# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

|    | FORM SD                      |
|----|------------------------------|
| Sį | pecialized Disclosure Report |

# Fortune Brands Home & Security, Inc.

(Exact Name of Registrant as Specified in its Charter)

Delaware (State or Other Jurisdiction of Incorporation) 1-35166 (Commission File Number) 62-1411546 (IRS Employer Identification No.)

520 Lake Cook Road
Deerfield, IL 60015-5611
(Address of Principal Executive Offices) (Zip Code)

 $Robert\ K.\ Biggart\ 847-484-4400$  (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, 2017.

#### Item 1.01.

#### Conflict Minerals Disclosure and Report for the Year Ended December 31, 2017

Fortune Brands Home & Security, Inc. ("Fortune Brands" or the "Company") determined that tin, tantalum, tungsten and/or gold (the "Conflict Minerals") were necessary for the production or functionality of products manufactured or contracted for manufacture by Fortune Brands in calendar year 2017, and is therefore subject to reporting under Section 1502(b) of the Dodd-Frank Act, and Rule 13p-1 under the Securities Exchange Act of 1934. After conducting a reasonable country of origin inquiry ("RCOI") regarding the applicable Conflict Minerals, Fortune Brands had reason to believe that some of the necessary Conflict Minerals may have originated in the Democratic Republic of the Congo or an adjoining country and are not from recycled or scrap sources. As a result, the Company conducted the due diligence process more fully described in the Conflict Minerals Report attached as an exhibit hereto.

#### **Published Results**

A copy of this Form SD and attached Conflict Minerals Report may be found publicly on the Fortune Brands' investor relations internet website (under the tab "SEC filings") at:

#### Item 1.02. Exhibit

Fortune Brands has filed as an exhibit to this Form SD, the Conflict Minerals Report for the calendar year ended December 31, 2017.

# SECTION 2- EXHIBITS

# **Item 2.01 Exhibits**

Exhibit No. Description of Exhibit

1.01 Conflict Minerals Report as required by Items 1.01 and 1.02 of this Form.

#### **SIGNATURE**

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 undersigned hereunto duly authorized.

# FORTUNE BRANDS HOME & SECURITY, INC.

Date: May 31, 2018

/s/ Robert K. Biggart

Robert K. Biggart Senior Vice President, General Counsel & Secretary

#### Fortune Brands Home & Security, Inc. Conflict Minerals Report

Year Ended December 31, 2017

#### **Summary**

Fortune Brands Home & Security, Inc. ("Fortune Brands" the "Company", "we", "us", or "our") determined that tin, tantalum, tungsten and/or gold (the "Conflict Minerals") were necessary for the production or functionality of products manufactured or contracted for manufacture by Fortune Brands in calendar year 2017 and is therefore subject to reporting under Section 1502(b) of the Dodd Frank Act, and Rule 13p-1 under the Securities Exchange Act of 1934. After conducting a reasonable country of origin inquiry ("RCOI") regarding the applicable Conflict Minerals, Fortune Brands had reason to believe that some of the Conflict Minerals may have originated in the Democratic Republic of the Congo or an adjoining country (together, the "Conflict Region") and therefore was subject to the exercise of due diligence as described in this Conflict Minerals Report ("Report"), which is presented to comply with Rule 13p-1 of the Securities Exchange Act of 1934.

#### 1. Company Overview.

We are a leading home and security products company that creates products and services that help fulfill the dreams of homeowners and help people feel more secure. The Company's four segments are: Cabinets, Plumbing, Doors and Security and our brands in 2017 included MasterBrand cabinets, Moen faucets, Therma-Tru entry door systems, Master Lock security products and Sentry Safe personal safes<sup>1</sup>. Fortune Brands does not directly source any Conflict Minerals that may be used in the products it manufactures or contracts to manufacture. Because of the Size of the Company, the complexity of our products and the manufacturing process, and because of the constant evolution of our supply chain, we relied on our direct suppliers to provide us with information on the origin of the Conflict Minerals that are supplied to them from upstream suppliers when conducting our RCOI and our due diligence process.

#### 2. Design of Due Diligence Process.

Fortune Brands designed its due diligence process and methodology to conform in all material respects with the framework of the Organization for Economic Co-Operation and Development Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas (Second Edition, OECD 2013) and the supplements thereto (together, the "OECD Framework").

#### 3. Due Diligence Measures Undertaken.

Fortune Brands undertook the following measures as part of its Conflict Minerals due diligence:

#### A. Established Company Management Systems:

The Company maintained a Conflict Minerals task force headed by the Fortune Brands' legal department and which includes representatives from each business unit. The task force continued to work with the representatives of the Company's businesses to help determine the scope of our due diligence, and the best methods to contact, educate, and survey our suppliers.

We employed our system of supply chain traceability to identify the facilities in our supply chain that may have supplied Conflict Minerals for our 2017 products. This system included identification of suppliers of materials for the 2017 products, outreach to these suppliers, and evaluation of information received from these suppliers (as described further in Part B below). Reports on the progress of the Conflict Minerals program were made to internal company management periodically.

The Company also continued to maintain control systems which include our many standards, policies and procedures designed to provide guidelines on how to conduct business in an ethical and responsible manner and how to report grievances. Please see our Annual Report on Form 10-K for more information on these controls and our Code of Business Conduct and Ethics, Supplier Code of Conduct and other related policies, all of which can be found at <a href="https://www.FBHS.com">www.FBHS.com</a>.

<sup>1</sup> Entities the Company acquired after May 1, 2016 were not included in the due diligence efforts described in this filing because they were acquired fewer than eight months from the beginning of the 2017 reporting period.

#### B. Identify and Assess Risks in the Supply Chain:

Fortune Brands relied on information provided by our suppliers to assist with our due diligence efforts. Specifically, we took the following steps as part of our Conflict Minerals due diligence process:

- Identified our direct suppliers which provided raw materials or components used in the production of those products reasonably believed to contain one or more Conflict Minerals:
- Contacted the identified suppliers and, together with a cover letter explaining the intent and purpose of our request, sent our direct suppliers the Responsible Minerals Initiative's Conflict Minerals Reporting Template (the "Template");
- Requested from those suppliers confirmation of the presence of necessary Conflict Minerals in the raw materials or components they supplied to
  Fortune Brands and information regarding the origin of those minerals. The Template also included questions regarding the suppliers' conflict
  mineral policies, due diligence processes, engagement with their supply chains and a listing of the smelters/refiners used to process the necessary
  Conflict Minerals;
- · Followed-up with unresponsive suppliers to request compliance with our requests for information and documentation; and
- Reviewed, compiled and analyzed the responses for each responding supplier.

#### C. Design and Implement a Strategy to Respond to Identified Risks.

Fortune Brands continued to implement a strategy for complying with the Conflict Minerals reporting requirements, which included establishing a timeline for the sending, collection and analysis of the responses to the Template we gathered as part of our due diligence process. Fortune Brands continued to use a task force to coordinate the process and the collection of data. Members of this task force worked to incorporate insights gained during the 2013-2016 reporting cycles to improve the accuracy of the 2017 due diligence process. This included identifying incomplete or internally inconsistent supplier responses, and working to obtain additional information and accurate responses. Members of internal company management received periodic reports and updates regarding the due diligence process. In addition, the business units had discussions with the Company's legal department throughout the process.

#### D. Carry Out Independent Third-Party Audit of Supply Chain Due Diligence at Identified Points in the Supply Chain.

As a downstream company with no direct relationships with smelters/refiners, we did not directly engage in any third-party audits of smelters or refiners in our supply chain.

#### E. Report on Supply Chain Due Diligence.

A copy of this Conflict Minerals Report can be found on our website at www.FBHS.com

#### 4. Results of Due Diligence Process.

As part of our internal assessment, we identified our global suppliers who were potentially supplying products that contained Conflict Minerals. Each supplier was sent a cover letter, background on the Template and the Template. The vast majority of our suppliers responded. However, many of the responses were incomplete or had inconsistencies with the data reported. All of our segments had products that were subject to our due diligence efforts. For more information about our products, please refer to our Annual Report on Form 10-K for year ended 2017.

Fortune Brands was unable, after exercising the due diligence described in this Conflict Minerals Report, to determine the country of origin of some necessary Conflict Minerals in our 2017 products or whether any of the necessary Conflict Minerals may have directly or indirectly financed or benefited an armed group in the Conflict Region.

Facilities used to process necessary Conflict Minerals and country of origin

As a result of the Company's due diligence process, 328 smelters and refiners were reported to us by our responsive direct suppliers as having potentially processed necessary Conflict Minerals contained in our 2017 products. Of these, 229 are included on the list of facilities that have been verified and found to conform to the Responsible Minerals Assurance Process ("RMAP") assessment protocols. <u>Appendix A</u> sets forth a list of the facilities our suppliers identified, with RMAP-conformant smelters identified as "Conformant." The majority of our direct suppliers provided the information on smelters and refiners at their company level (i.e., representing the smelters and refiners associated with all product offerings of the supplier that contained Conflict Minerals) and did not customize the information for Fortune Brands or the specific materials supplied to the Company. We were therefore unable to confirm that the Conflict Minerals in our 2017 products were necessarily processed by the reported smelters and refiners.

Efforts to determine the mine or location of origin

We have determined that seeking information about the smelters and refiners of Conflict Minerals in our supply chain and utilizing the tools and information developed by industry organizations to assess the due diligence practices of these entities represent the most reasonable efforts we can make to determine the mines or locations of origin of the Conflict Minerals in our supply chains and products.

#### 5. Steps to Improve Due Diligence Efforts in 2018.

The Company intends to continue to take the following steps to improve our Conflict Minerals due diligence process:

- · Continue to utilize internal resources and expertise to ensure uniform implementation of Company Conflict Minerals processes.
- Continue to engage our suppliers that have not fully responded to our requests for Conflict Minerals information, ultimately seeking to obtain complete responses from all of our direct suppliers of materials containing Conflict Minerals, to determine:
  - the use of Conflict Minerals;
  - the country of origin of those Conflict Minerals;
  - the use of scrap or recycled sources of those Conflict Minerals; and
  - the source and chain of custody of those Conflict Minerals there is reason to believe may have originated in the covered countries and that were not obtained from scrap or recycled sources.

### Appendix A

| 36.1                 | Appendix A  |                   |
|----------------------|---|-------------------|
| <u>Metal</u><br>Gold | Smelter Name Abington Reldan Metals, LLC                                | <u>Conformant</u> |
| Gold                 | Advanced Chemical Company   | X                 |
| Gold                 | Aida Chemical Industries Co., Ltd.                                      | X                 |
| Gold                 | Al Etihad Gold LLC  |                   |
| Gold                 | Al Etihad Gold Refinery DMCC  | X                 |
| Gold                 | Allgemeine Gold-und Silberscheideanstalt A.G.                           | X                 |
| Gold                 | Almalyk Mining and Metallurgical Complex (AMMC)                         | X                 |
| Gold                 | AngloGold Ashanti Córrego do Sítio Mineração                            | X                 |
| Gold                 | Argor-Heraeus S.A.  | X                 |
| Gold                 | Asahi Pretec Corp.  | X                 |
| Gold                 | Asahi Refining Canada Ltd.  | X                 |
| Gold                 | Asahi Refining USA Inc.   | X                 |
| Gold                 | Asaka Riken Co., Ltd.   | X                 |
| Gold                 | Atasay Kuyumculuk Sanayi Ve Ticaret A.S.                                |                   |
| Gold                 | AU Traders and Refiners   | X                 |
| Gold                 | AURA-II<br>Aurubis AG   |                   |
| Gold<br>Gold         | Bangalore Refinery  | X                 |
| Gold                 | Bangko Sentral ng Pilipinas (Central Bank of the Philippines)           | v                 |
| Gold                 | Boliden AB  | X<br>X            |
| Gold                 | C. Hafner GmbH + Co. KG   | X<br>X            |
| Gold                 | Caridad   | Α                 |
| Gold                 | CCR Refinery - Glencore Canada Corporation                              | X                 |
| Gold                 | Cendres + Métaux S.A.   | X                 |
| Gold                 | Chimet S.p.A.   | X                 |
| Gold                 | Chugai Mining   |                   |
| Gold                 | Daejin Indus Co., Ltd.  | X                 |
| Gold                 | Daye Non-Ferrous Metals Mining Ltd.                                     |                   |
| Gold                 | Degussa Sonne / Mond Goldhandel GmbH                                    |                   |
| Gold                 | DODUCO GmbH   | X                 |
| Gold                 | Dowa  | X                 |
| Gold                 | DSC (Do Sung Corporation)   | X                 |
| Gold                 | Eco-System Recycling Co., Ltd.  | X                 |
| Gold                 | Elemetal Refining, LLC  |                   |
| Gold                 | Emirates Gold DMCC  | X                 |
| Gold                 | Fidelity Printers and Refiners Ltd.                                     |                   |
| Gold                 | Gansu Seemine Material Hi-Tech Co., Ltd.                                |                   |
| Gold                 | Geib Refining Corporation Gold Refinery of Zijin Mining Group Co., Ltd. | X                 |
| Gold                 |   | X                 |
| Gold<br>Gold         | Great Wall Precious Metals Co., Ltd. of CBPM                            |                   |
| Gold                 | Guangdong Jinding Gold Limited<br>Gujarat Gold Centre                   |                   |
| Gold                 | Guoda Safina High-Tech Environmental Refinery Co., Ltd.                 |                   |
| Gold                 | Hangzhou Fuchunjiang Smelting Co., Ltd.                                 |                   |
| Gold                 | Heimerle + Meule GmbH   | X                 |
| Gold                 | Heraeus Ltd. Hong Kong  | A                 |
| Gold                 | Heraeus Metals Hong Kong Ltd.   | X                 |
| Gold                 | Heraeus Precious Metals GmbH & Co. KG                                   | X                 |
| Gold                 | Hunan Chenzhou Mining Co., Ltd.   |                   |
| Gold                 | HwaSeong CJ Co., Ltd.   |                   |
| Gold                 | Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.         | X                 |
| Gold                 | Ishifuku Metal Industry Co., Ltd.                                       | X                 |
| Gold                 | Istanbul Gold Refinery  | X                 |
| Gold                 | Japan Mint  | X                 |
| Gold                 | Jiangxi Copper Co., Ltd.  | X                 |
| Gold                 | JSC Ekaterinburg Non-Ferrous Metal Processing Plant                     | X                 |
|                      |   |                   |

