

## U.S. IMPORTERS' QUESTIONNAIRE

### HYDROFLUOROCARBONS BLENDS AND COMPONENTS FROM CHINA

This questionnaire must be received by the Commission by **THURSDAY, JULY 9, 2015**

*See last page for filing instructions.*

The information called for in this questionnaire is for use by the United States International Trade Commission in connection with its antidumping investigations concerning hydrofluorocarbon blends and components ("HFC blends and components") from China (inv. No. 731-TA-1279 (Preliminary)). The information requested in the questionnaire is requested under the authority of the Tariff Act of 1930, title VII. This report is mandatory and failure to reply as directed can result in a subpoena or other order to compel the submission of records or information in your firm's possession (19 U.S.C. § 1333(a)).

<b>Name of firm</b> _____
<b>Address</b> _____
<b>City</b> _____ <b>State</b> _____ <b>Zip Code</b> _____
<b>Website</b> _____
Has your firm imported HFC blends or HFC components (as defined on next page) from any China at any time since January 1, 2012?
<input type="checkbox"/> <b>NO</b> (Sign the certification below and promptly return <b>only</b> this page of the questionnaire to the Commission)
<input type="checkbox"/> <b>YES</b> (Complete all parts of the questionnaire, and return the entire questionnaire to the Commission)
<b>Return questionnaire via the U.S. International Trade Commission Drop Box by clicking on the following link: <a href="https://dropbox.usitc.gov/oinv/">https://dropbox.usitc.gov/oinv/</a>. (PIN: <b>1279</b>)</b>

#### CERTIFICATION

*I certify that the information herein supplied in response to this questionnaire is complete and correct to the best of my knowledge and belief and understand that the information submitted is subject to audit and verification by the Commission.*

*By means of this certification I also grant consent for the Commission, and its employees and contract personnel, to use the information provided in this questionnaire and throughout this proceeding in any other import-injury proceedings conducted by the Commission on the same or similar merchandise.*

*I acknowledge that information submitted in this questionnaire response and throughout this proceeding may be used by the Commission, its employees, and contract personnel who are acting in the capacity of Commission employees, for developing or maintaining the records of this proceeding or related proceedings for which this information is submitted, or in internal audits and proceedings relating to the programs and operations of the Commission pursuant to 5 U.S.C. Appendix 3. I understand that all contract personnel will sign non-disclosure agreements.*

\_\_\_\_\_  
**Name of Authorized Official**

\_\_\_\_\_  
**Title of Authorized Official**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Phone:**

\_\_\_\_\_  
**Email address**

\_\_\_\_\_  
**Fax:**

**PART I.—GENERAL INFORMATION**

**Background.** This proceeding was instituted in response to a petition filed on June 25, 2015, by The American HFC Coalition and its members (Amtrol, Inc., West Warwick, Rhode Island; Arkema, Inc., King of Prussia, Pennsylvania; The Chemours Company FC LLC, Wilmington, Delaware; Honeywell International Inc., Morristown, New Jersey; Hudson Technologies, Pearl River, New York; Mexichem Fluor Inc., St. Gabriel, Louisiana; Worthington Industries, Inc., Columbus, Ohio) and District Lodge 154 of the International Association of Machinists and Aerospace Workers (“IAMAW”). Antidumping duties may be assessed on the certain imports of HFC blends or HFC components as a result of these proceedings if the Commission makes an affirmative determination of injury, threat, or material retardation, and if the U.S. Department of Commerce makes an affirmative determination of dumping. Questionnaires and other information pertinent to this proceeding are available at [http://www.admin.usitc.gov/investigations/title\\_7/2015/hydrofluorocarbon\\_blends\\_and\\_components\\_china/preliminary.htm](http://www.admin.usitc.gov/investigations/title_7/2015/hydrofluorocarbon_blends_and_components_china/preliminary.htm).

***Certain hydrofluorocarbon blends and components (“HFC blends and components”):*** The products covered by these investigations are: blended hydrofluorocarbons (“HFCs”) and single HFC components of those blends thereof, whether or not imported for blending, including the following:

***HFC blends covered by the scope of this investigation:***

**(1) R-404A:** a zeotropic mixture consisting of 52 percent 1,1,1-Trifluoroethane, 44 percent by weight Pentafluoroethane, and 4 percent 1,1,1,2-Tetrafluoroethane.

R-404A is sold under various trade names, including Forane® 404A, Genetron® 404A, Solkane® 404A, Klea® 404A, and Suva® 404A.

**(2) R-407A:** a zeotropic mixture of 20 percent Difluoromethane, 40 percent Pentafluoroethane, and 40 percent 1,1,1,2-Tetrafluoroethane.

R-407A is sold under various trade names, including Forane® 407A, Solkane® 407A, Klea® 407A, and Suva® 407A.

**(3) R-407C:** a zeotropic mixture of 23 percent Difluoromethane, 25 percent Pentafluoroethane, and 52 percent 1,1,1,2-Tetrafluoroethane.

R-407C is sold under various trade names, including Forane® 407C, Genetron® 407C, Solkane® 407C, Klea® 407C and Suva® 407C.

**(4) R-410A:** a zeotropic mixture of 50 percent Difluoromethane and 50 percent Pentafluoroethane.

R-410A is sold under various trade names, including EcoFluor R410, Forane® 410A, Genetron® R410A and AZ-20, Solkane® 410A, Klea® 410A, Suva® 410A, and Puron®.

**(5) R-507A:** an azeotropic mixture of 50 percent Pentafluoroethane and 50 percent 1,1,1-Trifluoroethane also known as R-507.

R-507A is sold under various trade names, including Forane® 507, Solkane® 507, Klea® 507, Genetron® AZ-50, and Suva® 507.

The foregoing percentages are nominal percentages by weight. Actual percentages of single component refrigerants by weight may vary by plus or minus two percent points from the nominal percentage identified above.

**HFC components covered by the scope of this investigation**

The subject merchandise also includes the following single component hydrofluorocarbons used to produce the foregoing blends:

**(6) R-32** or Difluoromethane has the chemical formula  $\text{CH}_2\text{F}_2$ , and is registered as CAS No. 75-10-5. It may also be known as HFC-32, FC-32, Freon-32, Methylene difluoride, Methylene fluoride, Carbon fluoride hydride, halocarbon R32, fluorocarbon R32, and UN 3252.

R-32 is sold under various trade names, including Solkane<sup>®</sup>32, Forane<sup>®</sup>32, and Klea<sup>®</sup>32.

**(7) R-125** or 1,1,1,2,2-Pentafluoroethane has the chemical formula  $\text{CF}_3\text{CHF}_2$  and is registered as CAS No. 354-33-6. R-125 may also be known as R-125, HFC-125, Pentafluoroethane, Freon 125, and Fc-125, R-125.

R-125 is sold under various trade names, including Solkane<sup>®</sup>125, Klea<sup>®</sup>125, Genetron<sup>®</sup>125, and Forane<sup>®</sup>125.

**(8) R-143a** or 1,1,1-Trifluoroethane has the chemical formula  $\text{CF}_3\text{CH}_3$  and is registered as CAS No. 420-46-2. R-143a may also be known as R-143a, HFC-143a, Methylfluoroform, 1,1,1-Trifluoroform, and UN2035.

R-143a is sold under various trade names, including Solkane<sup>®</sup>143a, Genetron<sup>®</sup>143a, and Forane<sup>®</sup>125.

**HFC blends and components excluded from the scope of this investigation**

Excluded from this investigation are:

(1) Blends of refrigerant chemicals that include HFC blends and components other than HFCs, such as blends including chlorofluorocarbons (CFCs) or hydrochlorofluorocarbons (HCFCs).

(2) Patented HFC blends, such as ISCEON<sup>®</sup> blends, including include MO99<sup>™</sup> (RR-438A), MO79 (R-422A), MO59 (R-417A), MO49Plus<sup>™</sup> (R-437A) and MO29<sup>™</sup> (R-422D), and Genetron<sup>®</sup> Performax<sup>™</sup> LT (R-407F).

(3) HFC component R-134a.

HFC blends covered by the scope of this investigation are currently classified in the Harmonized Tariff Schedule of the United States ("HTS") at subheading 3824.78.0000. Component single HFCs are currently classified at subheading 2903.39.2030, HTSUS. Although the HTSUS subheading and CAS registry number are provided for convenience and customs purposes, the written description of the scope is dispositive.

***"Covered HFC components"***.—The term "covered HFC components" should in this questionnaire include the HFC components covered by the scope of the petition (e.g., R-32, R-125, and r-143a) and exclude the HFC component not covered by the scope of the petition (e.g., R-134a).

***"all HFC components"***.--The term "all HFC components" should in this questionnaire include both the HFC components covered by the scope of the petition (e.g., R-32, R-125, and r-143a) as well as the HFC component that is excluded by the scope fo the petition (e.g., it should include R-134a).

***Importer***.--Any person or firm engaged, either directly or through a parent company or subsidiary, in importing HFC blends and components (as defined above) into the United States from a foreign manufacturer or through its selling agent.

***Reporting of information***.-- If information is not readily available from your records, provide carefully prepared estimates. If your firm is completing more than one questionnaire (i.e., a producer, importer, and/or purchaser questionnaire), you need not respond to duplicated questions.

***Confidentiality***.--The commercial and financial data furnished in response to this questionnaire that reveal the individual operations of your firm will be treated as confidential by the Commission to the extent that such data are not otherwise available to the public and will not be disclosed except as may be required by law (see 19 U.S.C. § 1677f). Such confidential information will not be published in a manner that will reveal the individual operations of your firm; however, general characterizations of numerical business proprietary information (such as discussion of trends) will be treated as confidential business information only at the request of the submitter for good cause shown.

***Verification***.-- The information submitted in this questionnaire is subject to audit and verification by the Commission. To facilitate possible verification of data, please keep all files, worksheets, and supporting documents used in the preparation of the questionnaire response. Please also retain a copy of the final document that you submit.

***Release of information***.--The information provided by your firm in response to this questionnaire, as well as any other business proprietary information submitted by your firm to the Commission in connection with this proceeding, may become subject to, and released under, the administrative protective order provisions of the Tariff Act of 1930 (19 U.S.C. § 1677f) and section 207.7 of the Commission's Rules of Practice and Procedure (19 CFR § 207.7). This means that certain lawyers and other authorized individuals may temporarily be given access to the information for use in connection with this proceeding or other import-injury proceedings conducted by the Commission on the same or similar merchandise; those individuals would be subject to severe penalties if the information were divulged to unauthorized individuals.

