

Dated: May 18, 2016.

**Glenna Mickelson,**

*Management Analyst, Office of the Chief Information Officer.*

[FR Doc. 2016-12087 Filed 5-23-16; 8:45 am]

**BILLING CODE 3510-07-P**

## DEPARTMENT OF COMMERCE

### Foreign-Trade Zones Board

[B-36-2016]

#### Foreign-Trade Zone 93—Raleigh-Durham, North Carolina, Application for Reorganization (Expansion of Service Area) Under Alternative Site Framework

An application has been submitted to the Foreign-Trade Zones (FTZ) Board by the Triangle J Council of Governments, grantee of Foreign-Trade Zone 93, requesting authority to reorganize the zone to expand its service area under the alternative site framework (ASF) adopted by the FTZ Board (15 CFR Sec. 400.2(c)). The ASF is an option for grantees for the establishment or reorganization of zones and can permit significantly greater flexibility in the designation of new subzones or “usage-driven” FTZ sites for operators/users located within a grantee’s “service area” in the context of the FTZ Board’s standard 2,000-acre activation limit for a zone. The application was submitted pursuant to the Foreign-Trade Zones Act, as amended (19 U.S.C. 81a–81u), and the regulations of the FTZ Board (15 CFR part 400). It was formally docketed on May 17, 2016.

FTZ 93 was approved by the FTZ Board on November 4, 1983 (Board Order 233, 48 FR 52108, November 16, 1983) and reorganized under the ASF on November 30, 2012 (Board Order 1872, 77 FR 73978–73979, December 12, 2012), and the service area was expanded on January 9, 2015 (Board Order 1963, 80 FR 3551, January 23, 2015). The zone currently has a service area that includes the Counties of Chatham, Durham, Franklin, Granville, Harnett, Johnston, Lee, Moore, Orange, Person, Sampson, Vance, Wake and Warren.

The applicant is now requesting authority to expand the service area of the zone to include Wilson County, as described in the application. If approved, the grantee would be able to serve sites throughout the expanded service area based on companies’ needs for FTZ designation. The application indicates that the proposed expanded service area is adjacent to the Raleigh-Durham Customs and Border Protection port of entry.

In accordance with the FTZ Board’s regulations, Kathleen Boyce of the FTZ Staff is designated examiner to evaluate and analyze the facts and information presented in the application and case record and to report findings and recommendations to the FTZ Board.

Public comment is invited from interested parties. Submissions shall be addressed to the FTZ Board’s Executive Secretary at the address below. The closing period for their receipt is July 25, 2016. Rebuttal comments in response to material submitted during the foregoing period may be submitted during the subsequent 15-day period to August 8, 2016.

A copy of the application will be available for public inspection at the Office of the Executive Secretary, Foreign-Trade Zones Board, Room 21013, U.S. Department of Commerce, 1401 Constitution Avenue NW., Washington, DC 20230-0002, and in the “Reading Room” section of the FTZ Board’s Web site, which is accessible via [www.trade.gov/ftz](http://www.trade.gov/ftz). For further information, contact Kathleen Boyce at [Kathleen.Boyce@trade.gov](mailto:Kathleen.Boyce@trade.gov) or 202-482-1346.

Dated: May 17, 2016.

**Andrew McGilvray,**

*Executive Secretary.*

[FR Doc. 2016-12163 Filed 5-23-16; 8:45 am]

**BILLING CODE 3510-DS-P**

## DEPARTMENT OF COMMERCE

### International Trade Administration

[A-588-873]

#### Certain Cold-Rolled Steel Flat Products From Japan: Final Affirmative Determination of Sales at Less Than Fair Value and Final Affirmative Determination of Critical Circumstances

**AGENCY:** Enforcement and Compliance, International Trade Administration, Department of Commerce.

**SUMMARY:** The Department of Commerce (the “Department”) determines that certain cold-rolled steel flat products (“cold-rolled steel”) from Japan are being, or likely to be, sold in the United States at less than fair value (“LTFV”), as provided in section 735 of the Tariff Act of 1930, as amended (“the Act”). JFE Steel Corporation (“JFE”) and Nippon Steel & Sumitomo Metal Corporation (“NSSMC”) are the mandatory respondents in this investigation. The period of investigation (“POI”) is July 1, 2014 through June 30, 2015. The estimated weighted average dumping margins of

sales at LTFV are shown in the “Final Determination” section of this notice.