| Gold         JSC UraleJectormoel         x           Gold         Kaloti Precions Merals         x           Gold         Kaloti Precions Merals         x           Gold         Kazzine         x           Gold         Kenerott Urbt Copper LLC         x           Gold         Kenerott Urbt Copper LLC         x           Gold         KGHM Polska Miedz Spolka Akcyjna         x           Gold         Kojim Achemicals Co., Ltd.         x           Gold         Kojim Achemicals Co., Ltd.         x           Gold         Kygyazalyn SC         x           Gold         Lingbao Gold Co., Ltd.         x           Gold         Lingba  | Metal | Smelter Name  | Conformant |
|---|-------|---|------------|
| Gold         Kazzine         x           Gold         Kazzine         x           Gold         Kemeuru Uhrl Copper LLC         x           Gold         KGHM Polska Miedz Spolka Akcyjna         x           Gold         KGHM Polska Miedz Spolka Akcyjna         x           Gold         KORIM Polska Miedz Spolka Akcyjna         x           Gold         Korgazinec, Lud.         x           Gold         Kyrgyzaltyn JSC         x           Gold         Lingbao Gold Co., Ltd.         x           Gold         Loyang Zijir Yinhui Gold Refinery Co., Ltd.         x           Gold         Mascuda Sangyo Co., Ltd.         x           Gold         Mascuda Technologies S.A.         x           Go   |       | JSC Uralelectromed  |            |
| Gold         Kaznichmysmeling I.C         x           Gold         Kennecot Unik Copper L.C         x           Gold         Keflm Polska Miedz Spolka Akcyjn         x           Gold         KGIM Polska Miedz Spolka Akcyjn         x           Gold         Krygina Chemicals Co., Ind.         x           Gold         Krygianya TSC         x           Gold         L'azurde Company For Jewelry         x           Gold         Hastor Stankassa Sangya Co., Ltd.         x           Gold         Metario         X           Gold         Metario         Texture Stankassa Sangya Co., Ltd.         x           Gold   |       |   | X          |
| Gold         Kencrort Utak Copper I.I.C         x           Gold         KeffM Polska Miede Spolka Akcyjna         x           Gold         KGIM Polska Miede Spolka Akcyjna         x           Gold         KoffM Polska Miede Spolka Akcyjna         x           Gold         Korpa Zinc Co., I.d.         x           Gold         Kyanzal Jin SC         x           Gold         Lingbao Gold Co., I.d.         x           Gold         Lingbao Gold Co., I.d.         x           Gold         Lingbao Impuan Tongbui Refinery Co., Ltd.         x           Gold         Lingbao Impuan Tongbui Refinery Co., Ltd.         x           Gold         Lingbao Impuan Tongbui Refinery Co., Ltd.         x           Gold         Lingbao Tongbui Yana Tongbui Refinery Co., Ltd.         x           Gold         Lingbao Technologies (Singbaop) Ltd.         x           Gold         Mastuda Sangya Co., Ltd.         x           Gold         Mastuda Sangya Co., Ltd.         x           Gold         Mastuda Sangya Co., Ltd.         x           Gold         Melalor Technologies (Singapor) Ptc, Ltd.         x           Gold         Melalor Technologies (Singapor) Solar Ltd.         x           Gold         Melalor Technologies (Singapor) So  |       |   |            |
| Gold         Kennecort Unbla Copper LLC         x           Gold         KGHM Polska Miede Spolka Akcyjna         x           Gold         KGHM Polska Miede Spolka Akcyjna         x           Gold         Korna Zinc Co., Ltd.         x           Gold         Kyczyalny ISC         x           Gold         L'azunde Company For Jeveley         x           Gold         Linghao Gold Co., Ltd.         x           Gold         Linghao Gold Co., Ltd.         x           Gold         Isinghao Gold Co., Ltd.         x           Gold         Marierion         x           Gold         Marierion         x           Gold         Metalor Technologies (Sugapore) Re., Ltd.         x           Gold         Metalor Technologies (Sugap  |       |   |            |
| Gold         KGIMN PollsAM Meide Spollka Akcyjna           Gold         KGIMN PollsAM Meide Spolka Akcyjna           Gold         Kogima Chemicals Co., Ltd.         x           Gold         Kygyszalyn JSC.           Gold         Lizurele Company For Jewelry           Gold         Metabot Technologies (Surbon Company Gold Company Gold Company Company Gold Company Company Gold Company   |       |   |            |
| Gold         KGIMA Polska Miedž Spólka Akcyjna         x           Gold         KORIMA ChemicalS Cop, Ltd.         x           Gold         Kyrazulfor, Los.         x           Gold         L'azurde Company For Jewely         x           Gold         Linghao Gold Co., Ltd.         x           Gold         Linghao Gold Co., Ltd.         x           Gold         L'Ordrhey S.A.         x           Gold         L'Ordrhey S.A.         x           Gold         L'Ordrhey S.A.         x           Gold         Marcino         x           Gold         Marcino         x           Gold         Marcino         x           Gold         Marcino         x           Gold         Marcino Technologies (Hong Kong) Ltd.         x           Gold         Metalor Technologies (Surpapor) Pte., Ltd.         x           Gold         Metalor Technologies (Surpapor) Ltd.         x  |       |   | X          |
| Gold         Kogima Chemicals Co., Ltd.         x           Gold         Kogra Zime Co., Ltd.         x           Gold         Lorande Company For Jewelry           Gold         Linghao Gold Co., Ltd.           Gold         Linghao Gold Co., Ltd.           Gold         Linghao Jinyaan Tonghul Refinery Co., Ltd.           Gold         Materion           Gold         Materion           Gold         Materion           Gold         Materion           Gold         Metalor Technologies (Hong Kong) Ltd.         x           Gold         Metalor Technologies (Sizagopre) Pie, Ltd.         x           Gold         Missobih Material Corporation         <  |       |   |            |
| Gold         Kyrgazliyn JSC         x           Gold         L'azurde Company For Jewelry           Gold         Linghao Gold Co., Ltd           Gold         Linghao Gold Co., Ltd           Gold         Linghao Jinyuan Tonghui Refinery Co., Ltd.           Gold         L'Oriebre S.A.           Gold         Lavyang Zijin Yinhui Gold Refinery Co., Ltd.           Gold         Masterion           Gold         Masterion           Gold         Masterion           Gold         Masterion           Gold         Metalor Technologies (Singapore) Pte., Ltd.           Gold         Metalor Technologies (Singapore) Pte., Ltd.           Gold         Metalor Technologies (Suzhou) Ltd.           Gold         Minute Technologies (Suzhou) Ltd.           Go   |       |   | v          |
| Gold         Karyangarlayn JSC         x           Gold         Langhao Gold Co., Ltd.           Gold         Linghao Gold Materion           Gold         Mastuda Sangyo Co., Ltd.           Gold         Mastuda Sangyo Co., Ltd.           Gold         Mastuda Sangyo Co., Ltd.           Gold         Metalor Technologies (Singapore) Pte., Ltd.           Gold         Missubihi Material Corporation           Gold         Missubihi Material Corporation   |       |   |            |
| Gold         Linghao Gold Co. Ltd.           Gold         Linghao Gold Co. Ltd.           Gold         L'Ordebre S.A.           Gold         L'Ordebre S.A.           Gold         L'Ordebre S.A.           Gold         L'Ordebre S.A.           Gold         Luoyang Zijin Yinhui Gold Refinery Co., Ltd.           Gold         Materion           Gold         Materion           Gold         Metalor Technologies (Singapore) Pte., Ltd.           Gold         Metalor Technologies (Singapore) Pte., Ltd.           Gold         Metalor Technologies (Suzhou) Ltd.           Gold         Metalor U.S.A Refining Corporation           Gold         Metalor U.S.A Refining Corporation           Gold         Metalor U.S.A Refining Corporation           Gold         Missi Mining and Smelting Co., Ltd.           Gold         Missi Mining and Smelting Co., Ltd.           Gold         Mozeria A.           Gold         Nadiv San A. </td <td></td> <td></td> <td></td>  |       |   |            |
| Gold         Lingbao Glo Co., Ltd.           Gold         Lingbao Jinyaan Enghei Refinery Co., Ltd.           Gold         LS-NIKKO Copper Inc.           Gold         Loyang Zijin Yinhui Gold Refinery Co., Ltd.           Gold         Materion           Gold         Materion           Gold         Materion           Gold         Metalor Technologies (Singapore) Pte, Ltd.           Gold         Metalor Technologies (Singapore)           Gold         Metalor Technologies Stance           Gold <td< td=""><td></td><td></td><td>**</td></td<>   |       |   | **         |
| Gold         L'Inghao Jinyuan Tonghuit Refinery Co., Ltd.           Gold         L'Orfebre S.A.         x           Gold         LUoyang Zijin Yinhui Gold Refinery Co., Ltd.         x           Gold         Materion         x           Gold         Matsuda Sangyo Co., Ltd.         x           Gold         Metalor Technologies (Hong Kong) Ltd.         x           Gold         Metalor Technologies (Sungoner) Pre., Ltd.         x           Gold         Metalor Technologies (Sundon) Ltd.         x           Gold         Metalor Technologies Contrologies Contrologies Ltd.         x           Gold         Modeletch So   |       |   |            |
| Gold         L.SNIKKO Copper Inc.         x           Gold         L.SNIKKO Copper Inc.         x           Gold         Materion         x           Gold         Materion         x           Gold         Matsuda Sangyo Co., Ltd.         x           Gold         Metalor Technologies (Singapore) Pte., Ltd.         x           Gold         Metalor Technologies (Singapore) Pte., Ltd.         x           Gold         Metalor Technologies S.A.         x           Gold         Metalor Technologies S.A.         x           Gold         Metalor USA Refining Corporation         x           Gold         Metalor USA Refining Corporation         x           Gold         Metalor USA Refining Corporation         x           Gold         Missui Mining and Smelting Corporation         x           Gold         Moreitach Sdn Bhd         x           Gold         Morris and Watson         x           Gold         Morris and Watson         x           Gold   |       |   |            |
| Gold Materion         x           Gold Materion         x           Gold Materion         x           Gold Materion         x           Gold Materion Echnologies (Hong Kong) Ltd.         x           Gold Materior Technologies (Singapore) Pte, Ltd.         x           Gold Materior Technologies (Suzhou) Ltd.         x           Gold Materior Technologies S.A.         x           Gold Materior G.A.         x           Gold Materior G.A.         x           Gold Materior Materials Corporation         x           Gold Missub Mining and Smelling Co., Ltd.         x           Gold Missub Mining and Smelling Co., Ltd.         x           Gold Missub Mining and Materials Corporation         x           Gold Moris and Watson         x           Gold Moris and Watson         x           Gold Moris and Watson Gold Coast         x     <  |       |   |            |
| Gold old old Materion         X cold Materion         X cold Materion         X cold Metalor Technologies (Hong Kong) Ltd.         X cold Metalor Technologies (Singapore) Pte., Ltd.         X cold Metalor Technologies (Singapore) Pte., Ltd.         X cold Metalor Technologies (Subrapore) Pte., Ltd.         X cold Metalor Technologies (Subrapore) Pte., Ltd.         X cold Metalor Technologies (Subrapore) Pte., Ltd.         X cold Metalor Technologies S.A.         X cold Metalor USA Refining Corporation         X cold Metalor USA Refining Corporation         X cold Mitsubishi Materials Mitsubishi Mitsubishi Materials Mitsubishi Mitsubish | Gold  | LS-NIKKO Copper Inc.  | X          |
| Gold         Matsuda Sangyo Co, Ltd.         x           Gold         Metalor Technologies (Hong Kong) Ltd.         x           Gold         Metalor Technologies (Singapore) Pte, Ltd.         x           Gold         Metalor Technologies (Subnou) Ltd.         x           Gold         Metalor Technologies S.A.         x           Gold         Metalor USA Refining Corporation         x           Gold         Metalor USA Refining Corporation         x           Gold         Mitsubishi Materials Corporation         x           Gold         Mofelech Sin Bhd         x           Gold         Moreis and Watson         x           Gold         Moris and Watson         x           Gold         Nadir Metal Rafineri San. Ve Tic. A.S.         x           Gold <td< td=""><td>Gold</td><td>Luoyang Zijin Yinhui Gold Refinery Co., Ltd.</td><td></td></td<>   | Gold  | Luoyang Zijin Yinhui Gold Refinery Co., Ltd.                                |            |
| Gold         Metalor Technologies (Hong Kong) Ltd.         x           Gold         Metalor Technologies (Suzhon) Ltd.         x           Gold         Metalor Technologies (Suzhon) Ltd.         x           Gold         Metalor Technologies S.A.         x           Gold         Metalor USA Refining Corporation         x           Gold         Metalor Lyda Refining Corporation         x           Gold         Mitsubishi Materials Corporation         x           Gold         Mortia and Watson         Wordelete Sand           Gold         Morris and Watson         X           Gold         Morsian Watson Gold Coast         x           Gold         Moris and Watson Gold Coast         x           Gold         Nation Metal Rafineri San. Ve Tic. A.S.         x           Gold         Nation Material Rafineri San. Ve Tic. A.S.         x           Gold         Navoi Mining and Metallurgical  | Gold  | Materion  | X          |
| Gold         Metalor Technologies (Suzhon) Ltd.         x           Gold         Metalor Technologies Suzhon) Ltd.         x           Gold         Metalor Technologies S.A.         x           Gold         Metalor USA Refining Corporation         x           Gold         Metalingica Meth-Mex Peñoles S.A. De C.V.         x           Gold         Mitsubishi Materials Corporation         x           Gold         Mitsubishi Materials Corporation         x           Gold         Mitsubishi Materials Corporation         x           Gold         Modeltech Sdn Bhd         x           Gold         Morris and Watson         x           Gold         Morris and Watson Gold Coast         x           Gold         Moscow Special Alloys Processing Plant         x           Gold         Moscow Special Alloys Processing Plant         x           Gold         Moscow Special Alloys Processing Plant         x           Gold         Navi Mining and Metallurgical Combinat         x           Gold         Navi Mining and Metallurgical Combinat         x           Gold         Oliver Track and Metallar Special Alloys Processing Plant         x           Gold         Oliver Track and Metallar Special Alloys Processing Plant         x  |       |   | X          |
| Gold         Metalor Technologies (Suzhou) Ltd.         x           Gold         Metalor Technologies S.A.         x           Gold         Metalor USA Refining Corporation         x           Gold         Metalorigica Met-Mex Peñoles S.A. De C.V.         x           Gold         Mitsuis Mining and Smelting Co., Ltd.         x           Gold         Mitsui Mining and Smelting Co., Ltd.         x           Gold         Modeltech Soln Bhd         **           Gold         Morris and Watson         **           Gold         Morris and Watson         **           Gold         Moscow Special Alloys Processing Plant         x           Gold         Nacir Metal Rafineri San. Ve Tic. A.S.         x           Gold         Navoi Mining and Metallurgical Combinat         x           Gold         Navoi Mining and Metallurgical Combinat         x           Gold         Olyses Osterreichische Gold- und Silber-Scheideanstalt GmbH         x           Gold         Olyses Osterreichische Gold- und Silber-Scheideanstalt GmbH         x           Gold         Olyses Osterreichische Gold- und Silber-Scheideanstalt GmbH         x           Gold         Olyse Tybe Gold was Keal Industry Co., Ltd.         x           Gold         PAMP S.A.         x <td></td> <td></td> <td>X</td>   |       |   | X          |
| Gold         Metalor USA Refining Corporation         x           Gold         Metalufugica Met-Mex Peñoles S.A. De C.V.         x           Gold         Mitsubishi Materials Corporation         x           Gold         Mitsubishi Materials Corporation         x           Gold         Misubishi Materials Corporation         x           Gold         MMTC-PAMP India Pvt., Ltd.         x           Gold         Modeltech Sdn Bhd  |       |   | X          |
| Gold         Metalor USA Refining Corporation         x           Gold         Mitsubishi Materials Corporation         x           Gold         Mitsubishi Materials Corporation         x           Gold         Mitsub Mining and Smelting Co., Ltd.         x           Gold         Modeltech Sdn Bhd         x           Gold         Modeltech Sdn Bhd         x           Gold         Morris and Watson         Gold Morris and Watson Gold Coast         x           Gold         Moscow Special Alloys Processing Plant         x           Gold         Nadir Metal Rafineri San. Ve Tic. A.S.         x           Gold         Nadir Metal Rafineri San. Ve Tic. A.S.         x           Gold         Navoi Mining and Metallurgical Combinat         x           Gold         Olissa Österreichische Gold- und Silber-Scheideanstalt GmbH         x           Gold         Olissa Österreichische Gold- und Silber-Scheideanstalt GmbH         x           Gold         Olisc Novosibirsk Refinery         x           Gold         Olisc Novosibirsk Refinery         x           Gold         PAMP S.A.         x           Gold         Penglal Pengang Gold Industry Co., Ltd.         x           Gold         Prioksky Plant of Non-Ferrous Metals         x   |       |   | X          |
| Gold         Metalúrgica Met-Mer Peñoles S.A. De C.V.           Gold         Mitsubishi Materials Corporation         x           Gold         Mitsubishi Materials Corporation         x           Gold         MMTC-PAMP India Pvt., Ltd.         x           Gold         MMTC-PAMP India Pvt., Ltd.         x           Gold         Modeltech Sdn Bhd            Gold         Morris and Watson            Gold         Morris and Watson Gold Coast            Gold         Nadir Metal Rafineri San. Ve Tic. A.S.         x           Gold         Nadir Metal Rafineri San. Ve Tic. A.S.         x           Gold         Navoi Mining and Metallurgical Combinat         x           Gold         Olura Precious Metal Industry Co., Ltd.         x           Gold         Ogussa Osterreichische Gold- und Silber-Scheideanstalt GmbH         x           Gold         Olura Precious Metal Industry Co., Ltd.         x           Gold         Olura Precious Metal Industry Co., Ltd.         x           Gold         OJSC Novosibirsk Refinery         x           Gold         Penglai Pengang Gold Industry Co., Ltd.         x           Gold         Penglai Pengang Gold Industry Co., Ltd.         x           Gold <t< td=""><td></td><td></td><td></td></t<>  |       |   |            |
