U.S. PRODUCERS' QUESTIONNAIRE

CERTAIN HYDROFLUOROCARBON 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)).

Name of firm

City	State Zip Code
Website	
Has your firm produced 2012?	d HFC blends or HFC components (as defined on next page) at any time since January 1,
NO (Sign the	e certification below and promptly return only this page of the questionnaire to the Commission)
YES (Complet	ete all parts of the questionnaire, and return the entire questionnaire to the Commission)
following link: https://	s://dropbox.usitc.gov/oinv/. (PIN: 1279)
hat the information h	CERTIFICATION nerein supplied in response to this questionnaire is complete and correct to the best
e and belief and underst of this certification I of on provided in this ques hission on the same or si	nerein supplied in response to this questionnaire is complete and correct to the best stand that the information submitted is subject to audit and verification by the Commission also grant consent for the Commission, and its employees and contract personnel, to use stionnaire and throughout this proceeding in any other import-injury proceedings conductional imilar merchandise.
e and belief and underst of this certification I con on provided in this quest sission on the same or sit edge that information is on, its employees, and cong the records of this pro	nerein supplied in response to this questionnaire is complete and correct to the best stand that the information submitted is subject to audit and verification by the Commission also grant consent for the Commission, and its employees and contract personnel, to a stionnaire and throughout this proceeding in any other import-injury proceedings conductivillar merchandise. Submitted in this questionnaire response and throughout this proceeding may be used contract personnel who are acting in the capacity of Commission employees, for development of the Commission pursuant to 5 U.S.C. Appendix 3. I understand the capacity of Commission of the Commission pursuant to 5 U.S.C. Appendix 3.
e and belief and understood of this certification I con provided in this questission on the same or site edge that information to the progress relating to the progress relating to the progress.	nerein supplied in response to this questionnaire is complete and correct to the best stand that the information submitted is subject to audit and verification by the Commission also grant consent for the Commission, and its employees and contract personnel, to a stionnaire and throughout this proceeding in any other import-injury proceedings conductivillar merchandise. Submitted in this questionnaire response and throughout this proceeding may be used contract personnel who are acting in the capacity of Commission employees, for development of the Commission pursuant to 5 U.S.C. Appendix 3. I understand the capacity of Commission of the Commission pursuant to 5 U.S.C. Appendix 3.

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 subject imports 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://wwwadmin.usitc.gov/investigations/title 7/2015/hydrofluorocarbon blends and components china/preliminary.htm.

<u>Certain hydroflurocarbon blends and components ("HFC blends and components")):</u> 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 these investigations:

(1) <u>R-404A</u>: 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) <u>R-407A</u>: a zeotropic mixture of 20 percent Difluoromethane, 40 percent Pentafluoroethane, and 40 percent eight 1,1,1,2-Tetrafluoroethane.

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

(3) <u>R-407C</u>: 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) <u>R-410A:</u> 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) <u>R-507A:</u> 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 these investigations

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

(6) <u>R-32</u> or Difluoromethane has the chemical formula CH₂F₂, and is registered as CAS No. 75-10-5. It may also be known 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®32, Forane®32, and Klea®32.

(7) <u>R-125</u> or 1,1,1,2,2-Pentafluoroethane has the chemical formula CF_3CHF_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®125, Klea®125, Genetron®125, and Forane®125.

(8) <u>R-143a</u> or 1,1,1-Trifluoroethane has the chemical formula CF_3CH_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®143a, Genetron®143a, and Forane®125.

Products excluded from the scope of these investigations

Excluded from this investigation are:

- (1) Blends of refrigerant chemicals that include products other than HFCs, such as blends including chlorofluorocarbons (CFCs) or hydrochlorofluorocarbons (HCFCs).
- (2) Patented HFC blends, such as ISCEON® blends, including include MO99™ (RR-438A), MO79 (R-422A), MO59 (R-417A), MO49Plus™ (R-437A) and MO29™ (R-422D), and Genetron® Performax™ 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.

<u>Repackers</u>.--This questionnaire DOES NOT apply to firms that only repackage HFC blends or HFC components, whether from domestic or foreign sources. If your firm has both blending and repacking operations, you must remove all information regarding your repacking operations and complete this questionnaire for your blending operations only.

<u>Reporting of information</u>.-- 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.

<u>Confidentiality</u>.--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.

<u>Verification</u>.--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. In addition, if your firm is a U.S. producer, the information you provide on your production and imports of HFC blends and components and your responses to the questions in Part I of the producer questionnaire will be provided to the U.S. Department of Commerce, upon its request, for use in connection with (and only in connection with) its requirement pursuant to section 702(c)(4)/732(c)(4) of the Act (19 U.S.C. § 1671a(c)(4)/1673a(c)(4)) to make a determination concerning the extent of industry support for the petition requesting this proceeding. Any information provided to Commerce will be transmitted under the confidentiality and release guidelines set forth above. Your response to these questions constitutes your consent that such information be provided to Commerce under the conditions described above.

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

Hours	Dollars

No

Yes

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 50 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-1b.	TAA information release In the event that the U.S. International Trade Commission (USITC)
	makes an affirmative final determination in this proceeding, do you consent to the USITC's
	release of your contact information (company name, address, contact person, telephone
	number, email address) appearing on the front page of this questionnaire to the Departments of
	Commerce, Labor, and Agriculture, as applicable, so that your firm and its workers can be made
	eligible for benefits under the Trade Adjustment Assistance program?

I-2.	Establishments coveredProvide the city, state, zip code, and brief description of each
	establishment covered by this questionnaire. If your firm is publicly traded, please specify the
	stock exchange and trading symbol in the footnote to the table. Firms operating more than one
	establishment should combine the data for all establishments into a single report.

"<u>Establishment</u>"--Each facility of a firm involved in the <u>production</u> of HFC components or blends, including auxiliary facilities operated in conjunction with (whether or not physically separate from) such facilities.

Establishments covered ¹	City, State	Zip (5 digit)	Description
1			
2			
3			
4			
5			
6			
1	:	and ideas of in this supprise	

Additional discussion on establishments consolidated in this questionnaire: _____.

China	Support	Oppose	Take no posit
China			
	n owned, in whole or irList the following info		firm?
Firm name	Address		Extent o ownersh (percent
_ No Yes-	List the following info	rmation.	
NO Yes-	Address	rmation.	Affiliation
		rmation.	Affiliation
		rmation.	Affiliation
		rmation.	Affiliation

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). Supply all data requested on a <u>calendar-year</u> basis.

II-1.	Contact informationPlease 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. <u>Changes in operations.</u>—Please indicate whether your firm has experienced any of the following changes in relation to the production of HFC blends or components since January 1, 2012.

(chec	k as many as appropriate)	(please describe)
	plant openings	
	plant closings	
	relocations	
	expansions	
	acquisitions	
	consolidations	
	prolonged shutdowns or production curtailments	
	revised labor agreements	
	other (e.g., technology)	

II-3a. **Production using same machinery.--**Please report your firm's production of products made on the same equipment and machinery used to produce <u>HFC components</u> and <u>HFC blends</u>, and the combined production capacity on this shared equipment and machinery in the periods indicated.

"Overall production capacity" or "capacity" – The level of production that your establishment(s) could reasonably have expected to attain during the specified periods. Assume normal operating conditions (i.e., using equipment and machinery in place and ready to operate; normal operating levels (hours per week/weeks per year) and time for downtime, maintenance, repair, and cleanup).

"Production" – All production in your U.S. establishment(s), including production consumed internally within your firm and production for another firm under a toll agreement.

