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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.

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. Produced and Consumed – Forgings, foundries, and steel 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.

4. 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.

5. 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."

Report materials, parts, and supplies purchased or transferred from other plants of your company, or withdrawn from inventory.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

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| Line No. | Materials, parts, and supplies<br><br>(A)                                                 | Census material code<br><br>(B)                                                                                                               | Consumption of purchased materials and of materials received from other establishments of your company |                |         |
|----------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------|---------|
|          |                                                                                           |                                                                                                                                               | Cost, including delivery cost (freight-in)<br>(E)                                                      |                |         |
|          |                                                                                           |                                                                                                                                               | 574<br>Millions                                                                                        | Thou-<br>sands | Dollars |
| 1        | Diesel and semidiesel engines                                                             | 351920 4                                                                                                                                      | \$                                                                                                     |                |         |
| 2        | Steam engines and turbines                                                                | 351121 9                                                                                                                                      |                                                                                                        |                |         |
| 3        | Integral horsepower electric motors and generators (1 horsepower or more)                 | 362120 8                                                                                                                                      |                                                                                                        |                |         |
| 4        | Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.) | 369401 5                                                                                                                                      |                                                                                                        |                |         |
| 5        | Speed changers, gears, and industrial high-speed drives                                   | 356601 5                                                                                                                                      |                                                                                                        |                |         |
| 6        | Industrial controls                                                                       | 362511 8                                                                                                                                      |                                                                                                        |                |         |
| 7        | FLUID POWER PRODUCTS (Hydraulic and pneumatic)                                            | Hydraulic and pneumatic fluid power pumps, motors, and hydrostatic transmissions                                                              | 359412 4                                                                                               |                |         |
| 8        |                                                                                           | Valves                                                                                                                                        | 349271 7                                                                                               |                |         |
| 9        |                                                                                           | Cylinders and rotary actuators                                                                                                                | 359301 9                                                                                               |                |         |
| 10       |                                                                                           | Hose or tube fittings and assemblies                                                                                                          | 349261 8                                                                                               |                |         |
| 11       |                                                                                           | Filters                                                                                                                                       | 356921 7                                                                                               |                |         |
| 12       |                                                                                           | Other fluid power products; except pumps, compressors, valves, cylinders, rotary actuators, hose or tube fittings and assemblies, and filters | 190089 3                                                                                               |                |         |
| 13       | FABRICATED METAL PRODUCTS, (Except forgings)                                              | Fabricated structural metal for ships and barges                                                                                              | 344131 8                                                                                               |                |         |
| 14       |                                                                                           | Boilers, condensers, and parts thereof                                                                                                        | 344331 4                                                                                               |                |         |
| 15       |                                                                                           | Bolts, nuts, screws, washers, rivets, and screw machine products                                                                              | 345001 2                                                                                               |                |         |
| 16       |                                                                                           | Other fabricated metal products, except fluid power products                                                                                  | 340074 4                                                                                               |                |         |