| Gold         Mitsubishi Materials Corporation         x           Gold         Mitsui Mining and Smelting Co., Ltd.         x           Gold         Modeltech Sch Bhd         x           Gold         Modris and Watson         x           Gold         Morris and Watson Gold Coast         x           Gold         Moscow Special Alloys Processing Plant         x           Gold         Masim Metal Rafineri San. Ve Tic. A.S.         x           Gold         Navoi Mining and Metallurgical Combina         x           Gold         Nihon Material Co., Ltd.         x           Gold         Ohura Precious Metal Industry Co., Ltd.         x           Gold         Olyscs Oxosibisk Refinery         x           Gold         OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)         x           Gold         OJSC Novosibisk Refinery         x           Gold         Pease & Curren         x           Gold         Pease & Curren         x           Gold         Prioksky Plant of Non-Ferrous Metals         x           Gold         Prioksky Plant of Non-Ferrous Metals         x           Gold         Prioksky Plant of Non-Ferrous Metals         x           Gold         Remondis Argentia B.V   |       |   |            |
| Gold         Mitsui Mining and Smelting Co., Ltd.         x           Gold         MMTC-PAMP India Pvt., Ltd.         x           Gold         Modeltech Sdn Bhd            Gold         Morris and Watson            Gold         Morris and Watson Gold Coast            Gold         Moscow Special Alloys Processing Plant         x           Gold         Nadir Metal Rafineri San. Ve Tic. A.S.         x           Gold         Natir Metal Rafineri San. Ve Tic. A.S.         x           Gold         Nihon Material Co., Ltd.         x           Gold         Nihon Material Co., Ltd.         x           Gold         Ojusza Osterreichische Gold- und Silber-Scheideanstalt GmbH         x           Gold         Ojusza Precious Metal Industry Co., Ltd.         x           Gold         Ojusza Precious Metal Industry Co., Ltd.         x           Gold         OJSC Novosibirsk Refinery         x           Gold         Penglai Penggang Gold Industry Co., Ltd.         x           Gol  |       |   |            |
| Gold         MMTC-PAMP India Pvt., Ltd.         x           Gold         Modeltech Sdn Bhd         Cold           Gold         Morris and Watson         Cold           Gold         Morris and Watson Gold Coast         x           Gold         Moscow Special Alloys Processing Plant         x           Gold         Nadir Metal Rafineri San. Ve Tic. A.Ş.         x           Gold         Nadir Metal Rafineri San. Ve Tic. A.Ş.         x           Gold         Nihon Material Co., Ltd.         x           Gold         Ohura Precious Metal Industry Co., Ltd.         x           Gold         Obusa Precious Metal Industry Co., Ltd.         x           Gold         OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)         x           Gold         OJSC Novosibirsk Refinery         x           Gold         Pease & Curren         x           Gold         Penglai Penggang Gold Industry Co., Ltd.         x           Gold         Prioksky Plant of Non-Ferrous Metals         x           Gold         PT Aneka Tambang (Persero) Tbk         x           Gold         Remondis Argentia B.V.         x           Gold         Republic Metals Corporation         x           Gold         Sabin Metal Corp.<  |       |   |            |
| Gold         Modeltech Sdn Bhd           Gold         Morris and Watson           Gold         Morson Watson Gold Coast           Gold         Moscow Special Alloys Processing Plant         x           Gold         Nadir Metal Rafineri San. Ve Tic. A.S.         x           Gold         Navoi Mining and Metallurgical Combinat         x           Gold         Nihon Material Co., Ltd.         x           Gold         Ojusa Osterreichische Gold- und Silber-Scheideanstalt GmbH         x           Gold         Ojusa Precious Metal Industry Co., Ltd.         x           Gold         OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)         x           Gold         OJSC Novosibirsk Refinery         x           Gold         Penglai Pengagang Gold Industry Co., Ltd.         x           Gold         Penglai Penggang Gold Industry Co., Ltd.         x           Gold         Penglai Penggang Gold Industry Co., Ltd.         x           Gold         Penglai Penggang Gold Industry Co., Ltd.         x           Gold         Proficksky Plant of Non-Ferrous Metals         x           Gold         PY Précinox S.A.         x           Gold         Remondis Argentia B.V.         x           Gold         Republic Metals Corpora   |       |   |            |
| Gold         Morris and Watson           Gold         Morris and Watson Gold Coast           Gold         Moscow Special Alloys Processing Plant         x           Gold         Nadir Metal Rafineri San. Ve Tic. A.Ş.         x           Gold         Navoi Mining and Metallurgical Combinat         **           Gold         Nihon Material Co., Ltd.         x           Gold         Ögussa Österreichische Gold- und Silber-Scheideanstalt GmbH         x           Gold         Olsc "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)         x           Gold         OJSC "Novosibirsk Refinery         x           Gold         PAMP S.A.         x           Gold         Peagle Penggang Gold Industry Co., Ltd.         x           Gold         Penglai Penggang Gold Industry Co., Ltd.         x           Gold         Prioksky Plant of Non-Ferrous Metals         x           Gold         Remondis Argentia B.V         x           Gold         Remondis Argentia B.V         x           Gold         Republic Metals   |       |   | X          |
| Gold         Morris and Watson Gold Coast           Gold         Moscow Special Alloys Processing Plant         x           Gold         Nadir Metal Rafineri San. Ve Tic. A.Ş.         x           Gold         Navoi Mining and Metallurgical Combinat         x           Gold         Nihon Material Co., Ltd.         x           Gold         Ögussa Österreichische Gold- und Silber-Scheideanstalt GmbH         x           Gold         Ohura Precious Metal Industry Co., Ltd.         x           Gold         OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)         x           Gold         OJSC Novosibirsk Refinery         x           Gold         PAMP S.A.         x           Gold         Pease & Curren         x           Gold         Proksky Plant of Non-Ferrous Metals         x           Gold         Proksky Plant of Non-Ferrous Metals         x           Gold         PX Précinox S.A.         x           Gold         PX Précinox S.A.         x           Gold         Rand Refinery (Pty) Ltd.         x           Gold         Republic Metals Corporation         x           Gold         Republic Metals Corporation         x           Gold         SAFINA A.S.         x  |       |   |            |
| Gold         Moscow Special Alloys Processing Plant         x           Gold         Nadir Metal Rafineri San. Ve Tic. A.Ş.         x           Gold         Navoi Mining and Metallurgical Combinat         x           Gold         Nihon Material Co., Ltd.         x           Gold         Ögusa Österreichische Gold- und Silber-Scheideanstalt GmbH         x           Gold         Ohura Precious Metal Industry Co., Ltd.         x           Gold         OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)         x           Gold         OJSC Novosibirsk Refinery         x           Gold         PAMP S.A.         x           Gold         PAMP S.A.         x           Gold         Pease & Curren         x           Gold         Penglai Penggang Gold Industry Co., Ltd.         x           Gold         Prioksky Plant of Non-Ferrous Metals         x           Gold         Prioksky Plant of Non-Ferrous Metals         x           Gold         Prioksky Plant of Non-Ferrous Metals         x           Gold         PX Précinox S.A.         x           Gold         Rend Refinery (Pty) Ltd.         x           Gold         Republic Metals Corporation         x           Gold         Sabin Metal Co  |       |   |            |
| Gold         Nadir Metal Rafineri San. Ve Tic. A.Ş.         x           Gold         Navoi Mining and Metallurgical Combinat         x           Gold         Nihon Material Co., Ltd.         x           Gold         Ogussa Osterreichische Gold- und Silber-Scheideanstalt GmbH         x           Gold         Olbura Precious Metal Industry Co., Ltd.         x           Gold         OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)         x           Gold         OJSC Novosibirsk Refinery         x           Gold         PAMP S.A.         x           Gold         Pease & Curren         x           Gold         Penglai Penggang Gold Industry Co., Ltd.         x           Gold         Prioksky Plant of Non-Ferrous Metals         x           Gold         PX Précinox S.A.         x           Gold         PX Précinox S.A.         x           Gold         Remondis Argentia B.V.         x           Gold         Republic Metals Corporation         x           Gold         Royal Canadian Mint         x           Gold         Sabin Metal Corp.         x           Gold         Sabin Metal Corp.         x           Gold         Samyon Metals Corp.         x   |       |   | x          |
| Gold         Navoi Mining and Metallurgical Combinat           Gold         Nihon Material Co., Ltd.         x           Gold         Ögussa Österreichische Gold- und Silber-Scheideanstalt GmbH         x           Gold         Ohura Precious Metal Industry Co., Ltd.         x           Gold         OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)         x           Gold         PAMP S.A.         x           Gold         Pease & Curren         x           Gold         Penglai Penggang Gold Industry Co., Ltd.         x           Gold         Prioksky Plant of Non-Ferrous Metals         x           Gold         PT Aneka Tambang (Persero) Tbk         x           Gold         PX Précinox S.A.         x           Gold         Remondis Argentia B.V.         x           Gold         Republic Metals Corporation         x           Gold         Royal Canadian Mint         x           Gold         Sabin Metal Corp.         x           Gold         Sair Refinery         x           Gold         Sair Refinery         x           Gold         Sair Refinery         x           Gold         Sair Refinery         x           Gold         Samduck Precious Met   |       |   |            |
| Gold         Nihon Material Co., Ltd.         x           Gold         Ögussa Österreichische Gold- und Silber-Scheideanstalt GmbH         x           Gold         Ohura Precious Metal Industry Co., Ltd.         x           Gold         OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)         x           Gold         OJSC Novosibirsk Refinery         x           Gold         PAMP S.A.         x           Gold         Peanglai Penggang Gold Industry Co., Ltd.         x           Gold         Penglai Penggang Gold Industry Co., Ltd.         x           Gold         Prioksky Plant of Non-Ferrous Metals         x           Gold         PX Précinox S.A.         x           Gold         PX Précinox S.A.         x           Gold         Remondis Argentia B.V.         x           Gold         Republic Metals Corporation         x           Gold         Royal Canadian Mint         x           Gold         Sabin Metal Corp.         x           Gold         Sali Refinery         x           Gold         Sair Refinery         x           Gold         Sair Refinery         x           Gold         Sair Refinery         x           Gold         Sa  |       |   |            |
| Gold         Ögussa Österreichische Gold- und Silber-Scheideanstalt GmbH         x           Gold         Ohura Precious Metal Industry Co., Ltd.         x           Gold         OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)         x           Gold         OJSC Novosibirsk Refinery         x           Gold         PAMP S.A.         x           Gold         Pease & Curren         x           Gold         Penglai Penggang Gold Industry Co., Ltd.         x           Gold         Prioksky Plant of Non-Ferrous Metals         x           Gold         Pri Aneka Tambang (Persero) Tbk         x           Gold         PX Précinox S.A.         x           Gold         Rand Refinery (Pty) Ltd.         x           Gold         Remondis Argentia B.V.         x           Gold         Republic Metals Corporation         x           Gold         SAAMP         x           Gold         SAAMP         x           Gold         SaFINA A.S.         x           Gold         Sai Refinery         x           Gold         Samduck Precious Metals         x           Gold         Samduck Precious Metals         x           Gold         Samoun Metals Corp. <td></td> <td></td> <td>X</td>   |       |   | X          |
| Gold         OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)         x           Gold         OJSC Novosibirsk Refinery         x           Gold         PAMP S.A.         x           Gold         Pease & Curren         **           Gold         Penglai Penggang Gold Industry Co., Ltd.         **           Gold         Prioksky Plant of Non-Ferrous Metals         x           Gold         PT Aneka Tambang (Persero) Tbk         x           Gold         PX Précinox S.A.         x           Gold         Rand Refinery (Pty) Ltd.         x           Gold         Remondis Argentia B.V.         x           Gold         Republic Metals Corporation         x           Gold         Royal Canadian Mint         x           Gold         SAAMP         x           Gold         Sabin Metal Corp.         x           Gold         Sal Refinery         x           Gold         Sanduck Precious Metals         x           Gold         Samuen Metals Corp.         x           Gold         Samwon Metals Corp.         x           Gold         SAXONIA Edelmetalle GmbH         x   | Gold  |   | X          |
| GoldOJSC Novosibirsk RefineryxGoldPAMP S.A.xGoldPease & CurrenFease & CurrenGoldPenglai Penggang Gold Industry Co., Ltd.xGoldPrioksky Plant of Non-Ferrous MetalsxGoldPT Aneka Tambang (Persero) TbkxGoldPX Précinox S.A.xGoldRand Refinery (Pty) Ltd.xGoldRemondis Argentia B.V.xGoldRepublic Metals CorporationxGoldRoyal Canadian MintxGoldSAAMPxGoldSabin Metal Corp.xGoldSai RefineryxGoldSai RefineryxGoldSamduck Precious MetalsxGoldSamwon Metals Corp.xGoldSamwon Metals Corp.xGoldSAXONIA Edelmetalle GmbHx   | Gold  | Ohura Precious Metal Industry Co., Ltd.                                     | X          |
| GoldPAMP S.A.xGoldPease & CurrenGoldPenglai Penggang Gold Industry Co., Ltd.GoldPrioksky Plant of Non-Ferrous MetalsxGoldPT Aneka Tambang (Persero) TbkxGoldPX Précinox S.A.xGoldRand Refinery (Pty) Ltd.xGoldRepublic Metals CorporationxGoldRoyal Canadian MintxGoldSAAMPxGoldSAFINA A.S.xGoldSain Metal Corp.xGoldSamwon Metals Corp.xGoldSamwon Metals Corp.xGoldSamwon Metals Corp.xGoldSAXONIA Edelmetalle GmbHx  |       | OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet) | X          |
| GoldPease & CurrenGoldPenglai Penggang Gold Industry Co., Ltd.GoldPrioksky Plant of Non-Ferrous MetalsxGoldPT Aneka Tambang (Persero) TbkxGoldPX Précinox S.A.xGoldRand Refinery (Pty) Ltd.xGoldRemondis Argentia B.V.xGoldRepublic Metals CorporationxGoldRoyal Canadian MintxGoldSAAMPxGoldSabin Metal Corp.xGoldSAFINA A.S.xGoldSai RefineryxGoldSamduck Precious MetalsxGoldSamwon Metals Corp.xGoldSAXONIA Edelmetalle GmbHx   |       | J   | X          |
| GoldPenglai Penggang Gold Industry Co., Ltd.GoldPrioksky Plant of Non-Ferrous MetalsxGoldPT Aneka Tambang (Persero) TbkxGoldPX Précinox S.A.xGoldRand Refinery (Pty) Ltd.xGoldRemondis Argentia B.V.xGoldRepublic Metals CorporationxGoldRoyal Canadian MintxGoldSAAMPxGoldSabin Metal Corp.xGoldSaFINA A.S.xGoldSai RefineryxGoldSamduck Precious MetalsxGoldSamwon Metals Corp.xGoldSamwon Metals Corp.xGoldSAXONIA Edelmetalle GmbHx   |       |   | X          |
| Gold Prioksky Plant of Non-Ferrous Metals x Gold PT Aneka Tambang (Persero) Tbk x Gold PX Précinox S.A. x Gold Rand Refinery (Pty) Ltd. x Gold Remondis Argentia B.V. Gold Republic Metals Corporation x Gold Royal Canadian Mint x Gold SAAMP x Gold Sabin Metal Corp. Gold SaFINA A.S. x Gold Sair Refinery Gold Sair Refinery Gold Samduck Precious Metals x Gold Samwon Metals Corp. Gold Samwon Metals Corp.   |       |   |            |
| GoldPT Aneka Tambang (Persero) TbkxGoldPX Précinox S.A.xGoldRand Refinery (Pty) Ltd.xGoldRemondis Argentia B.V.xGoldRepublic Metals CorporationxGoldRoyal Canadian MintxGoldSAAMPxGoldSabin Metal Corp.xGoldSAFINA A.S.xGoldSai RefineryxGoldSamduck Precious MetalsxGoldSamwon Metals Corp.xGoldSAXONIA Edelmetalle GmbHx  |       |   |            |
| Gold Rand Refinery (Pty) Ltd. x Gold Remondis Argentia B.V. Gold Republic Metals Corporation x Gold Royal Canadian Mint x Gold SAAMP x Gold Sabin Metal Corp. Gold SAFINA A.S. x Gold Sai Refinery Gold Sai Refinery Gold Samduck Precious Metals Samwon Metals Corp. Gold Samwon Metals Corp. Gold Samwon Metals Corp. Gold Samwon Metals Corp. Gold SAXONIA Edelmetalle GmbH  |       |   |            |
| GoldRand Refinery (Pty) Ltd.xGoldRemondis Argentia B.V.xGoldRepublic Metals CorporationxGoldRoyal Canadian MintxGoldSAAMPxGoldSabin Metal Corp.xGoldSAFINA A.S.xGoldSai RefineryxGoldSamduck Precious MetalsxGoldSamwon Metals Corp.xGoldSAXONIA Edelmetalle GmbHx  |       |   |            |
| Gold Remondis Argentia B.V. Gold Republic Metals Corporation x Gold Royal Canadian Mint x Gold SAAMP x Gold Sabin Metal Corp. Gold SAFINA A.S. x Gold Sai Refinery Gold Samduck Precious Metals x Gold Samwon Metals Corp. Gold SAXONIA Edelmetalle GmbH  |       |   |            |
| GoldRepublic Metals CorporationxGoldRoyal Canadian MintxGoldSAAMPxGoldSabin Metal Corp.xGoldSAFINA A.S.xGoldSai RefineryxGoldSamduck Precious MetalsxGoldSamwon Metals Corp.xGoldSAXONIA Edelmetalle GmbHx  |       |   | X          |
| GoldRoyal Canadian MintxGoldSAAMPxGoldSabin Metal Corp.xGoldSAFINA A.S.xGoldSai RefineryxGoldSamduck Precious MetalsxGoldSamwon Metals Corp.xGoldSAXONIA Edelmetalle GmbHx  |       |   | v          |
| GoldSAAMPxGoldSabin Metal Corp.xGoldSAFINA A.S.xGoldSai RefineryxGoldSamduck Precious MetalsxGoldSamwon Metals Corp.xGoldSAXONIA Edelmetalle GmbHx  |       | •   |            |
| GoldSabin Metal Corp.GoldSAFINA A.S.xGoldSai RefineryxGoldSamduck Precious MetalsxGoldSamwon Metals Corp.xGoldSAXONIA Edelmetalle GmbHx   |       |   |            |
| Gold SAFINA A.S. x Gold Sai Refinery Gold Samduck Precious Metals Gold Samwon Metals Corp. Gold SAXONIA Edelmetalle GmbH x  |       |   | A          |
| Gold Sai Refinery Gold Samduck Precious Metals Gold Samwon Metals Corp. Gold SAXONIA Edelmetalle GmbH x   |       | -   | X          |
| Gold Samduck Precious Metals x Gold Samwon Metals Corp. Gold SAXONIA Edelmetalle GmbH x   |       |   |            |
| Gold Samwon Metals Corp. Gold SAXONIA Edelmetalle GmbH x  |       |   | X          |
| Gold SAXONIA Edelmetalle GmbH x   |       | Samwon Metals Corp.   |            |
| Gold Schone Edelmetaal B.V.   |       |   | X          |
|   | Gold  | Schone Edelmetaal B.V.  |            |
| Gold SEMPSA Joyería Platería S.A. x   | Cald  | SEMPSA Jovería Platería S A   | X          |