I-1a. **OMB statistics.**--Please report below the actual number of hours required and the cost to your firm of completing this questionnaire.

Hours	Dollars

The questions in this questionnaire have been reviewed with market participants to ensure that issues of concern are adequately addressed and that data requests are sufficient, meaningful, and as limited as possible. Public reporting burden for this questionnaire is estimated to average 40 hours per response, including the time for reviewing instructions, gathering data, and completing and reviewing the questionnaire.

We welcome comments regarding the accuracy of this burden estimate, suggestions for reducing the burden, and any suggestions for improving this questionnaire. Please attach such comments to your response or send to the Office of Investigations, USITC, 500 E St. SW, Washington, DC 20436.

I-2. **Establishments covered.**--Provide the name and address of establishment(s) covered by this questionnaire. If your firm is publicly traded, please specify the stock exchange and trading symbol.

**"Establishment"**--Each facility of a firm involved in the importation of HFC blends and components, including auxiliary facilities operated in conjunction with (whether or not physically separate from) such facilities.

--

I-3. **Ownership.**--Is your firm owned, in whole or in part, by any other firm?

No       Yes--List the following information

Firm name	Address	Extent of ownership (percent)

I-4. **Related importers/exporters.**--Does your firm have any related firms, either domestic or foreign, that are engaged in importing HFC blends or HFC components from China into the United States or that are engaged in exporting HFC blends or HFC components from China to the United States?

No       Yes--List the following information.

Firm name	Address	Affiliation

I-5. **Related producers.**--Does your firm have any related firms, either domestic or foreign, that are engaged in the production of HFC blends or HFC components?

No       Yes--List the following information.

Firm name	Address	Affiliation

I-6. **Importing operations.**--Please indicate the nature of your firm's importing operations on HFC blends or HFC components. More than one answer may be applicable.

Importer of record	Takes title to the imported HFC blends and/or component(s)	Consignee of the imported HFC blends and /or component(s)	Customs broker or freight forwarder
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

I-7. **Consignee.**--If your firm is an importer of record of HFC blends or HFC components but is not the consignee, please list the consignees below (firm name, address, telephone number, and individual to contact).

Firm name	Address	Contact person and phone number

I-8. **FTZ, TIB, or bonded warehouses.**--Please indicate whether your firm enters HFC blends or HFC components into, or withdraws such merchandise from, foreign trade zones or bonded warehouses. Also indicate whether your firm imports HFC blends or HFC components under the TIB (temporary importation under bond) program.

**"Foreign trade zone"** is a designated location in the United States where firms utilize special procedures that allow delayed or reduced customs duty payments on foreign merchandise, as well as other savings. A foreign trade zone must be designed as such pursuant to the rules and procedures set forth in the Foreign-Trade Zones Act.

**"Bonded warehouse"** is a secured facility supervised by U.S. customs, where dutiable landed imports are stored pending their re-export, or release after payment of import duties, taxes, and other charges. A bonded warehouse must be designed as such pursuant to the rules and procedures set forth in 19 U.S. Code § 1555.

**"Temporary Importation under Bond ("TIB") program"** is a procedure whereby imported merchandise may be entered under certain conditions for a limited time into the United States free of duty. Under the program, an importer posts a bond for twice the amount of duty, taxes, etc. that would otherwise be owed on the importation and agrees to export or destroy the merchandise within a specified time or pay liquidated damages. This program is restricted to certain categories of merchandise listed in subheadings 9813.00.05 through 9813.00.75 of the Harmonized Tariff Schedule of the United States(HTS).

	No	Yes
Foreign trade zones	<input type="checkbox"/>	<input type="checkbox"/>
Bonded warehouses	<input type="checkbox"/>	<input type="checkbox"/>
Temporary importation under bond	<input type="checkbox"/>	<input type="checkbox"/>

I-9. **Third-country trade activities.**--To your knowledge, have the HFC blends and components subject to this proceeding been the subject of any other import relief proceedings in the United States or in any other countries?

No       Yes--Please specify.

**PART II.--TRADE AND RELATED INFORMATION**

Further information on this part of the questionnaire can be obtained from Joanna Lo (202-205-1888, [joanna.lo@usitc.gov](mailto:joanna.lo@usitc.gov)). **Supply all data requested on a calendar-year basis.**

II-1. **Contact information.**-- Please identify the responsible individual and the manner by which Commission staff may contact that individual regarding the confidential information submitted in part II.

Name	
Title	
Email	
Telephone	
Fax	

II-2. **Changes in operations.**--Please indicate whether your firm has experienced any of the following changes in relation to the importation of HFC blends or HFC components since January 1, 2012.

<i>(check as many as appropriate)</i>		<i>(please describe)</i>
<input type="checkbox"/>	Office/warehouse openings	
<input type="checkbox"/>	Office/warehouse closings	
<input type="checkbox"/>	Relocations	
<input type="checkbox"/>	Expansions	
<input type="checkbox"/>	Acquisitions	
<input type="checkbox"/>	Consolidations	
<input type="checkbox"/>	Prolonged shutdowns or production curtailments	
<input type="checkbox"/>	Revised labor agreements	
<input type="checkbox"/>	Other (e.g., technology)	



II-3. **Arranged imports.**--Has your firm imported or arranged for the importation of HFC blends or HFC components for delivery on or after **March 31, 2015**?

**"Arranged imports"** are imports for which your firm has placed an order with a foreign producer for subject merchandise, but delivery of those imports is not scheduled to occur until after the date listed above.

No                       Yes--Fill out the table below.

<b>Quantity (in short tons)</b>				
<b>Period/Source</b>	<b>Apr-Jun 2015</b>	<b>Jul-Sept 2015</b>	<b>Oct-Dec 2015</b>	<b>Jan-Mar 2016</b>
<b>China</b>				
<b>Other sources:<sup>1</sup></b>				
<sup>1</sup> Identify your other sources: _____.				

II-4. **Reasons for importing if producer.**--If your firm also produces HFC blends or HFC components in the United States, please indicate the reasons for importing this HFC blends or HFC components. If your firm's reasons differ by source, please elaborate.

**Definitions**

**"Imports"** –Those HFC blends or HFC components identified for Customs purposes as imports for consumption for which your firm was the importer of record (i.e., was responsible for paying any import duty) or consignee (i.e., to which the merchandise was first delivered).

**"Import quantities"** –Quantities reported should be net of returns.

**"Import values"** –Values reported should be landed, duty-paid values at the U.S. port of entry, including ocean freight and insurance costs, brokerage charges, and import duties (i.e., all charges except inland freight in the United States).

**"U.S. commercial shipments"** – Shipments made within the United States as a result of an arm's length commercial transaction in the ordinary course of business. Report net values (i.e., gross sales values less all discounts, allowances, rebates, prepaid freight, and the value of returned goods) in U.S. dollars, f.o.b. your point of shipment.

**"Internal consumption"** –HFC blends and components consumed internally by your firm.

**"Transfers to related firms"** –Shipments made to related domestic firms. Such transactions are valued at fair market value.

**"Related firm"** –A firm that your firm solely or jointly owns, manages, or otherwise controls. Such transactions are valued at fair market value.

**"Export shipments"** – Shipments to destinations outside the United States, including shipments to related firms.

**"Inventories"** --Finished goods inventory, not raw materials or work in progress.

*Note: As requested in Part I of this questionnaire, please keep all supporting documents/records used in the preparation of the trade data, as Commission staff may contact your firm regarding questions on the trade data. The Commission may also request that your company submit copies of the supporting documents/records (such as production and sales schedules, inventory records, etc.) used to compile these data.*

II-5. **COVERED HFC COMPONENTS: U.S. IMPORTS FROM CHINA.**—Report your firm’s imports and your firm’s shipments and inventories of covered HFC components imported from **China** by your firm during the specified periods.

## CHINA: Covered HFC Components

Quantity (in short tons), value (in \$1,000)					
Item	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Beginning-of-period inventories for covered HFC components (quantity) (A)</b>					
<b>Imports of:<sup>1</sup></b>					
<b>R-32.--</b>					
Quantity (B)					
Value (C)					
<b>R-125.--</b>					
Quantity (D)					
Value (E)					
<b>R-143a.--</b>					
Quantity (F)					
Value (G)					
<b>Total covered HFC components.--</b>					
Quantity (H)	0	0	0	0	0
Value (I)	0	0	0	0	0
<b>U.S. shipments of covered HFC components:</b>					
<b>Commercial shipments.--</b>					
Quantity (J)					
Value (K)					
<b>Internal consumption/ company transfers.--</b>					
Quantity (L)					
Value <sup>2</sup> (M)					
<b>Export shipments of covered HFC components:<sup>3</sup></b>					
Quantity (N)					
Value (O)					
<b>End-of-period inventories of covered HFC components (quantity) (P)</b>					
<sup>1</sup> Please identify the foreign producers, if known: _____. <sup>2</sup> Sales to related firms (including internal consumption) must be valued at fair market value. In the event that your firm uses a different basis for valuing these sales within your company, please specify that basis (e.g., cost, cost plus, etc.) and provide value data using that basis for each of the periods noted above: _____. <sup>3</sup> Identify your firm’s principal export markets: _____.					

**II-5. COVERED HFC COMPONENTS: U.S. IMPORTS FROM CHINA.--Continued**

**RECONCILIATION OF SHIPMENTS, IMPORTS, AND INVENTORIES.**--Generally, the data reported for the end-of-period inventories (i.e., line P) should be equal to the beginning-of-period inventories (i.e., line A), plus imports (i.e., line H), less total shipments (i.e., lines J, L, N). Please ensure that any differences are not due to data entry errors in completing this form, but rather actually reflect your firm's records; and also provide any likely explanations for any differences (e.g., theft, loss, damage, record systems issues, etc.) if they exist.

Reconciliation	Calendar years			January-March	
	2012	2013	2014	2014	2015
A + H – J – L – N – P = should equal zero ("0") or provide an explanation. <sup>1</sup>	0	0	0	0	0
<sup>1</sup> Explanation if the calculated fields above are returning values other than zero (i.e., "0") but are nonetheless accurate: _____.					

