 01 2 332112 01 0				

CONTINUE ON PAGE 9

16	DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES - Continued				
e No.	Materials, parts, and supplies	Census material code	mater red	Imption of rials and of ceived from Iblishments compan	mate of othe of yo
Line			Cost, ii	ncluding de (freight-i	-
	0634	0630	\$ Bil. 0631	Mil.	Th
	Shapes and forms (excluding castings, forgings, and fabricated metal products) Steel				
12	Bars, bar shapes, and plate	331200 07 1			
13	Sheet and strip	331200 17 0			
14	All other steel shapes and forms	331200 33 7			
	Copper and copper-base alloy				
15	Refinery shapes	331411 05 8			
16	Rods, bars, and mechanical wire (including extruded and/or drawn shapes)	331421 05 7			
17	Pipe and tube	331421 35 4			
18	All other copper and copper-base alloy shapes and forms	331421 45 3			
19	Aluminum and aluminum-base alloy shapes and forms	331000 39 8			
20	All other nonferrous shapes and forms	331000 83 6			
21	Scrap; including iron, steel, and aluminum and aluminum-base alloy (excluding home scrap)	001900 60 4			
22	Electric motors and generators less than 1 horsepower (less than 746 watts)	335312 27 8			
23	Paperboard containers, boxes, and corrugated paperboard	322210 01 4			
24	Rubber and plastics hose and belting Hydraulic and pneumatic hose, rubber and plastics inner tube type, wire or textile reinforced (without fittings)	326220 03 5			
25	Other rubber and plastics hose and belting	326220 05 0			
26	Gaskets and packing and sealing devices (all types)	339991 03 6			
27	Fabricated rubber products, excluding tires, tubes, hose, belting, and gaskets	326000 17 1			

CONTINUE WITH **1** ON PAGE 10

Forn	n MC-33231					Page 10
16	DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES - Continued					
Line No.	Materials, parts, and supplies	Cens	sus material code	mat r es	sumption of erials and of eceived from tablishments compan including de (freight-i	materials other of your y elivery cost
				\$ Bil.		Thou.
	0634	0630		0631		1
28	Fabricated plastics products (excluding gaskets)	32	6100 11 2			1
29	Cost of all other materials and components, parts, containers, and supplies consumed (Specify the principal materials, etc., included in this value.)	00	9700 99 8			
30	TOTAL (Should equal total reported in (), line A1)	77	1000 00 7			
D	-21 Not Applicable. DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE					
	 General - The manufactured products and services listed below are generally products that are not listed, describe and report them in the "All other product the end of ^O. 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 record ACCEPTABLE. Valuation of Products - Report the value of the products shipped and serve f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive If you transfer products to other establishments within your company, you she the transferred products; i.e., include all direct costs of production and a reaso profits. Contract Work - Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOU they were made in this establishment. On the other hand, do not report on the YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount contract receipts" under Census code 000930 0000 8. Resales - Do not report on the specific product lines those PRODUCTS BOUG OTHER ESTABLISHMENTS OF YOUR COMPANY AND SOLD WITHOUT FURTHunder Census code 000999 8900 6, "Resales." Detailed Data Reported Elsewhere - Items denoted by an asterisk (*) requi in the more frequent Current Industrial Reports (CIR). If you report on the CIR should equal the total reported on this form. NOTE: Only totals are requested; do not duplicate detail reported on the CIR. Special Instructions for Nuclear and Industrial Valves - Actuators and pa be included in the value of the valve but should be reported separately on the 	ts mail ds, RE ices p of fro ould a onable UR M, e spec that y HT AI IER M re tota form,	de in this es ASONABLE berformed a eight charge assign the fu proportion ATERIALS of cific product you received ND SOLD O IANUFACTU als for grou the sum of	E ESTI t the rest and ull eccord all on the t lines d for ' R TRA JRE. F ps of the d	MATES AR MATES AR dexcise tax nomic valu other cost specific lin PRODUCT commissio NSFERREE Report only products co etailed pro	ction at E value, es. ie to s and es as if S THAT n or D FROM a value overed ducts ould not
	CONTINUE WITH 2 ON PAGE 11					