**DATES:** *Effective Date:* May 24, 2016.

**FOR FURTHER INFORMATION CONTACT:** Trisha Tran, AD/CVD Operations, Office IV, Enforcement and Compliance, International Trade Administration, U.S. Department of Commerce, 14th Street and Constitution Avenue NW., Washington, DC 20230; telephone: (202) 482-4852.

#### SUPPLEMENTARY INFORMATION:

##### Background

On March 7, 2016, the Department published its preliminary affirmative determination of sales at LTFV and preliminary affirmative determination of critical circumstances, in part, in the LTFV investigation of cold-rolled steel from Japan.<sup>1</sup> We invited interested parties to comment on our preliminary determination. We only received comments regarding the scope of this investigation. No interested party requested a hearing.

##### Scope of the Investigation

The products covered by this investigation are certain cold-rolled (cold-reduced), flat-rolled steel products, whether or not annealed, painted, varnished, or coated with plastics or other non-metallic substances. For a full description of the scope of this investigation, see the “Scope of the Investigation,” in Appendix I.

Since the *Preliminary Determination*, eight interested parties (*i.e.*, JFE Steel Corporation, Electrolux Home Products, Inc., Electrolux Home Care Products, Inc., ArcelorMittal USA LLC, AK Steel Corporation, Nucor Corporation, Steel Dynamics Inc., and United States Steel Corporation) commented on the scope of the investigation. The Department reviewed these comments and has made no changes to the scope of the investigation. For further discussion, see the “Final Scope Comments Memorandum.”<sup>2</sup> The scope in Appendix I reflects the final unmodified

<sup>1</sup> See *Certain Cold-Rolled Steel Flat Products From Japan: Affirmative Preliminary Determination of Sales at Less Than Fair Value and Preliminary Affirmative Determination of Critical Circumstances*, 81 FR 11747 (March 7, 2016) (“*Preliminary Determination*”).

<sup>2</sup> See Memorandum to Christian Marsh, Deputy Assistant Secretary for Antidumping and Countervailing Duty Operations, “*Certain Cold-Rolled Steel Flat Products From Brazil, the People’s Republic of China, India, Japan, the Republic of Korea, the Russian Federation, and the United Kingdom: Final Scope Comments Decision Memorandum*,” dated concurrently with this final determination (Final Scope Comments Memorandum).

scope language as it appeared in the *Preliminary Determination*.

**Verification**

None of the mandatory respondents in the investigation provided information requested by the Department. Hence, no verification was conducted.

**Analysis of Comments Received and Changes Since the Preliminary Determination**

We made no changes to the *Preliminary Determination* because we received no comments pertaining to the *Preliminary Determination*.

**Final Affirmative Determinations of Critical Circumstances, in Part**

In accordance with section 733(e) of the Act and 19 CFR 351.206, we preliminarily found critical circumstances exist with respect to both of the mandatory respondents in the investigation of cold-rolled steel from Japan. With respect to the “All-Others” group, we preliminarily found that critical circumstances did not exist.<sup>3</sup>

As stated above, the Department did not receive any comments concerning the preliminary determination. Thus, for the final determination, we continue to find that, in accordance with section 735(a)(3) of the Act and 19 CFR 351.206, critical circumstances exist with respect to both mandatory respondents and that critical circumstances do not exist for the non-individually examined companies receiving the “All-Others” rate in this investigation.

**Use of Adverse Facts Available**

As stated in the *Preliminary Determination*, neither JFE nor NSSMC responded to the Department’s questionnaire.<sup>4</sup> Accordingly, for the final determination, pursuant to section 776(b) of the Act, we applied adverse facts available to JFE and NSSMC.