**II-6. EXCLUDED HFC COMPONENTS: U.S. IMPORTS FROM CHINA.**--Report your firm's imports and your firm's shipments and inventories of excluded HFC components (e.g., R-134a) imported from China by your firm during the specified periods

**CHINA: Excluded HFC Components (R-134a)**

Quantity (in short tons), value (in \$1,000)					
Item	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Beginning-of-period inventories R-134a</b> (quantity) (Q)					
<b>Imports of:<sup>1</sup></b> <b>R-134a.--</b> Quantity (R)					
Value (S)					
<b>U.S. shipments of R-134a:</b> <b>Commercial shipments.--</b> Quantity (T)					
Value (U)					
<b>Internal consumption/ company transfers.--</b> Quantity (V)					
Value <sup>2</sup> (W)					
<b>Export shipments of R-134a:<sup>3</sup></b> Quantity (X)					
Value (Y)					
<b>End-of-period inventories of R-134a</b> (quantity) (Z)					
<sup>1</sup> Please identify the foreign producers, if known: _____.					
<sup>2</sup> Sales to related firms (including internal consumption) must be valued at fair market value. In the event that your firm uses a different basis for valuing these sales within your company, please specify that basis (e.g., cost, cost plus, etc.) and provide value data using that basis for each of the periods noted above: _____.					

<sup>3</sup> Identify your firm's principal export markets: \_\_\_\_\_.

**RECONCILIATION OF SHIPMENTS, IMPORTS, AND INVENTORIES.**--Generally, the data reported for the end-of-period inventories (i.e., line Z) should be equal to the beginning-of-period inventories (i.e., line Q), plus imports (i.e., line R), less total shipments (i.e., lines T, V, X). Please ensure that any differences are not due to data entry errors in completing this form, but rather actually reflect your firm's records; and also provide any likely explanations for any differences (e.g., theft, loss, damage, record systems issues, etc.) if they exist.

Reconciliation	Calendar years			January-March	
	2012	2013	2014	2014	2015
Q + R – T – V – X – Z = should equal zero ("0") or provide an explanation. <sup>1</sup>	0	0	0	0	0
<sup>1</sup> Explanation if the calculated fields above are returning values other than zero (i.e., "0") but are nonetheless accurate: _____.					

II-7 **Commercial shipments of components by channel and by product type.**--Report your firm's commercial U.S. shipments of imports from China by channel and product.

### CHINA: Components Channels

Quantity (in short tons) and value (in \$1,000)					
Item	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Commercial U.S. shipments:</b>					
<b>R-32:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (AA)					
Value (AB)					
Sold to <u>blenders/repackagers</u>					
Quantity (AC)					
Value (AD)					
Sold to <u>original equipment manufacturers</u>					
Quantity (AE)					
Value (AF)					

*Question continued next page*

II-7. **Commercial shipments of components by channel and by product.**--Continued

Quantity (in short tons) and value (in \$1,000)					
Item	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>R-125:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (AG)					
Value (AH)					
Sold to <u>blenders/repackagers</u>					
Quantity (AI)					
Value (AJ)					
Sold to <u>original equipment manufacturers</u>					
Quantity (AK)					
Value (AL)					
<b>R-134a:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (AM)					
Value (AN)					
Sold to <u>blenders/repackagers</u>					
Quantity (AO)					
Value (AP)					
Sold to <u>original equipment manufacturers</u>					
Quantity (AQ)					
Value (AR)					
<b>R-143a:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (AS)					
Value (AT)					
Sold to <u>blenders/repackagers</u>					
Quantity (AU)					
Value (AV)					
Sold to <u>original equipment manufacturers</u>					
Quantity (AW)					
Value (AX)					

RECONCILIATION OF COMMERCIAL SHIPMENTS.--Quantity data broken out by channel and product should sum to equal the quantity and value reported in questions II-5 (lines J and K) and II-6 (lines T and U)

Reconciliation	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Question II-5 (covered HFC components).--</b> <b>Quantity.</b> --Sum of Quantities in II-7 less quantity reported in II-5 (line J), should equal to zero "0", if not revise s	0	0	0	0	0
<b>Value.</b> --Sum of Values in II-7 less quantity reported in II-7 (line K), should equal to zero "0", if not revise	0	0	0	0	0
<b>Question II-6 (excluded HFC components).--</b> <b>Quantity.</b> --Sum of Quantities in II-7 less quantity reported in II-6 (line T), should equal to zero "0", if not revise	0	0	0	0	0
<b>Value.</b> --Sum of Values in II-6 less quantity reported in II-6 (line U), should equal to zero "0", if not revise.	0	0	0	0	0

Question II-8 skipped.

II-9. **COVERED HFC BLENDS: U.S. IMPORTS FROM CHINA.**—Report your firm’s imports and your firm’s shipments and inventories of covered HFC blends imported from China by your firm during the specified periods.

### CHINA: Covered HFC Blends

Quantity (in short tons), value (in \$1,000)					
Item	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Beginning-of-period inventories for covered blends (quantity) (AY)</b>					
<b>Imports of:<sup>1</sup></b>					
<b>R-404A</b>					
Quantity (AZ)					
Value (BA)					
<b>R-407A</b>					
Quantity (BB)					
Value (BC)					
<b>R-407C</b>					
Quantity (BD)					
Value (BE)					
<b>R-410A</b>					
Quantity (BF)					
Value (BG)					
<b>R-507A</b>					
Quantity (BH)					
Value (BI)					
<b>Total covered blends</b>					
Quantity (BJ)	0	0	0	0	0
Value (BK)	0	0	0	0	0
<b>U.S. shipments of covered blends:</b>					
<b>Commercial shipments:</b>					
Quantity (BL)					
Value (BM)					
<b>Internal consumption/ company transfers:</b>					
Quantity (BN)					
Value <sup>2</sup> (BO)					
<b>Export shipments of covered blends:<sup>3</sup></b>					
Quantity (BQ)					
Value (BR)					
<b>End-of-period inventories of covered blends (quantity) (BS)</b>					

<sup>1</sup> Please identify the foreign producers, if known: \_\_\_\_\_.

<sup>2</sup> Sales to related firms (including internal consumption) must be valued at fair market value. In the event that your firm uses a different basis for valuing these sales within your company, please specify that basis (e.g., cost, cost plus, etc.) and provide value data using that basis for each of the periods noted above: \_\_\_\_\_.



<sup>3</sup> Identify your firm's principal export markets: \_\_\_\_\_.

**RECONCILIATION OF SHIPMENTS, IMPORTS, AND INVENTORIES.**--Generally, the data reported for the end-of-period inventories (i.e., line BS) should be equal to the beginning-of-period inventories (i.e., line AY), plus imports (i.e., line BJ), less total shipments (i.e., lines BL, BN, and BQ). Please ensure that any differences are not due to data entry errors in completing this form, but rather actually reflect your firm's records; and also provide any likely explanations for any differences (e.g., theft, loss, damage, record systems issues, etc.) if they exist.

Reconciliation	Calendar years			January-March	
	2012	2013	2014	2014	2015
AY + BJ – BL – BN – BQ – BS = should equal zero ("0") or provide an explanation. <sup>1</sup>	0	0	0	0	0
<sup>1</sup> Explanation if the calculated fields above are returning values other than zero (i.e., "0") but are nonetheless accurate: _____.					

II-10. **Commercial shipments of blends by channel and by product.**--Report your firm's commercial U.S. shipments of imports from China by channel and product.

## CHINA: Blends Channels

Quantity (in short tons) and value (in \$1,000)					
Item	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Commercial U.S. shipments:</b>					
<b>R-404A:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (BT)					
Value (BU)					
Sold to <u>blenders/repackagers</u>					
Quantity (BV)					
Value (BW)					
Sold to <u>original equipment manufacturers</u>					
Quantity (BX)					
Value (BY)					

*Question continued next page*

II-10. **Commercial shipments China of components by channel and by product.**--Continued

Quantity (in short tons) and value (in \$1,000)					
Item	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Commercial U.S. shipments:</b>					
<b>R-407A:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (BZ)					
Value (CA)					
Sold to <u>blenders/repackagers</u>					
Quantity (CB)					
Value (CC)					
Sold to <u>original equipment manufacturers</u>					
Quantity (CD)					
Value (CE)					
<b>R-407C:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (CF)					
Value (CG)					
Sold to <u>blenders/repackagers</u>					
Quantity (CI)					
Value (CJ)					
Sold to <u>original equipment manufacturers</u>					
Quantity (CK)					
Value (CL)					
<b>R-410A:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (CM)					
Value (CN)					
Sold to <u>blenders/repackagers</u>					
Quantity (CO)					
Value (CP)					
Sold to <u>original equipment manufacturers</u>					
Quantity (CQ)					
Value (CR)					

Question continued next page

II-10. **Commercial shipments China of components by channel and product.**--Continued

Quantity (in short tons) and value (in \$1,000)					
Item	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>R-507A:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (CS)					
Value (CT)					
Sold to <u>blenders/repackagers</u>					
Quantity (CU)					
Value (CV)					
Sold to <u>original equipment manufacturers</u>					
Quantity (CW)					
Value (CX)					

*RECONCILIATION OF COMMERCIAL SHIPMENTS.*--Quantity data broken out by channel and product should sum to equal the quantity and value reported in question II-9 (lines BL and BM)

Reconciliation	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Quantity.</b> --Sum of Quantities in II-10 less quantity reported in II-9 (line BL), should equal to zero "0", if not revise	0	0	0	0	0
<b>Value.</b> --Sum of Values in II-10 less quantity reported in II-9 (line BM), should equal to zero "0", if not revise	0	0	0	0	0

II-11. **Excluded HFC blends imported from China.**--Report your firm's imports excluded HFC blends imported from China by your firm during the specified periods.

Quantity (in short tons) and value (in \$1,000)					
Item	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Imports of:<sup>1</sup></b>					
<b>Excluded HFC Blends<sup>1</sup></b>					
Quantity (CY)					
Value (CZ)					
<sup>1</sup> Describe the excluded HFC blends that your firm imports (see exclusions in the scope provided beginning on page 2 of this questionnaire): _____.					

II-12. **COVERED HFC COMPONENTS: U.S. IMPORTS FROM ALL OTHER SOURCES ("AOS").**—Report your firm's imports and your firm's shipments and inventories of covered HFC components imported from sources other than China by your firm during the specified periods.

