

Conflict Minerals from the Democratic Republic of the Congo: Global Tungsten Processing Plants, a Critical Part of the Tungsten Supply Chain

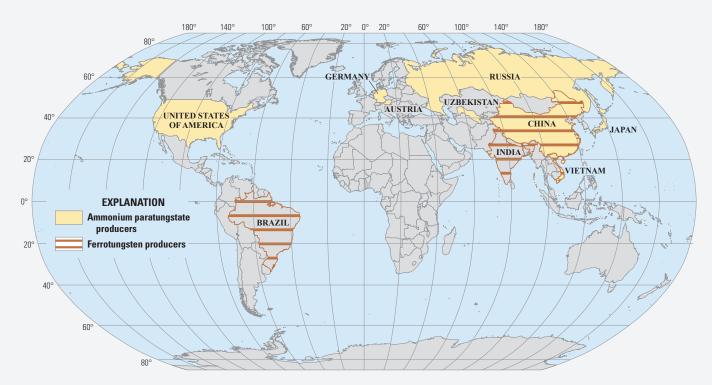
The U.S. Geological Survey (USGS) analyzes supply chains to identify and define major components of mineral and material flows from ore extraction, through intermediate forms, to a final product. Two major reasons necessitate these analyses: (1) to identify risks associated with the supply of critical and strategic minerals to the United States and (2) to provide greater supply chain transparency so that policymakers have the information necessary to ensure domestic legislation compliance. This fact sheet focuses on the latter. The USGS National Minerals Information Center has been asked by governmental and non-governmental organizations to provide information on tin, tantalum, tungsten, and gold (collectively known as "3TG minerals") processing facilities worldwide in response to U.S. legislation aimed at removing the link between the trade in these minerals and civil unrest in the Democratic Republic of the Congo.

Post beneficiation processing plants (smelters and refineries) of 3TG mineral ores and concentrates were identified by company and industry association representatives as being the link in the 3TG mineral supply chain through which these minerals can be traced to their source of origin (mine); determining the point of origin is critical to establishing a transparent conflict mineral supply chain (U.S. Government Accountability Office, 2012, p. 19). This fact sheet, the first in a series of 3TG mineral fact

sheets, focuses on the tungsten supply chain by listing plants that consume tungsten concentrates to produce ammonium paratung-state and ferrotungsten worldwide.

Background

The mining and beneficiation of tin (in cassiterite), niobium and tantalum (in columbite-tantalite or "coltan"), tungsten (in wolframite), and gold have been linked to civil unrest and human rights violations in the eastern provinces of the Democratic Republic of the Congo since the late 1990s. During the early 2000s, reports published by the United Nations Group of Experts on the Democratic Republic of the Congo (UN GoE) and other non-governmental organizations identified foreign and domestic armed groups that sought to profit from the production and trade of 3TG minerals. These groups took control of many artisanal mining operations in the eastern Provinces of Katanga, Maniema, North Kivu, Orientale, and South Kivu of the Democratic Republic of the Congo. The revenues collected by these armed groups through the production and sale of 3TG minerals from mining areas under their control reportedly continues to perpetuate civil unrest in the Democratic Republic of the Congo (United Nations Security Council, 2014, p. 3, 42–51).



Global consumers of tungsten concentrates for the production of ammonium paratungstate and ferrotungsten in 2013-14.

 Table 1.
 Tungsten processing plants that consume concentrates.

[APT, Ammonium paratungstate; %, percent]