	Quantity (in short ton	s)		
	Ca	alendar year	January-March		
ltem	2012	2013	2014	2014	2015
Machinery and equipment used to	o produce <u>HF</u>	C componer	nts:		
Overall production capacity					
Production of: HFC components ¹	0	0	0	0	0
Other products ²					
Total	0	0	0	0	0
Machinery and equipment used to	o produce <u>HF</u>	C blends:			
Overall production capacity					
Production of: HFC blends ³	0	0	0	0	0
Other products ⁴					
Total	0	0	0	0	0

¹ Data entered for production of HFC components will populate here once reported in question II-7.

² Please identify the products produced on the same machinery and equipment as the HTC components:

³ Data entered for production of HFC blends will populate here once reported in question II-9.

⁴ Please identify the products produced on the same machinery and equipment as the HTC blends:

II-3b.	-	perating parametersThe production capacity reported in II-3a is based on operating hou er week, weeks per year.						
II-3c.	<u>Capacity allocation</u> If your firm produces products other than HFC components or HFC blends of the same equipment (as reported above), please describe the methodology used to allocate over machinery and equipment capacity reported in question II-3a (above) to the HFC component-specific capacity in reported question II-7 or the HFC blend-specific capacity reported in question 9.							
II-3d.		ction constraint ction capacity.	<u>s</u> Please describ	e the constrair	t(s) that set the limit(s) on your firm's			
II-3e.	HFC co	HFC component product shifting.—						
	(i)	Since January 1, 2012, did your firm produce one or more of the following HFC components: R-32, R-125, R-134a, and R-143a in the United States?						
		No	Yes					
	(ii)	Since January 1, 2012, which of the following HFC components does your firm produce in the United States (check all that apply)?						
		R-32	R-125	R-134a	R-143a			
	(iii)	Is your firm able to switch production from one HFC component to another HFC component?						
		☐ No/NA	Yes (i.e., h		different HFC components on using the	e same		
	(iv) Please describe the factors that affect your firm's ability to shift production capa between HFC components (e.g., time, cost, relative price change, etc.), and the which these factors enhance or constrain such shifts.							

II-3g. Swap Agreements of HFC Components.--"Swap Agreement"--Agreement between two firms whereby firm A produces one HFC component X and trades a portion of that HFC component X with firm B's production and/or imports of HFC component Y. (i) Since January 1, 2012, has your firm been involved in a swap agreement for HFC components in order to produce HFC blends? No Yes--Please describe the nature of the swap arrangement(s), including the parties, description of the merchandise swapped, and the quantities involved. (ii) Since January 1, 2012, has your firm used imported HFC components to satisfy any portion of your swap agreement? No/NA Yes--Please describe the source of the imported HFC components and quantities supplied. II-3h. Product shifting HFC components and other products.— (i) Is your firm able to switch production (capacity) between HFC components and other products using the same equipment and/or labor? No/NA Yes-- (i.e., have produced other products or are able to produce other products). Please identify other actual or potential products: Actual or potential other products (not including other HFC components)

(ii) Please describe the factors that affect your firm's ability to shift production capacity between from any HFC compenent(s) to the "other" products described above (e.g., time, cost, relative price change, etc.), and the degree to which these factors enhance or constrain such shifts.

I-3i.	Type (of operation of HFC blends.—					
	(i)	Since January 1, 2012, did your firm produce one or more of the following HFC blends: R-404A, R-407A, R-407C, R-410A, and R-507A in the United States?					
		No ☐ Yes—continue to part (b) and provide data on these operations in question II-8					
	(ii)	Since January 1, 2012, which of the following HFC blends does your firm produce in the United States (check all that apply)?					
		☐ R-404A ☐ R-407A ☐ R-407C ☐ R-410A ☐ R-507A					
	(iii)	Is your firm able to switch production from one HFC blend to another HFC blend?					
		No☐ Yes (i.e., have produced different HFC blend on using the same equipment and/or labor).					
	(iv)	Please describe the factors that affect your firm's ability to shift production capacity between HFC blends (e.g., time, cost, relative price change, etc.), and the degree to which these factors enhance or constrain such shifts.					
I-3j.	<u>Produ</u>	act shifting HFC blends and other products.—					
	(i)	Is your firm able to switch production (capacity) between HFC blends and other products using the same equipment and/or labor?					
		No Yes (i.e., have produced other products or are able to produce other products). Please identify other actual or potential products:					
		Actual or potential other products (not including other HFC blends)					
	(ii)	Please describe the factors that affect your firm's ability to shift production capacity between products (e.g., time, cost, relative price change, etc.), and the degree to which these factors enhance or constrain such shifts.					

I-3K.	Capita	investments.—						
	(i)	Please describe and quantify the amount of capital investments needed to produce one or more of the HFC components (excluding the costs of any blends operations) in the United States.						
	(ii)	Please describe and quantify the amount of capital investments needed to produce one or more of the HFC blends (excluding the costs of the individual HFC components) in the United States.						
I-4.	produc "Toll a materi	TollingSince January 1, 2012, has your firm been involved in a toll agreement regarding the production of HFC blends and/orHFC components? "Toll agreement"Agreement between two firms whereby the first firm furnishes the raw materials and the second firm uses the raw materials to produce a HFC blends and/or HFC components that it then returns to the first firm with a charge for processing costs, overhead, etc.						
	☐ No	YesPlease describe the toll arrangement(s) and name the firm(s) involved and check all that apply.						
	(Check	all the apply)						
		Our firm is a toller for HFC components (actually produces) using raw materials provided by another firm						
		Our firm is a tollee for HFC components (another firm actually produces) using raw						
		materials provided by our firm Our firm is a toller for HFC blends (actually produces) using raw materials provided by						
		another firm Our firm is a tollee for HFC blends (another firm actually produces) using raw materials provided by our firm						

i-5. <u>Foreign trade zones</u>							
	(a)	<u>Firm's FTZ operations</u> Does your firm produce HFC blends or components in and/or admit HFC blends or components into a foreign trade zone (FTZ)?					
		"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. A foreign trade zone must be designed as such pursuant to the rules and procedures set forth in the Foreign-Trade Zones Act.					
		No YesDescribe the nature of your firms operations in FTZs and identify the specific FTZ site(s).					
	(b)	Other firms' FTZ operations To your knowledge, do any firms in the United States import HFC blends or components into a foreign trade zone (FTZ) for use in distribution of HFC blends or components and/or the production of downstream articles?					
		☐ No/Don't know ☐ YesIdentify the firms and the FTZs.					
I-6.	<u>Import</u>	<u>er</u> Since January 1, 2012, has your firm imported HFC blends or components?					
	"Importer" – The person or firm primarily liable for the payment of any duties on the merchandise, or an authorized agent acting on his behalf. The importer may be the consignee, or the importer of record.						
	☐ No	YesCOMPLETE AND RETURN A U.S. IMPORTERS' QUESTIONNAIRE					

Trade Data Definitions

"Average production capacity" or "capacity" – The level of production that your establishment(s) could reasonably have expected to attain during the specified periods. Assume normal operating conditions (i.e., using equipment and machinery in place and ready to operate; normal operating levels (hours per week/weeks per year) and time for downtime, maintenance, repair, and cleanup; and a typical or representative product mix).

"Production" – All production in your U.S. establishment(s), including production consumed internally within your firm and production for another firm under a toll agreement.

"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 <u>net values</u> (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" – Product 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-7. **Production, shipment and inventory data for HFC components**.--Report your firm's production capacity, production, shipments, and inventories related to the production of HFC components in its U.S. establishment(s) during the specified periods.

