

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM SD
Specialized Disclosure Report

Trane Technologies plc

(Exact name of registrant as specified in its charter)

Ireland

98-0062632

(State or other jurisdiction of
incorporation or organization)

001-34400
(Commission File Number)

(IRS Employer Identification No.)

170/175 Lakeview Dr.
Airside Business Park
Swords, Co. Dublin
Ireland

(Address of principal executive offices)

N/A

(Zip Code)

Keith Sultana
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(Name and telephone number, including area code, of the person to contact in connection with
this report.)

Check the appropriate box to indicate the rule pursuant to which this form is being filed, and provide the period to which the information in this form applies:

☒ Rule 13p-1 under the Securities Exchange Act (17 CFR 240.13p-1) for the reporting period from January 1 to December 31, 2019.

Section 1 - Conflict Minerals Disclosure

Item 1.01 Conflict Minerals Disclosure and Report

Conflict Minerals Disclosure

Trane Technologies plc (formerly known as Ingersoll-Rand plc, the “Company”) has conducted a reasonable country of origin inquiry regarding the minerals specified by Rule 13p-1 of the Securities Exchange Act of 1934, as amended (the “conflict minerals”) necessary to the functionality or production of products manufactured or contracted to manufacture by the Company for the fiscal year ended December 31, 2019. The Company exercised due diligence on the source and chain of custody of its conflict minerals using the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas. A copy of the Company’s Conflict Minerals Report is provided as Exhibit 1.01 to this Form SD and is publicly available at <https://www.tranetechnologies.com/en/index/company/doing-business-with-us/conflict-minerals.html>.

Item 1.02 Exhibit

The exhibit required by this specialized disclosure report is attached hereto as exhibit 1.01.

Section 2 - Exhibits

Item 2.01 Exhibits

<u>Exhibit</u>	<u>Description</u>
1.01	Conflict Minerals Report

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the duly authorized undersigned.

TRANE TECHNOLOGIES PLC
(Registrant)

/s/ Keith Sultana

Keith Sultana

Senior Vice President, Supply Chain & Operational Services

May 31, 2020

(Date)

Conflict Minerals Disclosure

Introduction

Trane Technologies plc (formerly known as Ingersoll-Rand plc, the “Company”) has conducted a reasonable country of origin inquiry (“RCOI”) regarding the minerals specified by Rule 13p-1 of the Securities Exchange Act of 1934, as amended (the “conflict minerals”) necessary to the functionality or production of products manufactured by the Company for the fiscal year ended December 31, 2019. The Company exercised due diligence on the source and chain of custody of its conflict minerals using the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas (the “OECD Framework”).

As previously discussed in other filings with the Securities and Exchange Commission, on February 29, 2020, the Company completed a Reverse Morris Trust transaction (the “RMT Transaction”) whereby the Company separated its former Industrial segment (“Ingersoll-Rand Industrial”) through a pro rata distribution to shareholders of record as of February 24, 2020. Ingersoll-Rand Industrial then merged into a wholly-owned subsidiary of Gardner Denver Holdings, Inc., which changed its name to Ingersoll-Rand Inc. Due to the timing of the RMT transaction, and its occurrence after the December 31, 2019 fiscal year end, this Conflict Minerals Disclosure includes full-year 2019 data for both the Climate and Industrial segments.

Company Overview

The Company is a global climate innovator that brings efficient and sustainable climate solutions to buildings, homes and transportation driven by strategic brands Trane® and Thermo King® and an environmentally responsible portfolio of products and services. As of December 31, 2019, the Company operated under two business segments including Climate and Industrial, both with strong brands and highly differentiated products within their respective markets.

Product Overview

Our principal products by business segment as of December 31, 2019 included the following:

	Climate
Aftermarket and OEM parts and supplies	Indoor air quality
Air conditioners	Industrial refrigeration
Air exchangers	Installation contracting
Air handlers	Large commercial unitary
Airside and terminal devices	Light commercial unitary
Auxiliary power units	Motor replacements
Building management systems	Multi-pipe HVAC systems
Bus and rail HVAC systems	Package heating and cooling systems
Chillers	Performance contracting
Coils and condensers	Rail refrigeration systems
Container refrigeration systems and gensets	Refrigerant reclamation
Control systems	Repair and maintenance services
Cryogenic refrigeration systems	Rental services
Diesel-powered refrigeration systems	Self-powered truck refrigeration systems
Ductless systems	Service agreements
Energy management services	Temporary heating and cooling systems
Facility management services	Thermostats/controls
Furnaces	Trailer refrigeration systems
Geothermal systems	Transport heater products
Heat pumps	Unitary systems (light and large)
Home automation	Variable Refrigerant Flow
Humidifiers	Vehicle-powered truck refrigeration systems
Hybrid and non-diesel transport refrigeration solutions	Water source heat pumps
Ice energy storage solutions	