**Final Determination**

As stated above, we made no changes to our preliminary affirmative LTFV determination. Therefore, we continue to determine that the following estimated weighted-average dumping margin exists for the following producers or exporters for the period July 1, 2014 through June 30, 2015.

Exporter/Producer	Weighted-average margin
JFE Steel Corporation .....	71.35 percent.
Nippon Steel & Sumitomo Metal Corporation.	71.35 percent.

<sup>3</sup> See *Preliminary Determination*.

<sup>4</sup> *Id.*

Exporter/Producer	Weighted-average margin
All-Others .....	71.35 percent.

In addition, the Department continues to determine that voluntary respondent Hitachi Metals Limited had no sales of subject merchandise during to POI to examine.

**All-Others Rate**

We cannot apply the methodology described in section 735(c)(5)(A) of the Act to calculate the “All-Others” rate, as all of the margins in the preliminary determination were calculated under section 776 of the Act.<sup>5</sup> In cases where no weighted-average dumping margins besides zero, *de minimis*, or those determined entirely under section 776 of the Act have been established for individually estimated entities, in accordance with section 735(c)(5)(B) of the Act, the Department averages the margins calculated by the Petitioners in the Petition and applies the result to “All-Other” entities not individually examined. In this case, however, Petitioners calculated only one margin in the Petition. Therefore, for the final determination, we continue to assign as the “All-Others” rate the only margin in the Petition, which is 71.35 percent.<sup>6</sup>

**Continuation and Partial Termination of Suspension of Liquidation**

In accordance with section 735(c)(4)(A) of the Act, for the final determination, we will instruct U.S. Customs and Border Protection (“CBP”) to continue to suspend liquidation of all entries of cold-rolled steel from Japan, as described in the scope of the investigation, from the mandatory respondents (*i.e.*, JFE and NSSMC) that are entered, or withdrawn from warehouse, for consumption on or after December 8, 2015, 90 days prior to the date of publication of the *Preliminary Determination* because we continue to find that critical circumstances exist with regard to imports exported by the mandatory respondents. In accordance with sections 733(d)(2) and 735(c)(1)(B) of the Act, for the final determination,

<sup>5</sup> *Id.* at 11749.

<sup>6</sup> See *Certain Oil Country Tubular Goods From Thailand: Preliminary Determination of Sales at Less Than Fair Value, and Postponement of Final Determination*, 79 FR 10487 (February 25, 2014), and accompanying Preliminary Decision Memorandum, unchanged in *Certain Oil Country Tubular Goods From India, the Republic of Korea, Taiwan, the Republic of Turkey, and the Socialist Republic of Vietnam: Antidumping Duty Orders; and Certain Oil Country Tubular Goods From the Socialist Republic of Vietnam: Amended Final Determination of Sales at Less Than Fair Value*, 79 FR 53691 (September 10, 2014).

we will direct CBP to continue the suspension of liquidation of all entries of cold-rolled steel from Japan, as described in the “Scope of the Investigation” section, from companies receiving the “All-Others” rate which were entered, or withdrawn from warehouse, for consumption on or after March 7, 2016, the date of publication of the *Preliminary Determination*.

**Disclosure**

We described the calculations used to determine the estimated weighted-average dumping margins based on adverse facts available, in the *Preliminary Determination*. We made no changes to our calculations since the *Preliminary Determination*. Thus, no additional disclosure of calculations is necessary for this final determination.

**International Trade Commission Notification**

In accordance with section 735(d) of the Act, we will notify the International Trade Commission (“ITC”) of our final affirmative determination of sales at LTFV and final affirmative determination of critical circumstances, in part. Because the final determination in the proceeding is affirmative, in accordance with section 735(b)(2) of the Act, the ITC will make its final determination as to whether the domestic industry in the United States is materially injured, or threatened with material injury, by reason of imports of cold-rolled steel from Japan no later than 45 days after our final determination. If the ITC determines that such injury does not exist, this proceeding will be terminated and all securities posted will be refunded or canceled. If the ITC determines that such injury does exist, the Department will issue an antidumping duty order directing CBP to assess, upon further instruction by the Department, antidumping duties on appropriate imports of the subject merchandise entered, or withdrawn from warehouse, for consumption on or after the effective date of the suspension of liquidation.

