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Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997

INSTRUCTIONS

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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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

Line No.		Ma	Census material code	Consumption of purchased materials and of materials received from other establishments of your company Cost, including deliver cost (freight-in) (E)			
	FABRICATED		(A)	(B)	Millions	sands 	Dollars
1	METAL PRODUCTS	Bolts, nuts, screw	vs, washers, rivets, and screw machine products	345001 2	\$	 	·
2	(Except forgings)	Metal stampings		346901 2		 	
3		Valves, fittings, a	nd couplings purchased for further assembly	349005 9		 	
4		Other fabricated	metal products	340061 1		 	
5	CASTINGS (Rough and semifinished)	Iron		332011 6		 	
6	seministicay	Steel		332045 4		 	
7		Aluminum and al	uminum-base alloy	336005 4		 	
8		Copper and copp	per-base alloy	336006 2		 	
9		Other nonferrous	castings	336008 8		 	
10	FORGINGS	Iron and steel		346200 9		 	
11		Nonferrous forgir	ngs	346300 7		1	
12	Shapes and Forms (Except	STEEL	Bars, bar shapes, and plate	331007 5		 	
13	castings, forgings,		Sheet and strip	331022 4		 	
14	and fabri- cated metal products)		All other steel shapes and forms	331034 9			
15	• •	COPPER AND COPPER-BASE	Refinery shapes	333122 0		 	
16		ALLOY	Rod, bar, and mechanical wire (including extruded and/or drawn shapes)	335102 0			
17			Pipe and tube	335152 5			
18	(Continued on next page)		All other copper and copper-base alloy shapes and forms	335192 1		 	
			CONTINUE WITH ITEM 17 ON PAGE 6				

го	rm IVIC-34 I	0					Page 6			
lt	em 17. CONS	UMPTION OF SELECTED MATERIALS DU	JRING 1997 – Continued							
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) (E)					
Line				571	574	I I Thou-				
	Shapes and	(A)		(B)	Millions	sands	Dollars			
19	Forms (Except castings, forgings, and fabri- cated metal	Aluminum and aluminum-base alloy shapes an	d forms	335001 4	\$	 				
20	products) – Continued	All other nonferrous shapes and forms		335099 8		 				
21	Scrap (excluding	home scrap)		190060 4		 	l l			
		and generators less than 1 horsepower (less than	n 746 watts)	362130 6						
23	Paperboard cont	ainers, boxes, and corrugated paperboard		265001 8		1 	1			
24	RUBBER AND PLASTICS HOSE AND	Hydraulic and pneumatic hose (without fittings) inner tube type, wire or textile reinforced	, rubber and plastics	305202 4		 				
25	BELTING	Other rubber and plastics hose and belting		305204 0		 	l I			
26	Gaskets, packing	gs, and sealing devices		305302 2		 	1			
27	Fabricated rubbe	er products (except tires, tubes, hose, belting, an	d gaskets)	306902 8						
28	Fabricated plasti	cs products (except gaskets)		308006 6		 	l l			
29		r materials and components, parts, containers		970099 8		 				
30	TOTAL Sum of lir	nes 1–29 should equal item 10, line a			\$	 				
lte	em 18A – Not	applicable to this report								
lt	em 18B. PROI	DUCTS AND SERVICES OF THIS ESTABL	ISHMENT DURING 1997							
	listed below a make product them in the ", establishmen DO NOT COM If quantities a measure spec If the informa	te manufactured products and services are generally made in your industry. If you ts that are not listed, describe and report All other products made in this t" section at the end of item 18B. PLEASE MBINE PRODUCT LINES. are requested, please use the unit of cified. ation as requested cannot be taken directly ok records, REASONABLE ESTIMATES ARE	 Contract Work – Repo YOU FROM YOUR MATI were made in this estab report on the specific pr MADE FROM MATERIAL the amount that you rec receipts" under Census Resales – Do not report PRODUCTS BOUGHT AI OTHER ESTABLISHMEN WITHOUT FURTHER MA 	eport PRODUCTS MADE BY OTHERS FOR MATERIALS on the specific lines as if they stablishment. On the other hand, do not c product lines PRODUCTS THAT YOU RIALS OWNED BY OTHERS. Report only received for "commission or contract sus product code 93000 00 8. port on the specific product lines those T AND SOLD OR TRANSFERRED FROM MENTS OF YOUR COMPANY AND SOLD MANUFACTURE. Report only a value lot code 99989 00 6, "Resales."						
:	products ship selling value, discounts and charges and o If you transfer your company to the transfe	f Products – Report the value of the oped and services performed at the net f.o.b. plant to the customer; i.e., after d allowances, and exclusive of freight excise taxes. r products to other establishments within y, you should assign the full economic value rred products; i.e., include all direct costs of d a reasonable proportion of all other costs	 Detailed Data Report asterisk (*) require total the more frequent Curre report on the CIR forms should equal the total re NOTE: Only CIR totals a detail reported on the C Special Instructions f Actuators and parts whe included in the value of 	Is for groups of ent Industrial to the sum of t eported on th are requested IR. or Nuclear a re en shipped wit	of products Reports (Clf he detailed is census fo ; do not dup nd Industri th a valve sh	covere R). If yc CIR pro orm. plicate al Valv nould n	d in ou oducts /es - ot be			