	Industrial*
Air compressors (centrifugal, reciprocating and rotary)	Hydrogen compression, dispensing and refueling systems
Air-operated pumps (diaphragm and piston)	Installation contracting
Air treatment and air separation systems	Liquid and gas sampling systems
Aftermarket and OEM parts and supplies	Maintenance and repair services
Airends	Metering and process pumps, skids and systems
Blowers	Mixers
Controllers and control systems dryers	Odorant injection systems
Digital Systems Monitoring	Power tools (pneumatic, cordless and electric)
Engine starting systems	Precision fastening tools, software and systems
Ergonomic material handling systems	Rental services
Filters, regulators and lubricators	Rough terrain (AWD) vehicles
Fluid power components	Service agreements
Gas boosters and high-pressure valves	Utility and consumer low-speed vehicles
Gas compressors	Mobile golf information systems
Golf vehicles	Water-powered dosing pumps
Hoists (pneumatic, hydraulic, electric and manual)	Winches (pneumatic, hydraulic and electric)

* Note: these product lines were included in the RMT Transaction and are no longer product lines offered by the Company.

Description of Reasonable Country of Origin Inquiry

We conducted a Reasonable Country of Origin Inquiry (an “RCOI”) regarding the conflict minerals by utilizing the conflict minerals reporting template (“CMRT”) developed by the Electronic Industry Citizenship Coalition (“EICC”) and Global e-Sustainability Initiative (“GeSI”). We also performed due diligence work on the source and chain of custody of our conflict minerals using the OECD Framework, an internationally recognized due diligence framework. We primarily rely on the conflict-free smelter program designed and managed by the Responsible Minerals Initiative (“RMI”) (formerly known as the Conflict-Free Sourcing Initiative) to conduct our risk assessment.

Determination

We were unable to determine that all of the conflict minerals contained in our products do not originate from the Covered Countries due to, among other things, the following:

- Many of our suppliers submitted responses that were declared on a company-wide basis (*i.e.* , representing the smelters and refiners associated with all product offerings of the supplier that contained conflict minerals) and not specific to the materials supplied to the Company. Therefore, in combination with multiple layers in our supply chain, we believe that these declarations might include smelters and refiners that do not provide the conflict minerals that are in our products.
- A number of our suppliers identified smelters/refiners that do not participate in the Responsible Minerals Assurance Process (“RMAP”) or a similar program and other suppliers failed to identify any smelter/refiner in their responses to us. Furthermore, we were unable to obtain responses from all of our suppliers and other suppliers provided incomplete or inconsistent data.

As a result, we do not have sufficient information to conclusively determine the country of origin of all of the conflict minerals in our products and, if such conflict minerals did originate in the Covered Countries, whether such conflict minerals were from recycled or scrap sources or were from other conflict free sources. Accordingly, the Company conducted the due diligence measures described below.

Due Diligence

In accordance with Rule 13p-1, the Company performed due diligence to determine the source and chain of custody necessary to determine the presence of conflict minerals in the Company’s products. The Company designed its due diligence measures to conform in all material respects with the OECD Framework and related supplements for each of the conflict minerals.

The Company, as a purchaser, is many steps removed from the mining of conflict minerals and does not purchase raw ore or unrefined conflict minerals. Identifying the presence and origin of conflict minerals cannot be determined with any certainty once the raw ores are smelted, refined and converted to ingots, bullion or other conflict mineral-containing derivatives. Although the smelters and refiners are consolidating points for raw ore and are in the best position in the supply chain to know the origin of the ores, the Company focused its efforts on its suppliers in an effort to build conflict minerals awareness and assess the transparency of its supply chain and make initial identification, where possible, of the smelters/refiners in its supply chain.

The discussion below provides the applicable OECD Framework recommendation (in ***bold/italics***) followed by a summary of the Company's activities in line with the OECD Framework .

1. Management Systems.

The Company adopted a Conflict Minerals Policy in 2013. The policy requires suppliers to perform due diligence and outlines the Company's expectation of suppliers. During 2014, the Company revised and strengthened the policy. During 2019, the Company continued to communicate the policy to suppliers and the public through its website, letters sent to suppliers and customers and telephone calls.

Internal Management Systems.

The Company's conflict minerals compliance program for the fiscal year ended December 31, 2019 was managed by a cross-functional team lead by procurement and including representatives from procurement, legal and finance. This team discussed conflict minerals compliance issues and reviewed the status of the diligence process. During 2019, the global procurement team continued to offer self-paced training modules for the Company's commodities team.

Control System and Supply Chain Transparency

The Company implemented a process to evaluate commodities and suppliers in the supply chain for potential conflict minerals risk and an internal process map for the conflict minerals process that is subject to periodic reviews. Supplier agreement templates require suppliers and licensees to provide information on their use and source of conflict minerals. Given the size and complexity of the Company's global supply chain, the Company focused on its largest suppliers, ranked by the amount the Company spends with each such supplier, and suppliers that had the highest probability of supplying the Company with materials or components containing conflict minerals (the "Targeted Suppliers"). For 2019, this group represented, greater than 84% of the Company's in-scope suppliers by spend. The Company requested supply chain information from Targeted Suppliers utilizing templates developed by the EICC and GeSI. During 2019, the Company distributed the CMRT to Targeted Suppliers, tracked responses and followed up with unresponsive suppliers. The Company maintains records relating to its annual supplier survey.