| P                    |   |            |
|----------------------|---|------------|
| Metal                | Smelter Name  | Conformant |
| Gold<br>Gold         | Shandong Tiancheng Biological Gold Industrial Co., Ltd. Shandong Zhaojin Gold & Silver Refinery Co., Ltd. | <b>V</b>   |
| Gold                 | Sichuan Tianze Precious Metals Co., Ltd.  | X<br>X     |
| Gold                 | Singway Technology Co., Ltd.  | X          |
| Gold                 | So Accurate Group, Inc.   | A          |
| Gold                 | SOE Shyolkovsky Factory of Secondary Precious Metals  | X          |
| Gold                 | Solar Applied Materials Technology Corp.  | X          |
| Gold                 | Sudan Gold Refinery   |            |
| Gold                 | Sumitomo Metal Mining Co., Ltd.   | X          |
| Gold                 | SungEel HiTech  | X          |
| Gold                 | T.C.A S.p.A   | X          |
| Gold                 | Tanaka Kikinzoku Kogyo K.K.   | X          |
| Gold                 | The Refinery of Shandong Gold Mining Co., Ltd.  | X          |
| Gold                 | Tokuriki Honten Co., Ltd.   | X          |
| Gold                 | Tongling Nonferrous Metals Group Co., Ltd.  |            |
| Gold                 | Tony Goetz NV   |            |
| Gold                 | TOO Tau-Ken-Altyn   |            |
| Gold                 | Torecom Umicana Pracil Ltda   | X          |
| Gold<br>Gold         | Umicore Brasil Ltda.<br>Umicore Precious Metals Thailand  | X          |
| Gold                 | Umicore S.A. Business Unit Precious Metals Refining   | X<br>X     |
| Gold                 | United Precious Metal Refining, Inc.  | X          |
| Gold                 | Universal Precious Metals Refining Zambia   | A          |
| Gold                 | Valcambi S.A.   | X          |
| Gold                 | Western Australian Mint trading as The Perth Mint   | X          |
| Gold                 | WIELAND Edelmetalle GmbH  | X          |
| Gold                 | Yamamoto Precious Metal Co., Ltd.   |            |
| Gold                 | Yokohama Metal Co., Ltd.  | X          |
| Gold                 | Yunnan Copper Industry Co., Ltd.  |            |
| Gold                 | Zhongyuan Gold Smelter of Zhongjin Gold Corporation   | X          |
| Gold                 | Zijin Mining Group Co., Ltd. Gold Refinery  |            |
| Tantalum             | Changsha South Tantalum Niobium Co., Ltd.   | X          |
| Tantalum             | Conghua Tantalum and Niobium Smeltry  |            |
| Tantalum             | D Block Metals, LLC   | X          |
| Tantalum             | Duoluoshan  |            |
| Tantalum             | Exotech Inc.  | X          |
| Tantalum<br>Tantalum | F&X Electro-Materials Ltd. FIR Metals & Resource Ltd.   | X          |
| Tantalum             | Global Advanced Metals Aizu   | X          |
| Tantalum             | Global Advanced Metals Boyertown  | X<br>X     |
| Tantalum             | Guangdong Zhiyuan New Material Co., Ltd.  | X          |
| Tantalum             | H.C. Starck Co., Ltd.   | X          |
| Tantalum             | H.C. Starck GmbH Goslar   |            |
| Tantalum             | H.C. Starck GmbH Laufenburg   |            |
| Tantalum             | H.C. Starck Hermsdorf GmbH  | X          |
| Tantalum             | H.C. Starck Inc.  | X          |
| Tantalum             | H.C. Starck Ltd.  | X          |
| Tantalum             | H.C. Starck Smelting GmbH & Co. KG  | X          |
| Tantalum             | H.C. Starck Tantalum and Niobium GmbH   | X          |
| Tantalum             | Hengyang King Xing Lifeng New Materials Co., Ltd.   | X          |
| Tantalum             | Hi-Temp Specialty Metals, Inc.  |            |
| Tantalum             | Jiangxi Dinghai Tantalum & Niobium Co., Ltd.  | X          |
| Tantalum             | Jiangxi Tuohong New Raw Material  | X          |
| Tantalum             | JiuJiang JinXin Nonferrous Metals Co., Ltd.   | X          |
| Tantalum             | Jiujiang Nonferrous Metals Smelting Company Limited   |            |
| Tantalum             | Jiujiang Tanbre Co., Ltd.   | X          |
| Tantalum<br>Tantalum | Jiujiang Zhongao Tantalum & Niobium Co., Ltd.<br>KEMET Blue Metals  | X          |
| ıdılldıUlll          | KEWE 1 Dide Weidis  | X          |

