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UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 U.S. GEOLOGICAL SURVEY  
 986 NATIONAL CENTER  
 RESTON, VIRGINIA 20192

INDIVIDUAL COMPANY  
 DATA - PROPRIETARY

Unless authorization is granted in the section above the signature, the data furnished in this report will be treated in confidence by the Department of the Interior, except that they may be disclosed to Federal defense agencies, or to the Congress upon official request for appropriate purposes.

**NIوبيUM (COLUMBIUM) AND TANTALUM**

┌  
 (Please correct if name or address has changed.)

**FACSIMILE NUMBER**  
**1-800-543-0661**

Public reporting burden for this voluntary collection of information is estimated to average 1 HOUR per response. A Federal agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. Comments regarding this collection of information should be directed to: U.S. Geological Survey, Statistics and Information Systems Section, 988 National Center, Reston, VA 20192. **Please do not mail canvass forms to this address.**

Collection of nonfuel minerals information is authorized by Public Law 96-479 and the Defense Production Act. This information is used to support executive policy decisions pertaining to emergency preparedness, national defense, and analyses for minerals legislation and industrial trends. The USGS relies on your voluntary and timely response to assure that its information is complete and accurate.

Please complete and return this form in the enclosed envelope or fax to the above toll-free number as soon as possible. Complete a separate form for each mineral establishment that was active during the reporting period. A mineral establishment is defined as a single physical location where mineral operations are conducted; for example, a mine only, a mine and preparation plant, or a preparation plant only. If you do not have exact data, please enter your best estimates and mark with an /e. Use zero (0) when appropriate. Do not report decimals or fractions. Round to the nearest whole number. If you have nothing to report, please sign, and return the form. Please use the space for "Remarks" to provide any specific information that will help us in the use or interpretation of the data. Any statement on the effect of changes in economic conditions upon the reporting establishment will be useful. Additional forms are available upon request.

If you have any questions concerning completion of this form, please contact the Mineral Commodities Data Unit, U.S. Geological Survey, 985 National Center, Reston, VA 20192, Telephone (703) 648-7960.

**LOCATION OF PLANT:** City or town \_\_\_\_\_ County \_\_\_\_\_ State \_\_\_\_\_

**1. Ore, slag, and concentrates.**

| Materials<br>(1)                            | Code | Inventory<br>adjustment<br>(pounds)<br>(2) | January 1<br>stocks<br>(pounds)<br>(3) | Receipts<br>during year<br>(pounds)<br>(4) | Consumption<br>during year<br>(pounds)<br>(5) | Reshipments<br>during year<br>(pounds)<br>(6) | December 31<br>stocks<br>(pounds)<br>(7) |
|---|------|--|--|--|---|---|--|
| Columbite.....                              | 101  |  |  |  |   |   |  |
| Cb <sub>2</sub> O <sub>5</sub> content..... | 102  |  |  |  |   |   |  |
| Ta <sub>2</sub> O <sub>5</sub> content..... | 103  |  |  |  |   |   |  |
| Tantalite.....                              | 104  |  |  |  |   |   |  |
| Cb <sub>2</sub> O <sub>5</sub> content..... | 105  |  |  |  |   |   |  |
| Ta <sub>2</sub> O <sub>5</sub> content..... | 106  |  |  |  |   |   |  |
| Tin Slag.....                               | 107  |  |  |  |   |   |  |
| Cb <sub>2</sub> O <sub>5</sub> content..... | 108  |  |  |  |   |   |  |
| Ta <sub>2</sub> O <sub>5</sub> content..... | 109  |  |  |  |   |   |  |
| Pyrochlore concentrate.....                 | 110  |  |  |  |   |   |  |
| Cb <sub>2</sub> O <sub>5</sub> content..... | 111  |  |  |  |   |   |  |
| Ta <sub>2</sub> O <sub>5</sub> content..... | 112  |  |  |  |   |   |  |
| Other (please specify) _____                | 113  |  |  |  |   |   |  |
| Cb <sub>2</sub> O <sub>5</sub> content..... | 114  |  |  |  |   |   |  |
| Ta <sub>2</sub> O <sub>5</sub> content..... | 115  |  |  |  |   |   |  |

OVER

**2. Ore, slag, and concentrate receipts during year by source.** (Use continuation sheet, if necessary.)

| Country or state or origin (1) | Code | Type of ore, slag, or concentrate (please specify) (2) | Quantity (pounds) (3) | Cb <sub>2</sub> O <sub>5</sub> content (pounds) (4) | Ta <sub>2</sub> O <sub>5</sub> content (pounds) (5) |
|--------------------------------|------|--|-----------------------|---|---|
|                                |      |  |                       |   |   |
|                                |      |  |                       |   |   |
|                                |      |  |                       |   |   |
|                                |      |  |                       |   |   |
|                                |      |  |                       |   |   |
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|                                |      |  |                       |   |   |
|                                |      |  |                       |   |   |
|                                |      |  |                       |   |   |