CONTINUE WITH ITEM 17 ON PAGE 6

| Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued |                                                                                                                                                                         |                                   |                                       |                                        |                                                                                                        |          |                |         |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------|----------|----------------|---------|
| Line No.                                                           | Materials, parts, and supplies<br><br><b>(A)</b>                                                                                                                        |                                   |                                       | Census material code<br><br><b>(B)</b> | Consumption of purchased materials and of materials received from other establishments of your company |          |                |         |
|                                                                    |                                                                                                                                                                         |                                   |                                       |                                        | Cost, including delivery cost (freight-in)<br><b>(E)</b>                                               |          |                |         |
|                                                                    |                                                                                                                                                                         |                                   |                                       | 571                                    | 574                                                                                                    | Millions | Thou-<br>sands | Dollars |
| 17                                                                 | Forgings                                                                                                                                                                |                                   |                                       | 346000 3                               | \$                                                                                                     |          |                |         |
| 18                                                                 | Castings (rough and semifinished)                                                                                                                                       |                                   |                                       | 330091 0                               |                                                                                                        |          |                |         |
| 19                                                                 | <b>Shapes and Forms (Except castings, forgings, and fabricated metal products)</b>                                                                                      | STEEL                             | Bars, bar shapes, and plates          | 331007 5                               |                                                                                                        |          |                |         |
| 20                                                                 |                                                                                                                                                                         |                                   | Sheet and strip                       | 331022 4                               |                                                                                                        |          |                |         |
| 21                                                                 |                                                                                                                                                                         |                                   | Structural shapes and sheet piling    | 331023 2                               |                                                                                                        |          |                |         |
| 22                                                                 |                                                                                                                                                                         |                                   | All other steel shapes and forms      | 331091 9                               |                                                                                                        |          |                |         |
| 23                                                                 |                                                                                                                                                                         | ALUMINUM AND ALUMINUM-BASE ALLOY  | Sheet, plate, foil, and welded tubing | 335301 8                               |                                                                                                        |          |                |         |
| 24                                                                 |                                                                                                                                                                         |                                   | Other                                 | 335013 9                               |                                                                                                        |          |                |         |
| 25                                                                 |                                                                                                                                                                         | Other nonferrous shapes and forms |                                       | 335091 5                               |                                                                                                        |          |                |         |
| 26                                                                 | Construction machinery and parts thereof; including shipwinches, cranes, derricks, and capstans                                                                         |                                   |                                       | 353101 9                               |                                                                                                        |          |                |         |
| 27                                                                 | Paints, varnishes, lacquers, stains, shellacs, japans, enamels, and allied products                                                                                     |                                   |                                       | 285101 2                               |                                                                                                        |          |                |         |
| 28                                                                 | Dressed lumber                                                                                                                                                          |                                   |                                       | 242103 0                               |                                                                                                        |          |                |         |
| 29                                                                 | Cost of all other materials and components, parts, containers, and supplies consumed. . . . .<br><i>Describe the principal materials, etc., included in this value.</i> |                                   |                                       | 970099 8                               |                                                                                                        |          |                |         |
|                                                                    |                                                                                                                                                                         |                                   |                                       |                                        |                                                                                                        |          |                |         |
|                                                                    |                                                                                                                                                                         |                                   |                                       |                                        |                                                                                                        |          |                |         |
|                                                                    |                                                                                                                                                                         |                                   |                                       |                                        |                                                                                                        |          |                |         |
|                                                                    |                                                                                                                                                                         |                                   |                                       |                                        |                                                                                                        |          |                |         |
|                                                                    |                                                                                                                                                                         |                                   |                                       |                                        |                                                                                                        |          |                |         |
|                                                                    |                                                                                                                                                                         |                                   |                                       |                                        |                                                                                                        |          |                |         |
| 30                                                                 | <b>TOTAL</b><br>Sum of lines 1–29 should equal item 10, line a                                                                                                          |                                   |                                       |                                        | \$                                                                                                     |          |                |         |

**Item 18A – Not applicable to this report**

**CONTINUE WITH ITEM 18B ON PAGE 7**

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

**INSTRUCTIONS**

**1. General** – The manufactured products and services listed below are generally made in your industry. If you make products that are not listed, describe and report them in the "All other products made in this establishment" section at the end of item 18B. PLEASE DO NOT COMBINE PRODUCT LINES.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

**2. Valuation of Products** – Report the value of the products shipped and services performed at the net selling value, f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.

If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.

**3. Contract Work** – Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOUR MATERIALS on the specific lines as if they were made in this establishment. On the other hand, do not report on the specific product lines PRODUCTS THAT YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount that you received for "commission or contract receipts" under Census product code 93000 00 8.