Quantit	y (in short tons) a	and value (in \$1	,000)		
	Calendar years			January	-March
Item	2012	2013	2014	2014	2015
Average production capacity ¹ (quantity) (A)					
Beginning-of-period inventories (<i>quantity</i>) (B)					
Production (quantity): R-32 (C)					
R-125 (D)					
R-134a (E)					
R-143a (F)					
Total production of components (G)	0	0	0	0	0
Swap transactions of components: ² Quantity given, net (H)					
Quantity received, net (I)					
Net monetary exchange³ (J)					
Total available for shipment (K) ⁴	0	0	0	0	0
¹ The production capacity (see definitions in weeks per year. Please describe the me II-3a to the subject merchandise reported here ² Please describe the swap transactions inclunonmonetary exchange, (iii) the counterpartie model ³ Was there any monetary consideration extransactions? ☐ No ☐ YesReport the rivalues if your firm received consideration) in li ⁴Total available for shipment in a given year plus production, net of swap exchanges).	ethodology used to e uding (i) the good is to the exchange changed, also knot net amount exchanged	o allocate overa s involved, (ii) hetes), and (iv) the own as a boot in nged (report ne how the amour	ow your firms a economic ratio accounting slar gative values if nt exchanged wa	ccounts for the nale for this bung, involved in t your firm paid, as determined	siness the swap positive

II-7. Production, shipment and inventory data for HFC components.—Continued

Quantity	(in short tons)	and value (<i>in \$1</i>	1,000)		
		Calendar years	January-March		
Item	2012	2013	2014	2014	2015
U.S. shipments of HFC components:5					
Commercial shipments:					
Quantity (L)					
Value (M)					
Internal consumption:					
Quantity (N)					
Value ⁶ (O)					
Transfers to related firms:					
Quantity (P)					
Value ⁶ (Q)					
Export shipments: ⁷					
Quantity (R)					
Value (S)					
End-of-period inventories (quantity) (T)					
⁵ Report all uses of HFC components. If the o	component was	used by your fir	m for the produ	uction of an HF0	C blend,
report the shipment as internal consumption.	Even though r-1	34a is excluded	from the scope	of these invest	igations
when sold unblended, please include r-134a da	ata in this grid as	s the next quest	ion will break-o	ut commercial	U.S.
shipments by specific HFC component.					
⁶ Internal consumption and transfers to relat	ted firms must b	e valued at fair i	market value. I	n the event tha	t your firm
uses a different basis for valuing these transact	ions, please spe	cify that basis (e	e.g., cost, cost p	lus, etc.) and pr	rovide value
data using that basis for each of the periods no	ted above:				

<u>RECONCILIATION OF SHIPMENTS, PRODUCTION, AND INVENTORY.</u>--Generally, the data reported for the end-of-period inventories (i.e., line T) should be equal total product available for shipment (i.e., line K), less total shipments (i.e., lines L, N, P, and R). 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.

⁷ Identify your firm's principal export markets: _

		Calendar years	January-March			
Reconciliation	2012	2013	2014	2014	2015	
K - L - N - P - R - T = should equal zero						
("0") or provide an explanation.1	0	0	0	0	0	
¹ Explanation if the calculated fields above are returning values other than zero (i.e., "0") but are nonetheless accurate:						

II-8. Commercial shipments of components by channel and by product type. -- Report your firm's commercial U.S. shipments by channel and product type.

Quantity (in short tons) and value (in \$1,000)									
		Calendar years	January	-March					
Item	2012	2013	2014	2014	2015				
Commercial U.S. shipments: R-32: Sold to <u>distributors and</u> service companies:									
Quantity (U)									
Value (V)									
Sold to <u>blenders/repackagers</u> <i>Quantity</i> (W)									
Value (X)									
Sold to <u>original equipment</u> <u>manufacturers</u> <i>Quantity</i> (Y)									
Value (Z)									
R-125: Sold to <u>distributors and</u> service companies: Quantity (AA)									
Value (AB)									
Sold to <u>blenders/repackagers</u> <i>Quantity</i> (AC)									
Value (AD)									
Sold to <u>original equipment</u> <u>manufacturers</u> <u>Quantity</u> (AE)									
Value (AF)									

Question continued next page

II-8. Commercial shipments of components by channel and by product type.--Continued

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

<u>RECONCILIATION OF COMMERCIAL SHIPMENTS</u>.--Quantity data broken out by channel and product should sum to equal the quantity and value reported in question II-7 (lines L and M)

		Calendar years	January-March		
Reconciliation	2012	2013	2014	2014	2015
QuantitySum of Quantities in II-8 less quantity reported in II-7 (line L), should equal to zero "0", if not revise	0	0	0	0	0
ValueSum of Values in II-8 less quantity reported in II-7 (line M), should equal to zero "0", if not revise	0	0	0	0	0

II-9. **Production, shipment and inventory data for HFC blends**.--Report your firm's production capacity, production, shipments, and inventories related to the production of HFC components in its U.S. establishment(s) during the specified periods.

Quantity	(in short tons)	and value (<i>in \$1</i>	,000)				
	Calendar years January-March						
Item	2012	2013	2014	2014	2015		
Average production capacity ¹ (quantity) (AS)							
Beginning-of-period inventories (quantity) (AT)							
Production (quantity): R-404A (AU)							
R-407A(AV)							
R-407C (AW)							
R-410A (AX)							
R-507A (AY)							
Total production of blends (AZ)	0	0	0	0	0		
U.S. shipments: Commercial shipments: Quantity (BA)							
Value (BB)							
Internal consumption: Quantity (BC)							
Value ² (BD)							
Transfers to related firms: Quantity (BE)							
Value ² (BF)							
Export shipments: ³ Quantity (BG)							
Value (BH)							
End-of-period inventories (quantity) (BI)							
¹ The production capacity (see definitions in in weeks per year. Please describe the methin reported capacity (use additional pages as new linear lands on sumption, transfers to related fiction event that your firm uses a different basis for value.) and provide value data using that basis for linear lands of linear	hodology used cessary) irms, and swap aluing these traileach of the per	to calculate prod transactions mu nsactions, please	duction capacity st be valued at e specify that ba	, and explain fair market va	lue. In the		

<u>RECONCILIATION OF SHIPMENTS, PRODUCTION, AND INVENTORY.</u>--Generally, the data reported for the end-of-period inventories (i.e., line BI) should be equal to beginning of period inventories (i.e., line AT) plus production (i.e., line AZ), less total shipments (i.e., lines BA, BC, BE, and BI). 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.

		Calendar years	January-March			
Reconciliation	2012	2013	2014	2014	2015	
AT + AZ – BA – BC BE – BG – BI = should equal zero ("0") or provide an						
explanation. ¹	0	0	0	0	0	
¹ Explanation if the calculated fields above are returning values other than zero (i.e., "0") but are nonetheless accurate:						

II-10. <u>Sources of HFC components used in the production of HFC blends</u>.—Report your firm's production of HFC blends, by source of HFC components (R-32, R-124, 134a, and 143a), for the specified periods.

Quantity (in short tons)								
	С	alendar year	s	January-March				
Item	2012	2013	2014	2014	2015			
Production of HFC blends using HFC components Produced in the United States (including swapped) ¹ by your firm (BJ)								
Purchased by your firm and produced in the United States by another firm (BK)								
Total production using domestic components (BL)	0	0	0	0	0			
Imported from China (direct imports or purchases of imports) (BM) ¹								
Imported from sources other than China (direct imports or purchases of imports) (BN) 1								
Total production using imported sources (BO)	0	0	0	0	0			
Total production of blends (BP)	0	0	0	0	0			

¹ Count as domestic any inputs used by your firm with swapped merchandise if your firm gave its own domestic product for a component of foreign origin (knownly or unknownly). Count as foreign any inputs used by your firm (even if the actual component used was produced in the United States) if your firm procured the domestic component pursuant to swap arrangement in which you gave imported components.