Austria APT Bergla, St. Martin im Sulmtal, Styria Wolfram Bergbau und Hütten AG (Sandt China APT Luanchuan County, Henan Province China Molybdenum Co., Ltd. China APT Chongyi County, Ganzhou, Jiangxi Province Chongyi Zhangyuan Tungsten Co., Ltd. China APT Dayu smelting plant, Dayu County, Jiangxi Province Dongtai Huihuang Tungsten Co., Ltd. China APT Dongtai, Jiangsu Province Dongtai Huihuang Tungsten & Molybder China APT Longyan, Fujian Province Fujian Jinxin Tungsten Co., Ltd. China APT Fujian Province Fujian Ninghua Jinjiang Tungsten & Molybder China APT Jiangxi Province Ganxian Shirui New Material Co., Ltd. China APT Jiangxi Province Ganzhou Haichuang Tungsten Industry Compared Telegram Tungsten Molybdenum Co., Teling Tungsten & Molybdenum Co., Teling Tungsten Molybdenum Co., Teling Tungsten Products Compared Telegram T	
China APT Chongyi County, Ganzhou, Jiangxi Province Chongyi Zhangyuan Tungsten Co., Ltd. China APT Dayu smelting plant, Dayu County, Jiangxi Province Dayu Weiliang Tungsten Co., Ltd. China APT Dongtai, Jiangsu Province Dongtai Huihuang Tungsten & Molybden China APT Longyan, Fujian Province Fujian Jinxin Tungsten Co., Ltd. China APT Fujian Province Fujian Ninghua Jinjiang Tungsten Co., Ltd. China APT Jiangxi Province Ganzhou Haichuang Tungsten Co., Ltd. China APT Xincheng Ganzhou Haichuang Tungsten Industry Croup. China APT Ganzhou, Jiangxi Province Ganzhou Huaxing Tungsten Industry Group Co., Ltd. (IV ture between China Minmetals and Jia and Rare Metals Tungsten Products Co. China APT Zhanggong District, Ganzhou, Jiangxi Province Ganzhou Non-ferrous Metals Smelting Co. China APT Ganzhou, Jiangxi Province Ganzhou Non-ferrous Metals Smelting Co. China APT Ganzhou, Jiangxi Province Ganzhou Seadragon W & Mo Co., Ltd. (IV ture between China Metals Tungsten Products Plant, Hunan Changbang Lu Tungsten Specialtie Ltd. (H.C. Starck Jiangwu Tungsten Specialtie Ltd. (H.C. Starck Jiangwu Tungsten	vik AB, 100%)
China APT Dayu smelting plant, Dayu County, Jiangxi Province Dayu Weiliang Tungsten Co., Ltd. China APT Dongtai, Jiangsu Province Dongtai Huihuang Tungsten & Molybden & Molybd	
China APT Dongtai, Jiangsu Province Dongtai Huihuang Tungsten & Molybden China APT Longyan, Fujian Province Fujian Jinxin Tungsten Co., Ltd. China APT Fujian Province Fujian Jinxin Tungsten Co., Ltd. China APT Jiangsi Province Fujian Ninghua Jinjiang Tungsten Co., Ltd. China APT Jiangsi Province Ganxian Shirui New Material Co., Ltd. China APT Xincheng Ganzhou Haichuang Tungsten Industry Co., Edina APT Ganzhou, Jiangsi Province Ganzhou Huaxing Tungsten Industry Co., Ltd. China APT Ganzhou, Jiangsi Province Ganzhou Huaxing Tungsten Products Co. China APT Zhanggong District, Ganzhou, Jiangsi Province Ganzhou Non-ferrous Metals Smelting