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					Produc and oth	Products shipped and other receipts			
No.	*Item	s correspond to r	Products and services products reported on Current Industrial Reports	Census product code		ue, f.o.b. plant (E)			
Line N				581	584	l , Thou-	1		
			(A)	(B)	Millions	sands	l Dollar		
1	Gates, Globes, Angles,	Iron body (includ AWWA, and UL)	ing ductile or modular, all pressures; excluding IBBM,	34911 11 5	\$				
2	Straightway (Y-Type) Checks, Stop and Check,	CARBON STEEL	Cast	34911 21 4			1 		
3	Cross, 3- and 4-way, etc., (Including		Forged	34911 23 0		 -	 		
4	manual and power-oper- ated, on/off	Alloy steel and o	ther metals	34911 34 7		 	 		
5	valves; excluding		e (125 lb, w.s.p. or more)	34911 38 8			 		
6	automatic valves and water works)	Actuators (power and pneumatic a	r-operated, on/off mounted) – <i>Report hydraulic</i> actuators on lines 97 and 98, respectively.	34911 43 8		 	 		
7	(34911)	Parts	34911 52 9		 	 			
B	Valves for Water Works and	IBBM gate line a UL VALVES	nd tapping valves	34912 01 4		 			
9	Municipal Equipment (IBBW,	(All pressures)	Check valves	34912 11 3		 	i +		
0	ÀWWÁ, and UL) (34912)		All others (including pest indicators)	34912 21 2		 			
1		Tapping sleeves	and crosses	34912 23 8		 	 		
2		Fire hydrants AWWA		34912 31 1	ļ		 		
3	VALVES (All pressures)		Check valves	34912 35 2		 	 		
4			Butterfly valves	34912 41 0		 	 		
5		Parts		34912 43 6			1		
6	BALL VALVES, ALL METALS, PRESSURES,	Iron (including du	uctile)	34913 11 1			 		
7	AND TYPES (Including manual and	Brass and bronz	e	34913 23 6		 	 		
8	valves but	Carbon steel (ca	st and fabricated)	34913 35 0		 	 		
9	excluding automatic control valves,	Alloy steel and o	ther metals r-operated, on/off mounted) – <i>Report hydraulic</i>	34913 47 5			 		
_	solenoid valves,	and pneumatic a	ictuators on lines 97 and 98, respectively	34913 59 0		 			
21	(34913)	Parts INDUSTRIAL		34913 61 6		 			
22	Butterfly Valves, All Metals,	TYPES (Including elastomer and	Iron (including ductile)	34914 11 9		 			
23	(Including	fluroplastics, lined)	Brass and bronze	34914 13 5		 			
	manual and power- operated,		Carbon steel (cast and fabricated)	34914 15 0		 			
	on/off valves but excluding	HIGH-	Alloy steel and other metals	34914 17 6		 	 		
26	automatic control	PRESSURE TYPES (Shut- off to full ANSI	Iron	34914 21 8			1		
_	valves and regulators and all	class ratings)	Carbon steel (cast and fabricated)	34914 23 4					
	IBBM, AWWA, and UL valves)	Actuators (power	Alloy steel and other metals r-operated, on/off mounted) – <i>Report hydraulic</i>	34914 25 9		 	 		
29	(34914)	and pneumatic a	actuators on lines 97 and 98, respectively	34914 31 7			1		