**4. Resales** – Do not report on the specific product lines those PRODUCTS BOUGHT AND SOLD OR TRANSFERRED FROM OTHER ESTABLISHMENTS OF YOUR COMPANY AND SOLD WITHOUT FURTHER MANUFACTURE. Report only a value under Census product code 99989 00 6, "Resales."

| Line No. | Products and services<br><b>(A)</b>                                                              |                                                                                                                                              | Census product code<br><b>(B)</b>                                                           | Products shipped and other receipts |                |         |  |  |
|----------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------|----------------|---------|--|--|
|          |                                                                                                  |                                                                                                                                              |                                                                                             | Value, f.o.b. plant <b>(E)</b>      |                |         |  |  |
|          |                                                                                                  |                                                                                                                                              |                                                                                             | 584<br>Millions                     | Thou-<br>sands | Dollars |  |  |
| 1        | Nonpropelled Ships, Barges, Etc. (New construction) (37311)                                      | MILITARY AND NONMILITARY Barges, all types                                                                                                   | 37311 11 5                                                                                  | \$                                  |                |         |  |  |
| 2        |                                                                                                  | Drilling/production platforms                                                                                                                | 37311 07 3                                                                                  |                                     |                |         |  |  |
| 3        |                                                                                                  | Other, including dredges and floating docks                                                                                                  | 37311 19 8                                                                                  |                                     |                |         |  |  |
| 4        | Self-Propelled Ships (New construction) (Report only value of work done during 1997 in column E) | Military (including combat ships, troop transport vessels, fleet auxiliaries, service craft, etc.) (including Hovercraft and military boats) | 37312 00 6                                                                                  |                                     |                |         |  |  |
| 5        |                                                                                                  | NONMILITARY                                                                                                                                  | Yachts 65 feet or more in length (requires a professional crew as specified by coast guard) | 37313 15 2                          |                |         |  |  |
| 6        |                                                                                                  |                                                                                                                                              | Support vessels for offshore drilling and mining                                            | 37313 33 5                          |                |         |  |  |
| 7        |                                                                                                  |                                                                                                                                              | Self-propelled mobile drilling/production platforms                                         | 37313 35 0                          |                |         |  |  |
| 8        |                                                                                                  |                                                                                                                                              | Commercial fishing vessels                                                                  | Trawlers                            | 37313 43 4     |         |  |  |
| 9        |                                                                                                  |                                                                                                                                              |                                                                                             | Other, including seiners            | 37313 48 3     |         |  |  |
| 10       |                                                                                                  |                                                                                                                                              | Tugboats and towboats, including integrated tug/barge combinations                          | 37313 57 4                          |                |         |  |  |
| 11       |                                                                                                  |                                                                                                                                              | Fire, patrol, and pilot vessels                                                             | 37313 32 7                          |                |         |  |  |
| 12       |                                                                                                  |                                                                                                                                              | Ferryboats                                                                                  | 37313 21 0                          |                |         |  |  |
| 13       |                                                                                                  |                                                                                                                                              | Other ships, including container and trailer ships; dry bulk carriers; and tankers          | 37313 61 6                          |                |         |  |  |
| 14       | INBOARD-OUTDRIVE BOATS                                                                           | Houseboats                                                                                                                                   | 37324 01 9                                                                                  |                                     |                |         |  |  |
| 15       |                                                                                                  | Runabouts                                                                                                                                    | 37324 03 5                                                                                  |                                     |                |         |  |  |
| 16       |                                                                                                  | Cabin cruisers                                                                                                                               | 37324 05 0                                                                                  |                                     |                |         |  |  |
| 17       |                                                                                                  | Fish boats                                                                                                                                   | 37324 06 8                                                                                  |                                     |                |         |  |  |
| 18       |                                                                                                  | Other, including center consoles                                                                                                             | 37324 08 4                                                                                  |                                     |                |         |  |  |
| 19       | REPAIR OF MILITARY SHIPS (Report only value of work done during 1997 in column E) (37314)        | Conversions and reconversions                                                                                                                | 37314 41 6                                                                                  |                                     |                |         |  |  |
| 20       |                                                                                                  | All other repairs                                                                                                                            | 37314 49 9                                                                                  |                                     |                |         |  |  |