Co. China APT Ganzhou, Jiangsi Province Ganzhou Seadragon W & Mo Co., Ltd. (Volume Sea W & Mo Group Co., Ltd.) China APT Gan County, Ganzhou, Jiangsi Province Ganzhou Yuanchi New Material Co., Ltd. China APT Guantang Industrial Zone, Chao'an County, Ganzhou Yuanchi New Material Co., Ltd. China APT Guantang Industrial Zone, Chao'an County, Xianglu Tungsten Industry Co., Ltd. China APT Ganzhou, Jiangsi Province H.C. Starck Jiangwu Tungsten Specialtie Ltd. [H.C. Starck Jiangwu Tungsten Specialtie Ltd. [H.C. Starck Jiangwu Tungsten Specialtie Ltd. [H.C. Starck Gings Group Co., Ltd. (Jiangsten Holdings Group Co., Ltd.) China APT Chenzhou Mining Tungsten Products Plant, Hunan Chenzhou Mining Group Co., Ltd. China APT Xintang Town, Hengdong County, Hengyang, Hunan Chun-chang Non-ferrous Smeltin	
China APT Longyan, Fujian Province Fujian Jinxin Tungsten Co., Ltd. China APT Fujian Province Fujian Ninghua Jinjiang Tungsten Co., Ltd. China APT Jiangxi Province Ganxian Shirui New Material Co., Ltd. China APT Xincheng Ganzhou Haichuang Tungsten Industry Co., Ltd. China APT Ganzhou, Jiangxi Province Ganzhou Huaxing Tungsten Products Co. Tungsten Industry Group Co., Ltd. (JV. ture between China Minmetals and Jia and Rare Metals Tungsten Group Corp. China APT Zhanggong District, Ganzhou, Jiangxi Province Ganzhou Non-ferrous Metals Smelting Co. China APT Ganzhou, Jiangxi Province Ganzhou Seadragon W & Mo Co., Ltd. (Go., Ltd.) China APT Gan County, Ganzhou, Jiangxi Province Ganzhou Yuanchi New Material Co., Ltd. (Go., Ltd.) China APT Guantang Industrial Zone, Chao'an County, Ganzhou Yuanchi New Material Co., Ltd.) China APT Ganzhou, Jiangxi Province Ganzhou Yuanchi New Material Co., Ltd.) China APT Ganzhou, Jiangxi Province H.C. Starck Jiangwu Tungsten Co., Ltd.) China APT Ganzhou, Jiangxi Province H.C. Starck Jiangwu Tungsten Specialtie Ltd. [H.C. Starck GmbH and Jiangxi Fujiang Holdings Group Co., L	
China APT Fujian Province Fujian Ninghua Jinjiang Tungsten Co., Ltd. China APT Jiangxi Province Ganxian Shirui New Material Co., Ltd. China APT Xincheng Ganzhou Haichuang Tungsten Industry Co., Tejing Tungsten & Molybdenum Co., Tejing Tungsten & Molybdenum Co., Tejing Tungsten Rougten Co., Ltd. (Wature between China Minmetals and Jia and Rare Metals Tungsten Group Corp. Ltd. (Wature between China Minmetals and Jia and Rare Metals Tungsten Group Corp. China China APT Ganzhou, Jiangxi Province Ganzhou Non-ferrous Metals Smelting Co., Ltd. (Wature between China Minmetals and Jia and Rare Metals Tungsten Group Corp. Ltd.) China APT Ganzhou, Jiangxi Province Ganzhou Non-ferrous Metals Smelting Co., Ltd. (Wature between China Minmetals and Jia and Rare Metals Tungsten Group Corp. Ltd.) China APT Ganzhou, Jiangxi Province Ganzhou Non-ferrous Metals Smelting