**Notification Regarding Administrative Protective Orders**

This notice will serve as a reminder to the parties subject to administrative protective order (“APO”) of their responsibility concerning the disposition of proprietary information disclosed under APOs in accordance with 19 CFR 351.305. Timely written notification of return or destruction of APO materials or conversion to judicial protective order is hereby requested. Failure to comply with the regulations and the terms of an APO is a

sanctionable violation. We are issuing and publishing this determination in accordance with sections 735(d) and 777(i)(1) of the Act and 19 CFR 351.210(c).

Dated: May 16, 2016.

**Paul Piquado,**

*Assistant Secretary for Enforcement and Compliance.*

## Appendix I

### Scope of the Investigation

The products covered by this investigation are certain cold-rolled (cold reduced), flat-rolled steel products, whether or not annealed, painted, varnished, or coated with plastics or other non-metallic substances. The products covered do not include those that are clad, plated, or coated with metal. The products covered include coils that have a width or other lateral measurement ("width") of 12.7 mm or greater, regardless of form of coil (e.g., in successively superimposed layers, spirally oscillating, etc.). The products covered also include products not in coils (e.g., in straight lengths) of a thickness less than 4.75 mm and a width that is 12.7 mm or greater and that measures at least 10 times the thickness. The products covered also include products not in coils (e.g., in straight lengths) of a thickness of 4.75 mm or more and a width exceeding 150 mm and measuring at least twice the thickness. The products described above may be rectangular, square, circular, or other shape and include products of either rectangular or non-rectangular cross section where such cross-section is achieved subsequent to the rolling process, i.e., products which have been "worked after rolling" (e.g., products which have been beveled or rounded at the edges). For purposes of the width and thickness requirements referenced above:

(1) Where the nominal and actual measurements vary, a product is within the scope if application of either the nominal or actual measurement would place it within the scope based on the definitions set forth above, and

(2) where the width and thickness vary for a specific product (e.g., the thickness of certain products with non-rectangular cross-section, the width of certain products with non-rectangular shape, etc.), the measurement at its greatest width or thickness applies.

Steel products included in the scope of these investigations are products in which: (1) Iron predominates, by weight, over each of the other contained elements; (2) the carbon content is 2 percent or less, by weight; and (3) none of the elements listed below exceeds the quantity, by weight, respectively indicated:

- 2.50 percent of manganese, or
- 3.30 percent of silicon, or
- 1.50 percent of copper, or
- 1.50 percent of aluminum, or
- 1.25 percent of chromium, or
- 0.30 percent of cobalt, or

- 0.40 percent of lead, or
- 2.00 percent of nickel, or
- 0.30 percent of tungsten (also called wolfram), or
- 0.80 percent of molybdenum, or
- 0.10 percent of niobium (also called columbium), or
- 0.30 percent of vanadium, or
- 0.30 percent of zirconium.

Unless specifically excluded, products are included in this scope regardless of levels of boron and titanium.

For example, specifically included in this scope are vacuum degassed, fully stabilized (commonly referred to as interstitial-free ("IF")) steels, high strength low alloy ("HSLA") steels, motor lamination steels, Advanced High Strength Steels ("AHSS"), and Ultra High Strength Steels ("UHSS"). IF steels are recognized as low carbon steels with micro-alloying levels of elements such as titanium and/or niobium added to stabilize carbon and nitrogen elements. HSLA steels are recognized as steels with micro-alloying levels of elements such as chromium, copper, niobium, titanium, vanadium, and molybdenum. Motor lamination steels contain micro-alloying levels of elements such as silicon and aluminum. AHSS and UHSS are considered high tensile strength and high elongation steels, although Al-ISS and UHSS are covered whether or not they are high tensile strength or high elongation steels.