22	DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued				
e No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	receipt	ts shipped s, including transfere	ı interpl s
Line				alue, f.o.b.	plant
_			\$ Bil.	Mil.	Tho
	0734 Gates, globes, angles, straightway (Y-type) checks, stop and check, cross, 3- and 4-way, etc. (including manual and power-operated, on-off valves; excluding automatic valves and water works)	0730	0731		
1	Iron body (including ductile or modular, all pressures; excluding IBBM, AWWA, and UL)	332911 1101 2			
	Carbon steel				
2	Cast	332911 1103 8			
3	Forged	332911 1105 3			
4	Alloy steel and other metals	332911 1107 9			
5	Brass and bronze (125 lb, wsp or more)	332911 1109 5			
6	Actuators (power-operated, on/off mounted) (<i>Report hydraulic and pneumatic actuators on 59 and 60 respectively</i> .)	332911 1111 1			
7	Parts	332911 1213 5			
	Valves for water works and municipal equipment (IBBW, AWWA, and UL)				
8	IBBM gate line and tapping valves	332911 3101 0			
	UL valves (all pressures)			1	
9	Check valves	332911 3103 6			
10	All others (including pest indicators)	332911 3105 1			
11	Tapping sleeves and crosses	332911 3107 7			
12	Fire hydrants	332911 3109 3		I I	
13	AWWA valves (all pressures)	222011 2111 0			
<u>13</u> 14	Check valves	332911 3111 9			
14 15	Parts	332911 3113 5 332911 3215 8			
	Ball valves, all metals, pressures, and types (including manual and power- operated, on/off valves; excluding automatic control valves, solenoid valves, and regulators)	502011 5215 5			
16	Iron (including ductile)	332911 5101 8			
17	Brass and bronze	332911 5103 4			
18	Carbon steel (cast and fabricated)	332911 5105 9			

0.	Products and services	Census product	Produc receipt	cts shipped s, including transfers	interplant
Line No.	*Items correspond to products reported on Current Industrial Reports (CIR)	code	V	alue, f.o.b.	
Li			v \$ Bil.	Mil.	Thou.
	0734	0730	0731		mou.
	Ball valves, all metals, pressures, and types (including manual and power- operated, on/off valves; excluding automatic control valves, solenoid valves, and regulators) - Continued				
19	Alloy steel and other metals	332911 5107 5			
20	Actuators (power-operated, on/off mounted) (<i>Report hydraulic and pneumatic actuators on lines 59 and 60 respectively</i> .)	332911 5109 1			
21	Parts	332911 5211 5			
	Butterfly valves, all metals, pressures, and types (including manual and power-operated, on/off valves but excluding automatic control valves and regulators and all IBBM, AWWA, and UL valves) Industrial types (including elastomer and fluroplastics, lined)				
22	Iron (including ductile)	332911 7101 6			
23	Brass and bronze	332911 7103 2			
24	Carbon steel (cast and fabricated)	332911 7105 7			
25	Alloy steel and other metals	332911 7107 3			
	High pressure types (shut-off to full ANSI class ratings)				
26	Iron	332911 7109 9			
27	Carbon steel (cast and fabricated)	332911 7111 5			
28	Alloy steel and other metals	332911 7113 1			
29	Actuators (power-operated, on/off mounted) (<i>Report hydraulic and pneumatic actuators on 59 and 60 respectively.</i>)	332911 7115 6			
30	Parts	332911 7217 0			
	Plug valves, all metals, pressures, and types (such as lubricated, nonlubricated, cylindrical eccentric, sleeve-lined) (except cocks and stops including manual and power-operated, on/off valves but excluding automatic control valves, solenoid valves, and regulators)				
31	Iron (including ductile)	332911 9101 4			
32	Carbon steel	332911 9103 0			
33	Alloy steel or other metals	332911 9105 5			
34	Parts (including actuators) (power operated, on/off mounted)	332911 9208 7			
	Industrial valves, nec				
35	Cocks and stops, all metals, pressures, and types	332911 B101 1			
36	Diaphragm and pinch valves (including operators, all metals, pressures, and types; excluding automatic valves)	332911 B103 7			