Co., Ltd. (Wature between China Minmetals and Jiangxi Province China APT Ganzhou, Jiangxi Province Ganzhou Yuanchi New Material Co., Ltd. (Wature between China Minmetals and Jiangxi Province China APT Ganzhou, Jiangxi Province Ganzhou Yuanchi New Material Co., Ltd. (Wature between China Minmetals and Jiangxi Province China APT Ganzhou, Jiangxi Province H.C. Starck Jiangwu Tungsten Specialtie Ltd. (H.C. Starck GmbH and Jiangxi Province Ch	num Co., Ltd.
China APT Jiangxi Province Ganxian Shirui New Material Co., Ltd. China APT Xincheng Ganzhou Haichuang Tungsten Industry Crejing Tungsten & Molybdenum Co., China APT Ganzhou, Jiangxi Province Ganzhou Huaxing Tungsten Products Co Tungsten Industry Group Co., Ltd. (IV ture between China Minmetals and Jia and Rare Metals Tungsten Group Corp. China APT Zhanggong District, Ganzhou, Jiangxi Province Ganzhou Non-ferrous Metals Smelting Company Corp. China APT Ganzhou, Jiangxi Province Ganzhou Seadragon W & Mo Co., Ltd. (IV Sea W & Mo Group Co., Ltd.) China APT Ganzhou, Jiangxi Province Ganzhou Yuanchi New Material Co., Ltd. China APT Guantang Industrial Zone, Chao'an County, GuangDong XiangLu Tungsten Co., Ltd. China APT Ganzhou, Jiangxi Province GuangDong XiangLu Tungsten Co., Ltd. China APT Ganzhou, Jiangxi Province H.C. Starck Jiangwu Tungsten Specialtie Ltd. [H.C. Starck GmbH and Jiangxi Fungsten Holdings Group Co., Ltd. (J. China) China APT Chenzhou Mining Tungsten Products Plant, Hunan Chenzhou Mining Group Co., Ltd. (Hunan Province) China APT Xintang Town, Hengdong County, Hengyang, Hunan Chun-chang Non-ferrous Smeltin	
China APT Xincheng Ganzhou Haichuang Tungsten Industry Co., China APT Ganzhou, Jiangxi Province Ganzhou Huaxing Tungsten Products Co Tungsten Industry Group Co., Ltd. (J. Kina) China APT Zhanggong District, Ganzhou, Jiangxi Province Ganzhou Non-ferrous Metals Smelting Co. China APT Ganzhou, Jiangxi Province Ganzhou Non-ferrous Metals Smelting Co. China APT Ganzhou, Jiangxi Province Ganzhou Seadragon W & Mo Co., Ltd. (G. Sea W & Mo Group Co., Ltd.) China APT Gan County, Ganzhou, Jiangxi Province Ganzhou Yuanchi New Material Co., Ltd. China APT Guantang Industrial Zone, Chao'an County, Chaozhou, Guangdong Province Ganzhou Yuanchi New Material Co., Ltd. China APT Ganzhou, Jiangxi Province H.C. Starck Jiangwu Tungsten Co., Ltd. China APT Ganzhou, Jiangxi Province H.C. Starck Jiangwu Tungsten Specialtie Ltd. [H.C. Starck GmbH and Jiangxi F. Tungsten Holdings Group Co., Ltd. (J. China APT Chenzhou Mining Tungsten Products Plant, Hunan Chenzhou Mining Group Co., Ltd. China APT Xintang Town, Hengdong County, Hengyang, Hunan Chun-chang Non-ferrous Smeltin,	td.