CONTINUE WITH ITEM 18B ON PAGE 8

Fo	rm MC-341	6					Page 8	
lt	em 18 B. PROE	OUCTS AND SE	RVICES OF THIS ESTABLISHMENT DURING 1997 –	Continued				
					Products shipped and other receipts			
			Products and services	Census product	Value, f.o.b. plant			
	*Item	s correspond to p	products reported on Current Industrial Reports	code	584	(E)	1	
ON ON <th< td=""><td></td><td></td><td>(A)</td><td>(B)</td><td>Millions</td><td> Thou- sands</td><td> Dollars</td></th<>			(A)	(B)	Millions	Thou- sands	 Dollars	
_	PLUG VALVES, ALL METALS,					1	l I	
	PRESSURES, AND TYPES					1		
31	(Such as lubricated,	Iron (including du	uctile)	34915 11 6	\$	 	 	
	nonlubricated, cylindrical				- 			
32	eccentric, sleeve-lined) (Except cocks	Carbon steel	34915 23 1					
	and stops including					1	l	
23	manual and power-	Alloy steel or oth	er metals	34915 35 5		1		
	operated, on/off valves but				- 	 		
	excluding automatic control	Actuators (power	r-operated, on/off mounted) – <i>Report hydraulic and</i>			i I		
34		pneumatic actua	tors on lines 97 and 98, respectively	34915 47 0			 	
	regulators) (34915)				1	1		
35		Parts		34915 61 1		 	1	
36	Industrial Valves,	Cocks and stops	, all metals, pressures, and types	34916 11 4				
37	N.E.C. (34916)	Diaphragm and p	pinch valves (including operators, all metals, pressures, and automatic valves)	34916 23 9		 	1	
_		POP SAFETY VALVES AND				1	l I	
38		RELIEF VALVES (More	Iron and steel	34916 31 2		1	1	
		than 15 lb, w.s.p.)				1		
9			Brass and bronze	34916 33 8		' 	, 	
10		Compressed gas	s cylinder valves	34916 41 1				
11		Steam traps (mo	re than 15 lb, w.s.p.)	34916 53 6		 	1	
12		Thru conduit pipe	eline valves	34916 65 0		 	l	
43		Actuators (power	-operated, on/off mounted) – <i>Report hydraulic and</i> tors on lines 97 and 98, respectively	34916 78 3		 	 	
		-	es (excluding control valves, regulators, and solenoid valves)	34916 98 1		 	 	
_	Nuclear Valves	GATE, GLOBE,		34917 11 2		1		
_	(N-Stamp only)	AND CHECK VALVES	Cast-carbon steel and low alloy			 	1 	
16	(34917)		Forged-carbon steel and low alloy	34917 13 8				
17			Corrosion-resistant alloy steel	34917 15 3		 		
18			erfly valves, and plug valves (on/off only)	34917 27 8		 	1	
19		Actuators (power pneumatic actua	r-operated, on/off mounted) – <i>Report hydraulic and tors on lines 97 and 98, respectively</i>	34917 31 0				
50		Automated contr	ol valves	34917 39 3		 		
51		Parts		34917 98 9			1	
52	sum of the value	(regulating and co of shipments figur elected Instrument	34918 00 3		 	1		
53	the sum of the va	alue of shipments	s (except nuclear and fluid power transfer) (corresponds to figures for survey item codes 4073–4079 as reported on CIR s and Related Products, for 1997)*	34919 00 1		 		
54	FLUID POWER VALVES AND PARTS	Aerospace-type item codes 1281 1997)*	hydraulic fluid power valves (corresponds to the sum of –1289 on CIR Form MA35N, Fluid Power Products, for	3492A 00 7		 		
55		Aerospace-type	pneumatic fluid power valves (corresponds to item R Form MA35N, Fluid Power Products, for 1997)*	3492B 00 5		 		
56	(Continued on next page)	Nonaerospace-ty	vpe hydraulic directional control valves (corresponds to the es 1201–1219 on CIR Form MA35N, Fluid Power Products,	3492C 00 3		 		
					ONTINUE			