<u>RECONCILIATION OF PRODUCTION</u>.—Total production of blends reported in II-10 by source of inputs should equal total production of blends reported in II-9 by type of blend.

		Calendar years		January	-March
Reconciliation	2012	2013	2014	2014	2015
BP – AZ = should equal zero ("0"), if not					
revise	0	0	0	0	0

II-11. Commercial shipments of blends by channel and by product type. -- Report your firm's commercial U.S. shipments by channel and product type.

Quan	tity (in short to	ns) and value (in	\$1,000)	T	
	Cale		January-N		-March
Item	2012	2013	2014	2014	2015
Commercial U.S. shipments: R-404A:					
Sold to <u>distributors and service</u> <u>companies:</u> <u>Quantity</u> (BQ)					
Value (BR)					
Sold to <u>blenders/repackagers</u> <i>Quantity</i> (BS)					
Value (BT)					
Sold to <u>original equipment</u> <u>manufacturers</u> <i>Quantity</i> (BU)					
Value (BV)					
R-407A: Sold to <u>distributors and service</u> companies: Quantity (BW)					
Value (BX)					
Sold to <u>blenders/repackagers</u> <i>Quantity</i> (BY)					
Value (BZ)					
Sold to <u>original equipment</u> <u>manufacturers</u> <i>Quantity</i> (CA)					
Value (CB)					
Commercial U.S. shipments: R-407C: Sold to distributors and service companies: Quantity (CC)					
Value (CD)					
Sold to <u>blenders/repackagers</u> <i>Quantity</i> (CE)					
Value (CF)					
Sold to <u>original equipment</u> <u>manufacturers</u> <i>Quantity</i> (CG)					
Value (CH)					

Question continued next page

II-11. Commercial shipments of components by channel and by product type.--Continued

Quar	ntity (in short to	ons) and value (ir	\$1,000)		
	Calendar years January-Ma		-March		
Item	2012	2013	2014	2014	2015
Commercial U.S. shipments: R-410A: Sold to distributors and service companies: Quantity (CI)					
Value (CJ)					
Sold to <u>blenders/repackagers</u> <i>Quantity</i> (CK)					
Value (CL)					
Sold to <u>original equipment</u> <u>manufacturers</u> <i>Quantity</i> (CM)					
Value (CN)					
R-507A: Sold to <u>distributors and service</u> companies: Quantity (CO)					
Value (CP)					
Sold to <u>blenders/repackagers</u> <i>Quantity</i> (CQ)					
Value (CR)					
Sold to <u>original equipment</u> <u>manufacturers</u> <i>Quantity</i> (CS)					
Value (CT)					

<u>RECONCILIATION OF COMMERCIAL SHIPMENTS.</u>--Quantity data broken out by channel and product should sum to equal the quantity and value reported in question II-9 (lines BA and BB)

		Calendar years		January	-March
Reconciliation	2012	2013	2014	2014	2015
QuantitySum of Quantities in II-11 less quantity reported in II-9 (line BA), should equal to zero "0", if not revise	0	0	0	0	0
ValueSum of Values in II-11 less quantity reported in II-9 (line BB), should equal to zero "0", if not revise	0	0	0	0	0

II-12. **Employment data**.--Report your firm's employment-related data related to the production of HFC blends and HFC components and provide any explanation for any trends in these data.

"Production Related Workers" (PRWs) includes working supervisors and all nonsupervisory workers (including group leaders and trainees) engaged in fabricating, processing, assembling, inspecting, receiving, storage, handling, packing, warehousing, shipping, trucking, hauling, maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with the above production operations.

Average number employed may be computed by adding the number of employees, both full time and part time, for the 12 pay periods ending closest to the 15th of the month and divide that total by 12. For the January to March periods, calculate similarly and divide by 3.

"Hours worked" includes time paid for sick leave, holidays, and vacation time. Include overtime hours actually worked; do not convert overtime pay to its equivalent in straight time hours.

"Wages paid" – Total wages paid before deductions of any kind (e.g., withholding taxes, old-age and unemployment insurance, group insurance, union dues, bonds, etc.). Include wages paid directly by your firm for overtime, holidays, vacations, and sick leave.

		Calendar years		January	_/ -March
ltem	2012	2013	2014	2014	2015
HFC components Average number of PRWs (number)					
Hours worked by PRWs (1,000 hours)					
Wages paid to PRWs (\$1,000)					
HFC blends Average number of PRWs (number)					
Hours worked by PRWs (1,000 hours)					
Wages paid to PRWs (\$1,000)					

Explanation of trends:			

I-13.	Related firms.—If your firm reported transfers to related firms in question II-8, please indicate the nature of the relationship between your firm and the related firms (e.g., joint venture, wholly owned subsidiary), whether the transfers were priced at market value or by a nonmarket formula, whether your firm retained marketing rights to all transfers, and whether the related firms also processed inputs from sources other than your firm.
II-14.	<u>Purchases of HFC components</u> Other than direct imports, has your firm otherwise purchased HFC components since January 1, 2012?
	"Purchase" – A transaction to buy HFC blends and/or HFC components from a U.S. corporate entity such as another U.S. producer, a U.S. distributor, or a U.S. firm that has directly imported the HFC blends and/or HFC components.
	"Direct import" —A transaction to buy from a foreign producer where your firm is the importer of record or consignee. (Per question II-6, if your firm directly imports HFC components or blends it should be submitting a separate U.S. importers' questionnaire response).
	Note.—Re-sales of purchases (including repackaged components) should not be include in questions II-7 through II-13. If purchased goods were blended, then the data on the production of HFC blends should be provided in questions II-9 through II-13.
	No YesReport such purchases below and explain the reasons for your firms' purchases:

	(Quan	tity in short to	ns)		
	(Calendar years		Januar	y-March
Item	2012	2013	2014	2014	2015
HFC components (for blending, repackaging, or resale) Purchases from U.S. importers ¹ of HFC components from— China					
All other sources					
Purchases from domestic producers ²					
Purchases from other sources ²					

¹ Please list the name of the importer(s) from which your firm purchased this product. If your firm's import suppliers differ by source, please identify the source for each listed supplier: _____.

² Please list the name of the producer(s) or U.S. distributor(s) from which your firm purchased this product:

					· /	
II-15.	Purchases of HFC blend blends since January 1,		direct imports	s, has your fir	m otherwise p	urchased HFC
	"Purchase" – A transact entity such as another the HFC blends and/or	U.S. producer, a	U.S. distribut	•		•
	"Direct import" –A tran of record or consignee. blends it should be sub	(Per question	II-6, if your fir	m directly im	ports HFC com	ponents or
	Note.—Re-sales of pure II-9 through II-13.	chases (includin	g repackaged	blends) shou	ld not be inclu	de in questions
	☐ No ☐ Yes	Report such p purchases:	urchases belo	w and explain	n the reasons f	or your firms'
		(Quant	ity in short to	ens)		
		Calendar years			January	y-March
	Item	2012	2013	2014	2014	2015
or resa Pure imp fron	chases from U.S. orters ¹ of HFC blends					
	All other sources					
	chases from domestic ducers ²					
	chases from other rces ²					
supplie	lease list the name of the ir ers differ by source, please lease list the name of the p	identify the sour	ce for each liste	ed supplier:	.	
II-16.	Other evaluations: If	vour firm woul	d like to furth	er explain a r	esponse to a q	uestion in Part II

PART III.--FINANCIAL INFORMATION

Address questions on this part of the questionnaire to David Boyland (202-708-4725, david.boyland@usitc.gov).