| Totalaum         KEMET Blue Powder         x           Totalaum         King- Fan Tantalum Industry Lid.         x           Tonalaum         LSM Brasil S.A.         x           Tonalaum         Mineraco Tabora S.A.         x           Tonalaum         Mineraco Tabora S.A.         x           Tonalaum         Missian Mining and Smelting Co. Ltd.         x           Tonalaum         Ninstan Mining and Smelting Co. Ltd.         x           Tonalaum         Ninstan Mining and Smelting Co. Ltd.         x           Tonalaum         Ninstan A.S.         x           Tonalaum         Plansee SE Reure         x           Tonalaum         SE Reure         x           Tonalaum         SE Reure         x           Tonalaum         SE Reure         x           Tonalaum         Totalaum   | <u>Metal</u> | Smelter Name  | Conformant |
|---|--------------|---|------------|
| Inanalum         LSM Brasall SA, 1           Inanalum         Meallargical Products India Pvt, Itd.           Innalum         Mineraco Tabore SA, 2           Innalum         Misus Mining and Smelting Co, Itd.           Innalum         Misus Mining and Smelting Co, Itd.           Innalum         Misuga Orient rotalum Industry Co., Itd.           Innalum         Ningato Orient rotalum Industry Co., Itd.           Innalum         Plansee SE Reute           Innalum         Plansee SE Reute           Innalum         Resind Industria e Consectio Inda.           Innalum         Resind Industria e Consectio Inda.           Innalum         Resind Industria e Consectio Inda.           Innalum         Tain Industria e Industria e Consectio Inda.           Innalum         Tain Industria e Industria e Consection Industria e Industria |              |   |            |
| Tantalum         Metalugical Products India Pvt, Ltd.         x           Tantalum         Mitsus Mining and Smeling Co. Ltd.         x           Tantalum         Mitsus Mining and Smeling Co. Ltd.         x           Tantalum         Ningxio Orient Tantalum Industry Co., Ltd.         x           Tantalum         Ningxio Orient Tantalum Industry Co., Ltd.         x           Tantalum         Plansee SE Liczen           Tantalum         Plansee SE Liczen           Tantalum         Resind Industria e Comercio Ltda.         x           Tantalum         Resind Industria e Comercio Ltda.         x           Tantalum         Resind Industria e Comercio Ltda.         x           Tantalum         Taki Chemical Co., Ltd.         x           Tantalum         Taki Chemical Co., Ltd.         x           Tantalum         Tantalum Silkania Magnesian Works OAO         x           Tantalum         Taki Chemical Co., Ltd.         x           Tantalum         Taki Chemical Co., Ltd.         x           Tantalum         Taki Chemical Co., Ltd.         x           Tantalum         Yikami Ji Yang Rae Metal Co., Ltd.         x           Tantalum         Yikami Ji Yang Rae Metal Co., Ltd.         x           Tantalum         Yikami Ji Yang Rae  |              |   |            |
| Tantalum         Mineracio Taboca S.A.         x           Tantalum         Missul Mining and Smelting Co. Ltd.         x           Tantalum         Missul Mining and Smelting Co. Ltd.         x           Tantalum         Ningsia Orient Tantalum Industry Co., Ltd.         x           Tantalum         Plansee SE. Reutte         x           Tantalum         Plansee SE. Reutte         x           Tantalum         Resind Industria e Comercio Ltda.         x           Tantalum         Resind Industria e Comercio Ltda.         x           Tantalum         Solkiamsk Magnesium Works OAO         x           Tantalum         Talk Chemical Co., Ltd.         x           Tantalum         Talk Chemical Co., Ltd.         x           Tantalum         Talk Chemical Co., Ltd.         x           Tantalum         Tina Change Co., Ltd.         x           Tantalum         Yichun In Yang Rare Metal Co., Ltd.         x           Tantalum         Yichun In Yang Rare Metal Co., Ltd.         x           Tantalum         Yichun In Yang Rare Metal Co., Ltd.         x           Tantalum         Yichun In Yang Rare Metal Co., Ltd.         x           Tantalum         Yichun In Yang Rare Metal Co., Ltd.         x           Tantalum   |              |   | X          |
| Inatalum         Missa Mining and Smelting Co. Lid.         x           Inatalum         Molycorp Silmer A.S.         x           Tantalum         Ningxia Orient Tantalum Industry Co., Lid.         x           Tantalum         Plansee SE Liezen         x           Tantalum         Plansee SE Liezen         x           Tantalum         Resind Industria e Comercio Lida.         x           Tantalum         Talla Liman Smelny Co., Lid.         x           Tantalum         Tale Chemical Co., Lid.         x           Tantalum         Tale Chemical Co., Lid.         x           Tantalum         Transact, Inc.         x           Tantalum         Transact, Inc.         x           Tantalum         Transact, Inc.         x           Tantalum         Tale Median         x           Tantalum         Tale Chemical Co., Lid.         x           Tantalum         Yikhmi in Saga Rer Medial Co., Lid.         x           Tantalum         An Thai Minerals Co., Lid.         x  |              |   |            |
| Tanalaum         Molycapy Silmen A.S.         x           Tanalaum         Ningxia Orient Tanalaum Industry Co., Ltd.         x           Tanalaum         Plansees EL Liezen           Tanalaum         Plansees ER Reutre         x           Tanalaum         Resind Industria e Comercio Ltd.         x           Tanalaum         Resind Industria e Comercio Ltd.         x           Tanalaum         Resind Industria e Comercio Ltd.         x           Tanalaum         Solikamsk Magnesium Works OAO         x           Tanalaum         Tale Lemenia Smeller Co., Ltd.         x           Tanalaum         Telex Merals         x           Tanalaum         Tale Lemenia Co., Ltd.         x           Tanalaum         Tanalaum Smeller Genetic Material Co., Ltd.         x           Tanalaum         Victum Jin Yang Bare Metal Co., Ltd.         x           Tanalaum         Yichum Jin Yang Bare Metal Co., Ltd.         x           Tanalaum         Tanalaum         Yichum Jin Yang Bare Metal Co., Ltd.         x           Tanalaum         Tanalaum         Yichum Jin Yang Bare Metal Co., Ltd.         x           Tanalaum         Tanalaum         Yichum Jin Yang Bare Metal Co., Ltd.         x           Tanalaum         An Thai Minarak Co., Ltd.   |              |   |            |
| Inatalum         Ningxia Orient Tantalum Industry Co., Ltd.         x           Tantalum         Planses SE Liezen           Inatalum         Plansee SE Liezen           Tantalum         Quantum Clean         x           Tantalum         Quantum Clean         x           Tantalum         Resind Indistria e Comercio Ltda.         x           Tantalum         RFH Tantalum Smeltry Co., Ltd.         x           Tantalum         Také Chemical Co., Ltd.         x           Tantalum         The Meral Meral Marken Electronic Material Co., Ltd.         x           Tantalum         Yichun Jin Yeng Rare Metal Co., Ltd.         x           Tantalum         Yichun Jin Yeng Rare Metal Co., Ltd.         x           Tantalum         Alpha         x           Tantalum         Jubac Chemeted Carbicé Group Co., Ltd.         x           Tin         Alpha         x           Tantalum         An Thai Minerals Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Guarri  |              |   | X          |
| Inatialum         NPA Silmet AS           Inatialum         Plansee SE Reute           Inatialum         Plansee SE Reute           Inatialum         Resind Industria e Comercio Ltda.         x           Tantalum         Resind Industria e Comercio Ltda.         x           Tantalum         Resind Industria e Comercio Ltd.         x           Tantalum         Tobi Chemical Cox, Ltd.         x           Tantalum         Tobi Chemical Cox, Ltd.         x           Tantalum         Telex Merals         x           Tantalum         Ulba Metallurgical Plant ISC         x           Tantalum         Ulba Metallurgical Plant ISC         x           Tantalum         Victium Jin Yang Bare Metal Co., Ltd.         x           Tantalum         Tantalum         X           Tantalum         An Tina Mineral Foor, Ltd.         x           Tantalum         An Tina Mineral Foor, Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin   |              |   |            |
| Tantalum         Plansee SE Liezen           Tantalum         Quanturollean         x           Tantalum         Quanturollean         x           Tantalum         Resind Indistria e Comercio Litch.         x           Tantalum         Resind Indistria e Comercio Litch.         x           Tantalum         Take Chemical Co., Led.         x           Tantalum         Take Chemical Co., Led.         x           Tantalum         The Metallong Land JSC         x           Tantalum         Ubba Metallongical Plant JSC         x           Tantalum         Liba Metallongical Plant JSC         x           Tantalum         Tantalum         X           Tantalum         Air Man Metallongical Plant JSC         x           Tantalum         Air Man Metallongical Plant JSC         x           Tantalum         An Than Minerals Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin  |              |   |            |
| Inatalum         Planse SE Reture           Tanalum         Resind Industria e Comercio Ltda.         x           Tanalum         Richind Industria e Comercio Ltda.         x           Tanalum         RiFH Tanalum Smelny Co., Ltd.         x           Tanalum         Taki Chemical Co., Ltd.         x           Tanalum         Taki Chemical Co., Ltd.         x           Tanalum         Tieze Media         x           Tanalum         Tieze Agenta         x           Tanalum         Tieze Agenta         x           Tanalum         Tieze Agenta         x           Tanalum         Yinxing HaoKong Electronic Material Co., Ltd.         x           Tanalum         Yichun Jin Yang Rare Metal Co., Ltd.         x           Tanalum         Zhuzhou Cemented Carbide Group Co., Ltd.         x           Tin         An Thia Minerals Co., Ltd.         x           Tin         An Thia Minerals Co., Ltd.         x           Tin         An Thia Minerals Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         Cy Dua Sekawan   |              |   | X          |
| Tantalum         Quantum Clean         x           Tantalum         REsind Industria e Comercio Ltda.         x           Tantalum         RFH Tantalum Smelny Co., Ltd.         x           Tantalum         Tale Chemical Co., Ltd.         x           Tantalum         Tele Metals         x           Tantalum         Tlean Chemical Co., Ltd.         x           Tantalum         Ubba Metallungical Plant JSC         x           Tantalum         Xinxing Hadoring Electronic Material Co., Ltd.         x           Tantalum         Yichun Jin Yang Rare Metal Co., Ltd.         x           Tantalum         Alubao Cenneted Carbide Group Co., Ltd.         x           Tin         Alpha         a Tantalum         Tantalum           Tin         Alpha         a Tantalum         Tantalum         Tantalum           Tin         Alpha         a Tantalum  |              |   |            |
| Tantalum         Resind Industria e Comercio Lufa.         x           Tantalum         Solkamsk Magnesium Works OAO         x           Tantalum         Taki Chemical Co., Ltd.         x           Tantalum         Teke Metals         x           Tantalum         Tleic Metals         x           Tantalum         Tiral Tantalum         Tiral Tantalum         Tiral Tantalum           Tantalum         Tiral Tantalum         Xirxing Haofkong Electronic Material Co., Ltd.         x           Tantalum         Yichum Jui Yang Rare Metal Co., Ltd.         x           Tantalum         Zhuzhou Cemented Carbide Group Co., Ltd.         x           Tin         An Thai Mimerals Co., Ltd.         x           Tin         An Thai Mimerals Co., Ltd.         x           Tin         An Thai Mimerals Co., Ltd.         x           Tin         Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         Cy Dua Sekawan         x           Tin         Cy Oy Jays         x           Tin         Cy V Gita Pesona   |              |   |            |
| Tantalum         RTH Tantalum Smelny Co., Ltd.         x           Tantalum         Solklasmak Magnesium Works OAO         x           Tantalum         Tek Chemical Co., Ltd.         x           Tantalum         Tek Metals         x           Tantalum         Trantzot, Inc.         x           Tantalum         Ulba Metallurgical Plant JSC         x           Tantalum         Yichun Jin Yang Rare Metal Co., Ltd.         x           Tantalum         Yichun Jin Yang Rare Metal Co., Ltd.         x           Tantalum         A Than Minerals Co., Ltd.         x           Tin         An Thai Minerals Co., Ltd.         x           Tin         An Thai Minerals Co., Ltd.         x           Tin         An Thai Minerals Co., Ltd.         x           Tin         Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.         x           Tin         China Yunana Tin Co Ltd.         x           Tin         Coperativa Metallurgica de Rondônia Ltda.         x           Tin         CO Yi Jaya         x           Tin         CV Yi Jaya         x           Tin         CV Sita Pesona         x           Tin         CV Sita Sekawa         x           Tin         CV Sita Sekawa  |              | <del>-</del>  |            |
| Tantalum         Solkamsk Magnesium Works OAO         x           Tantalum         Taki Chemical Co., Ltd.         x           Tantalum         Trainard, Inc.         x           Tantalum         Tranzact, Inc.         x           Tantalum         Uiba Metallurgical Plant ISC         x           Tantalum         Vikuni Jin Yang Rare Metal Co., Ltd.         x           Tantalum         Zhuzbou Cemented Carbide Group Co., Ltd.         x           Tin         Alpha         x           Tin         An Tant Minerals Co., Ltd.         x           Tin         An Tant Mineral Sco., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         C. Vian Metallurgica de Rondônia Ltda.         x           Tin         C. V Tiga Sekawan   |              |   |            |
| Tantalum         Telex Metals         x           Tantalum         Telex Metals         x           Tantalum         Uba Metallurgical Plant JSC         x           Tantalum         Vinxing HaoRong Electronic Material Co., Ltd.         x           Tantalum         Yinhun Jin Yang Rare Metal Co., Ltd.         x           Tantalum         Alpha         x           Tantalum         Alpha         x           Tin         Alpha         x           Tin         An That Minerals Co., Ltd.         x           Tin         An That Minerals Co., Ltd.         x           Tin         Chenzbou Yunxiang Mining and Metallurgy Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Yunnan Tin Co Ltd.         x           Tin         CoNMC (Guangaiy) PGMA Co., Ltd.         x           Tin         CV Dya Sekawan         x           Tin         CV Variangayi PGMA Co., Ltd.         x           Tin         CV Visia Besona         x           Tin         CV Visia Besona         x           Tin         CV Visia Besona         x           Tin  |              |   |            |
| Tantalum         Tex Metals         x           Tantalum         Tanzat, Inc.         x           Tantalum         XinXing HaoRong Electronic Material Co., Ltd.         x           Tantalum         Yichun Jin Yang Rare Metal Co., Ltd.         x           Tantalum         Zhuzhou Cemented Carbide Group Co., Ltd.         x           Tin         Alpha         x           Tin         An Triah Minerals Co., Ltd.         x           Tin         An Triah Minerals Co., Ltd.         x           Tin         An Triah Mineral Processing Company         x           Tin         Chinar Tin Group Co., Ltd.         x           Tin         CV Gia Pesona         x           Tin         CV Ju Jaya         x           Tin         CV Secumpun Sebalai         x   |              |   |            |
| Tantalum         Tinatalum         Incantalum         X           Tantalum         XinXing HaoRong Electronic Material Co., Ltd.         x           Tantalum         Yichun Jin Yang Rare Metal Co., Ltd.         x           Tantalum         Zhuzhou Cemented Carbide Group Co., Ltd.         x           Tin         Alpha         x           An Thai Minerals Co., Ltd.         x           Tin         An Thai Minerals Co., Ltd.         x           Tin         Chenzhov Yunxiang Mining and Metallurgy Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Yunnan Tin Co Ltd.         x           Tin         Conyerativa Metalurgica de Rondônia Ltda.         x           Tin         CO Micrograph PGMA Co., Ltd.         x           Tin         CV Jaya Sekawan         x           Tin         CV Jaya Sekawan         x           Tin         CV Serumpun Sebalai         x           Tin         CV Views Braiti Perksa         x           Tin         CV Views Braiti Perksa         x           Tin         CV Views Braiti Perksa         x           Tin         Emet S.L.U.   |              |   |            |
| Tanalaum         Uba Metallurgical Plant JSC         x           Tantalaum         XinXing HaoRong Electronic Material Co., Ltd.         x           Tantalaum         Zirchun Jin Yang Rare Metal Co., Ltd.         x           Tantalaum         Alupha         x           Tin         Al Jaha         x           Tin         An Vinho Joint Stock Mineral Processing Company         x           Tin         Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.         x           Tin         China Yunnan Tin Co Ltd.         x           Tin         China Yunnan Tin Co Ltd.         x           Tin         Cooperative Metalurgica de Rondônia Ltda.         x           Tin         C. Vayi Jaya         x           Tin         CV Vayi Sakwan         x           Tin         CV Serumpun Sebalai         x           Tin         CV Serumpun Sebalai         x           Tin         CV Serumpun Sebalai         x           Tin         CV United Smelting         x           Tin         CV United Smelting         x           Tin         CV United Smelting         x           Tin         Electron-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         x           Tin <td></td> <td></td> <td>X</td>  |              |   | X          |
| Tantalum         Xinxing HaoRong Electronic Material Co., Ltd.           Tantalum         Yichun Jin Yang Rare Metal Co., Ltd.           Tin         Alpha         x           Tin         Alpha         x           Tin         An Thai Minerals Co., Ltd.         x           Tin         An Thai Minerals Co., Ltd.         x           Tin         Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Yunnan Tin Co Ltd.         x           Tin         Coperativa Metalurgica de Rondônia Ltda.         x           Tin         CV Guangxi PGMA Co., Ltd.         x           Tin         CV Jua Sekawan         x           Tin         CV Gita Pesona         x           Tin         CV Jua Sekawan         x           Tin         CV Yinga Sekawan         x           Tin         CV United Smelting         x           Tin         CV United Smelting         x           Tin         CV United Smelting         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         x   |              |   | 37         |
| Tantalum         Vicun Jin Yang Rare Metal Co., Ltd.           Tantalum         Zhuzhou Cemented Carbide Group Co., Ltd.           Tin         Alpha           An Tin An Thai Minerals Co., Ltd.           Tin         An Vinh Joint Stock Mineral Processing Company           Tin         Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Yunnan Tin Co Ltd.         x           Tin         Cooperative Metalurgic de Rondônia Ltda.         x           Tin         CV Qua Sexhama         x           Tin         CV Gus Pesona         x           Tin         CV Gita Pesona         x           Tin         CV Serumpun Seblai         x           Tin         CV Serumpun Seblai         x           Tin         CV Serumpun Seblai         x           Tin         CV Vinied Smelting         x           Tin         CV Unied Smelting         x           Tin         CV Unied Smelting         x           Tin         Dowa         x           Tin         Elmet St.L.         x           Tin         Elmet S  |              |   |            |
| Tanlaum         Alxbau Cemented Carbide Group Co., Ltd.           Tin         Alpha         x           Tin         Alpha Minerals Co., Ltd.         x           Tin         An Thai Minerals Co., Ltd.         x           Tin         Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.         x           Tin         Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Yunnan Tin Co Ltd.         x           Tin         Coyned (Guangxi) PGMA Co., Ltd.         x           Tin         Coyned (Guangxi) PGMA Co., Ltd.         x           Tin         CV Qua Sekawa         x           Tin         CV Qita Pesona         x           Tin         CV Gita Pesona         x           Tin         CV Sexumum Sebalai         x           Tin         CV Verias Sekawa         x           Tin         CV Verias Sekawa         x           Tin         CV Verias Sekawa         x           Tin         CV Verias Inti Perkasa         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & M  |              |   | X          |