## AOS: Covered HFC Components

(list sources: \_\_\_\_\_)

Quantity (in short tons), value (in \$1,000)					
Item	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Beginning-of-period inventories for covered HFC components</b> (quantity) (A)					
<b>Imports of:</b> <sup>1</sup>					
<b>R-32.--</b>					
Quantity (B)					
Value (C)					
<b>R-125.--</b>					
Quantity (D)					
Value (E)					
<b>R-143a.--</b>					
Quantity (F)					
Value (G)					
<b>Total covered HFC components.--</b>					
Quantity (H)	0	0	0	0	0
Value (I)	0	0	0	0	0
<b>U.S. shipments of covered HFC components:</b>					
<b>Commercial shipments.--</b>					
Quantity (J)					
Value (K)					
<b>Internal consumption/ company transfers.--</b>					
Quantity (L)					
Value <sup>2</sup> (M)					
<b>Export shipments of covered HFC components:</b> <sup>3</sup>					
Quantity (N)					
Value (O)					
<b>End-of-period inventories of covered HFC components</b> (quantity) (P)					

<sup>1</sup> Please identify the foreign producers, if known: \_\_\_\_\_.

<sup>2</sup> Sales to related firms (including internal consumption) must be valued at fair market value. In the event that your firm uses a different basis for valuing these sales within your company, please specify that basis (e.g., cost, cost plus, etc.) and provide value data using that basis for each of the periods noted above: \_\_\_\_\_.

<sup>3</sup> Identify your firm's principal export markets: \_\_\_\_\_.

**II-12. COVERED HFC COMPONENTS: U.S. IMPORTS FROM ALL OTHER SOURCES (AOS).--Continued**

**RECONCILIATION OF SHIPMENTS, IMPORTS, AND INVENTORIES.**--Generally, the data reported for the end-of-period inventories (i.e., line P) should be equal to the beginning-of-period inventories (i.e., line A), plus imports (i.e., line H), less total shipments (i.e., lines J, L, N). Please ensure that any differences are not due to data entry errors in completing this form, but rather actually reflect your firm's records; and also provide any likely explanations for any differences (e.g., theft, loss, damage, record systems issues, etc.) if they exist.

Reconciliation	Calendar years			January-March	
	2012	2013	2014	2014	2015
A + H - J - L - N - P = should equal zero ("0") or provide an explanation. <sup>1</sup>	0	0	0	0	0
<sup>1</sup> Explanation if the calculated fields above are returning values other than zero (i.e., "0") but are nonetheless accurate: _____.					

**II-13. EXCLUDED HFC COMPONENTS: U.S. IMPORTS FROM ALL OTHER SOURCES (AOS).**--Report your firm's imports and your firm's shipments and inventories of excluded HFC components (e.g., R-134a) imported from sources other than China by your firm during the specified periods.

**AOS: Excluded HFC Components (R-134a)**

Item	Quantity (in short tons), value (in \$1,000)			Quantity (in short tons), value (in \$1,000)	
	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Beginning-of-period inventories R-134a</b> (quantity) (Q)					
<b>Imports of:<sup>1</sup></b> <b>R-134a.--</b> Quantity (R)					
Value (S)					
<b>U.S. shipments of R-134a:</b> <b>Commercial shipments.--</b> Quantity (T)					
Value (U)					
<b>Internal consumption/ company</b> <b>transfers.--</b> Quantity (V)					
Value <sup>2</sup> (W)					
<b>Export shipments of R-134a:<sup>3</sup></b> Quantity (X)					
Value (Y)					
<b>End-of-period inventories of R-134a</b> (quantity) (Z)					
<sup>1</sup> Please identify the foreign producers, if known: _____.					
<sup>2</sup> Sales to related firms (including internal consumption) must be valued at fair market value. In the event that your firm uses a different basis for valuing these sales within your company, please specify that basis (e.g., cost, cost plus, etc.) and provide value data using that basis for each of the periods noted above: _____.					
<sup>3</sup> Identify your firm's principal export markets: _____.					

**RECONCILIATION OF SHIPMENTS, IMPORTS, AND INVENTORIES.**--Generally, the data reported for the end-of-period inventories (i.e., line Z) should be equal to the beginning-of-period inventories (i.e., line Q), plus imports (i.e., line R), less total shipments (i.e., lines T, V, X). Please ensure that any differences are not due to data entry errors in completing this form, but rather actually reflect your firm's records; and also provide any likely explanations for any differences (e.g., theft, loss, damage, record systems issues, etc.) if they exist.

Reconciliation	Calendar years			January-March	
	2012	2013	2014	2014	2015
Q + R – T – V – X – Z = should equal zero ("0") or provide an explanation. <sup>1</sup>	0	0	0	0	0
<sup>1</sup> Explanation if the calculated fields above are returning values other than zero (i.e., "0") but are nonetheless accurate: _____.					

II-14 **Commercial shipments (AOS) of components by channel and by product.**--Report your firm's commercial U.S. shipments of imports from sources other than China by channel and product.

### AOS: Components Channels

Quantity (in short tons) and value (in \$1,000)					
Item	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Commercial U.S. shipments:</b>					
<b>R-32:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (AA)					
Value (AB)					
Sold to <u>blenders/repackagers</u>					
Quantity (AC)					
Value (AD)					
Sold to <u>original equipment manufacturers</u>					
Quantity (AE)					
Value (AF)					

*Question continued next page*

II-14. **Commercial shipments (AOS) of components by channel and by product.**--Continued

Quantity (in short tons) and value (in \$1,000)					
Item	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>R-125:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (AG)					
Value (AH)					
Sold to <u>blenders/repackagers</u>					
Quantity (AI)					
Value (AJ)					
Sold to <u>original equipment manufacturers</u>					
Quantity (AK)					
Value (AL)					
<b>R-134a:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (AM)					
Value (AN)					
Sold to <u>blenders/repackagers</u>					
Quantity (AO)					
Value (AP)					
Sold to <u>original equipment manufacturers</u>					
Quantity (AQ)					
Value (AR)					
<b>R-143a:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (AS)					
Value (AT)					
Sold to <u>blenders/repackagers</u>					
Quantity (AU)					
Value (AV)					
Sold to <u>original equipment manufacturers</u>					
Quantity (AW)					
Value (AX)					

***RECONCILIATION OF COMMERCIAL SHIPMENTS.--Quantity data broken out by channel and product should sum to equal the quantity and value reported in questions II-12 (lines J and K) and II-13 (lines T and U)***

Reconciliation	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Question II-12 (Covered HFC components).--</b> <b>Quantity.--</b> Sum of Quantities in II-14 less quantity reported in II-12 (line J), should equal to zero "0", if not revise	0	0	0	0	0
<b>Value.--</b> Sum of Values in II-14 less quantity reported in II-12 (line K), should equal to zero "0", if not revise	0	0	0	0	0
<b>Question II-13 (Excluded HFC components).--</b> <b>Quantity.--</b> Sum of Quantities in II-14 less quantity reported in II-13 (line T), should equal to zero "0", if not revise	0	0	0	0	0
<b>Value.--</b> Sum of Values in II-14 less quantity reported in II-13 (line U), should equal to zero "0", if not revise	0	0	0	0	0



II-15. **COVERED HFC BLENDS: U.S. IMPORTS FROM ALL OTHER SOURCES (AOS).**—Report your firm's imports and your firm's shipments and inventories of covered HFC blends imported from sources other than China by your firm during the specified periods.

### AOS: Covered HFC Blends

Quantity (in short tons), value (in \$1,000)					
Item	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Beginning-of-period inventories for covered blends (quantity) (AY)</b>					
<b>Imports of:<sup>1</sup></b>					
<b>R-404A</b>					
Quantity (AZ)					
Value (BA)					
<b>R-407A</b>					
Quantity (BB)					
Value (BC)					
<b>R-407C</b>					
Quantity (BD)					
Value (BE)					
<b>R-410A</b>					
Quantity (BF)					
Value (BG)					
<b>R-507A</b>					
Quantity (BH)					
Value (BI)					
<b>Total covered blends</b>					
Quantity (BJ)	0	0	0	0	0
Value (BK)	0	0	0	0	0
<b>U.S. shipments of covered blends:</b>					
<b>Commercial shipments:</b>					
Quantity (BL)					
Value (BM)					
<b>Internal consumption/ company transfers:</b>					
Quantity (BN)					
Value <sup>2</sup> (BO)					
<b>Export shipments of covered blends:<sup>3</sup></b>					
Quantity (BQ)					
Value (BR)					
<b>End-of-period inventories of covered blends (quantity) (BS)</b>					

<sup>1</sup> Please identify the foreign producers, if known: \_\_\_\_\_.

<sup>2</sup> Sales to related firms (including internal consumption) must be valued at fair market value. In the event that your firm uses a different basis for valuing these sales within your company, please specify that basis (e.g., cost, cost plus, etc.) and provide value data using that basis for each of the periods noted above: \_\_\_\_\_.

<sup>3</sup> Identify your firm's principal export markets: \_\_\_\_\_.

**RECONCILIATION OF SHIPMENTS, IMPORTS, AND INVENTORIES.**--Generally, the data reported for the end-of-period inventories (i.e., line BS) should be equal to the beginning-of-period inventories (i.e., line AY), plus imports (i.e., line BJ), less total shipments (i.e., lines BL, BN, and BQ). Please ensure that any differences are not due to data entry errors in completing this form, but rather actually reflect your firm's records; and also provide any likely explanations for any differences (e.g., theft, loss, damage, record systems issues, etc.) if they exist.

Reconciliation	Calendar years			January-March	
	2012	2013	2014	2014	2015
AY + BJ – BL – BN – BQ – BS = should equal zero ("0") or provide an explanation. <sup>1</sup>	0	0	0	0	0

<sup>1</sup> Explanation if the calculated fields above are returning values other than zero (i.e., "0") but are nonetheless accurate: \_\_\_\_\_.

II-16. **Commercial shipments (AOS) of blends by channel and product.**--Report your firm's commercial U.S. shipments of imports from sources other than China by channel and product.