	in part III.	aff may contact that individual regarding the confidential information submitted
	Name	
	Title	
	Email	
	Telephone	
	Fax	
III-2.	Accounting sys	stemBriefly describe your firm's financial accounting system.
	A.	When does your firm's fiscal year end (month and day)? If your firm's fiscal year changed during the data-collection period, explain below:
	B.1.	Describe the lowest level of operations (e.g., plant, division, company-wide) for which financial statements are prepared that include HFC blends and components:
	2.	Does your firm prepare profit/loss statements for HFC blends and components: Yes No
	3.	How often did your firm (or parent company) prepare financial statements (including annual reports, 10Ks)? Please check relevant items below. Audited, unaudited, annual reports, 10Ks, 10 Qs, Monthly, quarterly, semi-annually, annually
	4.	Accounting basis: GAAP, cash, tax, or other comprehensive basis of accounting (specify)
	used in regardi submit profit-a	As requested in Part I of this questionnaire, please keep all supporting documents/records the preparation of the financial data, as Commission staff may contact your firming questions on the financial data. The Commission may also request that your company copies of the supporting documents/records (financial statements, including internal and-loss statements for the division or group that includes HFC blends and components, as specific statements and worksheets) used to compile these data.
III-3.	Cost accounting	ng systemBriefly describe your firm's cost accounting system (e.g., standard

J.S. P	roducers' Questionnaire - HFC Blends and Components from Ch	nina (P)	Page 29
II-4.	Allocation basisBriefly describe your firm's allocation basis interest expense and other income and expenses.	s, if any, for COGS, SG&A,	and
I-5.	Other productsPlease list the products your firm produced produced HFC blends and/or HFC components, and provide to by these other products in your firm's most recent fiscal year	the share of net sales acco	•
	Products	Share of sales	
	HFC blends and components	%	
		%	
		%	
		%	
		%	
-6.	Does your firm purchase inputs (raw materials, labor, energy production of HFC blends and/or HFC components from any transactions between related firms, divisions and/or other company)? YesContinue to question III-7.	related suppliers (e.g., incomponents within the sar	clusive of
		•	
I-7.	Inputs from related suppliersPlease identify the inputs use and/or HFC components that your firm purchases from relate in table III-9b. For "Share of total COGS" please report this in basis of your most recently completed fiscal year. For "Input basis, as recorded in your company's own accounting system related supplier; e.g., the related supplier's actual cost, cost papproximate fair market value.	ed suppliers and that are aformation by relevant in valuation" please descril , of the purchase cost fro	reflected put on the pe the om the

Input	Related supplier	Share of total COGS
Input valuation as	recorded in the firm's accounting books	and records

III-8.	related suppliers, as identified in III-7, were reported in tables III-9a and III-9b (financial results on HFC blends and components) in a manner consistent with your firm's accounting books and records.
	Yes
	NoIn the space below, please report the valuation basis of inputs purchased from related suppliers as reported in table III-9a and III-9b.

III-9a. Internally-produced HFC component costs recognized in COGS.—Report the requested cost information specific to HFC components produced in your firm's U.S. establishment(s) and recognized in financial results on HFC blends and components (as reported in table III-9b). The total amount reported in this table should reconcile to the total line item (Cost of internally-produced components recognized in COGS) reported in table III-9b. Input purchases from related suppliers should be consistent with and based on information in the firm's accounting books and records. Provide data for your firm's three most recently completed fiscal years, and for the specified interim periods.

Value (in \$1,000)					
	Fiscal years ended			January-March	
Item	2012	2013	2014	2014	2015
Cost of internally-produced components recognized in COGS (table III-9b): ¹					
Raw materials (internally-produced components)	0	0	0	0	0
Direct labor(internally-produced components)	0	0	0	0	0
Other factory costs (internally-produced components)	0	0	0	0	0
Total cost of internally-produced components	0	0	0	0	0

¹ Total cost of internally-produced components should reconcile to the relevant line item in table III-9b (*Cost of internally-produced components recognized in COGS*).

III-9b. Operations on HFC blends and/or HFC components.--Report the revenue and related cost information requested below on the HFC blends and/or HFC components operations of your firm's U.S. establishment(s). Do not report resales of products. Note that internal consumption and transfers to related firms must be valued at fair market value. Input purchases from related suppliers should be consistent with and based on information in the firm's accounting books and records. Provide data for your firm's three most recently completed fiscal years, and for the specified interim periods. If your firm was involved in tolling operations (either as the toller or as the tollee), please contact David Boyland at (202) 708-4725 before completing this section of the questionnaire.

Quantity	(in short tons) a	nd value (in \$1,0	00)			
	Fiscal years ended			January	-March	
Item	2012	2013	2014	2014	2015	
Net sales quantities: ²						
Commercial sales ("CS")	0	0	0	0	0	
Internal consumption ("IC")	0	0	0	0	0	
Transfers to related firms ("Transfers")	0	0	0	0	0	
Total net sales quantities	0	0	0	0	0	
Net sales values: ² Commercial sales	0	0	0	0	0	
Internal consumption	0	0	0	0	0	
Transfers to related firms	0	0	0	0	0	
Total net sales values	0	0	0	0	0	
Cost of goods sold (COGS): ³ Cost of internally-produced components recognized in COGS ⁴ (from III-9a)	0	0	0	0	0	
Purchased or swapped components recognized in COGS (U.S. origin) ⁵	0	0	0	0	0	
Purchased components recognized in COGS (imported) ⁵	0	0	0	0	0	
All other raw materials (blending operations only)	0	0	0	0	0	
Direct labor (blending operations only)	0	0	0	0	0	
Other factory costs (blending operations only)	0	0	0	0	0	
Total COGS	0	0	0	0	0	
Gross profit or (loss)	0	0	0	0	0	
Selling, general, and administrative (SG&A) expenses: Selling expenses	0	0	0	0	0	
General and administrative expenses	0	0	0	0	0	
Total SG&A expenses	0	0	0	0	0	
Operating income (loss)	0	0	0	0	0	
Other expenses and income: Interest expense	0	0	0	0	0	
All other expense items	0	0	0	0	0	
All other income items	0	0	0	0	0	
Net income or (loss) before income taxes	0	0	0	0	0	
Depreciation/amortization included above	0	0	0	0	0	

³ COGS (whether for domestic or export sales) should include <u>costs associated with CS, IC, and Transfers.</u>

nt SW	AP-related (costs should be consistent with the company's responses to question II-7.			
te		e above contains calculations that will appear when you have entered data in the MS arm fields.			
9c.	Financial data reconciliationThe calculable line items from question III-9b (<i>i.e.</i> , total net sales quantities and values, total COGS, gross profit (or loss), total SG&A, and net income (or loss)) have been calculated from the data submitted in the other line items. Do the calculated fields return the correct data according to your firm's financial records ignoring non-material differences that may arise due to rounding?				
	Yes	NoIf the calculated fields do not show the correct data, please double check the feeder data for data entry errors and revise.			
		Also, check signs accorded to the post operating income line items; the two expense line items should report positive numbers (<i>i.e.</i> , expenses are positive and incomes or reversals are negativeinstances of the latter should be rare in those lines) while the income line item also in most instances should have its value be a positive number (<i>i.e.</i> , income is positive, expenses or reversals are negative).			
		If after reviewing and potentially revising the feeder data your firm has provided, the differences between your records and the calculated fields persist please identify and discuss the differences in the space below.			

¹ Include only sales (whether <u>domestic or export</u>) and costs related to your <u>U.S. manufacturing operations</u>.

² Less discounts, returns, allowances, and prepaid freight. The quantities and values should approximate the corresponding shipment quantities and values reported in Part II of this questionnaire.