**3. Columbium-tantalum metal. (Include alloys if Cb + Ta content is 50% or more; do not include ferroalloys.)**

| Type of metal (1)                                 | Code | Inventory adjustment (pounds) (2) | January 1 stocks (pounds) (3) | Receipts during year (pounds) (4) | Production during year (pounds) (5) | Consumption during year (pounds) (6) | Shipments during year (pounds) (7) | December 31 stocks (pounds) (8) |
|---|------|-----------------------------------|-------------------------------|-----------------------------------|-------------------------------------|--------------------------------------|------------------------------------|---------------------------------|
| <b>Columbium:</b>                                 |      |                                   |                               |                                   |                                     |                                      |                                    |                                 |
| Sponge, powder, or other primary form....         | 801  |                                   |                               |                                   |                                     |                                      |                                    |                                 |
| Ingot or billet.....                              | 802  |                                   |                               |                                   |                                     |                                      |                                    |                                 |
| <b>Scrap:</b>                                     |      |                                   |                               |                                   |                                     |                                      |                                    |                                 |
| Runaround (home).....                             | 803  |                                   |                               |                                   |                                     |                                      |                                    |                                 |
| Purchased: Prompt industrial (new)....            | 804  |                                   |                               |                                   |                                     |                                      |                                    |                                 |
| Obsolete (old).....                               | 805  |                                   |                               |                                   |                                     |                                      |                                    |                                 |
| Other _____                                       |      |                                   |                               |                                   |                                     |                                      |                                    |                                 |
| <b>Tantalum:</b>                                  |      |                                   |                               |                                   |                                     |                                      |                                    |                                 |
| Powder, capacitor-grade.....                      | 850  |                                   |                               |                                   |                                     |                                      |                                    |                                 |
| Crude, powder, sponge, or other primary form..... | 851  |                                   |                               |                                   |                                     |                                      |                                    |                                 |
| Ingot or billet.....                              | 852  |                                   |                               |                                   |                                     |                                      |                                    |                                 |
| <b>Scrap:</b>                                     |      |                                   |                               |                                   |                                     |                                      |                                    |                                 |
| Runaround (home).....                             | 853  |                                   |                               |                                   |                                     |                                      |                                    |                                 |
| Purchased: Prompt industrial (new)....            | 854  |                                   |                               |                                   |                                     |                                      |                                    |                                 |
| Obsolete (old).....                               | 855  |                                   |                               |                                   |                                     |                                      |                                    |                                 |
| Other (please specify) _____                      |      |                                   |                               |                                   |                                     |                                      |                                    |                                 |

**DEFINITIONS:** Runaround or home scrap is generated within a processing or fabrication plant. It does not reach the open market but is usually recycled within the plant in which it originates. Purchased scrap usually consists of (1) prompt industrial scrap which results from the fabrication of new columbium or tantalum and is sold to another firm for processing; (2) obsolete or old scrap such as that reclaimed from discarded chemical or electrical material and sold to another firm for further processing or fabricating. "Other" refers to any scrap not covered by the above definitions.

**4. Columbium-tantalum compounds; Compound weight in pounds (if other weight, explain in ITEM 5, Remarks).**

|                              |     |  |  |  |  |  |  |  |
|------------------------------|-----|--|--|--|--|--|--|--|
| Cb oxide.....                | 901 |  |  |  |  |  |  |  |
| Ta oxide.....                | 902 |  |  |  |  |  |  |  |
| Cb carbide.....              | 903 |  |  |  |  |  |  |  |
| Ta carbide.....              | 904 |  |  |  |  |  |  |  |
| Cb chloride.....             | 905 |  |  |  |  |  |  |  |
| Ta chloride.....             | 906 |  |  |  |  |  |  |  |
| Other (please specify) _____ |     |  |  |  |  |  |  |  |

**5. Remarks:** (Use continuation sheet, if necessary.)

|  |  |  |                |  |     |  |      |  |
|--|--|--|----------------|--|-----|--|------|--|
| Name of person to be contacted regarding this report |  |  | Tel. area code |  | No. |  | Ext. |  |
|--|--|--|----------------|--|-----|--|------|--|

|         |  |     |  |        |  |      |  |       |  |          |  |
|---------|--|-----|--|--------|--|------|--|-------|--|----------|--|
| Address |  | No. |  | Street |  | City |  | State |  | ZIP Code |  |
|---------|--|-----|--|--------|--|------|--|-------|--|----------|--|

May tabulations be published which could indirectly reveal the data reported above?  (1) Yes  (2) No

|           |  |  |       |  |  |      |  |  |
|-----------|--|--|-------|--|--|------|--|--|
| Signature |  |  | Title |  |  | Date |  |  |
|-----------|--|--|-------|--|--|------|--|--|