| Tin         Alpha         x           Tin         An Train Minerals Co., Ltd.           Tin         Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Yunnan Tin Co Ltd.         x           Tin         Cooperativa Metalurgica de Rondônia Ltda.         x           Tin         Co Vayl Jaya         x           Tin         CV You Sekawan         x           Tin         CV Serumpun Sebalai         x           Tin         CV Serumpun Sebalai         x           Tin         CV United Smelting         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         x           Tin         Elmet S.L.U.         x           Tin         Elmet S.L.U.         x           Tin         Gejiu Fengming Metallurgy Chemical Plant         x           Tin  |              |   |            |
| Tin         An Thai Minerals Co., Ltd.         x           Tin         Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Yinnan Tin Cot Ltd.         x           Tin         Coperativa Metalurgica de Rondônia Ltda.         x           Tin         CV Dua Sekawan         x           Tin         CV Grup Sekawan         x           Tin         CV Gerumpun Sebalai         x           Tin         CV Grup Sekawan         x           Tin         CV Usu Sekawan         x           Tin         CV Verug Sekawan         x           Tin         CV Usu Sekawan         x           Tin         CV Verug Sekawan         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Jont Stock Company         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Lock  |              |   | v          |
| Tin         An Vinh Joint Stock Mineral Processing Company           Tin         Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.         x           Tin         China Yunnan Tin Co Ltd.         x           Tin         CNMC (Guangxi) PGMA Co., Ltd.            Tin         Cooperativa Metalurgica de Rondônia Ltda.            Tin         CV Ayi Jaya         x           Tin         CV Du Sekawan         x           Tin         CV Serumpun Sebalai         x           Tin         CV Serumpun Sebalai         x           Tin         CV Tiga Sekawan         x           Tin         CV Vinited Smelting         x           Tin         CV Venus Inti Perkasa         x           Tin         Dowa         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         x           Tin         Elmet S.L.U.         x           Tin         Elmet S.L.U.         x           Tin         Elmet S.L.U.         x           Tin         Elmet S.L.U.         x           Tin         Gejiu Fengming Metallurgy Chemical Plant         x           Tin         Gejiu Jinye Mineral Company         x   |              |   | A          |
| Tin         Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.         x           Tin         China Tin Group Co., Ltd.         x           Tin         China Yunnan Tin Co Ltd.           Tin         CNOMC (Gangxi) PGMA Co., Ltd.           Tin         Cooperativa Metalurgica de Rondônia Ltda.           Tin         CV Jua Sekawan         x           Tin         CV Gita Pesona         x           Tin         CV Gita Pesona         x           Tin         CV Siga Sekawan         x           Tin         CV United Smelting         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         x           Tin         Estanbo de Rondônia S.A.         x           Tin         Gejus Mineral Metallurgy Chemical Plant   |              |   |            |
| Tin         China Tin Group Co, Ltd.           Tin         China Yunnan Tin Co Ltd.           Tin         China Yunnan Tin Co Ltd.           Tin         Cooperativa Metalurgica de Rondônia Ltda.           Tin         CV Ayi Jaya         x           Tin         CV Dua Sekawan         x           Tin         CV Gita Pesona         x           Tin         CV Seta Pesona         x           Tin         CV Venited Smelting         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals Metallurgy Joint Stock Company         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         x   |              |   | Y          |
| Tin         China Yunnan Tin Co Ltd.           Tin         CNMC (Guangxi) PGMA Co., Ltd.           Tin         Cooperativa Metalurgica de Rondônia Ltda.           Tin         CV Ayi Jaya         x           Tin         CV Dua Sekawan         x           Tin         CV Gia Pesona         x           Tin         CV Serumpun Sebalai         x           Tin         CV Tiga Sekawan         x           Tin         CV Urited Smelting         x           Tin         CV Venus Inti Perkasa         x           Tin         Dowa         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         x           Tin         Elmet S.L.U.         x           Tin         E M Vinto         x           Tin         E Stanho de Rondônia S.A.         x           Tin         E stanho de Rondônia S.A.         x           Tin         Gejiu Fengming Metallurgy Chemical Plant         x           Tin         Gejiu Fengming Metallurgy Chemical Plant         x           Tin         Gejiu Jinye Mineral Company         x           Tin         Gejiu Jinye Mineral Company         x           Tin         Gejiu Non-Ferrous Me   |              |   |            |
| Tin       CNMC (Guangxi) PGMA Co., Ltd.         Tin       Coperativa Metalurgica de Rondônia Ltda.         Tin       CV Ayi Jaya       x         Tin       CV Dua Sekawan       x         Tin       CV Gita Pesona       x         Tin       CV Sita Pesona       x         Tin       CV Tiga Sekawan       x         Tin       CV Vinited Smelting       x         Tin       CV Vinited Smelting       x         Tin       CV Venus Inti Perkas       x         Tin       Dowa       x         Tin       Dowa       x         Tin       Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company       x         Tin       Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company       x         Tin       Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company       x         Tin       Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company       x         Tin       Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company       x         Tin       Gejiu Yinxin Moferal Metallurgy Chemical Plant       x         Tin       Gejiu Non-Ferrous Metal Processing Co., Ltd.       x  |              | •   |            |
| Tin         Cooperativa Metalurgica de Rondônia Ltda.           Tin         CV Ayi Jaya         x           Tin         CV Das Sekawan         x           Tin         CV Gita Pesona         x           Tin         CV Serumpun Sebalai         x           Tin         CV Venumpun Sebalai         x           Tin         CV Vinited Smelting         x           Tin         CV Venus Inti Perkasa         x           Tin         CD Venus Inti Perkasa         x           Tin         Dowa         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         x           Tin         Elmet S.L. U         x           Tin         Gejiu Kai Met Rondônia S.A.         x           Tin         Gejiu Metallurgy Chemical Plant         x           Tin         Gejiu Kai Meng Industry and Trade LLC         x   |              |   |            |
| Tin         CV Āyi Jaya         x           Tin         CV Dua Sekawan         x           Tin         CV Gia Pesona         x           Tin         CV Serumpun Sebalai            Tin         CV Tiga Sekawan            Tin         CV United Smelting         x           Tin         CV Venus Inti Perkasa         x           Tin         Dowa         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         x           Tin         Gejiu Knikn Metallurgy Chemical Plant         x           Tin         Gejiu Knikn Metallu  |              |   |            |
| Tin         CV Dua Sekawan         x           Tin         CV Gita Pesona         x           Tin         CV Serumpun Sebalai            Tin         CV Tiga Sekawan            Tin         CV United Smelting         x           Tin         CV Venus Inti Perkasa         x           Tin         Dowa         x           Tin         Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         x           Tin         Elmet S.L. U.            Tin         EM Vinto         x           Tin         Estanho de Rondônia S.A.         x           Tin         Fenix Metals         x           Tin         Gejiu Fengming Metallurgy Chemical Plant         x           Tin         Gejiu Fengming Metallurgy Chemical Plant         x           Tin         Gejiu Jinye Mineral Company         x           Tin         Gejiu Jinye Mineral Company         x           Tin         Gejiu Non-Ferrous Metal Processing Co., Ltd.         x           Tin         Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.         x           Tin         Gejiu Jili Mining And Metallurgy Co., Ltd.         x           Tin         Huichang Hill Tin In   |              |   | x          |
| TinCV Gita PesonaxTinCV Serumpun SebalaiTinCV Tiga SekawanTinCV United SmeltingxTinCV Venus Inti PerkasaxTinDowaxTinElectro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock CompanyTinElmet S.L.U.xTinEM VintoxTinEstanho de Rondônia S.A.xTinFenix MetalsxTinGejiu Fengming Metallurgy Chemical PlantxTinGejiu Jinye Mineral CompanyxTinGejiu Non-Ferrous Metal Processing Co., Ltd.xTinGejiu Yunxin Nonferrous Electrolysis Co., Ltd.xTinGejiu Jili Mining And Metallurgy Co., Ltd.xTinGuanyang Guida Nonferrous Metal Smelting PlantxTinHuiChang Hill Tin Industry Co., Ltd.xTinHuichang Jinshunda Tin Co., Ltd.xTinJiangxi Ketai Advanced Material Co., Ltd.xTinJiangxi NanshanxTinMalaysia Smelting Corporation (MSC)xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x  |              |   |            |
| Tin       CV Serumpun Sebalai         Tin       CV Tiga Sekawan         Tin       CV Uitled Smelting       x         Tin       CV Venus Inti Perkasa       x         Tin       Dowa       x         Tin       Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company       T         Tin       Elmet S.L.U.       x         Tin       Estanho de Rondônia S.A.       x         Tin       Fenix Metals       x         Tin       Gejiu Fengming Metallurgy Chemical Plant       x         Tin       Gejiu Jinye Mineral Company       x         Tin       Gejiu Kai Meng Industry and Trade LLC       x         Tin       Gejiu Kai Meng Industry and Trade LLC       x         Tin       Gejiu Vanxin Nonferrous Metal Processing Co., Ltd.       x         Tin       Gejiu Yunxin Nonferrous Metal Smelting Plant       x         Tin       Gejiu Zili Mining And Metallurgy Co., Ltd.       x         Tin       Guanyang Guida Nonferrous Metal Smelting Plant       x         Tin       Huichang Jinshunda Tin Co., Ltd.       x         Tin       Huichang Jinshunda Tin Co., Ltd.       x         Tin       Jiangxi Nanshan       x         Tin <t< td=""><td></td><td></td><td></td></t<>  |              |   |            |
| TinCV Tiga SekawanTinCV United SmeltingxX TinCV Venus Inti PerkasaxTinDowaxTinElectro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock CompanyxTinElmet S.L.U.xTinEM VintoxTinEstanho de Rondônia S.A.xTinFenix MetalsxTinGejiu Fengming Metallurgy Chemical PlantxTinGejiu Jinye Mineral CompanyxTinGejiu Mon-Ferrous Metal Processing Co., Ltd.xTinGejiu Non-Ferrous Metal Processing Co., Ltd.xTinGejiu Yunxin Nonferrous Electrolysis Co., Ltd.xTinGejiu Zili Mining And Metallurgy Co., Ltd.xTinGuanyang Guida Nonferrous Metal Smelting PlantxTinHuiChang Hill Tin Industry Co., Ltd.xTinHuichang Jinshunda Tin Co., Ltd.xTinJiangxi Ketai Advanced Material Co., Ltd.xTinJiangxi NanshanxTinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x   |              |   |            |
| TinCV United SmeltingxTinCV Venus Inti PerkasaxTinDowaxTinElectro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock CompanyTinElmet S.L.U.TinEM VintoxTinEstanho de Rondônia S.A.TinFenix MetalsxTinGejiu Fengming Metallurgy Chemical PlantxTinGejiu Jinye Mineral CompanyxTinGejiu Mai Meng Industry and Trade LLCxTinGejiu Non-Ferrous Metal Processing Co., Ltd.xTinGejiu Vinxin Nonferrous Electrolysis Co., Ltd.xTinGejiu Zili Mining And Metallurgy Co., Ltd.xTinGuanyang Guida Nonferrous Metal Smelting PlantxTinGuanyang Guida Nonferrous Metal Smelting PlantxTinHuichang Jinshunda Tin Co., Ltd.xTinHuichang Jinshunda Tin Co., Ltd.xTinJiangxi NanshanxTinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x  |              |   |            |
| TinCV Venus Inti PerkasaxTinDowaxTinElectro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock CompanyTinElmet S.L. U.TinEM VintoxTinEstanho de Rondônia S.A.TinFenix MetalsxTinGejiu Fengming Metallurgy Chemical PlantxTinGejiu Fengming Meneral CompanyxTinGejiu Kai Meng Industry and Trade LLCxTinGejiu Kai Meng Industry and Trade LLCxTinGejiu Yunxin Nonferrous Metal Processing Co., Ltd.xTinGejiu Yunxin Nonferrous Electrolysis Co., Ltd.xTinGejiu Jindinang And Metallurgy Co., Ltd.xTinGuanyang Guida Nonferrous Metal Smelting PlantxTinHuiChang Hill Tin Industry Co., Ltd.xTinHuichang Jinshunda Tin Co., Ltd.xTinJiangxi Ketai Advanced Material Co., Ltd.xTinJiangxi NanshanxTinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x  |              |   | X          |
| Tin       Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company         Tin       Elmet S.L.U.         Tin       EM Vinto       x         Estanho de Rondônia S.A.       x         Tin       Fenix Metals       x         Tin       Gejiu Fengming Metallurgy Chemical Plant       x         Tin       Gejiu Jinye Mineral Company       x         Tin       Gejiu Kai Meng Industry and Trade LLC       x         Tin       Gejiu Non-Ferrous Metal Processing Co., Ltd.       x         Tin       Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.       x         Tin       Gejiu Yulining And Metallurgy Co., Ltd.       x         Tin       Guanyang Guida Nonferrous Metal Smelting Plant       x         Tin       Huichang Hill Tin Industry Co., Ltd.       x         Tin       Huichang Jinshunda Tin Co., Ltd.       x         Tin       Jiangxi Ketai Advanced Material Co., Ltd.       x         Tin       Magnu's Minerais Metais e Ligas Ltda.       x         Tin       Malaysia Smelting Corporation (MSC)       x         Tin       Melt Metais e Ligas S.A.       x  |              |   |            |
| Tin Elmet S.L.U.  Tin EM Vinto x  Tin Estanho de Rondônia S.A.  Tin Fenix Metals x  Tin Gejiu Fengming Metallurgy Chemical Plant x  Tin Gejiu Jinye Mineral Company x  Tin Gejiu Kai Meng Industry and Trade LLC x  Tin Gejiu Non-Ferrous Metal Processing Co., Ltd. x  Tin Gejiu Yunxin Nonferrous Electrolysis Co., Ltd. x  Tin Gejiu Zili Mining And Metallurgy Co., Ltd.  Tin Guanyang Guida Nonferrous Metal Smelting Plant x  Tin HuiChang Hill Tin Industry Co., Ltd. x  Tin Huichang Jinshunda Tin Co., Ltd. x  Tin Jiangxi Ketai Advanced Material Co., Ltd. x  Tin Magnu's Minerais Metais e Ligas Ltda. x  Tin Malaysia Smelting Corporation (MSC) x  Tin Malaysia Smelting Corporation (MSC) x  | Tin          | Dowa  | X          |
| TinEM VintoxTinEstanho de Rondônia S.A.xTinFenix MetalsxTinGejiu Fengming Metallurgy Chemical PlantxTinGejiu Jinye Mineral CompanyxTinGejiu Kai Meng Industry and Trade LLCxTinGejiu Non-Ferrous Metal Processing Co., Ltd.xTinGejiu Yunxin Nonferrous Electrolysis Co., Ltd.xTinGejiu Zili Mining And Metallurgy Co., Ltd.xTinGuanyang Guida Nonferrous Metal Smelting PlantxTinHuiChang Hill Tin Industry Co., Ltd.xTinHuichang Jinshunda Tin Co., Ltd.xTinJiangxi Ketai Advanced Material Co., Ltd.xTinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x   | Tin          | Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company |            |
| TinEstanho de Rondônia S.A.TinFenix MetalsxTinGejiu Fengming Metallurgy Chemical PlantxTinGejiu Jinye Mineral CompanyxTinGejiu Kai Meng Industry and Trade LLCxTinGejiu Non-Ferrous Metal Processing Co., Ltd.xTinGejiu Yunxin Nonferrous Electrolysis Co., Ltd.xTinGejiu Zili Mining And Metallurgy Co., Ltd.xTinGuanyang Guida Nonferrous Metal Smelting PlantxTinHuiChang Hill Tin Industry Co., Ltd.xTinHuichang Jinshunda Tin Co., Ltd.xTinJiangxi Ketai Advanced Material Co., Ltd.xTinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x  | Tin          | Elmet S.L.U.  |            |
| TinFenix MetalsxTinGejiu Fengming Metallurgy Chemical PlantxTinGejiu Jinye Mineral CompanyxTinGejiu Kai Meng Industry and Trade LLCxTinGejiu Non-Ferrous Metal Processing Co., Ltd.xTinGejiu Yunxin Nonferrous Electrolysis Co., Ltd.xTinGejiu Zili Mining And Metallurgy Co., Ltd.xTinGuanyang Guida Nonferrous Metal Smelting PlantxTinHuiChang Hill Tin Industry Co., Ltd.xTinHuichang Jinshunda Tin Co., Ltd.xTinJiangxi Ketai Advanced Material Co., Ltd.xTinJiangxi NanshanxTinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x  | Tin          | EM Vinto  | X          |
| TinGejiu Fengming Metallurgy Chemical PlantxTinGejiu Jinye Mineral CompanyxTinGejiu Kai Meng Industry and Trade LLCxTinGejiu Non-Ferrous Metal Processing Co., Ltd.xTinGejiu Yunxin Nonferrous Electrolysis Co., Ltd.xTinGejiu Zili Mining And Metallurgy Co., Ltd.xTinGuanyang Guida Nonferrous Metal Smelting PlantxTinHuiChang Hill Tin Industry Co., Ltd.xTinHuichang Jinshunda Tin Co., Ltd.xTinJiangxi Ketai Advanced Material Co., Ltd.xTinJiangxi NanshanxTinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x  | Tin          | Estanho de Rondônia S.A.  |            |
| TinGejiu Jinye Mineral CompanyxTinGejiu Kai Meng Industry and Trade LLCxTinGejiu Non-Ferrous Metal Processing Co., Ltd.xTinGejiu Yunxin Nonferrous Electrolysis Co., Ltd.xTinGejiu Zili Mining And Metallurgy Co., Ltd.xTinGuanyang Guida Nonferrous Metal Smelting PlantxTinHuiChang Hill Tin Industry Co., Ltd.xTinHuichang Jinshunda Tin Co., Ltd.xTinJiangxi Ketai Advanced Material Co., Ltd.xTinJiangxi NanshanxTinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x  | Tin          | Fenix Metals  | X          |
| TinGejiu Kai Meng Industry and Trade LLCxTinGejiu Non-Ferrous Metal Processing Co., Ltd.xTinGejiu Yunxin Nonferrous Electrolysis Co., Ltd.xTinGejiu Zili Mining And Metallurgy Co., Ltd.xTinGuanyang Guida Nonferrous Metal Smelting PlantxTinHuiChang Hill Tin Industry Co., Ltd.xTinHuichang Jinshunda Tin Co., Ltd.xTinJiangxi Ketai Advanced Material Co., Ltd.xTinJiangxi NanshanxTinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x   | Tin          | Gejiu Fengming Metallurgy Chemical Plant  | X          |
| TinGejiu Non-Ferrous Metal Processing Co., Ltd.xTinGejiu Yunxin Nonferrous Electrolysis Co., Ltd.xTinGejiu Zili Mining And Metallurgy Co., Ltd.xTinGuanyang Guida Nonferrous Metal Smelting PlantxTinHuiChang Hill Tin Industry Co., Ltd.xTinHuichang Jinshunda Tin Co., Ltd.xTinJiangxi Ketai Advanced Material Co., Ltd.xTinJiangxi NanshanxTinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x  | Tin          | Gejiu Jinye Mineral Company   | X          |
| TinGejiu Yunxin Nonferrous Electrolysis Co., Ltd.xTinGejiu Zili Mining And Metallurgy Co., Ltd.xTinGuanyang Guida Nonferrous Metal Smelting PlantxTinHuiChang Hill Tin Industry Co., Ltd.xTinHuichang Jinshunda Tin Co., Ltd.xTinJiangxi Ketai Advanced Material Co., Ltd.xTinJiangxi NanshanxTinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x  | Tin          | Gejiu Kai Meng Industry and Trade LLC   | X          |
| TinGejiu Zili Mining And Metallurgy Co., Ltd.TinGuanyang Guida Nonferrous Metal Smelting PlantxTinHuiChang Hill Tin Industry Co., Ltd.xTinHuichang Jinshunda Tin Co., Ltd.xTinJiangxi Ketai Advanced Material Co., Ltd.xTinJiangxi NanshanxTinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x   | Tin          | Gejiu Non-Ferrous Metal Processing Co., Ltd.  | X          |
| TinGuanyang Guida Nonferrous Metal Smelting PlantxTinHuiChang Hill Tin Industry Co., Ltd.xTinHuichang Jinshunda Tin Co., Ltd.xTinJiangxi Ketai Advanced Material Co., Ltd.xTinJiangxi NanshanxTinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x  | Tin          | Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.  | X          |
| TinHuiChang Hill Tin Industry Co., Ltd.xTinHuichang Jinshunda Tin Co., Ltd.xTinJiangxi Ketai Advanced Material Co., Ltd.xTinJiangxi NanshanxTinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x  | Tin          |   |            |
| TinHuichang Jinshunda Tin Co., Ltd.xTinJiangxi Ketai Advanced Material Co., Ltd.xTinJiangxi NanshanxTinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x  | Tin          |   | X          |
| TinJiangxi Ketai Advanced Material Co., Ltd.xTinJiangxi NanshanxTinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x  | Tin          |   | X          |
| TinJiangxi NanshanTinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x  | Tin          |   | X          |
| TinMagnu's Minerais Metais e Ligas Ltda.xTinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x  |              |   | X          |
| TinMalaysia Smelting Corporation (MSC)xTinMelt Metais e Ligas S.A.x   | Tin          |   |            |
| Tin Melt Metais e Ligas S.A. x  | Tin          |   | X          |
|   | Tin          |   | X          |
| Tin Motallia Descrivers Inc.  | Tin          | Melt Metais e Ligas S.A.  | X          |
| THE PHETAINIC RESOURCES, INC.   | Tin          | Metallic Resources, Inc.  | X          |