⁴ Total cost of internally-produced components recognized in COGS are reported in question III-9a and will populate in this grid.

III-10. Nonrecurring items (charges and gains) included in HFC blends and/or HFC components financial results.--For each annual and interim period for which financial results are reported in question III-9b, please specify all material (significant) nonrecurring items (charges and gains) in the schedule below, the specific table III-9b line item where the nonrecurring items are included, a brief description of the relevant nonrecurring items, and the associated values (in \$1,000), as reflected in table III-9b; i.e., if an aggregate nonrecurring item has been allocated to table III-9b, only the allocated value amount included in table III-9b should be reported in the schedule below. Note: The Commission's objective here is to gather information only on material (significant) nonrecurring items which impacted the reported financial results in table III-9b.

	Fiscal years ended			January-March	
	2012	2013	2014	2014	2015
Nonrecurring item: In this column please provide a brief description of each nonrecurring item and indicate the specific line item in table III-9b where the nonrecurring item is	Nonrecurring item: In these columns please report the amount of the relevant nonrecurring item reported in table III-9b.				
classified.			Value (<i>\$1,000</i>)		
1. , classified as					
2. , classified as					
3. , classified as					
4. , classified as					
5. , classified as					
6. , classified as					
7. , classified as					

III-11.	Classification of identified nonrecurring items (charges and gains) in the accounting books and records of the companyIf non-recurring items were reported in table III-10 above, please identify where your company recorded these items in your accounting books and records in the normal course of business; i.e., III-10 information designates where these items are reported in table III-9b.
	table III-30.

III-12. Property, plant, and equipment and total assets.—Report the property, plant, and equipment (PP&E) and total assets (i.e., both current and long-term assets) associated with the production, warehousing, and sale of HFC blends and/or HFC components. If your firm does not maintain some or all of the specific information necessary to report this information (specific to HFC blends and/or HFC components) in the normal course of business, please estimate this information based upon a method (such as production, sales, or costs) that is consistent with your firm's cost allocations in the table III-9b. Provide data as of the end of your firm's three most recently completed fiscal years.

Note: PP&E and total assets should reflect <u>net assets</u> after any accumulated depreciation and allowances deducted.

PP&E and total assets should be <u>allocated to the subject products</u> if they are also related to other products. Please provide a <u>brief explanation if there are any substantial changes</u> in PP&E and/or total assets during the period; e.g., due to asset write-offs, revaluation, and major purchases.

Value (<i>in \$1,000</i>)					
	Fiscal years ended		January-	March	
Item	2012	2013	2014	2014	2015
Property, plant, and equipment (net) 1					
Total assets (net) ¹					
¹ Describe nature of substantial changes in PP&E and total asset balance					

III-13a. Capital expenditures and research and development expenses.—Report your firm's capital expenditures and research and development expenses on HFC blends and/or HFC components. Provide data for your firm's three most recently completed fiscal years, and for the specified interim periods.

Value (in \$1,000)					
	Fiscal years ended		January	-March	
Item	2012	2013	2014	2014	2015
Capital expenditures					
Research and development expenses					

III-13b.	<u>Capital expenditures</u> Please indicate the nature, focus, and significance of your firm's capital expenditures on HFC blends and/or HFC components.	

III-14.	<u>Data consistency and reconciliation</u> Please indicate whether your firm's financial data for questions III-9b, 12, and 13a are based on a calendar year or on your firm's fiscal year:						
	Calenda	ar year	Fiscal year	Specify fiscal year			
	relevant o	data repo		values reported in question III-9b should reconcile with the ions II-7 and II-9 (including export shipments) as long as they are year basis.			
	Do these	data in q	uestion III-9b	reconcile with relevant data in questions II-7 and II-9?			
	Yes	No	If no, please	explain.			
III-15.	III-15. Effects of importsSince January 1, 2012, has your firm experienced any actual negative on its return on investment or its growth, investment, ability to raise capital, existing development and production efforts (including efforts to develop a derivative or more a version of the HFC blends and/or HFC components), or the scale of capital investments result of imports of HFC blends and/or HFC components from China? No YesMy firm has experienced actual negative effects as follows:						
	Cancellation, postponement, or rejection of expansion projects						
	Denial or rejection of investment proposal						
		Red	uction in the	size of capital investments			
		Reje	ection of bank	loans			
		Low	ering of credi	it rating			
		Problem related to the issue of stocks or bonds					
	Other (specify):						
III-16.	II-16. Anticipated effects of importsDoes your firm anticipate any negative effects due HFC blends and/or HFC components from China?						
	No	Yes	If yes, my	firm anticipates negative effects as follows:			

III-17. Other explanations:--If your firm would like to further explain a response to a question in Part III that did not provide a narrative 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.-- 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).

IV-1. <u>Contact information</u>.--Please identify the individual that Commission staff may contact regarding the confidential information submitted in part IV.

Name	
Title	
Email	
Telephone	
Fax	

PRICE DATA

IV-2. This question requests quarterly quantity and value data for your firm's commercial shipments to unrelated U.S. customers since January 1, 2012 of the following products produced by your firm.

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).

Please note that values should be <u>f.o.b.</u>, <u>U.S.</u> <u>point of shipment</u> and should not include <u>U.S.</u>-inland transportation costs. Values should reflect the *final net* amount paid to your firm (i.e., should be net of all deductions for discounts or rebates).

During January 2012-March 2015, did your firm produce and sell to unrelated U.S. customers any of the above listed products (or any products that were competitive with these products)?

YesPlease complete the following pricing data table(s) as appropriate.
NoSkip to question IV-3.

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.

IV-2a. Price data.--Report below the quarterly price data for pricing products produced and sold by your firm.

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

	Produ	Product 1 Produc		ct 2	Produ	ıct 3
Period of shipment	Quantity	Value	Quantity	Value	Quantity	Value
2012:						
January-March						
April-June						
July-September						
October-December						
2013:						
January-March						
April-June						
July-September						
October-December						
2014:						
January-March						
April-June						
July-September						
October-December						
2015:						
January-March						

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.

NoteIf your firm's product does not exactly meet the product specifications but is competitive with the spec	ified
product, provide a description of your firm's product. Also, please explain any anomalies in your firm's reported	ed
pricing data.	

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:	

² Pricing product definitions are provided on the first page of Part IV.

IV-2a. Price data(continued).--Report below the quarterly price data¹ for pricing products² produced and sold by your firm.

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

	(Qı	uantity <i>in pour</i>	nds , value in do	ollars)								
	Product 4		Product 5		Product 6							
Period of shipment	Quantity	Value	Quantity	Value	Quantity	Value						
2012:												
January-March												
April-June												
July-September												
October-December												
2013:												
January-March												
April-June												
July-September												
October-December												
2014:												
January-March												
April-June												
July-September												
October-December												
2015:												
January-March												
 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. Pricing product definitions are provided on the first page of Part IV. NoteIf 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:												
_			oe the method	and the kind	s of document							

IV-2c. <u>Price data component country-of-origin</u>.--Report below the average share of total quantity of each individual HFC blend pricing products (e.g., products 1 through 4)'s input components by source.

	Percent t			
Product	Domestic components ¹ (percent)	Components imported from China ¹ (percent)	Components imported from all other sources¹ (percent)	Total (should sum to 100.0%)
Product 1 - R-410A in bulk containers (1,000 lbs. or greater)				0.0
Product 2- R-410A in 25- lb. disposable tanks or cylinders				0.0
Product 3- R-404A in 24- lb. disposable tanks or cylinders				0.0
Product 4- R-407C in 25- lb. disposable tanks or cylinders				0.0

¹ Count as domestic any inputs used by your firm with swapped merchandise if your firm gave its own domestic product for a component of foreign origin (knowingly or unknowingly). Count as foreign any inputs used by your firm (even if the actual component used was produced in the United States) if your firm procured the domestic component pursuant to swap arrangement in which you gave imported components.