Subject merchandise includes cold-rolled steel that has been further processed in a third country, including but not limited to annealing, tempering, painting, varnishing, trimming, cutting, punching, and/or slitting, or any other processing that would not otherwise remove the merchandise from the scope of the investigation if performed in the country of manufacture of the cold-rolled steel.

All products that meet the written physical description, and in which the chemistry quantities do not exceed any one of the noted element levels listed above, are within the scope of this investigation unless specifically excluded. The following products are outside of and/or specifically excluded from the scope of this investigation:

- Ball bearing steels;<sup>7</sup>
- Tool steels;<sup>8</sup>

<sup>7</sup> Ball bearing steels are defined as steels which contain, in addition to iron, each of the following elements by weight in the amount specified: (i) Not less than 0.95 nor more than 1.13 percent of carbon; (ii) not less than 0.22 nor more than 0.48 percent of manganese; (iii) none, or not more than 0.03 percent of sulfur; (iv) none, or not more than 0.03 percent of phosphorus; (v) not less than 0.18 nor more than 0.37 percent of silicon; (vi) not less than 1.25 nor more than 1.65 percent of chromium; (vii) none, or not more than 0.28 percent of nickel; (viii) none, or not more than 0.38 percent of copper; and (ix) none, or not more than 0.09 percent of molybdenum.

<sup>8</sup> Tool steels are defined as steels which contain the following combinations of elements in the quantity by weight respectively indicated: (i) More than 1.2 percent carbon and more than 10.5 percent chromium; or (ii) not less than 0.3 percent carbon

• Silico-manganese steel;<sup>9</sup>

• Grain-oriented electrical steels ("GOES") as defined in the final determination of the U.S. Department of Commerce in *Grain-Oriented Electrical Steel From Germany, Japan, and Poland*.<sup>10</sup>

• Non-Oriented Electrical Steels ("NOES"), as defined in the antidumping orders issued by the U.S. Department of Commerce in *Non-Oriented Electrical Steel From the People's Republic of China, Germany, Japan, the Republic of Korea, Sweden, and Taiwan*.<sup>11</sup>

Also excluded from the scope of this investigation is ultra-tempered automotive steel, which is hardened, tempered, surface polished, and meets the following specifications:

- Thickness: less than or equal to 1.0 mm;
- Width: less than or equal to 330 mm;
- Chemical composition:

and 1.25 percent or more but less than 10.5 percent chromium; or (iii) not less than 0.85 percent carbon and 1 percent to 1.8 percent, inclusive, manganese; or (iv) 0.9 percent to 1.2 percent, inclusive, chromium and 0.9 percent to 1.4 percent, inclusive, molybdenum; or (v) not less than 0.5 percent carbon and not less than 3.5 percent molybdenum; or (vi) not less than 0.5 percent carbon and not less than 5.5 percent tungsten.

<sup>9</sup> Silico-manganese steel is defined as steels containing by weight: (i) Not more than 0.7 percent of carbon; (ii) 0.5 percent or more but not more than 1.9 percent of manganese, and (iii) 0.6 percent or more but not more than 2.3 percent of silicon.

<sup>10</sup> See *Grain-Oriented Electrical Steel From Germany, Japan, and Poland: Final Determinations of Sales at Less Than Fair Value and Certain Final Affirmative Determination of Critical Circumstances*, 79 FR 42,501, 42,503 (July 22, 2014) ("*Grain-Oriented Electrical Steel From Germany, Japan, and Poland*"). This determination defines grain-oriented electrical steel as "a flat-rolled alloy steel product containing by weight at least 0.6 percent but not more than 6 percent of silicon, not more than 0.08 percent of carbon, not more than 1.0 percent of aluminum, and no other element in an amount that would give the steel the characteristics of another alloy steel, in coils or in straight lengths."