Supplier Engagement

The Company's standard global terms and conditions include a conflict minerals clause. The Company's standard procurement contracts also contain a conflict minerals clause. In 2019, the Company maintained its preferred supplier program. In order to be designated as a preferred supplier of the Company, a supplier must supply any required conflict minerals information to the Company and comply with other required criteria.

Grievance Mechanism

The Company has an e-mail address for receiving conflict minerals communications internally and an external e-mail mechanism through the Company's public website. The Company intends to treat grievances as red flags for purposes of the due diligence process.

2. Identify and assess risk in the supply chain.

The Company works with its commodity team and engineering team as appropriate to review the commodities necessary for the manufacture of its products to determine the associated level of risk of containing conflict minerals focusing its due diligence efforts on commodities at the highest risk.

Following the identification of the commodities, the Company requires Targeted Suppliers to complete a survey using the EICC-GeSI template at a company and parts level. The Company reviews survey responses for completeness and compiles aggregate survey responses. The Company follows up with suppliers when responses are incomplete or other questions are raised by the responses. The Company tracks response rates and red flags as part of its conflict minerals reporting process.

3. Design and implement a strategy to respond to identified risks.

The Company developed a strategy to systematically reduce the extent of exposure to certain risk and the likelihood of its occurrence. Steps taken include communicating a policy to Targeted Suppliers noting that suppliers must thoroughly document their efforts to determine the source of any conflict minerals or derivatives and be prepared to provide the Company with evidence of the origin of any conflict minerals contained in products supplied to the Company. The strategy uses a documented escalation process for suppliers who fail to respond, which may result in termination of the supplier's relationship with the Company and/or failure to be considered for future projects with the Company.

The Company has created a standard due diligence process, has engaged in a gap analysis regarding its conflict minerals process, and has monitored and tracked responses to its conflict minerals requests as well as its escalation efforts. Senior management is updated as needed. Additional fact finding, risk assessments and evaluations of changes in circumstances take place as part of the Company's annual review of processes and procedures.

4. *Carry out independent third-party audit of supply chain due diligence at identified points in the supply chain. Companies at identified points in the supply chain should have their due diligence practices audited by independent third parties.*

In 2014, the Company engaged an independent third party to provide a review of the Company's conflict minerals compliance program including review of its existing conflict minerals policy and due diligence process. The Company implemented enhancements to the program in 2014 and 2015 as a result of this review. In 2019, the Company continued its membership in the RMI. The Company continued to implement steps using information from the RMI to conduct a review of summary smelter information to determine if the smelter is certified as conflict free or presents a "red flag" as defined by the OECD Guidance as part of its diligence related to 2019 supplier survey responses.

5. *Report on supply chain due diligence.*

The Company has complied with its SEC filing requirement regarding its conflict minerals program and due diligence by the filing of this report. The Company has made this report available on its external website at <https://www.tranetechnologies.com/en/index/company/doing-business-with-us/conflict-minerals.html> and has included its conflict minerals policy and other resources at that web address. The Company continues to refine and improve its conflict minerals policy, questionnaire and processes, and to expand awareness regarding its conflict minerals policies.

Results of Due Diligence

After performing the due diligence described above, we are unable to determine that all of the conflict minerals contained in the products described above did not originate from the Covered Countries. For the reasons stated in this report, we also do not have sufficient information to conclusively determine the country of origin of all of the conflict minerals in our products described below and, if such conflict minerals did originate in the Covered Countries, whether such conflict minerals were from recycled or scrap sources or were from other conflict free sources.

We have provided this information as of the date of this report. Subsequent events, such as the inability or unwillingness of any suppliers, smelters or refiners to provide us with complete information, may affect our future determinations under the Rule.

Information on Smelters or Refiners

The CMRT requested that the Targeted Suppliers provide the Company with information on the smelters or refiners that the Targeted Suppliers and its suppliers use to supply conflict minerals to the Company. Because the Company does not typically have a direct relationship with the facilities used to process conflict minerals, we must rely on information provided by the Targeted Suppliers. Some responses from the Targeted Suppliers indicated that they were unable to provide smelter or refiner information at this time. Other Targeted Suppliers provided information on all smelters or refiners used by the Targeted Supplier but could not provide information linking specific smelters or refiners used to process conflict minerals with products provided to the Company. Some Targeted Suppliers provided names that the suppliers described as "smelters" but such names could not be linked to smelters on the RMI list, and may not, in fact, be smelters. Based on the information provided by the Targeted Suppliers, the Company has identified 328 smelters from the RMI list, of which 233 have been validated as audited and found conformant with the relevant RMAP standard. These smelters are included in the list attached as Annex 1 to this report.

Steps to Improve Due Diligence

The Company continues to identify opportunities to improve its due diligence and mitigate risk relating to conflict minerals. Below are some of the steps that the Company is considering taking:

- Continuation of supplier engagement;
- Continuation of company membership in RMI;
- Continuation of our supplier engagement and training and encouraging suppliers to use training resources available through industry associations and the RMI; and
- Encouraging supplier and other company membership and participation in RMI.