### AOS: Blends Channels

Quantity (in short tons) and value (in \$1,000)					
Item	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Commercial U.S. shipments:</b>					
<b>R-404A:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (BT)					
Value (BU)					
Sold to <u>blenders/repackagers</u>					
Quantity (BV)					
Value (BW)					
Sold to <u>original equipment manufacturers</u>					
Quantity (BX)					
Value (BY)					

*Question continued next page*

II-16. **Commercial shipments (AOS) of components by channel and by product.**--Continued

Quantity (in short tons) and value (in \$1,000)					
Item	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Commercial U.S. shipments:</b>					
<b>R-407A:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (BZ)					
Value (CA)					
Sold to <u>blenders/repackagers</u>					
Quantity (CB)					
Value (CC)					
Sold to <u>original equipment manufacturers</u>					
Quantity (CD)					
Value (CE)					
<b>R-407C:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (CF)					
Value (CG)					
Sold to <u>blenders/repackagers</u>					
Quantity (CI)					
Value (CJ)					
Sold to <u>original equipment manufacturers</u>					
Quantity (CK)					
Value (CL)					
<b>R-410A:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (CM)					
Value (CN)					
Sold to <u>blenders/repackagers</u>					
Quantity (CO)					
Value (CP)					
Sold to <u>original equipment manufacturers</u>					
Quantity (CQ)					
Value (CR)					

Question continued next page

II-16. **Commercial shipments (AOS) of components by channel and by product.**--Continued

Quantity (in short tons) and value (in \$1,000)					
Item	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>R-507A:</b>					
Sold to <u>distributors and service companies:</u>					
Quantity (CS)					
Value (CT)					
Sold to <u>blenders/repackagers</u>					
Quantity (CU)					
Value (CV)					
Sold to <u>original equipment manufacturers</u>					
Quantity (CW)					
Value (CX)					

*RECONCILIATION OF COMMERCIAL SHIPMENTS.*--Quantity data broken out by channel and product should sum to equal the quantity and value reported in question II-9 (lines BL and BM)

Reconciliation	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Quantity.</b> --Sum of Quantities in II-16 less quantity reported in II-15 (line BL), should equal to zero "0", if not revise	0	0	0	0	0
<b>Value.</b> --Sum of Values in II-16 less quantity reported in II-15 (line BM), should equal to zero "0", if not revise	0	0	0	0	0

II-17. **Excluded HFC blends imported from ALL OTHER SOURCES (AOS).**--Report your firm's imports excluded HFC blends imported from sources other than China by your firm during the specified periods.

Quantity (in short tons) and value (in \$1,000)					
Item	Calendar years			January-March	
	2012	2013	2014	2014	2015
<b>Imports of:</b>					
<b>Excluded HFC Blends<sup>1</sup></b>					
Quantity (CY)					
Value (CZ)					

<sup>1</sup> Describe the excluded HFC blends that your firm imports (see exclusions in the scope provided beginning on page 2 of this questionnaire): \_\_\_\_\_.

II-18. **OTHER EXPLANATIONS.**--If your firm would like to further explain a response to a question in Part II that did not provide a narrative response box, please note the question number and the explanation in the space provided below. Please also use this space to highlight any issues your firm had in providing the data in this section, including but not limited to technical issues with the MS Word questionnaire.

II-19. **IMPORTS OF R-134a.**--Does your firm import R-134a from any country for use in producing HFC blends (R-404A, R-407A, R-407C, R-410A, and/or R-507A) during the specified periods? Also be sure to report the imports of those data in the relevant grids in this questionnaire and report that use as internal consumption.

No

Yes--**COMPLETE AND RETURN A U.S. PRODUCERS/BLENDERS' QUESTIONNAIRE**

**PART III.--PRICING AND MARKET FACTORS**

Further information on this part of the questionnaire can be obtained from Michele Breaux (202-205-2781, [michele.breaux@usitc.gov](mailto:michele.breaux@usitc.gov)).

III-1. **Contact information.**--Please identify the responsible individual and the manner by which Commission staff may contact that individual regarding the confidential information submitted in part III.

Name	
Title	
Email	
Telephone	
Fax	

**PURCHASE COST DATA**

III-2. Product definitions:

**Product 1.**-- R-410A in bulk containers (1,000 lbs. or greater);

**Product 2.**-- R-410A in 25-lb. disposable tanks or cylinders;

**Product 3.**-- R-404A in 24-lb. disposable tanks or cylinders;

**Product 4.**-- R-407C in 25-lb. disposable tanks or cylinders;

**Product 5.**-- R-32 in bulk containers (1,000 lbs. or greater);

**Product 6.**-- R-125 in in bulk containers (over 1,000 lbs. or greater).

(a) **Direct imports.**--During January 2012-March 2015, did your firm directly import from China for own use ("direct imports") in the United States any of the above listed products (or any products that were competitive with these products) (e.g., HFC components imported by your firm for use in your firm's domestic blending operations; or imports of HFC blends or HFC components by original equipment manufacturers for their production of refrigeration equipment)?

<input type="checkbox"/>	<b>No.</b> --Skip question to III-2d.
<input type="checkbox"/>	<b>Yes.</b> --Complete question III-2b and III-2c by providing the landed-duty paid purchase cost of your firm's <u>purchases</u> of products 1 through 6 from China.

*Note: As requested in Part I of this questionnaire, please keep all supporting documents/records used in the preparation of the purchase cost data, as Commission staff may contact your firm regarding questions on the purchase cost data. The Commission may also request that your company submit copies of the supporting documents/records (such as sales journal, invoices, etc.) used to compile these data.*

III-2b. **Direct imports: Purchase cost data.**--Report below the quarterly landed-duty paid purchase cost data<sup>1</sup> for the specified product imported from China and internally consumed by your own firm. Values should be landed, duty-paid ("LDPV") and therefore include all international shipping costs, insurance costs, and Customs-clearance costs. LDPV should exclude U.S.-inland transportation costs. LDPV should reflect the *final net* amount paid by your firm (*i.e.*, should be net of all returns, discounts, allowances, and rebates).

## CHINA – DIRECT IMPORTS – PRODUCT 1

**Report data in actual pounds and actual dollars (not 1,000s of dollars).**

Period of shipment	<b>Product 1.-- R-410A in bulk containers (1,000 lbs. or greater)</b>		
	Quantity (pounds)	LDPV <sup>1</sup> (dollars)	Additional direct import costs <sup>2</sup> (dollars)
<b>2012:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2013:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2014:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2015:</b>			
January-March			

<sup>1</sup> Net values (*i.e.*, landed duty-paid values net all discounts, returns, allowances, rebates, prepaid freight, and the value of returned goods).

<sup>2</sup> Additional direct import costs.--There may be additional costs, charges, or expenses incurred by U.S. importers relating to the sourcing, logistics, or international supply chain (e.g., warehousing, compliance, customs brokerage, insurance, etc.) for their direct imports of merchandise into the United States. Do not report inland U.S. transportation costs as an additional direct import cost. Please list the components included in the value of additional direct import costs you reported:

**Note.**--If your firm's product does not exactly meet the product specifications but is competitive with the specified product, provide a description of your firm's product. Also, please explain any anomalies in your firm's reported purchase cost data.

Product 1:

III-2b. **Direct imports: Purchase cost data (continued).**-- Report below the quarterly landed-duty paid purchase cost data<sup>1</sup> for the specified product imported from China and internally consumed by your own firm. Values should be landed, duty-paid ("LDPV") and therefore include all international shipping costs, insurance costs, and Customs-clearance costs. LDPV should exclude U.S.-inland transportation costs. LDPV should reflect the *final net* amount paid by your firm (*i.e.*, should be net of all returns, discounts, allowances, and rebates).

## CHINA – DIRECT IMPORTS – PRODUCT 2

**Report data in actual pounds and actual dollars (not 1,000s of dollars).**

Period of shipment	<b>product 2</b> -- R-410A in 25-lb. disposable tanks or cylinders;		
	Quantity (pounds)	LDPV <sup>1</sup> (dollars)	Additional direct import costs <sup>2</sup> (dollars)
<b>2012:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2013:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2014:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2015:</b>			
January-March			

<sup>1</sup> Net values (*i.e.*, landed duty-paid values net all discounts, returns, allowances, rebates, prepaid freight, and the value of returned goods).

<sup>2</sup> Additional direct import costs.--There may be additional costs, charges, or expenses incurred by U.S. importers relating to the sourcing, logistics, or international supply chain (e.g., warehousing, compliance, customs brokerage, insurance, etc.) for their direct imports of merchandise into the United States. Do not report inland U.S. transportation costs as an additional direct import cost. Please list the components included in the value of additional direct import costs you reported:

**Note.**--If your firm's product does not exactly meet the product specifications but is competitive with the specified product, provide a description of your firm's product. Also, please explain any anomalies in your firm's reported purchase cost data.

product 2:



III-2b. **Direct imports: Purchase cost data (continued).**-- Report below the quarterly landed-duty paid purchase cost data<sup>1</sup> for the specified product imported from China and internally consumed by your own firm. Values should be landed, duty-paid ("LDPV") and therefore include all international shipping costs, insurance costs, and Customs-clearance costs. LDPV should *exclude* U.S.-inland transportation costs. LDPV should reflect the *final net* amount paid by your firm (*i.e.*, should be net of all returns, discounts, allowances, and rebates).

## CHINA – DIRECT IMPORTS – PRODUCT 3

**Report data in actual pounds and actual dollars (not 1,000s of dollars).**

Period of shipment	<b>product 3</b> -- R-404A in 24-lb. disposable tanks or cylinders;		
	Quantity (pounds)	LDPV <sup>1</sup> (dollars)	Additional direct import costs <sup>2</sup> (dollars)
<b>2012:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2013:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2014:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2015:</b>			
January-March			

<sup>1</sup> Net values (*i.e.*, landed duty-paid values net all discounts, returns, allowances, rebates, prepaid freight, and the value of returned goods).

<sup>2</sup> Additional direct import costs.--There may be additional costs, charges, or expenses incurred by U.S. importers relating to the sourcing, logistics, or international supply chain (e.g., warehousing, compliance, customs brokerage, insurance, etc.) for their direct imports of merchandise into the United States. Do not report inland U.S. transportation costs as an additional direct import cost. Please list the components included in the value of additional direct import costs you reported:

**Note.**--If your firm's product does not exactly meet the product specifications but is competitive with the specified product, provide a description of your firm's product. Also, please explain any anomalies in your firm's reported purchase cost data.

product 3:

III-2b. **Direct imports: Purchase cost data (continued).**--Report below the quarterly landed-duty paid purchase cost data<sup>1</sup> for the specified product imported from China and internally consumed by your own firm. Values should be landed, duty-paid ("LDPV") and therefore include all international shipping costs, insurance costs, and Customs-clearance costs. LDPV should exclude U.S.-inland transportation costs. LDPV should reflect the *final net* amount paid by your firm (*i.e.*, should be net of all returns, discounts, allowances, and rebates).