Tejing Tungsten & Molybdenum Co., China APT Ganzhou, Jiangxi Province Ganzhou Huaxing Tungsten Products Co Tungsten Industry Group Co., Ltd. (IV ture between China Minmetals and Jia and Rare Metals Tungsten Group Corp China APT Zhanggong District, Ganzhou, Jiangxi Province Ganzhou Non-ferrous Metals Smelting Co China APT Ganzhou, Jiangxi Province Ganzhou Seadragon W & Mo Co., Ltd. (IV Sea W & Mo Group Co., Ltd.) China APT Gan County, Ganzhou, Jiangxi Province Ganzhou Yuanchi New Material Co., Ltd. China APT Guantang Industrial Zone, Chao'an County, Chaozhou, Guangdong Province Ganzhou Yuanchi New Material Co., Ltd. China APT Ganzhou, Jiangxi Province Ganzhou Yuanchi New Material Co., Ltd. Xianglu Tungsten Industry Co., Ltd.) China APT Ganzhou, Jiangxi Province H.C. Starck Jiangwu Tungsten Specialtie Ltd. [H.C. Starck GmbH and Jiangxi F Tungsten Holdings Group Co., Ltd. (J. China APT Chenzhou Mining Tungsten Products Plant, Hunan Chenzhou Mining Group Co., Ltd. Hunan Province China APT Xintang Town, Hengdong County, Hengyang, Hunan Chun-chang Non-ferrous Smeltin	
Tungsten Industry Group Co., Ltd. (JV ture between China Minmetals and Jia and Rare Metals Tungsten Group Corp. China APT Zhanggong District, Ganzhou, Jiangxi Province Ganzhou Non-ferrous Metals Smelting Co. China APT Ganzhou, Jiangxi Province Ganzhou Seadragon W & Mo Co., Ltd. (Ganzhou Seadragon W & Mo Co., Ltd.) China APT Gan County, Ganzhou, Jiangxi Province Ganzhou Yuanchi New Material Co., Ltd. (Ganzhou Seadragon W & Mo Co., Ltd.) China APT Guantang Industrial Zone, Chao'an County, GuangDong XiangLu Tungsten Co., Ltd. (China APT Ganzhou, Guangdong Province H.C. Starck Jiangwu Tungsten Specialtie Ltd. [H.C. Starck GmbH and Jiangxi Found Fou	
China APT Ganzhou, Jiangxi Province Ganzhou Seadragon W & Mo Co., Ltd. (Ganzhou Seadragon W & Mo Co., Ltd.) China APT Gan County, Ganzhou, Jiangxi Province Ganzhou Yuanchi New Material Co., Ltd. China APT Guantang Industrial Zone, Chao'an County, GuangDong XiangLu Tungsten Co., Ltd. China APT Ganzhou, Guangdong Province Xianglu Tungsten Industry Co., Ltd.) China APT Ganzhou, Jiangxi Province H.C. Starck Jiangwu Tungsten Specialtie Ltd. [H.C. Starck GmbH and Jiangxi Found Tungsten Holdings Group Co., Ltd. (J. China APT Chenzhou Mining Tungsten Products Plant, Hunan Chenzhou Mining Group Co., Ltd. China APT Xintang Town, Hengdong County, Hengyang, Hunan Chun-chang Non-ferrous Smelting	WYX) [joint ven- ingxi Rare Earth
Sea W & Mo Group Co., Ltd.) China APT Gan County, Ganzhou, Jiangxi Province Ganzhou Yuanchi New Material Co., Ltd. China APT Guantang Industrial Zone, Chao'an County, Chaozhou, Guangdong Province GuangDong XiangLu Tungsten Co., Ltd. Xianglu Tungsten Industry Co., Ltd.) China APT Ganzhou, Jiangxi Province H.C. Starck Jiangwu Tungsten Specialtie Ltd. [H.C. Starck GmbH and Jiangxi F Tungsten Holdings Group Co., Ltd. (D. China APT Chenzhou Mining Tungsten Products Plant, Hunan Chenzhou Mining Group Co., Ltd. China APT Xintang Town, Hengdong County, Hengyang, Hunan Chun-chang Non-ferrous Smelting	Co., Ltd.