Cautionary Statement about Forward-Looking Statements

Certain statements in this report, other than purely historical information, are “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995, Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. These forward-looking statements generally are identified by the words “believe,” “project,” “expect,” “anticipate,” “estimate,” “forecast,” “outlook,” “intend,” “strategy,” “plan,” “may,” “should,” “will,” “could,” “would,” “will be,” “will continue,” “will likely result,” or the negative thereof or variations thereon or similar terminology generally intended to identify forward-looking statements.

Forward-looking statements are based on currently available information and our current assumptions, expectations and projections about future events. While we believe that our assumptions, expectations and projections are reasonable in view of the currently available information, you are cautioned not to place undue reliance on our forward-looking statements. You are advised to review any further disclosures we make on related subjects in materials we file with or furnish to the SEC. Forward-looking statements speak only as of the date they are made and are not guarantees of future performance. They are subject to future events, risks and uncertainties - many of which are beyond our control - as well as potentially inaccurate assumptions, that could cause actual results to differ materially from our expectations and projections. We do not undertake to update any forward-looking statements.

Annex 1

Metal	Smelter Name	Smelter Country
Gold	8853 S.p.A.	ITALY
Gold	ABC Refinery Pty Ltd.	AUSTRALIA
Gold	Abington Reldan Metals, LLC	UNITED STATES OF AMERICA
Gold	Advanced Chemical Company	UNITED STATES OF AMERICA
Gold	Africa Mining Gold Bars	GHANA
Gold	African Gold Refinery	UGANDA
Gold	Aida Chemical Industries Co., Ltd.	JAPAN
Gold	Al Etihad Gold Refinery DMCC	UNITED ARAB EMIRATES
Gold	Al Ghaith Gold	UNITED ARAB EMIRATES
Gold	Allgemeine Gold-und Silberscheideanstalt A.G.	GERMANY
Gold	Almalyk Mining and Metallurgical Complex (AMMC)	UZBEKISTAN
Gold	AngloGold Ashanti Corrego do Sitio Mineracao	BRAZIL
Gold	Argor-Heraeus S.A.	SWITZERLAND
Gold	ARY Aurum Plus	UNITED ARAB EMIRATES
Gold	Asahi Pretec Corp.	JAPAN
Gold	Asahi Refining Canada Ltd.	CANADA
Gold	Asahi Refining USA Inc.	UNITED STATES OF AMERICA
Gold	Asaka Riken Co., Ltd.	JAPAN
Gold	Atasay Kuyumculuk Sanayi Ve Ticaret A.S.	TURKEY
Gold	AU Traders and Refiners	SOUTH AFRICA
Gold	Aurubis AG	GERMANY
Gold	Bangalore Refinery	INDIA
Gold	Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	PHILIPPINES
Gold	Boliden AB	SWEDEN
Gold	C. Hafner GmbH + Co. KG	GERMANY
Gold	C.I Metales Procesados Industriales SAS	COLOMBIA
Gold	Caridad	MEXICO
Gold	CCR Refinery - Glencore Canada Corporation	CANADA
Gold	Cendres + Metaux S.A.	SWITZERLAND
Gold	CGR Metalloys Pvt Ltd.	INDIA
Gold	Chimet S.p.A.	ITALY
Gold	Chugai Mining	JAPAN
Gold	Daye Non-Ferrous Metals Mining Ltd.	CHINA
Gold	Degussa Sonne / Mond Goldhandel GmbH	GERMANY
Gold	Dijllah Gold Refinery FZC	UNITED ARAB EMIRATES
Gold	DODUCO Contacts and Refining GmbH	GERMANY
Gold	Dowa	JAPAN
Gold	DS PRETECH Co., Ltd.	KOREA, REPUBLIC OF
Gold	DSC (Do Sung Corporation)	KOREA, REPUBLIC OF
Gold	Eco-System Recycling Co., Ltd. East Plant	JAPAN
Gold	Eco-System Recycling Co., Ltd. North Plant	JAPAN