## CHINA – DIRECT IMPORTS – PRODUCT 4

**Report data in actual pounds and actual dollars (not 1,000s of dollars).**

Period of shipment	<b>Product 4.-- R-407C in 25-lb. disposable tanks or cylinders</b>		
	Quantity (pounds)	LDPV <sup>1</sup> (dollars)	Additional direct import costs <sup>2</sup> (dollars)
<b>2012:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2013:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2014:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2015:</b>			
January-March			

<sup>1</sup> Net values (*i.e.*, landed duty-paid values net all discounts, returns, allowances, rebates, prepaid freight, and the value of returned goods).

<sup>2</sup> Additional direct import costs.--There may be additional costs, charges, or expenses incurred by U.S. importers relating to the sourcing, logistics, or international supply chain (e.g., warehousing, compliance, customs brokerage, insurance, etc.) for their direct imports of merchandise into the United States. Do not report inland U.S. transportation costs as an additional direct import cost. Please list the components included in the value of additional direct import costs you reported: .

**Note.**--If your firm's product does not exactly meet the product specifications but is competitive with the specified product, provide a description of your firm's product. Also, please explain any anomalies in your firm's reported purchase cost data.

Product 4:

III-2b. **Direct imports: Purchase cost data (continued).**-- Report below the quarterly landed-duty paid purchase cost data<sup>1</sup> for the specified product imported from China and internally consumed by your own firm. Values should be landed, duty-paid ("LDPV") and therefore include all international shipping costs, insurance costs, and Customs-clearance costs. LDPV should exclude U.S.-inland transportation costs. LDPV should reflect the *final net* amount paid by your firm (*i.e.*, should be net of all returns, discounts, allowances, and rebates).

## CHINA – DIRECT IMPORTS – PRODUCT 5

**Report data in actual pounds and actual dollars (not 1,000s of dollars).**

Period of shipment	<b>Product 5.-- R-32 in bulk containers (1,000 lbs. or greater);</b>		
	Quantity (pounds)	LDPV <sup>1</sup> (dollars)	Additional direct import costs <sup>2</sup> (dollars)
<b>2012:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2013:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2014:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2015:</b>			
January-March			

<sup>1</sup> Net values (*i.e.*, landed duty-paid values net all discounts, returns, allowances, rebates, prepaid freight, and the value of returned goods).

<sup>2</sup> Additional direct import costs.--There may be additional costs, charges, or expenses incurred by U.S. importers relating to the sourcing, logistics, or international supply chain (e.g., warehousing, compliance, customs brokerage, insurance, etc.) for their direct imports of merchandise into the United States. Do not report inland U.S. transportation costs as an additional direct import cost. Please list the components included in the value of additional direct import costs you reported:

**Note.**--If your firm's product does not exactly meet the product specifications but is competitive with the specified product, provide a description of your firm's product. Also, please explain any anomalies in your firm's reported purchase cost data.

Product 5:

III-2b. **Direct imports: Purchase cost data (continued).**--Report below the quarterly landed-duty paid purchase cost data<sup>1</sup> for the specified product imported from China and internally consumed by your own firm. Values should be landed, duty-paid ("LDPV") and therefore include all international shipping costs, insurance costs, and Customs-clearance costs. LDPV should exclude U.S.-inland transportation costs. LDPV should reflect the *final net* amount paid by your firm (*i.e.*, should be net of all returns, discounts, allowances, and rebates).

## CHINA – DIRECT IMPORTS – PRODUCT 6

**Report data in actual pounds and actual dollars (not 1,000s of dollars).**

Period of shipment	<b>Product 6.-- R-125 in in bulk containers (over 1,000 lbs. or greater)</b>		
	Quantity (pounds)	LDPV <sup>1</sup> (dollars)	Additional direct import costs <sup>2</sup> (dollars)
<b>2012:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2013:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2014:</b>			
January-March			
April-June			
July-September			
October-December			
<b>2015:</b>			
January-March			

<sup>1</sup> Net values (*i.e.*, landed duty-paid values net all discounts, returns, allowances, rebates, prepaid freight, and the value of returned goods).

<sup>2</sup> Additional direct import costs.--There may be additional costs, charges, or expenses incurred by U.S. importers relating to the sourcing, logistics, or international supply chain (e.g., warehousing, compliance, customs brokerage, insurance, etc.) for their direct imports of merchandise into the United States. Do not report inland U.S. transportation costs as an additional direct import cost. Please list the components included in the value of additional direct import costs you reported:

**Note.**--If your firm's product does not exactly meet the product specifications but is competitive with the specified product, provide a description of your firm's product. Also, please explain any anomalies in your firm's reported purchase cost data.

Product 6:

**III-2c. Additional costs for your direct imports of product by your firm.**

- (i) If your firm reported additional direct import costs above (question III-2b), please identify the factors that add to your cost of importing directly since January 1, 2012, and explain the specific costs associated with each category.

<b>Factors</b>	<b>Explanation</b>
Logistical or supply chain costs	
Warehousing costs	
Compliance or customs brokerage costs	
Insurance costs	
Currency conversion costs	
Other	

- (ii) To which source does your firm compare costs in determining your additional transaction costs to directly import?

<b>U.S. Importers</b>	<b>U.S. Producers</b>	<b>Both</b>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- (iii) If your firm reported data above (question III-2b), briefly identify the benefits of directly importing HFC components and blends instead of purchasing such product from a U.S. importer or from a U.S. producer.

**PRICE DATA**

Product Definitions:

**Product 1.**-- R-410A in bulk containers (1,000 lbs. or greater);

**Product 2.**-- R-410A in 25-lb. disposable tanks or cylinders;

**Product 3.**-- R-404A in 24-lb. disposable tanks or cylinders;

**Product 4.**-- R-407C in 25-lb. disposable tanks or cylinders;

**Product 5.**-- R-32 in bulk containers (1,000 lbs. or greater);

**Product 6.**-- R-125 in in bulk containers (over 1,000 lbs. or greater).

(d) **Imports for resale.**--During January 2012-March 2015, did your firm import from China and then sell those imports to unrelated U.S. customers ("imports for resale") any of the above listed products (or any products that were competitive with these products) (e.g., imported HFC blends and components in bulk and repackaged it into smaller size containers for resale, these imports will have been reported as part of commercial U.S. shipments in part II of this questionnaire)?

<input type="checkbox"/>	<b>No.</b> --Skip to question III-3.
<input type="checkbox"/>	<b>Yes.</b> --Please complete the following pricing product data table(s) as appropriate.

*Note: As requested in Part I of this questionnaire, please keep all supporting documents/records used in the preparation of the price data, as Commission staff may contact your firm regarding questions on the price data. The Commission may also request that your company submit copies of the supporting documents/records (such as sales journal, invoices, etc.) used to compile these data.*

III-2e. **Imports for resale: Price data.**--Report below the quarterly price data<sup>1</sup> for pricing product<sup>2</sup> imported from China and sold by your firm. Please note that values should be f.o.b., U.S. point of shipment and should not include U.S.-inland transportation costs. Values should reflect the *final net* amount paid by your firm (i.e., should be net of all deductions for discounts or rebates).

## CHINA – PRICING PRODUCTS 1 - 3

**Report data in actual short tons and actual dollars (not 1,000s of dollars).**

<i>(Quantity in pounds , value in dollars)</i>						
Period of shipment	Product 1		Product 2		Product 3	
	Quantity	Value	Quantity	Value	Quantity	Value
<b>2012:</b>						
January-March						
April-June						
July-September						
October-December						
<b>2013:</b>						
January-March						
April-June						
July-September						
October-December						
<b>2014:</b>						
January-March						
April-June						
July-September						
October-December						
<b>2015:</b>						
January-March						

<sup>1</sup> Net values (*i.e.*, gross sales values less all discounts, allowances, rebates, prepaid freight, and the value of returned goods), f.o.b. your firm's U.S. point of shipment.

<sup>2</sup> Pricing product definitions are provided on the first page of Part IV.

**Note.**--If your firm's product does not exactly meet the product specifications but is competitive with the specified product, provide a description of your firm's product. Also, please explain any anomalies in your firm's reported pricing data.

Product 1:

Product 2:

Product 3:

II-2e. **Imports for resale: Price data.**--Report below the quarterly price data<sup>1</sup> for pricing product<sup>2</sup> imported from China and sold by your firm. Please note that values should be f.o.b., U.S. point of shipment and should not include U.S.-inland transportation costs. Values should reflect the *final net* amount paid by your firm (i.e., should be net of all deductions for discounts or rebates).

## CHINA – PRICING PRODUCTS 4 - 6

**Report data in actual pounds and actual dollars (not 1,000s of dollars).**

<i>(Quantity in pounds , value in dollars)</i>						
Period of shipment	Product 4		Product 5		Product 6	
	Quantity	Value	Quantity	Value	Quantity	Value
<b>2012:</b>						
January-March						
April-June						
July-September						
October-December						
<b>2013:</b>						
January-March						
April-June						
July-September						
October-December						
<b>2014:</b>						
January-March						
April-June						
July-September						
October-December						
<b>2015:</b>						
January-March						

<sup>1</sup> Net values (*i.e.*, gross sales values less all discounts, allowances, rebates, prepaid freight, and the value of returned goods), f.o.b. your firm's U.S. point of shipment.

<sup>2</sup> Pricing product definitions are provided on the first page of Part IV.

**Note.**--If your firm's product does not exactly meet the product specifications but is competitive with the specified product, provide a description of your firm's product. Also, please explain any anomalies in your firm's reported pricing data.

Product 4:

Product 5:

Product 6:

III-2f. **Pricing data methodology.**--Please describe the method and the kinds of documents/records that were used to compile your price data.



III-3. **Price setting.**--How does your firm determine the prices that it charges for sales of HFC blends and/or HFC components (*check all that apply*)? If your firm issues price lists, please submit sample pages of a recent list.

Transaction by transaction	Contracts	Set price lists	Other	If other, describe
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

III-4. **Discount policy.**-- Please indicate and describe your firm's discount policies (*check all that apply*).