China APT Guantang Industrial Zone, Chao'an County, Chaozhou, Guangdong Province Starck Jiangwu Tungsten Industry Co., Ltd.) China APT Ganzhou, Jiangxi Province H.C. Starck Jiangwu Tungsten Specialtie Ltd. [H.C. Starck GmbH and Jiangxi F Tungsten Holdings Group Co., Ltd.) China APT Chenzhou Mining Tungsten Products Plant, Hunan Chenzhou Mining Group Co., Ltd. China APT Xintang Town, Hengdong County, Hengyang, Hunan Chun-chang Non-ferrous Smelting	Ganzhou Grand
China APT Ganzhou, Jiangxi Province H.C. Starck Jiangwu Tungsten Specialtie Ltd. [H.C. Starck GmbH and Jiangxi F Tungsten Holdings Group Co., Ltd. (J. China APT Chenzhou Mining Tungsten Products Plant, Hunan Chenzhou Mining Group Co., Ltd. Hunan Province China APT Xintang Town, Hengdong County, Hengyang, Hunan Chun-chang Non-ferrous Smelting	l.
Ltd. [H.C. Starck GmbH and Jiangxi F Tungsten Holdings Group Co., Ltd. (J. China APT Chenzhou Mining Tungsten Products Plant, Hunan Chenzhou Mining Group Co., Ltd. Hunan Province China APT Xintang Town, Hengdong County, Hengyang, Hunan Chun-chang Non-ferrous Smelting	. (Chaozhou
Hunan Province China APT Xintang Town, Hengdong County, Hengyang, Hunan Chun-chang Non-ferrous Smelting	Rare Metals
	1.
Transmit To The Conventioning Co., Etc.	g &
China APT Huanglong Industrial District, Huanglong Town, Jiangxi Dayu Longxintai Tungsten Co., I Dayu County, Ganzhou, Jiangxi Province	Ltd.
China APT Changlong Town, Chongyi County, Ganzhou, Jiangxi Yaosheng Tungsten Co., Ltd. Jiangxi Province	
China APT Langfang Tungsten & Molybdenum Langfang (Torch) Huaying Tungsten & Material Plant, Langfang, Molybdenum Industry Co., Ltd. Hebei Province	
China APT Qiancun, Heyu Town, Luanchuan County, Luoyang Mudu Tungsten & Molybdenum Luoyang, Henan Province Technology Co., Ltd.	n
China APT Xiagou Industry Region, Xigong District, Luoyang Yongzhuo Tungsten & Molybdo Luoyang, Henan Province Material Co., Ltd.	enum
China APT Nanchang, Jiangxi Province Nanchang Cemented Carbide Limited Li	ability Company
China APT Wendeng District, Weihai, Shandong Wendeng Zhengxing Tungsten Industry C Province	Co., Ltd.
China APT Fujian Xiamen Tungsten Products Plant, Xiamen Tungsten Co., Ltd. (CXTC) Haicang District, Xiamen, Fujian Province	
China APT Guihua Village, Renhua County, Shaoguan, Xinhai Rendan Shaoguan Tungsten Co., Guangdong Province	Ltd.
China APT Hetang District, Zhuzhou, Hunan Province Zhuzhou Cemented Carbide Group Co., I [Hunan Nonferrous Metals Holding Group Co.]	
China APT Zigong, Sichuan Province Zigong Cemented Carbide Co., Ltd. [Hur Metals Holding Group (HNG)]	nan Nonferrous