| Tin<br>Tin           |   | Conformant |
|----------------------|---|------------|
| Tin                  | Metallo Belgium N.V.                                  | X          |
|                      | Metallo-Chimique N.V.                                 |            |
| Tin                  | Mineração Taboca S.A.                                 | X          |
| Tin                  | Minsur  | X          |
| Tin                  | Mitsubishi Materials Corporation                      | X          |
| Tin                  | Modeltech Sdn Bhd                                     |            |
| Tin                  | MSC   |            |
| Tin                  | Nankang Nanshan Tin Manufactory Co., Ltd.             |            |
| Tin                  | Nghe Tinh Non-Ferrous Metals Joint Stock Company      |            |
| Tin                  | O.M. Manufacturing (Thailand) Co., Ltd.               | X          |
| Tin                  | O.M. Manufacturing Philippines, Inc.                  | X          |
| Tin                  | OMSA  |            |
| Tin                  | Operaciones Metalurgical S.A.                         | X          |
| Tin                  | Phoenix Metal Ltd.                                    |            |
| Tin                  | PT Aries Kencana Sejahtera                            | X          |
| Tin                  | PT Artha Cipta Langgeng                               | X          |
| Tin                  | PT ATD Makmur Mandiri Jaya                            | X          |
| Tin                  | PT Babel Inti Perkasa                                 | X          |
| Tin<br>Ti            | PT Bangka Prima Tin                                   | X          |
| Tin<br>Ti            | PT Bangka Tin Industry                                | X          |
| Tin<br>Ti            | PT Belitung Industri Sejahtera                        | X          |
| Tin<br>Ti            | PT Bukit Timah  | X          |
| Tin                  | PT Cipta Persada Mulia                                |            |
| Tin<br>Tin           | PT DS Jaya Abadi                                      | X          |
|                      | PT Eunindo Usaha Mandiri                              | X          |
| Tin<br>Ti            | PT Inti Stania Prima                                  | X          |
| Tin<br>Tin           | PT Justindo   |            |
| Tin<br>Ti            | PT Karimun Mining                                     | X          |
| Tin<br>Ti            | PT Kijang Jaya Mandiri                                | X          |
| Tin<br>Tin           | PT Lautan Harmonis Sejahtera                          | X          |
| Tin<br>Tin           | PT Menara Cipta Mulia<br>PT Mitra Stania Prima        | X          |
|                      |   | X          |
| Tin<br>Ti            | PT O.M. Indonesia                                     | _          |
| Tin<br>Tin           | PT Panca Mega Persada                                 | X          |
| Tin<br>Ti            | PT Prima Timah Utama                                  | X          |
| Tin<br>Tin           | PT Refined Bangka Tin                                 | X          |
| Tin<br>Tin           | PT Sariwiguna Binasentosa<br>PT Stanindo Inti Perkasa | X          |
| Tin                  | PT Sukses Inti Makmur                                 | X          |
|                      |   | X          |
| Tin<br>Tin           | PT Sumber Jaya Indah                                  | X          |
| Tin                  | PT Tambang Timah<br>PT Timah (Persero) Tbk Kundur     | v          |
| Tin                  | PT Timah (Persero) Tok Mentok                         | X<br>X     |
| Tin                  | PT Tinindo Inter Nusa                                 |            |
| Tin                  | PT Tommy Utama  | X<br>X     |
| Tin                  | PT Wahana Perkit Jaya                                 | Λ          |
| Tin                  | Resind Indústria e Comércio Ltda.                     | X          |
| Tin                  | Rui Da Hung   | Λ          |
| Tin                  | Soft Metais Ltda.                                     | X          |
| Tin                  | Thaisarco   | X          |
| Tin                  | Tuyen Quang Non-Ferrous Metals Joint Stock Company    | Α          |
| Tin                  | VQB Mineral and Trading Group JSC                     |            |
| Tin                  | White Solder Metalurgia e Mineracao Ltda.             | X          |
| Tin                  | White Solder Metalurgica                              | A          |
| Tin                  | Yunnan Chengfeng Non-ferrous Metals Co., Ltd.         | v          |
| Tin                  | Yunnan Tin Company, Ltd.                              | X<br>Y     |
|                      | A.L.M.T. TUNGSTEN Corp.                               | X          |
| Tungsten<br>Tungsten | A.L.M.1. TUNGSTEN Colp. ACL Metais Eireli             | X<br>X     |