<sup>11</sup> See *Non-Oriented Electrical Steel From the People's Republic of China, Germany, Japan, the Republic of Korea, Sweden, and Taiwan: Antidumping Duty Orders*, 79 FR 71,741, 71,741-42 (December 3, 2014) ("*Non-Oriented Electrical Steel From the People's Republic of China, Germany, Japan, the Republic of Korea, Sweden, and Taiwan*"). The orders define NOES as "cold-rolled, flat-rolled, alloy steel products, whether or not in coils, regardless of width, having an actual thickness of 0.20 mm or more, in which the core loss is substantially equal in any direction of magnetization in the plane of the material. The term 'substantially equal' means that the cross grain direction of core loss is no more than 1.5 times the straight grain direction (i.e., the rolling direction) of core loss. NOES has a magnetic permeability that does not exceed 1.65 Tesla when tested at a field of 800 A/m (equivalent to 10 Oersts) along (i.e., parallel to) the rolling direction of the sheet (i.e., B800 value). NOES contains by weight more than 1.00 percent of silicon but less than 3.5 percent of silicon, not more than 0.08 percent of carbon, and not more than 1.5 percent of aluminum. NOES has a surface oxide coating, to which an insulation coating may be applied."

Element	C	Si	Mn	P	S
Weight% .....	0.90–1.05	0.15–0.35	0.30–0.50	Less than or equal to 0.03.	Less than or equal to 0.006.

• Physical properties:

Width less than or equal to 150mm.	Flatness of less than 0.2% of nominal strip width.
Width of 150 to 330mm.	Flatness of less than 5 mm of nominal strip width.

• Microstructure: Completely free from decarburization. Carbides are spheroidal and fine within 1% to 4% (area percentage) and are undissolved in the uniform tempered martensite;

- Surface roughness: less than or equal to 0.80 µm Rz;
- Non-metallic inclusion:
  - Sulfide inclusion less than or equal to 0.04% (area percentage)
  - Oxide inclusion less than or equal to 0.05% (area percentage); and
  - The mill test certificate must demonstrate that the steel is proprietary grade “PK” and specify the following:
    - The exact tensile strength, which must be greater than or equal to 1600 N/mm<sup>2</sup>;
    - The exact hardness, which must be greater than or equal to 465 Vickers hardness number;
    - The exact elongation, which must be between 2.5% and 9.5%; and
    - Certified as having residual compressive stress within a range of 100 to 400 N/mm<sup>2</sup>.

The products subject to this investigation are currently classified in the Harmonized Tariff Schedule of the United States (“HTSUS”) under item numbers: 7209.15.0000, 7209.16.0030, 7209.16.0060, 7209.16.0070, 7209.16.0091, 7209.17.0030, 7209.17.0060, 7209.17.0070, 7209.17.0091, 7209.18.1530, 7209.18.1560, 7209.18.2510, 7209.18.2520, 7209.18.2580, 7209.18.6020, 7209.18.6090, 7209.25.0000, 7209.26.0000, 7209.27.0000, 7209.28.0000, 7209.90.0000, 7210.70.3000, 7211.23.1500, 7211.23.2000, 7211.23.3000, 7211.23.4500, 7211.23.6030, 7211.23.6060, 7211.23.6090, 7211.29.2030, 7211.29.2090, 7211.29.4500, 7211.29.6030, 7211.29.6080, 7211.90.0000, 7212.40.1000, 7212.40.5000, 7225.50.6000, 7225.50.8080, 7225.99.0090, 7226.92.5000, 7226.92.7050, and 7226.92.8050. The products subject to the investigation may also enter under the following HTSUS numbers: 7210.90.9000, 7212.50.0000, 7215.10.0010, 7215.10.0080, 7215.50.0016, 7215.50.0018, 7215.50.0020, 7215.50.0061, 7215.50.0063, 7215.50.0065, 7215.50.0090, 7215.90.5000, 7217.10.1000, 7217.10.2000, 7217.10.3000, 7217.10.7000, 7217.90.1000, 7217.90.5030, 7217.90.5060, 7217.90.5090, 7225.19.0000, 7226.19.1000, 7226.19.9000, 7226.99.0180, 7228.50.5015, 7228.50.5040, 7228.50.5070, 7228.60.8000, and 7229.90.1000.

The HTSUS subheadings above are provided for convenience and CBP purposes

only. The written description of the scope of the investigation is dispositive.