CONTINUE WITH 18B ON PAGE 8

| Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                          |                                       |                                     |                       |         |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------|-----------------------|---------|
| Line No.                                                                      | Products and services<br><br><b>(A)</b>                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                          | Census product code<br><br><b>(B)</b> | Products shipped and other receipts |                       |         |
|                                                                               |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                          |                                       | Value, f.o.b. plant<br><b>(E)</b>   |                       |         |
|                                                                               |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                          |                                       | 584<br>Millions                     | 584<br>Thou-<br>sands | Dollars |
| 21                                                                            | REPAIR OF NONMILITARY SHIPS AND COMMERCIAL BOATS                                                                                                                                                                                                                                                                                     | Conversions and reconversions                                                                                                                                                                                            | 37316 01 5                            | \$                                  |                       |         |
| 22                                                                            | (Report only value of work done during 1997 in column E) (37316)                                                                                                                                                                                                                                                                     | All other repairs                                                                                                                                                                                                        | 37316 02 3                            |                                     |                       |         |
| 23                                                                            | Boat repair                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                          | 37328 00 2                            |                                     |                       |         |
| 24                                                                            | Fabricated structural iron and steel for ships, boats, and barges                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                          | 34413 16 1                            |                                     |                       |         |
| 25                                                                            | Other fabricated structural iron and steel (for sale to other companies) (excluding pressure vessels and storage tanks; fabricated reinforcing bars; bar joists; fabricated metal buildings; steel flooring and roof decks; or iron and steel for transmission towers, substations, radio antenna towers, and supporting structures) |                                                                                                                                                                                                                          | 34413 00 5                            |                                     |                       |         |
| 26                                                                            | Machine shop job work receipts                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                          | 35995 00 0                            |                                     |                       |         |
| 27                                                                            | 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. For all remaining products, write "Other" and report a single total value.</i> | 18                                    |                                     |                       |         |
| 28                                                                            |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                          | 26                                    |                                     |                       |         |
| 29                                                                            |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                          | 34                                    |                                     |                       |         |
| 30                                                                            |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                          | 42                                    |                                     |                       |         |
| 31                                                                            |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                          | 59                                    |                                     |                       |         |
| 32                                                                            |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                          | 67                                    |                                     |                       |         |
| 33                                                                            |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                          | 75                                    |                                     |                       |         |
| 34                                                                            |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                          | 83                                    |                                     |                       |         |
| 35                                                                            |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                          | 91                                    |                                     |                       |         |
| 36                                                                            | CONTRACT WORK                                                                                                                                                                                                                                                                                                                        | Receipts for work done for others on their own materials . . . . .<br><i>Describe below products worked on and kind of work.</i>                                                                                         | 93000 00 8                            |                                     |                       |         |
| 37                                                                            | MISCELLANEOUS RECEIPTS                                                                                                                                                                                                                                                                                                               | Sales of scrap and refuse                                                                                                                                                                                                | 99980 13 8                            |                                     |                       |         |
| 38                                                                            |                                                                                                                                                                                                                                                                                                                                      | Other miscellaneous receipts (including receipts for repair work, etc.)                                                                                                                                                  | 99980 98 9                            |                                     |                       |         |
| 39                                                                            | 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                            |                                     |                       |         |
| 40                                                                            | <b>TOTAL value of shipments and other receipts</b><br>Sum of lines 1–39, 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<br><br>(A)                                                                   | Census code<br><br>(B) | Was this operation performed at this establishment during 1997?<br><br>(C) |                            | Unit of measure for quantities<br><br>(D) | Quantities produced in this establishment and used in manufacturing other products made in this establishment<br><br>(E) |
|----------|-----------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------|----------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|          |                                                                                   |                        | 592                                                                        |                            |                                           |                                                                                                                          |
|          |                                                                                   |                        | 591                                                                        | 593                        |                                           |                                                                                                                          |
| 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"/> |                                           |                                                                                                                          |

**Items 20 and 21 – Not applicable to this report**

**REMARKS – Please use this space for any explanations that may be essential in understanding your reported data.**

**Item 22. CERTIFICATION – This report is substantially accurate and has been prepared in accordance with instructions.**

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