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22	DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued				
No.	Products and services	Census product	Produc receipt	cts shipped s, including transfers	interpla
Line	*Items correspond to products reported on Current Industrial Reports (CIR)	code	V	alue, f.o.b.	plant
			\$ Bil.	Mil.	Tho
	0734	0730	0731		
	Industrial valves, nec - Continued				
	Pop safety valves and relief valves (more than 15 lb, wsp)				
37	Iron and steel	332911 B105 2			
38	Brass and bronze	332911 B107 8			
39	Compressed gas cylinder valves	332911 B109 4			
40	Steam traps (more than 15 lb, wsp)	332911 B111 0			
41	Actuators (power-operated, on/off mounted) (<i>Report hydraulic and pneumatic actuators on 59 and 60 respectively</i> .)	332911 B115 1			
42	Other metal valves (excluding control valves, regulators, and solenoid valves)	332911 B118 5			
	Nuclear valves (N-Stamp only)				
43	Gate, globe, and check valves	332911 D102 7			
44	Valves (including ball valves, butterfly valves, plug valves, automated control valves, parts, and actuators)	332911 D108 4			
45	Parts	332911 D213 2			
46	Automatic valves (regulating and control type) and parts (except nuclear) (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002)*	332911 F100 9			
47	Solenoid-operated valves and parts (except nuclear and fluid power transfer) (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002, item codes 4073 - 4079.)*	332911 H100 7			
48	Nonaerospace type pneumatic directional control valves	332912 9100 4			
	Plumbing and heating valves and specialties (except plumbers' brass goods)				
49	Safety and relief valves	332919 1101 5			
50	Check valves	332919 1203 9			
51	All other plumbing and heating valves (including gates, globes, angles, 3- and 4-way drain, brass and bronze) (less than 125 lb, wsp)	332919 1205 4			
52	Plumbing and heating valve specialties	332919 1207 0			
53	Parts	332919 1209 6			
54	Metal fittings, flanges, and unions for piping systems (pipe couplings)	332919 3335 7			
55	Ductile iron fittings, flanges, and unions for piping systems	332919 3111 2			
56	Cast brass or bronze fittings, flanges, and unions for piping systems, including solder and threaded types	332919 3215 1			

No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product	Produ receipt	cts shipped s, including transfer	g interpla
Line	"nems correspond to products reported on Current industrial Reports (Ciri)	code	V	alue, f.o.b.	plant
			\$ Bil.	Mil.	Thou.
	0734	0730	0731		
57	Fabricated iron and steel pipe and pipe fittings made from purchased pipe	332996 3101 1			
58	Industrial pumps (except hydraulic fluid power pumps, automotive circulating pumps and measuring and dispensing pumps) (Corresponds to value of shipments reported on CIR Form MA333P, Pumps and Compressors, for 2002)*	333911 1440 3			
59	Nonaerospace hydraulic (linear and rotary) fluid power cylinders and actuators (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products, for 2002)*	333995 1100 6			
60	Nonaerospace pneumatic (linear and rotary) fluid power cylinders and actuators (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products, for 2002)*	333995 3100 4			
61	Relays and industrial controls	335314 5100 4			
62	Controls for monitoring residential and commercial environments and appliance regulating controls	334512 0100 9			1 1
-					
63	Process control instruments	334513 0100 7			
64	Rotary oil and gas field surface drilling machinery and equipment, including kelly joints	333132 1122 0			
65	Parts for rotary oil and gas field drilling equipment, sold separately (except for portable drilling rigs)	333132 1271 5			
66	Oil and gas field production well casings and tubing heads and supports (surface, subsurface, and subsea)	333132 5106 9			
67	Oil and gas field production well subsea Christmas tree assemblies, manifolds, and templates	333132 5121 8			
68	Parts, attachments, and accessories for commercial drycleaning equipment and clothing presses	333312 0491 8			
	Fluid power valves and hose fittings, nsk <i>(Specify kind.)</i>				
69		332912 WYWW 2			
	Metal fittings, flanges, and unions for piping systems, nsk (Specify kind.) $\overrightarrow{ m p}$				
		332919 3YWV 9			