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				Census	Products shipped and other receipts			
No.	*ltem	s correspond to p	Products and services products reported on Current Industrial Reports	product code	Value, f.o.b. plant (E)			
Line				581	584 Millions	Thou-	l Dollai	
	FLUID POWER	Noncorconces ti	(A)	(B)			1	
57	VALVES AND PARTS – Continued	to the sum of iter Products, for 199	vpe hydraulic valves, except directional control (corresponds n codes 1221–1249 on CIR Form MA35N, Fluid Power 97)*	3492D 00 1	\$	 	 	
8		Nonaerospace-ty sum of item code for 1997)*	pe pneumatic directional control valves (corresponds to the 1251–1269 on CIR Form MA35N, Fluid Power Products,	3492E 00 8		 		
9		Nonaerospace-ty (corresponds to f Fluid Power Proc	vpe pneumatic valves, except directional control the sum of item codes 1271–1279 on CIR Form MA35N, ducts, for 1997)*	3492F 00 6		 		
60		Parts for fluid por 1293–1295 on C	wer valves (corresponds to the sum of item codes IR Form MA35N, Fluid Power Products, for 1997)*	3492G 00 4		 		
51	FLUID POWER HOSE FITTINGS AND ASSEMBLIES	assemblies (corr	hydraulic and pneumatic hose or tube end fittings and esponds to the sum of item codes 2271–2277 on CIR Form wer Products, for 1997)*	3492H 00 2		 		
2		Nonaerospace-ty tubing (including power transfer sy on CIR Form MA	3492J 00 9		 			
53		fittings) used in f	/pe flareless fittings and couplings (including nonmetal luid power transfer systems (corresponds to the sum of item 1 on CIR Form MA35N, Fluid Power Products, for 1997)*	3492K 00 7		 	 	
i4		Nonaerospace-ty (corresponds to t Fluid Power Proc	pe hydraulic and pneumatic fittings and couplings for hose the sum of item codes 2241–2251, on CIR Form MA35N, lucts, for 1997)*	3492M 00 3		 		
55		Nonaerospace-ty (corresponds to t Fluid Power Proc	pe hydraulic and pneumatic assemblies of hose the sum of item codes 2261 and 2263 on CIR Form MA35N, ducts, for 1997)*	3492N 00 1				
6	PLUMBING AND HEATING VALVES AND	Safety and relief	valves	34944 21 5		 	 	
57	SPECIALTIES (Except	Check valves		34944 31 4		 	i I	
8	plumbers' brass goods) (34944)	All other plumbin 4-way drain, bras	g and heating valves (including gates, globes, angles, 3- and ss and bronze) (less than 125 lb, w.s.p)	34944 41 3		 	 	
;9		Plumbing and he	ating valve specialties	34944 51 2		 		
0		Parts		34944 99 1				
1	Metal Fittings, Flanges,	GRAY IRON	Fittings, flanges, and unions	34945 11 3		 		
12	and Unions for Piping		Grooved fittings and couplings	34945 12 1			1	
'3	Systems (34945)	MALLEABLE IRON	Fittings and flanges (including reducers, caps, etc.)	34945 13 9				
4			Grooved fittings and couplings	34945 14 7		 +	 	
′5			Unions and union fittings	34945 15 4		 	 	
6		DUCTILE IRON	Fittings, flanges, and unions	34945 16 2		 		
7		0000050	Grooved fittings and couplings	34945 17 0		 +	i +	
8		COPPER, BRASS, OR BRONZE	Cast brass or bronze fittings, flanges, and unions	34945 18 8		 	 	
9		(Including solder and threaded types)	Wrought copper and wrought copper alloy fittings, flanges, and unions	34945 19 6		 		
	(Continued on next page)	Cast carbon and	alloy steel fittings, flanges, and unions	34945 21 2				