Quantity discounts	Annual total volume discounts	No discount policy	Other	Describe
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

III-5. **Pricing terms.**--

(a) What are your firm's typical sales terms for HFC blends and/or HFC components imported from China?

Net 30 days	Net 60 days	2/10 net 30 days	Other	Other (specify)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

(b) On what basis are your firm's prices of imported HFC blends and/or HFC components from China usually quoted (*check one*)?

Delivered	F.o.b.	If f.o.b., specify point
<input type="checkbox"/>	<input type="checkbox"/>	

III-6. **Contract versus spot.**--Approximately what share of your firm's sales of HFC blends and/or HFC components imported from China in 2014 was on a (1) long-term contract basis, (2) annual contract basis, (3) short-term contract basis, and (4) spot sales basis?

	Type of sale				Total (should sum to 100.0%)
	Long-term contracts (multiple deliveries for more than 12 months)	Annual contracts (multiple deliveries for 12 months)	Short-term contracts (multiple deliveries for less than 12 months)	Spot sales (for a single delivery)	
<b>Share of 2014 sales</b>	%	%	%	%	0.0 %

III-7. **Contract provisions.**— Please fill out the table regarding your firm's typical sales contracts for HFC blends and/or HFC components from China (or check "not applicable" if your firm does not sell on a long-term, short-term and/or annual contract basis).

Typical sales contract provisions	Item	Short-term contracts (multiple deliveries for less than 12 months)	Annual contracts (multiple deliveries for 12 months)	Long-term contracts (multiple deliveries for more than 12 months)
Average contract duration	<i># of days</i>		365	
Price renegotiation (during contract period)	<i>Yes</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>No</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fixed quantity and/or price	<i>Quantity</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>Price</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>Both</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Meet or release provision	<i>Yes</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>No</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Not applicable		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

III-8. **Lead times.**--What is your firm's share of sales of HFC blends and/or HFC components imported from China from inventory and produced to order and what is the typical lead time between a customer's order and the date of delivery for your firm's sales of HFC blends and/or HFC components?

Source	Share of 2014 sales	Lead time (days)
From your firm's U.S. inventory	%	
From foreign manufacturers' inventory	%	
Produced to order	%	
<b>Total</b> (should sum to 100.0%)	0.0 %	

III-9. **Shipping information.**—

- (a) What is the approximate percentage of the total delivered cost of HFC blends and/or HFC components imported from China that is accounted for by U.S. inland transportation costs?      percent.
- (b) Who generally arranges the transportation to your firm's customers' locations?  
 Your firm     Purchaser (*check one*)
- (c) When your firm sells HFC blends and/or HFC components imported from China, from where is it shipped?  
 Point of importation     Storage facility (*check one*)
- (d) Indicate the approximate percentage of your firm's sales of HFC blends and/or HFC components imported from China that are delivered the following distances from your firm's U.S. point of shipment.

Distance from your firm's U.S. point of shipment	Share
Within 100 miles	%
101 to 1,000 miles	%
Over 1,000 miles	%
<b>Total</b> (should sum to 100.0%)	0.0 %

III-10. **Geographical shipments**--In which U.S. geographic market area(s) has your firm HFC blends and/or HFC components imported from China since January 1, 2012 (check all that apply)?

Geographic area	China
<b>Northeast.</b> --CT, ME, MA, NH, NJ, NY, PA, RI, and VT.	<input type="checkbox"/>
<b>Midwest.</b> --IL, IN, IA, KS, MI, MN, MO, NE, ND, OH, SD, and WI.	<input type="checkbox"/>
<b>Southeast.</b> --AL, DE, DC, FL, GA, KY, MD, MS, NC, SC, TN, VA, and WV.	<input type="checkbox"/>
<b>Central Southwest.</b> --AR, LA, OK, and TX.	<input type="checkbox"/>
<b>Mountains.</b> --AZ, CO, ID, MT, NV, NM, UT, and WY.	<input type="checkbox"/>
<b>Pacific Coast.</b> --CA, OR, and WA.	<input type="checkbox"/>
<b>Other.</b> --All other markets in the United States not previously listed, including AK, HI, PR, and VI.	<input type="checkbox"/>

III-11. **End uses.**— Report your firm's quantity of U.S. commercial shipments in 2014 of imports of HFC blends from China by specific blend and end use.

End-use application	2014					Total commercial U.S. shipments
	R-404A	R-407A	R-407C	R-410A	R-507A	
	Quantity (short tons)					
Residential a/c and heat pumps						0
Commercial a/c						0
Commercial refrigeration						0
Transport refrigeration						0
Process refrigeration						0
Other <sup>1</sup>						0
Total commercial U.S. shipments	0	0	0	0	0	0
<sup>1</sup> Explain the other end uses: _____.						

**RECONCILIATION.**--Data in question II-9 should reconcile with data reported in this question, (i.e., the reconciliations below should return zero, "0"). If the reconciliations are not returning zero, please revise the inconsistency in the data prior to submission of the completed questionnaire to the Commission.

Reconciliation	Total
Should equal zero ("0"), if not revise here (or question II-9).	0

III-12. **Substitutes.**-- Can other products be substituted for HFC blends and/or HFC components?

No                       Yes--Please fill out the table.

Substitute	End use in which this substitute is used	Have changes in the prices of this substitute affected the price for HFC blends and components ?		
		No	Yes	Explanation
1.		<input type="checkbox"/>	<input type="checkbox"/>	
2.		<input type="checkbox"/>	<input type="checkbox"/>	
3.		<input type="checkbox"/>	<input type="checkbox"/>	

III-13. **Demand trends.**-- Indicate how demand within the United States and outside of the United States (if known) for HFC blends and/or HFC components has changed since January 1, 2012. Explain any trends and describe the principal factors that have affected these changes in demand.

Market	Overall increase	No Change	Overall decrease	Fluctuate with no clear trend	Explanation and factors
Within the United States	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Outside the United States	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

III-14. **Product changes.**--Have there been any significant changes in product range, product mix or marketing of HFC blends and/or HFC components since January 1, 2012?

No	Yes	If yes, please describe.
<input type="checkbox"/>	<input type="checkbox"/>	

**III-15. Conditions of competition.—**

(a) Is the HFC blends and/or HFC components market subject to business cycles (other than general economy-wide conditions) and/or other conditions of competition distinctive to HFC blends and/or HFC components?

Check all that apply.	Please describe.
<input type="checkbox"/> <b>No</b>	Skip to question III-16.
<input type="checkbox"/> <b>Yes-Business cycles (e.g. seasonal business)</b>	
<input type="checkbox"/> <b>Yes-Other distinctive conditions of competition</b>	

(b) If yes, have there been any changes in the business cycles or conditions of competition for HFC blends and/or HFC components since January 1, 2012?

No	Yes	If yes, describe.
<input type="checkbox"/>	<input type="checkbox"/>	

**III-16. Supply constraints.—**Has your firm refused, declined, or been unable to supply HFC blends and/or HFC components since January 1, 2012 (examples include placing customers on allocation or “controlled order entry,” declining to accept new customers or renew existing customers, delivering less than the quantity promised, been unable to meet timely shipment commitments, etc.)?

No	Yes	If yes, please describe.
<input type="checkbox"/>	<input type="checkbox"/>	

**III-17. Raw materials.—** How have HFC blends and/or HFC components raw materials prices changed since January 1, 2012?

Overall increase	No change	Overall decrease	Fluctuate with no clear trend	Explain, noting how raw material price changes have affected your firm’s selling prices for HFC blends and/or HFC components.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

III-18. **Interchangeability.**--Are HFC blends and HFC components produced in the United States and in other countries interchangeable (*i.e.*, can they physically be used in the same applications)?

Please indicate A, F, S, N, or O in the table below:

A = the products from a specified country-pair are *always* interchangeable

F = the products are *frequently* interchangeable

S = the products are *sometimes* interchangeable

N = the products are *never* interchangeable

O = *no familiarity* with products from a specified country-pair

Country-pair		Components		Blends	
		China	Other Countries	China	Other Countries
Components	United States			X	X
	China	X		X	X
Blends	United States	X	X		
	China	X	X	X	
For any country-pair producing products that is <i>sometimes</i> or <i>never</i> interchangeable, identify the country-pair and explain the factors that limit or preclude interchangeable use:					

III-19. **Factors other than price.**--Are differences other than price (*e.g.*, quality, availability, transportation network, product range, technical support, *etc.*) between HFC blends and HFC components produced in the United States and in other countries a significant factor in your firm's sales of the HFC blends and HFC components?

Please indicate A, F, S, N, or O in the table below:

A = such differences are *always* significant

F = such differences are *frequently* significant

S = such differences are *sometimes* significant

N = such differences are *never* significant

O = *no familiarity* with products from a specified country-pair

Country-pair		Components		Blends	
		China	Other Countries	China	Other Countries
Components	United States			X	X
	China	X		X	X
Blends	United States	X	X		
	China	X	X	X	
For any country-pair for which factors other than price <i>always</i> or <i>frequently</i> are a significant factor in your firm's sales of HFC blends and components, identify the country-pair and report the advantages or disadvantages imparted by such factors:					



III-20. **Customer identification**--List the names and contact information for your firm's 10 largest U.S. customers for HFC blends and/or HFC components since January 1, 2012. Indicate the share of the quantity of your firm's total shipments of HFC blends and components that each of these customers accounted for in 2014.

	Customer's name	Contact person	Email	Telephone	City	State	Share of 2014 sales (%)
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

III-21. **Other explanations**--If your firm would like to further explain a response to a question in Part III that did not provide a narrative response box, please note the question number and the explanation in the space provided below. Please also use this space to highlight any issues your firm had in providing the data in this section, including but not limited to technical issues with the MS Word questionnaire.

--

**PART IV.--PRODUCT CONSIDERATIONS**

**IV-1. Interchangeability of individual HFC blends with each other.--**

HFC blends and components-pair		Within scope blends			
		R-404A	R-407A	R-407C	R-410A
Within scope blends	R-407A				
	R-407C	X			
	R-410A	X	X		
	R-507A	X	X	X	

For any individual HFC blend comparison that is sometimes or never interchangeable, identify the factors that limit or preclude interchangeable use:

---



---

IV-2. **Semi-finished analysis questions (HFC components vs HFC blends).**--For each of the following individual HFC components, respond to the specified question. If you do not have the knowledge to be able to respond a give HFC component question, please leave your response to that HFC component blank.