Gold	Eco-System Recycling Co., Ltd. West Plant	JAPAN
Gold	Emirates Gold DMCC	UNITED ARAB EMIRATES
Gold	Fidelity Printers and Refiners Ltd.	ZIMBABWE
Gold	Fujairah Gold FZC	UNITED ARAB EMIRATES
Gold	GCC Gujrat Gold Centre Pvt. Ltd.	INDIA
Gold	Geib Refining Corporation	UNITED STATES OF AMERICA
Gold	Gold Refinery of Zijin Mining Group Co., Ltd.	CHINA
Gold	Great Wall Precious Metals Co., Ltd. of CBPM	CHINA
Gold	Guangdong Jinding Gold Limited	CHINA
Gold	Gujarat Bullion Refinery	INDIA
Gold	Guoda Safina High-Tech Environmental Refinery Co., Ltd.	CHINA
Gold	Hangzhou Fuchunjiang Smelting Co., Ltd.	CHINA
Gold	Heimerle + Meule GmbH	GERMANY
Gold	Henan Yuguang Gold & Lead Co., Ltd.	CHINA
Gold	Heraeus Metals Hong Kong Ltd.	CHINA
Gold	Heraeus Precious Metals GmbH & Co. KG	GERMANY
Gold	Heraeus Precious Metals New York LLC	Unknown
Gold	Hunan Chenzhou Mining Co., Ltd.	CHINA
Gold	Hunan Guiyang yinxing Nonferrous Smelting Co., Ltd.	CHINA
Gold	HwaSeong CJ CO., LTD.	KOREA, REPUBLIC OF
Gold	Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	CHINA
Gold	International Precious Metal Refiners	UNITED ARAB EMIRATES
Gold	Ishifuku Metal Industry Co., Ltd.	JAPAN
Gold	Istanbul Gold Refinery	TURKEY
Gold	Italpreziosi	ITALY
Gold	JALAN & Company	INDIA
Gold	Japan Mint	JAPAN
Gold	Jiangxi Copper Co., Ltd.	CHINA
Gold	JSC Ekaterinburg Non-Ferrous Metal Processing Plant	RUSSIAN FEDERATION
Gold	JSC Uralelectromed	RUSSIAN FEDERATION
Gold	JX Nippon Mining & Metals Co., Ltd.	JAPAN
Gold	K.A. Rasmussen	NORWAY
Gold	Kaloti Precious Metals	UNITED ARAB EMIRATES
Gold	Kazakhmys Smelting LLC	KAZAKHSTAN
Gold	Kazzinc	KAZAKHSTAN
Gold	Kennecott Utah Copper LLC	UNITED STATES OF AMERICA
Gold	KGHM Polska Miedz Spolka Akcyjna	POLAND
Gold	Kojima Chemicals Co., Ltd.	JAPAN
Gold	Korea Zinc Co., Ltd.	KOREA, REPUBLIC OF
Gold	Kosak Seiren	JAPAN
Gold	Kyrgyzaltyn JSC	KYRGYZSTAN
Gold	Kyshtym Copper-Electrolytic Plant ZAO	RUSSIAN FEDERATION
Gold	L'azurde Company For Jewelry	SAUDI ARABIA
Gold	Lingbao Gold Co., Ltd.	CHINA
Gold	Lingbao Jinyuan Tonghui Refinery Co., Ltd.	CHINA
Gold	L'Orfebre S.A.	ANDORRA

Gold	LS-NIKKO Copper Inc.	KOREA, REPUBLIC OF
Gold	LT Metal Ltd.	KOREA, REPUBLIC OF
Gold	Luoyang Zijin Yinhui Gold Refinery Co., Ltd.	CHINA
Gold	Marsam Metals	BRAZIL
		UNITED STATES OF
Gold	Materion	AMERICA
Gold	Matsuda Sangyo Co., Ltd.	JAPAN
Gold	Metalor Technologies (Hong Kong) Ltd.	CHINA
Gold	Metalor Technologies (Singapore) Pte., Ltd.	SINGAPORE
Gold	Metalor Technologies (Suzhou) Ltd.	CHINA
Gold	Metalor Technologies S.A.	SWITZERLAND
		UNITED STATES OF
Gold	Metalor USA Refining Corporation	AMERICA
Gold	Metalurgica Met-Mex Penoles S.A. De C.V.	MEXICO
Gold	Mitsubishi Materials Corporation	JAPAN
Gold	Mitsui Mining and Smelting Co., Ltd.	JAPAN
Gold	MMTC-PAMP India Pvt., Ltd.	INDIA
Gold	Modeltech Sdn Bhd	MALAYSIA
Gold	Morris and Watson	NEW ZEALAND
Gold	Moscow Special Alloys Processing Plant	RUSSIAN FEDERATION
Gold	Nadir Metal Rafineri San. Ve Tic. A.S.	TURKEY
Gold	Navoi Mining and Metallurgical Combinat	UZBEKISTAN
Gold	NH Recytech Company	KOREA, REPUBLIC OF
Gold	Nihon Material Co., Ltd.	JAPAN
Gold	Nihon Superior Co., Ltd.	JAPAN
	Ogussa Österreichische Gold- und Silber-Scheideanstalt	
Gold	GmbH	AUSTRIA
Gold	Ohura Precious Metal Industry Co., Ltd.	JAPAN
	OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals	
Gold	Plant" (OJSC Krastsvetmet)	RUSSIAN FEDERATION
Gold	OJSC Novosibirsk Refinery	RUSSIAN FEDERATION
Gold	PAMP S.A.	SWITZERLAND
		UNITED STATES OF
Gold	Pease & Curren	AMERICA
Gold	Penglai Penggang Gold Industry Co., Ltd.	CHINA
Gold	Planta Recuperadora de Metales SpA	CHILE
		UNITED STATES OF
Gold	Precious Metals Sales Corp.	AMERICA
Gold	Prioksky Plant of Non-Ferrous Metals	RUSSIAN FEDERATION
Gold	PT Aneka Tambang (Persero) Tbk	INDONESIA
Gold	PX Precinox S.A.	SWITZERLAND
		UNITED STATES OF
Gold	QG Refining, LLC	AMERICA
Gold	Rand Refinery (Pty) Ltd.	SOUTH AFRICA
Gold	Refinery of Seemine Gold Co., Ltd.	CHINA
Gold	REMONDIS PMR B.V.	NETHERLANDS
Gold	Royal Canadian Mint	CANADA
Gold	SAAMP	FRANCE
		UNITED STATES OF
Gold	Sabin Metal Corp.	AMERICA
Gold	Safimet S.p.A	ITALY
Gold	SAFINA A.S.	CZECHIA
Gold	Sai Refinery	INDIA