[FR Doc. 2016–12191 Filed 5–23–16; 8:45 am]

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**DEPARTMENT OF COMMERCE**

**International Trade Administration**

**Application(s) for Duty-Free Entry of Scientific Instruments**

Pursuant to Section 6(c) of the Educational, Scientific and Cultural Materials Importation Act of 1966 (Pub. L. 89–651, as amended by Pub. L. 106–36; 80 Stat. 897; 15 CFR part 301), we invite comments on the question of whether instruments of equivalent scientific value, for the purposes for which the instruments shown below are intended to be used, are being manufactured in the United States.

Comments must comply with 15 CFR 301.5(a)(3) and (4) of the regulations and be postmarked on or before June 13, 2016. Address written comments to Statutory Import Programs Staff, Room 3720, U.S. Department of Commerce, Washington, DC 20230. Applications may be examined between 8:30 a.m. and 5:00 p.m. at the U.S. Department of Commerce in Room 3720.

Docket Number: 15–051. Applicant: Iowa State University of Science and Technology, 211 TASF, Ames, IA 50011–3020. Instrument: Electron Microscope. Manufacturer: FEI, Co., Czech Republic and Great Britain. Intended Use: The instrument will be used to perform microstructure examination, compositional analysis and orientation analysis on materials such as metals, compounds, alloys, oxides and organic materials. Justification for Duty-Free Entry: There are no instruments of the same general category manufactured in the United States. Application accepted by Commissioner of Customs: April 13, 2016.

Docket Number: 15–055. Applicant: Rutgers University, 136 Frelinghuysen Road, Piscataway, NJ 08854. Instrument: Optical Floating Zone Furnace. Manufacturer: Crystal Systems Corporation, Japan. Intended Use: The instrument will be used to grow high quality bulk single crystals of a variety of complex quantum materials including multiferroics, ferroelectrics and low-symmetry magnets. Research projects will include the duality

between FR and PUA states in hexagonal manganites, the duality between Ising triangular antiferromagnetism and improper ferroelectricity in hexagonal systems, the domains and domain walls in other polar or chiral magnets, the domains and domain walls in new hybrid improper ferroelectrics, the domains and domain walls in metastable phases at the phase boundaries, and magnetic skyrmion in non-centrosymmetric magnets. The instrument is equipped with 5 high power (1000 W in total) continuous wavelength laser diodes as a heating source. Five lasers ensure temperature homogeneity along the azimuthal direction around the crystal rod to be greater than 95%. The maximum temperature gradient along the growth direction is greater than 150 degrees Celsius/mm. Crystal growth can go from extremely stable and slow growth to very rapid quenching mode, 0.01 to 300 mm/h. This enables the growth of incongruently melting and highly evaporating materials. Justification for Duty-Free Entry: There are no instruments of the same general category manufactured in the United States. Application accepted by Commissioner of Customs: April 29, 2016.

Docket Number: 15–058. Applicant: UChicago Argonne, 9700 South Cass Avenue, Lemont, IL 60439–4873. Instrument: IEX ARPES Cryo-Manipulator. Manufacturer: Omnicore, Hansjoerg Ruppender, Germany. Intended Use: The instrument will be used to cool and position single crystal and thin film samples in an angle-resolved photoemission spectroscopy (ARPES) chamber. ARPES is used to map the electronic band structure of material. Samples include high-temperature superconductors, graphene, and other low dimensional materials, metals and complex oxides. The instrument’s unique features include ultra-high vacuum compatible, six-axes of motion with a specified range x: +/- 10mm, 1µm, +/- 0.05µm, y: +/- 10mm, 1µm, +/- 0.05µm, z: 300mm, 1µm, +/- 0.05µm, polar rotation: 360 degrees, 0.005 degrees, 0.0001 degrees, flip rotation: -15/+60 degrees, .1 degree, 0.05 degrees, azimuthal rotation: +/-90 degrees, .1 degree, 0.05 degrees, a low base temperature of 5.5K and high vibrational stability (motion at the sample < 500 nm). Justification for