| Tungsten             | A ' T  | <u>Conformant</u> |
|----------------------|--|-------------------|
|                      | Asia Tungsten Products Vietnam Ltd.                                    | X                 |
| Tungsten             | Chenzhou Diamond Tungsten Products Co., Ltd.                           | X                 |
| Tungsten             | China National Non Ferrous   |                   |
| Tungsten             | Chongyi Zhangyuan Tungsten Co., Ltd.                                   | X                 |
| Tungsten             | Dayu Weiliang Tungsten Co., Ltd.                                       |                   |
| Tungsten             | Fujian Jinxin Tungsten Co., Ltd.                                       | X                 |
| Tungsten             | Ganzhou Huaxing Tungsten Products Co., Ltd.                            | X                 |
| Tungsten             | Ganzhou Jiangwu Ferrotungsten Co., Ltd.                                | X                 |
| Tungsten             | Ganzhou Seadragon W & Mo Co., Ltd.                                     | X                 |
| Tungsten             | Ganzhou Yatai Tungsten Co., Ltd.                                       |                   |
| Tungsten             | Global Tungsten & Powders Corp.  | X                 |
| Tungsten             | Guangdong Xianglu Tungsten Co., Ltd.                                   | X                 |
| Tungsten             | H.C. Starck GmbH   |                   |
| Tungsten             | H.C. Starck Smelting GmbH & Co.KG                                      | X                 |
| Tungsten             | H.C. Starck Tungsten GmbH  | X                 |
| Tungsten             | Hunan Chenzou Mining Co., Ltd.   | X                 |
| Tungsten             | Hunan Chuangda Vanadium Tungsten Co., Ltd. Wuji                        | X                 |
| Tungsten             | Hunan Chunchang Nonferrous Metals Co., Ltd.                            | X                 |
| Tungsten             | Hydrometallurg, JSC  | X                 |
| Tungsten             | Japan New Metals Co., Ltd.   | X                 |
| Tungsten             | Jiangwu H.C. Starck Tungsten Products Co., Ltd.                        | X                 |
| Tungsten             | Jiangxi Dayu Longxintai Tungsten Co., Ltd.                             |                   |
| Tungsten             | Jiangxi Gan Bei Tungsten Co., Ltd.                                     | X                 |
| Tungsten             | Jiangxi Minmetals Gao'an Non-ferrous Metals Co., Ltd.                  |                   |
| Tungsten             | Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd.          | X                 |
| Tungsten             | Jiangxi Xinsheng Tungsten Industry Co., Ltd.                           | X                 |
| Tungsten             | Jiangxi Xiushui Xianggan Nonferrous Metals Co., Ltd.                   |                   |
| Tungsten             | Jiangxi Yaosheng Tungsten Co., Ltd.                                    | X                 |
| Tungsten             | Kennametal Fallon  | X                 |
| Tungsten             | Kennametal Huntsville  | X                 |
| Tungsten             | Malipo Haiyu Tungsten Co., Ltd.  | X                 |
| Tungsten             | Moliren Ltd  | X                 |
| Tungsten             | Niagara Refining LLC   | X                 |
| Tungsten             | Nui Phao H.C. Starck Tungsten Chemicals Manufacturing LLC              | X                 |
| Tungsten             | Philippine Chuangxin Industrial Co., Inc.                              | X                 |
| Tungsten             | South-East Nonferrous Metal Company Limited of Hengyang City           | X                 |
| Tungsten             | Tejing (Vietnam) Tungsten Co., Ltd.                                    | X                 |
| Tungsten             | Unecha Refractory metals plant   |                   |
| _                    | Vietnam Youngsun Tungsten Industry Co., Ltd.                           | X                 |
| Tungsten             |  | X                 |
| Tungsten             | Wolfram Bergbau und Hutten AG  | X                 |
| Tungsten             | Woltech Korea Co., Ltd.<br>Xiamen H.C.                                 | X                 |
| Tungsten             |  |                   |
| Tungsten             | Xiamen Tungsten (H.C.) Co., Ltd.                                       | X                 |
| Tungsten             | Xiamen Tungsten Co., Ltd.  | X                 |
| Tungsten             | Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.            | X                 |
| Tungsten<br>Tungsten | Xinhai Rendan Shaoguan Tungsten Co., Ltd.<br>Zhangyuan Tungsten Co Ltd | X                 |