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22	DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued					
Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Cen	sus product code			d and othe og interplan rs
ine	"nems correspond to products reported on current industrial Reports (CIR)		coue	· ·	Value, f.o.b	. plant
				\$ Bil.	Mil.	Thou.
	0734	0730		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.					
		18				
71						
72		26				
		34				
73						
74		42				1 1
/4		59				
75						
76		67				
	Contract work - Receipts for work done for others on their materials (<i>Specify products worked on and kind of work.</i>)					
77		000	930 0000 8			
	Miscellaneous receipts					
						1 1
78	Sales of scrap and refuse	000	999 8013 8			
79	Receipts for repair work	000	999 8061 7			
/5			333 0001 7			
80	Other miscellaneous receipts	000	999 8098 9			
81	Resales - Sales of products bought and sold without further manufacture, processing, or assembly (The cost of such items should be reported in D , line A2.)	000	999 8900 6			
82	TOTAL (Should equal 4), line A)	770	000 0000 8			
23	-27 Not Applicable.					

28	ESTA	BLISHMENT ACTIVITIES											
						This a	ctivity w	as per	form	ed -			
	or du	dicate activities that were performed by this establishment were performed for this establishment by another company ring 2002. Mark "X" ALL that apply.)		y this lishm		establ of	nother ishment this ipany		anoth npan		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			8078		0952			0972		
	B. Du	ring 2002 did this establishment:											
	1.	Manage inventory owned by this establishment AND held at this location?	0936		Yes	6		0937		No			
	2.	Manage inventory owned by this establishment BUT held at a customer's location?	0956		Yes	6		0957		No			
	3.	Manage inventory owned by another company BUT held at this location?	0976		Yes	6		0977		No			
	4.	Manage inventory owned by another company AND held somewhere other than at this location?	0994		Yes	6		0995		No			
	5.	Contract with another firm for any of your production using materials owned by this location?	8041		Yes	6		8042		No			
	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	6		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	5		8062		No			

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29	OPFF	RΔΤΙ	DNAL S	IAIUS														
4	Activ	vitv tl	at best		es this)	establi	ishme	ent's stat	us at the	e end o	f 2002							
	0011	_	n opera			0013	Ter	nporarily	or seas	onally i	inactive							
	0012		Jnder o levelop xplora	onstruct ment, o ion	r	0014 0 0015 0	Sol <i>Giv</i>	d or leas	ed to an t right A	nother o ND ente	nte at righ operator - er new na ' 7	_		001	8 Mon	ith [Day	Y
		0060	Name c	f new ow	ner or	operato	or			0061	Employer	denti	fication	Numb	ber			
											Enter EIN	of nev	v		-			I
		0062	Mailing	address	(numbe	er and st	treet.	P.O. Box,	etc.)		owner (9 d	iigits)						
					(0.00.									
		0063	City to	vn, villag	o oto							00	SA State	0.065	ZIP Co	do		
		0003		vii, viilay	e, eic.									9 0005		ue		
															1 1	1	-	
3	CERT	TIFIC	ATION	This re	port is	substa	antiall	y accura	te and w	vas preț	pared in a	ccoru	dance	with t	he inst	tructi	ons.	
	e time			red by t	his re	port a c	calenc	lar year?		/as prep	pared in a		dance Year	with t	he inst		ons.	Y
Is the	e time	e peri ′es	od cove	red by t	his rep - Ente	port a c er time	calenc peric	-	ed →	FROM	Month			with t		M		Y
Is the	e time	e peri ′es	od cove	red by t	his rep - Ente	port a c er time	calenc peric	lar year?	ed →	FROM	Month			with t	то	M		Y
Is the	e time	e peri ′es of per	od cove 0079 son to c	red by t	his rep - Ente	oort a c er time this rep	calenc peric	lar year?	ed →	FROM 00 0073 Title	Month	x	Year	with t	TO 00	M		
Is the 0078	e time Y Name c Telepl	e peri ′es of per	od cove	red by t	his rep - Ente	oort a c er time this rep	calenc peric port	lar year?	ed	FROM 00 0073 Title	Month 070	x	Year		TO 00	71 M	onth	