IV-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

IV-4. <u>Discount policy</u>.--Please indicate and describe your firm's discount policies (*check all that apply*).

Quantity discounts	Annual total volume discounts	No discount policy	Other	Describe

IV-5.	Pricing	terms
IV J.	I IICIIIE	LC11113

(a) What are your firm's typical sales terms for its U.S.-produced HFC blends and/or HFC components?

Net 30 days	Net 60 days	2/10 net 30 days	Other	Other (specify)

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

Delivered	F.o.b.	If f.o.b., specify point

IV-6. <u>Contract versus spot.</u>--Approximately what share of your firm's sales of its U.S.-produced HFC blends and/or HFC components in 2014 was on a (1) long-term contract basis, (2) annual contract basis, (3) short-term contract basis, and (4) spot sales basis?

		Туре о	of sale			
	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)	Total (shoul sum t 100.09	d o
Share of 2014 sales	%	%	%	%	0.0	%

IV-7. <u>Contract provisions.</u>--Please fill out the table regarding your firm's typical sales contracts for U.S.-produced HFC blends and/or HFC components (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	# of days		365	
Price renegotiation	Yes			
(during contract period)	No			
	Quantity			
Fixed quantity and/or price	Price			
ana, er pries	Both			
Meet or release	Yes			
provision	No			
Not applicab	le			

IV-8. <u>Lead times.</u>—What is your firm's share of sales 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 its U.S.-produced HFC blends and/or HFC components?

Source	Share of 2014 sales	Lead time (days)
From inventory	%	
Produced to order	%	
Total (should sum to 100.0%)	0.0 %	

IV-9.	Shipping	informatio	n

(a)	What is the approximate percentage of the total delivered cost of U.Sproduced HFC blends and/or HFC components 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) Indicate the approximate percentage of your firm's sales of HFC blends and/or HFC components that are delivered the following distances from its production facility.

Distance from production facility	Share
Within 100 miles	%
101 to 1,000 miles	%
Over 1,000 miles	%
Total (should sum to 100.0%)	0.0 %

IV-10. <u>Geographical shipments.--</u> In which U.S. geographic market area(s) has your firm sold its U.S.-produced HFC blends and/or HFC components since January 1, 2012 (check all that apply)?

Geographic area	√ if applicable
NortheastCT, ME, MA, NH, NJ, NY, PA, RI, and VT.	
MidwestIL, IN, IA, KS, MI, MN, MO, NE, ND, OH, SD, and WI.	
Southeast.—AL, DE, DC, FL, GA, KY, MD, MS, NC, SC, TN, VA, and WV.	
Central Southwest.—AR, LA, OK, and TX.	
Mountains.–AZ, CO, ID, MT, NV, NM, UT, and WY.	
Pacific Coast.–CA, OR, and WA.	
Other .—All other markets in the United States not previously listed, including AK, HI, PR, and VI, among others.	

IV-11. <u>End uses.</u>—For 2014, report the quantity of U.S. commercial shipments of your firm's U.S. produced blends by end use.

			20)14		
						Total commercial U.S.
	R-404A	R-407A	R-407C	R-410A	R-507A	shipments
End-use application			Quantity (short tons)		
Residential a/c and heat pumps						0
Commercial a/c						0
Commercial refrigeration						0
Transport refrigeration						0
Process refrigeration						0
Other ¹						0
Total commercial U.S. shipments	0	0	0	0	0	0
¹ Explain the other end uses:						

<u>RECONCILIATION OF SHIPMENTS, PRODUCTION, AND INVENTORY.</u>—Data in question II-11 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	R-404A	R-407A	R-407C	R-410A	R-507A	Total
Should equal zero ("0"), if not						
revise here (or question II-11).	0	0	0	0	0	0

IV-1	12. Substitutes Ca	n other products be substitute	d for I	HFC b	lends and/or HFC components?
	☐ No	YesPlease fill out	the tak	ole.	
		End use in which this			anges in the prices of this substitute the price for HFC blends and/or HFC components?
	Substitute	substitute is used	No	Yes	Explanation
1.					
2.					
3.					

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tates (if k	nown) for	r HF0	C blends a	nd/or HFC o	components ha	States and outside of the United as changed since January 1, 2012 ave affected these changes in
Market	Over		No change	Overall decrease	Fluctuate with no clear trend	Explanation and factor
Within the Unite States	ed 🗌					
Outside the Unite States	l —					
			, -	r		anuary 1, 2012?
No	Yes	If y	es, please	describe a	nd quantify if	possible.
No	Yes	If y	es, please	describe a	nd quantify if	possible.
Conditions (a) Is the gene	s of comp e HFC bleed	etiti nds a	on and/or HF wide cond	C compone litions) and	nts market suk	oject to business cycles (other th
Conditions (a) Is the gene	e HFC bleeral econo blends an	etiti nds a omy- nd/or	on and/or HF wide cond	C compone litions) and ponents? If	nts market suk /or other cond	oject to business cycles (other th
Conditions (a) Is the general HFC	e HFC bleeral econo blends an	etiti nds a omy- nd/or	on and/or HF wide cond	C compone litions) and ponents? If Pl	nts market suk /or other cond yes, describe.	oject to business cycles (other th itions of competition distinctive
Conditions (a) Is the general HFC	e HFC bleeral econoblends and	etiti nds a pmy- nd/or	on and/or HF wide cond	C compone litions) and ponents? If Pl	nts market sub /or other cond yes, describe. ease describe.	oject to business cycles (other th itions of competition distinctive
Conditions (a) Is the general HFC	e HFC bleed and blends and that apply No Yes-Buseason Yes-Otto	etiti nds a pmy- nd/or	on and/or HF wide cond r HFC com	C compone litions) and ponents? If PI Sk (e.g.	nts market sub /or other cond yes, describe. ease describe.	oject to business cycles (other th itions of competition distinctive
Conditions (a) Is the gene HFC Check all the conditions (b) If yes	s of comp e HFC blee eral econo blends an that apply No Yes-Bu season Yes-Of condit	etiti nds a pmy- nd/or yy. usine nal b ther tions	ess cycles ousiness) distinctives of compe	C compone litions) and ponents? If Pla Sk (e.g. e etition	nts market suk /or other cond yes, describe. ease describe. ip to question	oject to business cycles (other the itions of competition distinctive IV-16.

IV-16.	<u>Supply constraints.</u> 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.

IV-17. Raw materials.--How have HFC blends and component 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 constituents.

IV-18. <u>Interchangeability.--</u>Are HFC blends and/or 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 0 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

0 = no familiarity with products from a specified country-pair

Country-pair		Compo	onents	Blends	
		China	Other Countries	China	Other Countries
	United States				
Components	China				
	United States				
Blends	China			\searrow	

For any country-pair producing HFC blends and/or HFC components that is *sometimes* or *never* interchangeable, identify the country-pair and explain the factors that limit or preclude interchangeable use:

IV-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/or HFC components produced in the United States and in other countries a significant factor in your firm's sales of the products?