CONTINUE WITH ITEM 18B ON PAGE 10

					shipped			
		Census		her rece f.o.b. pl	· · · ·			
No.	*ltems	correspond to p	Products and se roducts reported	I on Current Industrial Reports	product	value,	(E)	ant
Line h			(A)		581 (B)	584 Millions	Thou- sands	I Dollars
81	Metal Fittings,	FORGED CARBON, ALLOY, AND		, and unions; socket-weld or	34945 23 8	\$		
82	Flanges, and Unions for Piping Systems –	STAINLESS STEEL	Flanges, butt– welding type	Carbon steel	34945 32 9			
83	(34945) – Continued			Alloy steel	34945 34 5		 	
84			Fittings, butt-	Stainless steel	34945 37 8		 	
85			welding type	Carbon steel	34945 42 8		 	
86				Alloy steel	34945 44 4			
87				Stainless steel	34945 47 7		 	<u> </u>
88			id supports (not in	cluding metal framing)	34945 71 7		 	
89		Pipe couplings All other metal fi	ttings, flanges, ar	34945 85 7		 	 	
90		systems; includi supports)	ng metal framing	and fittings for mechanical and electrical	34945 99 8			
91	Hose fittings and fittings and coup	l couplings (incluc lings used in fluid	34298 62 0			 		
92				e from purchased pipe (34980)	34980 13 6			
93	measuring and d	lispensing pumps	os, automotive circulating pumps and the sum of survey item codes pressors, for 1997)* (35611)	35611 00 3				
94	Nonaerospace h item codes 3301	ydraulic filters for –3309 on CIR Fo	fluid power syste rm MA35N, Fluid	ms (corresponds to the sum of survey Power Products, for 1997)* (35694)	35694 00 9			
95	Nonaerospace p item codes 3311	neumatic filters fo -3323 on CIR Fo	r fluid power syst rm MA35N, Fluid	ems (corresponds to the sum of survey Power Products, for 1997)* (35695)	35695 00 6		 	
96	value of shipmer	nts figure for surve	ver systems (hydr ey item codes 332 · 1997)* (35696)	aulic and pneumatic) (corresponds to the 25 and 3327 as reported on CIR Form	35696 00 4			
97	(corresponds to t	ydraulic (linear ar the sum of survey ducts, for 1997)* (item codes 4501	wer cylinders and actuators –4519 on CIR Form MA35N,	35934 00 9			
98	(corresponds to		item codes 4601	ower cylinders and actuators –4619 on CIR Form MA35N,	35935 00 6			
99	accumulators, cu	ushions, nonvehic rvey item codes 4 97)* (35939)	ular shock absorb 841–4847 and 48	lers and actuators (including pers, and related items) (corresponds 193 on CIR Form MA35N, Fluid Power	35939 00 8			
00	FLUID POWER PUMPS, MOTORS, AND	Nonaerospace p survey item cod for 1997)* (359	es 5504–5517 on	ing types (corresponds to the sum of CIR Form MA35N, Fluid Power Products,	35943 00 0		 	
01	HYDRO- STATIC TRANS-	Nonaerospace p	oumps, rotary and 534–5538 on CIR	other types (corresponds to the sum Form MA35N, Fluid Power Products,	35944 00 8			
02	MISSION COMPONENTS	Nonaerospace r 5545–5571 on ((35945)	notors (correspon CIR Form MA35N,	ds to the sum of survey item codes , Fluid Power Products, for 1997)*	35945 00 5			
03		Aerospace pump	s and motors (corr IR Form MA35N. F	esponds to the sum of survey item codes luid Power Products, for 1997)* (35946)	35945 00 5		· 	
		Parts for pumps codes 5591–559			 			
04		1997)* (35949)	35949 00 7		 			
05	General-purpose	relays and indus	ainless steel (35 9 trial controls (corr	responds to the sum of survey item codes	35994 15 1		 	
06	6402-6509 on C	IR Form MA36A, ls, for 1997)* (36	Switchgear, Switch	hboard Apparatus, Relays, and	36253 00 3		 	
07	controls and part	ts (corresponds to	the sum of surve	environments and appliance regulating ey item codes 4570–4609 on CIR Form s, for 1997)* (38220)	38220 00 0		 	
	Process control i			1	1			

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued												
Ite	M 188. PRODI	JUIS AND SERVICES OF	THIS ES	ABLISH	IVIEľ	NT DURIN	IG 199	7 – Cont	linued	Product	ts shipped	
									Census	and oth	er receipts	
No.		Products a	and service	es					roduct code		e, f.o.b. plant (E)	
Line No.								581		584 Millions	Thou-	lloro
	ALL OTHER	(Describe and report separ	A)	product	with	a sales va	lue of		(B)	WIIIIOIIS	sands Do	Idis
	PRODUCTS MADE IN THIS	\$50,000 or more which cal above. For all remaining p	nnot be as	sianed to	o one	of the line	s					
	ESTABLISH- MENT	single total value.										
109								18		\$		
110								26				
111								34				
112								42				
								59				
113								67				
114	CONTRACT											
115	WORK	Receipts for work done for Describe below products w						930	8 00 000			
								_				
								_				
								_				
	MISCELLA-									-		
116	NEOUS RECEIPTS	Sales of scrap and refuse						999	980 13 8			
117		Receipts for repair work						999	980 61 7			
118		Other miscellaneous recei	pts					999	980 98 9			
119	RESALES	Sales of products bought a processing, or assembly in items should be reported	n this estab	olishmen	irther t. The	manufact e cost of si	ure, uch	999	989 00 6			
120	TOTAL v	alue of shipments and ot nes 1–119, column (E)	her receip	ots				77(00 00 8	\$		
								///	500 00 8	Þ	!!!	
		ot applicable to this repo		hot	ha i	oonti-1 .	up d= ··	tondin	0.00	rtod d-t-		
KEI	VIAKKS – Piease	e use this space for any exp	ianations t	nat may	be es	sential in	unaersi	tanding y	our repo	ortea data.		
		CATION – This report is su			te an	d has bee						
Na 667	-	contact regarding this repo	rt (Print or	type)		Telephor		ea code	Numbe	er	Extensio	n
Nai	me of company				Add	ress (Num	ber and	d street, c	city, State	e, ZIP Code)		
Рег	–	ROM: Month	Day	Yea	r	TO: N	/lonth		Da	y I	Year	
		of authorized person Title								Date		