Gold	Samduck Precious Metals	KOREA, REPUBLIC OF
Gold	Samwon Metals Corp.	KOREA, REPUBLIC OF
Gold	SAXONIA Edelmetalle GmbH	GERMANY
Gold	SEMPSA Joyeria Plateria S.A.	SPAIN
Gold	Shandon Jin Jinyin Refining Limited	Unknown
Gold	Shandong Gold Group Co., Ltd.	CHINA
Gold	Shandong Hengbang Smelter Co., Ltd.	CHINA
Gold	Shandong Humon Smelting Co., Ltd.	CHINA
Gold	Shandong penglai gold smelter	Unknown
Gold	Shandong Tiancheng Biological Gold Industrial Co., Ltd.	CHINA
Gold	Shandong Yanggu Xiangguang Co., Ltd.	CHINA
Gold	Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CHINA
Gold	Shenzhen Heng Zhong Industry Co., Ltd.	CHINA
Gold	Sichuan Tianze Precious Metals Co., Ltd.	CHINA
Gold	Singway Technology Co., Ltd.	TAIWAN, PROVINCE OF CHINA
Gold	Sino-Platinum Metals Co., Ltd.	CHINA
Gold	SOE Shyolkovsky Factory of Secondary Precious Metals	RUSSIAN FEDERATION
Gold	Solar Applied Materials Technology Corp.	TAIWAN, PROVINCE OF CHINA
Gold	Sovereign Metals	INDIA
Gold	State Research Institute Center for Physical Sciences and Technology	LITHUANIA
Gold	Sudan Gold Refinery	SUDAN
Gold	Sumitomo Metal Mining Co., Ltd.	JAPAN
Gold	SungEel HiMetal Co., Ltd.	KOREA, REPUBLIC OF
Gold	Super Dragon Technology Co., Ltd.	CHINA
Gold	SuZhou ShenChuang recycling Ltd.	Unknown
Gold	T.C.A S.p.A	ITALY
Gold	Tanaka Kikinzoku Kogyo K.K.	JAPAN
Gold	The Refinery of Shandong Gold Mining Co., Ltd.	CHINA
Gold	Tokuriki Honten Co., Ltd.	JAPAN
Gold	Tongling Nonferrous Metals Group Co., Ltd.	CHINA
Gold	Tony Goetz NV	BELGIUM
Gold	TOO Tau-Ken-Altyn	KAZAKHSTAN
Gold	Torecom	KOREA, REPUBLIC OF
Gold	Tsai Brother industries	Unknown
Gold	Umicore Brasil Ltda.	BRAZIL
Gold	Umicore Precious Metals Thailand	THAILAND
Gold	Umicore S.A. Business Unit Precious Metals Refining	BELGIUM
Gold	United Precious Metal Refining, Inc.	UNITED STATES OF AMERICA
Gold	Valcambi S.A.	SWITZERLAND
Gold	Viagra Di precious metals (Zhaoyuan) Co., Ltd.	CHINA
GOLD	WANG TING	Unknown
Gold	Western Australian Mint (T/a The Perth Mint)	AUSTRALIA
Gold	WIELAND Edelmetalle GmbH	GERMANY
Gold	Wuzhong Group	CHINA
Gold	Xiamen Jinbo Metal Co., Ltd.	Unknown
Gold	Yamakin Co., Ltd.	JAPAN
Gold	Yokohama Metal Co., Ltd.	JAPAN
Gold	Yunnan Copper Industry Co., Ltd.	CHINA