 Table 1. Tungsten processing plants that consume concentrates.—Continued

[APT, Ammonium paratungstate; %, percent]

Country	Plant type	Location	Operator/owner
China	Ferrotungsten	Sheshan Village, Nanyang Industrial Zone, Shanghang County, Longyan, Fujian Province	Fujian Ganmin Rare Metal Co., Ltd. [Jiangxi Rare Earth & Rare Metals Tungsten Group Corp. (JXTC)]
China	Ferrotungsten	Meilin Town, Gan County, Ganzhou, Jiangxi Province	Ganzhou BESEEM Ferrotungsten Co., Ltd.
China	Ferrotungsten	Ganzhou, Jiangxi Province	Ganzhou Jiangwu Ferrotungsten Co., Ltd. [Jiangxi Tungsten Industry Group Co., Ltd. (JWYX) [joint venture between China Minmetals and Jiangxi Rare Earth and Rare Metals Tungsten Group Corp. (JXTC)]]
China	Ferrotungsten	Wu Town, Hengdong County, Hengyang, Hunan Province	Hunan Chuangda Metallurgy Group Co., Ltd.
China	Ferrotungsten	Ganzhou, Jiangxi Province	Jiangxi Richsea New Material Co., Ltd. (Ganzhou Grand Sea W & Mo Group Co., Ltd.)
China	Ferrotungsten	Xinxiangxilu, Xiangxiang, Xiangtan, Hunan Province	Minmetals (Hunan) Ferroalloys Co., Ltd.
China	Ferrotungsten	Jiuli Township, Emeishan City, Leshan, Sichuan Province	Chuantou Emei Ferroalloy [Sichuan Chuantou Emei Ferroalloy (Group) Co., Ltd.]
China	Ferrotungsten	Jilin, Jilin Province	Sinosteel Jilin Ferroalloy Corporation, Ltd.
Germany	APT	Im Schleeke, Goslar, Lower Saxony	H.C. Starck GmbH
India	Ferrotungsten	Churchgate, Mumbai, Maharashtra State	Bharat Pulverising Mills Ltd.
India	Ferrotungsten	SDKC Unit, Verka, Amritsar, Punjab	Mehra Ferro-Alloys Pvt. Ltd.
India	Ferrotungsten	Thane-Belapur, Mumbai, Maharashtra State	Sunbel Alloys Co. of India Ltd.
India	Ferrotungsten	Rairangpur, Mayurbhanj District, Odisha State	Superb-Metal Alloys (Pvt.) Ltd.
Japan	APT	Akita, Akita Prefecture	Japan New Metals Co., Ltd.
Russia	APT	Nalchik, Kabardino-Balkariya Republic	JSC Hydrometallurg (Wolfram Company CJSC)
Russia	APT	Kirovgrad Hard Alloys Plant, Kirovgrad, Sverdlovskaya Oblast	JSC KZTS
Russia	APT	Vladikavkaz, North Ossetia Republic	JSC Pobedit (Wolfram Company CJSC)
United States	APT	Towanda, Pennsylvania	Global Tungsten & Powders Corp.
United States	APT	Huntsville, Alabama	Kennametal, Inc. (previously ATI Alldyne)
United States	APT	Depew, New York	Niagara Refining LLC (Buffalo Tungsten Inc. and Sumitomo Electric Industries, Ltd.)
United States	Tungsten carbide producer that consumes concentrate	Fallon, Nevada	Kennametal, Inc.
Uzbekistan	APT	Chirchiq, Tashkent Province	Uzbek Refractory and Heat-Resistant Metals (OJSC "UzKTJM")
Vietnam	APT	Dai Tu District, Thai Nguyen Province	Nui Phao Mining Company Ltd. and H.C. Starck GmbH
Vietnam	APT	Nhon Trach District, Dong Nai Province	Sanher Tungsten Vietnam Co., Ltd.
Vietnam	APT	Trang Bang District, TayNinh Province	Tejing (Vietnam) Tungsten Co., Ltd.
Vietnam	APT	Cailan Industrial Zone, Halong City, Quang Ninh Province	Vietnam Youngsun Tungsten Industry Co., Ltd.
Vietnam	Ferrotungsten	Tan Tien Industrial Zone, Vinh Bao District, Hai Phong	ATC Ferrotungsten [Asia Tungsten Products Vietnam Ltd. (ATC)]
Vietnam	Ferrotungsten	Cailan Industrial Zone, Halong City, Quang Ninh Province	Vietnam Youngsun Tungsten Industry Co., Ltd.

The international community, through a multistakeholder process, which included the International Conference on the Great Lakes Region (ICGLR), the Organisation for Economic Co-operation and Development (OECD), and the UN GoE, has responded by developing voluntary due diligence guidance for minerals from conflict-affected and high-risk areas. This guidance helps companies avoid inadvertently contributing to conflict and human rights abuses in the Democratic Republic of the Congo and the Great Lakes Region of Africa (Organisation for Economic Co-operation and Development, 2013, p. 3). The United States responded to the situation in the Democratic Republic of the Congo by enacting Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act (Dodd-Frank Act) (Pub. L. 111-203, 124 Stat. 1376-2223) on July 21, 2010, which requires companies that file annual reports with the Securities and Exchange Commission (SEC) to publicly disclose due diligence measures to determine if 3TG minerals were sourced from the Democratic Republic of the Congo or an adjoining country (defined as a country that shares an internationally recognized border with the Democratic Republic of Congo), and whether these minerals benefitted armed groups or abusive armed forces within the Africa Great Lakes Region. If the minerals are "necessary to the functionality or production of a product" manufactured by those firms, then businesses must undertake a "country of origin" inquiry to determine their source. If the minerals are, or are suspected to be, sourced from countries specified in the Dodd-Frank Act, then firms must conduct due diligence on their supply chains in conformance with internationally accepted frameworks, such as OECD's guidance (U.S. Securities and Exchange Commission, 2010, p. 842; 2014).