- (a) **Uses other than in HFC blend production.**—Indicate whether each individual HFC component has a use other than in the production of downstream HFC blends. If there are uses for individual HFC components other than for use in the production of HFC blends, please indicate what uses those uses are.

HFC component	No.—Dedicated to HFC blends	Yes.—Other uses	Explanation (if yes).—Describe the other uses
R-32	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-125	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-134a	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-143a	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____

- (b) **Differences in markets.**—Are the markets, to the degree that the individual HFC blends are sold commercially, separate and/or distinct from the market(s) for the downstream HFC blends? If there are differences in the markets, please describe them in the space provided. (If there are no markets for the HFC components, check no or leave blank).

HFC component	No.—Similar market(s)	Yes.—Separate/distinct market(s)	Explanation (if yes).—Describe the differences
R-32	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-125	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-134a	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-143a	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____

IV-2. **Semi-finished analysis questions (HFC components vs HFC blends).**—*Continued*

(c) **Similar physical characteristics and functions.**—Are there distinct physical characteristics and functions of HFC components from HFC blends? .

HFC component	No.— Similar	Yes.— Distinct	Explanation (if yes).—Describe the distinct physical characteristics and functions
R-32	<input type="checkbox"/>	<input type="checkbox"/>	_____
R-125	<input type="checkbox"/>	<input type="checkbox"/>	_____
R-134a	<input type="checkbox"/>	<input type="checkbox"/>	_____
R-143a	<input type="checkbox"/>	<input type="checkbox"/>	_____

(d) **Differences in price or value.**—Are there large differences in the price for or value of the individual HFC components from the downstream HFC blends?

HFC component	No.— Similar price/value	Yes.— Divergent price/value	Explanation (if yes).—Describe the differences in and drivers of price/value
R-32	<input type="checkbox"/>	<input type="checkbox"/>	_____
R-125	<input type="checkbox"/>	<input type="checkbox"/>	_____
R-134a	<input type="checkbox"/>	<input type="checkbox"/>	_____
R-143a	<input type="checkbox"/>	<input type="checkbox"/>	_____

IV-2. **Semi-finished analysis questions (HFC components vs HFC blends).**—*Continued*

(e) **Extensive process to convert to HFC blend.**—Is the process to create an HFC blend from the individual HFC component extensive and/or complicated?

HFC component	No.— Simple/ Not extensive	Yes.— Extensive/ complicated	Explanation (if yes).—Describe the complexities of creating an HFC blend
R-32	<input type="checkbox"/>	<input type="checkbox"/>	<hr/> <hr/>
R-125	<input type="checkbox"/>	<input type="checkbox"/>	<hr/> <hr/>
R-134a	<input type="checkbox"/>	<input type="checkbox"/>	<hr/> <hr/>
R-143a	<input type="checkbox"/>	<input type="checkbox"/>	<hr/> <hr/>

IV-3. **Comparability of HFC blends vs HCFC/CFC blends.**--For each of the following indicate whether HFC blends and HCFC/CFC blends are: fully comparable or the same, *i.e.*, have no differentiation between them; mostly comparable or similar; somewhat comparable or similar; never or not-at-all comparable or similar; or no familiarity with products. If there are differences for individual HFC blends vs individual HCFC/CFC blends please provide that information in the narrative fields.

**Definitions of products for comparison**

**“CFC blends.”**--Chlorofluorocarbons (CFCs) are organic compounds that contain only carbon, chlorine, and fluorine. They are commonly known by the DuPont brand name Freon. The most common representative is dichlorodifluoromethane (R-12 or Freon-12). A CFC blend is one that includes chlorofluorocarbons and other components.

**“HCFC blends.”**--Hydrochlorofluorocarbons (HCFCs) are organic compounds that contain only carbon, hydrogen, chlorine, and fluorine. The most common HCFC is R-22 (also known as chlorodifluoromethane or difluoromonochloromethane). An HCFC blend is one that includes hydrochlorofluorocarbons and other components.

(f) **Characteristics and Uses.**--The differences and similarities in the physical characteristics and end uses between HFC blends and HCFC/CFC blends.

Fully comparable	Mostly comparable	Somewhat comparable	Not at all comparable	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their characteristics and uses:

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IV-3. **Comparability of HFC blends vs HCFC/CFC blends.--Continued**

(g) **Interchangeability**--The ability to substitute refined HFC blends and HCFC/CFC blends in the same application.

Fully interchangeable	Mostly interchangeable	Somewhat interchangeable	Not at all interchangeable	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their interchangeability:

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(h) **Manufacturing facilities, production processes, and production employees**-- Whether refined HFC blends and HCFC/CFC blends are manufactured in the same facilities, from the same inputs, on the same machinery and equipment, and using the same employees.

Fully the same	Mostly the same	Somewhat the same	Not at all the same	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their manufacturing processes:

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IV-3. **Comparability of HFC blends vs HCFC/CFC blends.--Continued**

(i) **Channels of distribution.**--Channels of distribution/market situation through which HFC blends and HCFC/CFC blends are sold (i.e., sold direct to end users, through distributors, etc.).

Fully comparable	Mostly comparable	Somewhat comparable	Not at all comparable	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their channels of distribution:

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(j) **Customer and producer perceptions.**--Perceptions as to the differences and/or similarities in HFC blends and HCFC/CFC blends in the market (e.g., sales/marketing practices).

Fully comparable	Mostly comparable	Somewhat comparable	Not at all comparable	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their customer and producer perceptions:

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IV-3. **Comparability of HFC blends vs HCFC/CFC blends.--Continued**

(f) **Price.**--Whether prices are comparable or differ between HFC blends and HCFC/CFC blends.

Fully comparable	Mostly comparable	Somewhat comparable	Not at all comparable	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their prices:

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IV-4. **Comparability of HFC blends vs HFO blends.**--For each of the following indicate whether HFC blends and HFO blends are: fully comparable or the same, *i.e.*, have no differentiation between them; mostly comparable or similar; somewhat comparable or similar; never or not-at-all comparable or similar; or no familiarity with products. If there are differences for individual HFC blends vs individual HFO blends please provide that information in the narrative fields.

**Definitions of products for comparison**

**"HFO blends."**--Hydrofluoroolefins (HFOs) are organic compounds that contain only hydrogen, fluorine, and carbon. They are distinguished from hydrofluorocarbons (HFCs) by being derivatives of alkenes (olefins) rather than alkanes. HFOs are being developed as "fourth generation" refrigerants with lower global-warming potential than HFCs. HFOs currently in use include 2,3,3,3-tetrafluoropropene (HFO-1234yf) and 1,3,3,3-tetrafluoropropene (HFO-1234ze). 1-Chloro-3,3,3-trifluoropropene (HFO-1233zd) is also under development. An HFO blend is one that includes hydrofluoroolefins and other components.

(a) **Characteristics and Uses.**-- The differences and similarities in the physical characteristics and end uses between HFC blends and HFO blends.

Fully comparable	Mostly comparable	Somewhat comparable	Not at all comparable	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their characteristics and uses:

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(b) **Interchangeability.**--The ability to substitute refined HFC blends and HFO blends in the same application.

Fully interchangeable	Mostly interchangeable	Somewhat interchangeable	Not at all interchangeable	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their interchangeability:

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IV-4. **Comparability of HFC blends vs HFO blends.--Continued**

(c) **Manufacturing facilities, production processes, and production employees.**-- Whether refined HFC blends and HFO blends are manufactured in the same facilities, from the same inputs, on the same machinery and equipment, and using the same employees.

Fully the same	Mostly the same	Somewhat the same	Not at all the same	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their manufacturing processes:

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(d) **Channels of distribution.**-- Channels of distribution/market situation through which HFC blends and HFO blends are sold (i.e., sold direct to end users, through distributors, etc.).

Fully comparable	Mostly comparable	Somewhat comparable	Not at all comparable	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their channels of distribution:

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IV-4. **Comparability of HFC blends vs HFO blends.--Continued**

(e) **Customer and producer perceptions.**--Perceptions as to the differences and/or similarities in HFC blends and HFO blends in the market (*e.g.*, sales/marketing practices).

Fully comparable	Mostly comparable	Somewhat comparable	Not at all comparable	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their customer and producer perceptions:

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(f) **Price.**--Whether prices are comparable or differ between HFC blends and HFO blends.

Fully comparable	Mostly comparable	Somewhat comparable	Not at all comparable	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their prices:

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## HOW TO FILE YOUR QUESTIONNAIRE RESPONSE

This questionnaire is available as a “fillable” form in MS Word format on the Commission’s website at:

[http://wwwadmin.usitc.gov/investigations/title\\_7/2015/hydrofluorocarbon\\_blends\\_and\\_components\\_china/preliminary.htm](http://wwwadmin.usitc.gov/investigations/title_7/2015/hydrofluorocarbon_blends_and_components_china/preliminary.htm)

***Please do not attempt to modify the format or permissions of the questionnaire document.*** Please submit the completed questionnaire using one of the methods noted below. If your firm is unable to complete the MS Word questionnaire or cannot use one of the electronic methods of submission, please contact the Commission for further instructions.

- **Upload via Secure Drop Box.**—Upload the MS Word questionnaire along with a scanned copy of the signed certification page (page 1) through the Commission’s secure upload facility:

**Web address:** <https://dropbox.usitc.gov/oinv/>      **Pin:** 1279

- **E-mail.**—E-mail the MS Word questionnaire to [joanna.lo@usitc.gov](mailto:joanna.lo@usitc.gov); include a scanned copy of the signed certification page (page 1). *Please note that submitting your questionnaire by e-mail may subject your firm’s business proprietary information to transmission over an unsecure environment and to possible disclosure. If you choose this option, the Commission warns you that any risk involving possible disclosure of such information is assumed by the submitter and not by the Commission.*

**If your firm did not import this HFC blends and/or HFC components,** please fill out page 1, print, sign, and submit a scanned copy to the Commission.

***Parties to this proceeding.***—If your firm is a party to this proceeding, it is required to serve a copy of the completed questionnaire on parties to the proceeding that are subject to administrative protective order (see 19 CFR § 207.7). A list of such parties may be obtained from the Commission’s Secretary (202-205-1803). A certificate of service must accompany the completed questionnaire you submit (see 19 CFR § 207.7). Service of the questionnaire must be made in paper form.