Gold	Zhongyuan Gold Smelter of Zhongjin Gold Corporation	CHINA
Tantalum	Asaka Riken Co., Ltd.	JAPAN
Tantalum	Changsha South Tantalum Niobium Co., Ltd.	CHINA
Tantalum	CP Metals Inc.	UNITED STATES OF AMERICA
Tantalum	D Block Metals, LLC	UNITED STATES OF AMERICA
Tantalum	Exotech Inc.	UNITED STATES OF AMERICA
Tantalum	F&X Electro-Materials Ltd.	CHINA
Tantalum	FIR Metals & Resource Ltd.	CHINA
Tantalum	Global Advanced Metals Aizu	JAPAN
Tantalum	Global Advanced Metals Boyertown	UNITED STATES OF AMERICA
Tantalum	Guangdong Zhiyuan New Material Co., Ltd.	CHINA
Tantalum	H.C. Starck Co., Ltd.	THAILAND
Tantalum	H.C. Starck Hermsdorf GmbH	GERMANY
Tantalum	H.C. Starck Inc.	UNITED STATES OF AMERICA
Tantalum	H.C. Starck Ltd.	JAPAN
Tantalum	H.C. Starck Smelting GmbH & Co. KG	GERMANY
Tantalum	H.C. Starck Tantalum and Niobium GmbH	GERMANY
Tantalum	Hengyang King Xing Lifeng New Materials Co., Ltd.	CHINA
Tantalum	Jiangxi Dinghai Tantalum & Niobium Co., Ltd.	CHINA
Tantalum	Jiangxi Tuohong New Raw Material	CHINA
Tantalum	JiuJiang JinXin Nonferrous Metals Co., Ltd.	CHINA
Tantalum	Jiujiang Tanbre Co., Ltd.	CHINA
Tantalum	Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	CHINA
Tantalum	KEMET Blue Metals	MEXICO
Tantalum	LSM Brasil S.A.	BRAZIL
Tantalum	Metallurgical Products India Pvt., Ltd.	INDIA
Tantalum	Mineracao Taboca S.A.	BRAZIL
Tantalum	Mitsui Mining and Smelting Co., Ltd.	JAPAN
Tantalum	Ningxia Orient Tantalum Industry Co., Ltd.	CHINA
Tantalum	NPM Silmet AS	ESTONIA
Tantalum	PRG Dooel	NORTH MACEDONIA, REPUBLIC OF
Tantalum	QuantumClean	UNITED STATES OF AMERICA
Tantalum	Resind Industria e Comercio Ltda.	BRAZIL
Tantalum	Shanghai Jiangxi Metals Co., Ltd.	CHINA
Tantalum	Solikamsk Magnesium Works OAO	RUSSIAN FEDERATION
Tantalum	Taki Chemical Co., Ltd.	JAPAN
Tantalum	Telex Metals	UNITED STATES OF AMERICA
Tantalum	Ulba Metallurgical Plant JSC	KAZAKHSTAN
Tantalum	XinXing HaoRong Electronic Material Co., Ltd.	CHINA
Tantalum	Yanling Jincheng Tantalum & Niobium Co., Ltd.	CHINA
Tin	Alpha	UNITED STATES OF AMERICA
Tin	An Vinh Joint Stock Mineral Processing Company	VIET NAM
Tin	Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	CHINA
Tin	Chifeng Dajingzi Tin Industry Co., Ltd.	CHINA

Tin	China Tin Group Co., Ltd.	CHINA
Tin	Dongguan CiEXPO Environmental Engineering Co., Ltd.	CHINA
Tin	Dowa	JAPAN
Tin	Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company	VIET NAM
		BOLIVIA
		(PLURINATIONAL STATE OF)
Tin	EM Vinto	BRAZIL
Tin	Estanho de Rondonia S.A.	POLAND
Tin	Fenix Metals	CHINA
Tin	Gejiu City Fuxiang Industry and Trade Co., Ltd.	CHINA
Tin	Gejiu Kai Meng Industry and Trade LLC	CHINA
Tin	Gejiu Non-Ferrous Metal Processing Co., Ltd.	CHINA
Tin	Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	CHINA
Tin	Gejiu Zili Mining And Metallurgy Co., Ltd.	CHINA
Tin	Guangdong Hanhe Non-Ferrous Metal Co., Ltd.	CHINA
Tin	Guanyang Guida Nonferrous Metal Smelting Plant	CHINA
Tin	HuiChang Hill Tin Industry Co., Ltd.	CHINA
Tin	Huichang Jinshunda Tin Co., Ltd.	CHINA
Tin	Jiangxi New Nanshan Technology Ltd.	CHINA
Tin	Luna Smelter, Ltd.	RWANDA
Tin	Ma'anshan Weitai Tin Co., Ltd.	CHINA
Tin	Magnu's Minerais Metais e Ligas Ltda.	BRAZIL
Tin	Malaysia Smelting Corporation (MSC)	MALAYSIA
Tin	Melt Metais e Ligas S.A.	BRAZIL
		UNITED STATES OF AMERICA
Tin	Metallic Resources, Inc.	BELGIUM
Tin	Metallo Belgium N.V.	SPAIN
Tin	Metallo Spain S.L.U.	BRAZIL
Tin	Mineracao Taboca S.A.	PERU
Tin	Minsur	JAPAN
Tin	Mitsubishi Materials Corporation	MALAYSIA
Tin	Modeltech Sdn Bhd	VIET NAM
Tin	Nghe Tinh Non-Ferrous Metals Joint Stock Company	THAILAND
Tin	O.M. Manufacturing (Thailand) Co., Ltd.	PHILIPPINES
Tin	O.M. Manufacturing Philippines, Inc.	BOLIVIA
		(PLURINATIONAL STATE OF)
Tin	Operaciones Metalurgicas S.A.	MYANMAR
Tin	Pongpipat Company Limited	INDIA
Tin	Precious Minerals and Smelting Limited	INDONESIA
Tin	PT Artha Cipta Langgeng	INDONESIA
Tin	PT ATD Makmur Mandiri Jaya	INDONESIA
Tin	PT Menara Cipta Mulia	INDONESIA
Tin	PT Mitra Stania Prima	INDONESIA
Tin	PT Refined Bangka Tin	INDONESIA
Tin	PT Timah Tbk Kundur	INDONESIA
Tin	PT Timah Tbk Mentok	INDONESIA
Tin	Resind Industria e Comercio Ltda.	BRAZIL
		TAIWAN, PROVINCE OF CHINA
Tin	Rui Da Hung	CHINA
Tin	Shan Tou Shi Yong Yuan Jin Shu Zai Sheng Co., Ltd.	BRAZIL
Tin	Soft Metais Ltda.	