Under Section 1502 of the Dodd-Frank Act, companies must file a specialized disclosure form (SD Form) with the SEC that includes their findings and the opinion of an independent auditor indicating whether or not any 3TG minerals used in their products and components are sourced from countries specified in the Dodd-Frank Act. If a company determines that their products or components include 3TG minerals from any of these countries, it is required to trace those minerals back to the mine of origin, often through a complex chain-of-custody that may include multiple component manufacturers, processing facilities (smelters and refineries), intermediaries, shipping docks, and trade centers (U.S. Securities and Exchange Commission, 2014). The first deadline for companies required to file an SD Form with the SEC was June 2, 2014.

Tungsten Processing Facility Data

Table 1 displays more than 50 mineral processing facilities that consume tungsten concentrates, and includes available data regarding the name, location, processing plant type, and ownership. The USGS, however, does not have complete data on the source of origin of the concentrates used by these processing plants and therefore cannot verify whether these facilities consumed concentrates from either conflict-affected and high-risk areas, the Democratic Republic of the Congo, or an adjoining country. The information in this table represents plants that could have processed tungsten concentrates in 2013–14. The table does not include plants that only process recycled materials or that only process downstream materials made from concentrates and (or) scrap.

The data were evaluated and compiled by the USGS National Minerals Information Center from sources that include companies, foreign governments, industry analysts, industry associations, inter-governmental organizations, non-governmental organizations, and trade journals. While every attempt was made to include all concentrate-consuming plants, some plants were not listed. For example, information was not available on all tungsten processing plants in China, and Brazil is thought to produce ferrotungsten, but information on specific plants could not be confirmed.

References Cited

- Organisation for Economic Co-operation and Development (OECD), 2013, OECD due diligence guidance for responsible supply chains of minerals from conflict-affected and high-risk areas (Second edition): Paris, OECD, 118 p. [Also available at http://dx.doi.org/10.1787/9789264185050-en.]
- U.S. Government Accountability Office (GAO), 2012, Report to Congressional committees—Conflict minerals disclosure rule—SEC's actions and stakeholder-developed initiatives: Washington, D.C., U.S. GAO, Report GAO-12-763, 45 p. [Also available at http://www.gao.gov/assets/600/592458.pdf.]
- U.S. Securities and Exchange Commission (SEC), 2010, One Hundred Eleventh Congress of the United States of America— Dodd-Frank Wall Street Reform and Consumer Protection Act: Washington, D.C., U.S. SEC, 848 p. (Accessed June 7, 2013, at: http://www.sec.gov/ about/laws/wallstreet reform-cpa.pdf.)
- U.S. Securities and Exchange Commission (SEC), 2014, Fact Sheet—Disclosing the use of conflict minerals: Washington, D.C., U.S. SEC, accessed July 3, 2014, at http://www.sec.gov/News/Article/Detail/Article/1365171562058.

United Nations Security Council, 2014, Letter dated 22 January 2014 from the coordinator of the Group of Experts on the Democratic Republic of the Congo addressed to the President of the Security Council: New York, United Nations Security Council, no. 14-21515, 277 p. [Also available at http://www.securitycouncilreport.org/atf/cf/%7B65BFCF9B-6D27-4E9C-8CD3-CF6E4FF96FF9%7D/s 2014 42.pdf.]

Information Contacts

Steven D. Textoris Chief, Global Minerals Analysis Section National Minerals Information Center U.S. Geological Survey 991 National Center Reston, VA 20192 stextoris@usgs.gov http://minerals.usgs.gov/minerals



Omayra Bermúdez-Lugo
Country Specialist—West Africa, Angola,
Central African Republic, Namibia, and
The Indian Ocean Islands
Global Minerals Analysis Section
National Minerals Information Center, U.S. Geological Survey obermude@usgs.gov

Kim B. Shedd Mineral Commodity Specialist—Cobalt and Tungsten Mineral Commodities Section National Minerals Information Center, U.S. Geological Survey kshedd@usgs.gov

Donald I. Bleiwas Physical Scientist Global Minerals Analysis Section National Minerals Information Center, U.S. Geological Survey bleiwas@usgs.gov

Thomas R. Yager Country Specialist—East and Southern Africa Global Minerals Analysis Section National Minerals Information Center, U.S. Geological Survey tyager@usgs.gov