Tin	Super Ligas	BRAZIL
Tin	Thaisarco	THAILAND
		UNITED STATES OF AMERICA
Tin	Tin Technology & Refining	
Tin	Tuyen Quang Non-Ferrous Metals Joint Stock Company	VIET NAM
Tin	White Solder Metalurgia e Mineracao Ltda.	BRAZIL
Tin	Yifeng Tin	CHINA
Tin	Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	CHINA
Tin	Yunnan Geiju Smelting Corp.	Unknown
Tin	Yunnan Tin Company Limited	CHINA
Tin	Yunnan Yunfan Non-ferrous Metals Co., Ltd.	CHINA
Tungsten	A.L.M.T. Corp.	JAPAN
Tungsten	ACL Metais Eireli	BRAZIL
	Albasteel Industria e Comercio de Ligas Para Fundicao	
Tungsten	Ltd.	BRAZIL
Tungsten	Asia Tungsten Products Vietnam Ltd.	VIET NAM
Tungsten	Chenzhou Diamond Tungsten Products Co., Ltd.	CHINA
Tungsten	China Molybdenum Tungsten Co., Ltd.	CHINA
Tungsten	Chongyi Zhangyuan Tungsten Co., Ltd.	CHINA
Tungsten	CNMC (Guangxi) PGMA Co., Ltd.	CHINA
		UNITED STATES OF AMERICA
Tungsten	CP Metals Inc.	
Tungsten	Fujian Ganmin RareMetal Co., Ltd.	CHINA
Tungsten	Fujian Jinxin Tungsten Co., Ltd.	CHINA
Tungsten	Ganzhou Haichuang Tungsten Co., Ltd.	CHINA
Tungsten	Ganzhou Huaxing Tungsten Products Co., Ltd.	CHINA
Tungsten	Ganzhou Jiangwu Ferrotungsten Co., Ltd.	CHINA
Tungsten	Ganzhou Seadragon W & Mo Co., Ltd.	CHINA
		UNITED STATES OF AMERICA
Tungsten	Global Tungsten & Powders Corp.	
Tungsten	Guangdong Xianglu Tungsten Co., Ltd.	CHINA
Tungsten	H.C. Starck Smelting GmbH & Co. KG	GERMANY
Tungsten	H.C. Starck Tungsten GmbH	GERMANY
Tungsten	Hunan Chenzhou Mining Co., Ltd.	CHINA
Tungsten	Hunan Chuangda Vanadium Tungsten Co., Ltd. Wuji	CHINA
Tungsten	Hunan Chunchang Nonferrous Metals Co., Ltd.	CHINA
Tungsten	Hunan Litian Tungsten Industry Co., Ltd.	CHINA
Tungsten	Hydrometallurg, JSC	RUSSIAN FEDERATION
Tungsten	Japan New Metals Co., Ltd.	JAPAN
Tungsten	Jiangwu H.C. Starck Tungsten Products Co., Ltd.	CHINA
Tungsten	Jiangxi Gan Bei Tungsten Co., Ltd.	CHINA
Tungsten	Jiangxi Minmetals Gao'an Non-ferrous Metals Co., Ltd.	CHINA
	Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd.	
Tungsten		CHINA
Tungsten	Jiangxi Xinsheng Tungsten Industry Co., Ltd.	CHINA
Tungsten	Jiangxi Yaosheng Tungsten Co., Ltd.	CHINA
Tungsten	JSC "Kirovgrad Hard Alloys Plant"	RUSSIAN FEDERATION
		UNITED STATES OF AMERICA
Tungsten	Kennametal Huntsville	
Tungsten	KGETS Co., Ltd.	KOREA, REPUBLIC OF
		TAIWAN, PROVINCE OF CHINA
Tungsten	Lianyou Metals Co., Ltd.	
Tungsten	Malipo Haiyu Tungsten Co., Ltd.	CHINA

Tungsten	Masan Tungsten Chemical LLC (MTC)	VIET NAM
Tungsten	Moliren Ltd.	RUSSIAN FEDERATION
		UNITED STATES OF
		AMERICA
Tungsten	Niagara Refining LLC	PHILIPPINES
Tungsten	Philippine Chuangxin Industrial Co., Inc.	VIET NAM
Tungsten	Tejing (Vietnam) Tungsten Co., Ltd.	RUSSIAN FEDERATION
Tungsten	Unecha Refractory metals plant	AUSTRIA
Tungsten	Wolfram Bergbau und Hutten AG	KOREA, REPUBLIC OF
Tungsten	Woltech Korea Co., Ltd.	CHINA
Tungsten	Xiamen Tungsten (H.C.) Co., Ltd.	CHINA
Tungsten	Xiamen Tungsten Co., Ltd.	
	Xinfeng Huarui Tungsten & Molybdenum New Material	
Tungsten	Co., Ltd.	CHINA
Tungsten	Xinhai Rendan Shaoguan Tungsten Co., Ltd.	CHINA