Please indicate A, F, S, N, or 0 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

0 = no familiarity with products from a specified country-pair

o moralimante, that produces from a specifical country pair					
Country-pair		Compo	onents	Blends	
		China	Other Countries	China	Other Countries
6	United States				
Components	China				
	United States				
Blends	China				

For any country-pair for which factors other than price *always* or *frequently* are a significant factor in your firm's sales of HFC blends and/or HFC components, identify the country-pair and report the advantages or disadvantages imparted by such factors:

IV-20. <u>Customer identification</u>--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							

	IV-21.	Competitio	n from i	imports
--	--------	------------	----------	---------

(a)	Lost revenueSince January 1, 2012: To avoid losing sales to competitors selling HFC
	blends and/or HFC components from China, did your firm:

	No	Yes
Reduce prices		
Roll back announced price increases		

(b) <u>Lost sales.</u>--Since January 1, 2012: Did your firm lose sales of HFC blends and components to imports of this HFC blends and/or HFC components from China?

No	Yes

(c) The submission of lost sales/lost revenue allegations is to be completed only by NON-PETITIONERS. (Note: petitioners may provide allegations involving quotes made AFTER the filing of the petition.) Please do not resubmit allegations provided previously.

If your firm indicated "yes" to any of the above, your firm can provide the Commission with additional information by downloading and completing the lost sales/lost revenues worksheet at http://usitc.gov/trade_remedy/question.htm. Note that the Commission may contact the firms named to verify the allegations reported.

Is your firm submitting the lost sales/lost revenues worksheet?

No—Please explain.
Yes—Please complete the worksheet and submit via the Commission dropbox. https://dropbox.usitc.gov/oinv/ . (PIN: 1279)

IV-22.	Other explanationsIf your firm would like to further explain a response to a question in Part IV
	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.

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PART V.--PRODUCT COMPARISONS

V-1. <u>Interchangeability of individual HFC blends with each other</u>.--Are individual HFC blends interchangeable with each other for use in the same end use applications (*i.e.*, can they physically be used in the same applications)?

Please indicate A, F, S, N, or 0 in the table below:

A = the blends are *always* interchangeable

F = the blends are *frequently* interchangeable

S = the blends are *sometimes* interchangeable

N = the blends are *never* interchangeable

0 = *no familiarity* with blend being compared

Product-pair			Within scope blends				
		R-404A	R-407A	R-407C	R-410A		
	R-407A						
Within	R-407C						
scope blends	R-410A		\nearrow				
	R-507A						

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

- V-2. <u>Semi-finished HFC components vs HFC blends</u>.--For each of the following individual HFC components. If you do not have the knowledge to be able to respond this question, please leave it blank.
 - (a) <u>Uses other than in HFC blend production</u>.—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 component other than for use in the production of HFC blends, please indicate what uses those uses are.

HFC component	No Dedicated	YesOther uses	Explanation (if yes).—Describe the other uses
R-32			
R-125			
R-134a			
R-143a			

(b) <u>Differences in markets</u>.—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			
R-125			
R-134a			
R-143a			

V-2. <u>Semi-finished HFC components vs HFC blends</u>.—Continued

(c) <u>Similar physical characteristics and functions</u>.—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			
R-125			
R-134a			
R-143a			

(d) <u>Differences in price or value</u>.—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			
R-125			
R-134a			
R-143a			

- V-2. <u>Semi-finished HFC components vs HFC blends</u>.—*Continued*
 - (e) <u>Extensive process to convert to HFC blend</u>.—Is the process to create an HFC blend from the individual HFC component extensive and/or complicated?

HFC component	No.— Simple	Yes.— Extensive/ complicate d	Explanation (if yes).—Describe the complexities of creating an HFC blend
R-32			
R-125			
R-134a			
R-143a			

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V-3. Comparability of HFC blends vs HCFC/CFC blends.--For each of the following indicate whether refined 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.

<u>Definitions of like products</u> (<u>+Link</u> to previous defined products)

"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.

(a) <u>Characteristics and Uses</u>.-- The differences and similarities in the physical characteristics and end uses between HFC blends and HCFC/CFC blends.

	Mostly	Somewhat	Not at all			
Fully comparable comparable		comparable	comparable	NA/no familiarity		
Please provide a narrative discussion for the comparability ratings you provided in terms of their characteristics and uses:						
	eabilityThe ability eapplication.	to substitute refine	d HFC blends and H	CFC/CFC blends		
Fully	Mostly	Somewhat	Not at all	NA/no		
interchangeable	interchangeable	interchangeable	interchangeable	familiarity		
Please provide a na their interchangeab		or the comparability	ratings you provide	d in terms of		

V-3.	Comparability	of HFC blends vs HCFC	/CFC blendsContinued
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(c)	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.

employees				
		Somewhat the	Not at all the	
Fully the same	Mostly the same	same	same	NA/no familiarity
manufacturing pro	<u>cesses</u> : of distribution Cha and HCFC/CFC blei	or the comparability annels of distribution	n/market situation	through which
	Mostly	Somewhat	Not at all	
Fully comparable	comparable	comparable	comparable	NA/no familiarity
Please provide a na channels of distribu		or the comparability	ratings you provid	ed in terms of their

V-3.	Comparability	of HFC blends vs HCFC	/CFC blendsContinued
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(e)	<u>Customer and producer perceptions</u> Perceptions as to the differences and/or
	similarities in HFC blends and HCFC/CFC blends in the market (e.g., sales/marketing
	practices).

	Mostly	Somewhat	Not at all	
Fully comparable	comparable	comparable	comparable	NA/no familiarity
Please provide a na customer and prod	nrrative discussion foucer perceptions:	or the comparability	ratings you provide	ed in terms of their
(f) <u>Price</u> Who blends.	ether prices are con	nparable or differ be	etween HFC blends a	and HCFC/CFC
	Mostly	Somewhat	Not at all	
Fully comparable	comparable	comparable	comparable	NA/no familiarity
Please provide a na prices:	errative discussion fo	or the comparability	ratings you provide	ed in terms of their

V4. <u>Comparability of HFC blends vs HFO blends.</u>--For each of the following indicate whether refined 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.

<u>Definitions of like products</u> (+Link to previous defined products)

"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) <u>Characteristics and Uses</u>.--The differences and similarities in the physical characteristics and end uses between HFC blends and HFO blends.

	Mostly	Somewhat	Not at all	
Fully comparable	comparable	comparable	comparable	NA/no familiarity
Please provide a na characteristics and	irrative discussion fo uses:	or the comparability	ratings you provide	d in terms of their
(b) <u>Interchang</u> same appli	eability The ability cation.	to substitute refine	d HFC blends and H	FO blends in the
Fully	Mostly	Somewhat	Not at all	NA/no
interchangeable	interchangeable	interchangeable	interchangeable	familiarity
Please provide a na their <u>interchangeal</u>	nrrative discussion fobility:	or the comparability	ratings you provide	d in terms of

V-4. C	omparabilit	/ of HFC blends vs HFC	O blends <i>Continued</i>
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(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.

		Somewhat the	Not at all the	
Fully the same	Mostly the same	same	same	NA/no familiarity
Please provide a na manufacturing pro		or the comparability	ratings you provide	ed in terms of their
		annels of distributio e sold (i.e., sold dire	· •	•
	Mostly	Somewhat	Not at all	
Fully comparable	comparable	comparable	comparable	NA/no familiarity
Please provide a na channels of distribu		or the comparability	ratings you provido	ed in terms of their

V-4. Comparability of AFC Dienus vs AFC DienusContinu	V-4.	Comparability of HFC blends vs HFO blendsContinued
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(e)	<u>Customer and producer perceptions</u> Perceptions as to the differences and/or
	similarities in HFC blends and HFO blends in the market (e.g., sales/marketing
	practices).

	Mostly	Somewhat	Not at all	
Fully comparable	comparable	comparable	comparable	NA/no familiarity
Please provide a na customer and prod		or the comparability	ratings you provide	ed in terms of thei
(f) <u>Price</u> Wh	ether prices are con	nparable or differ be	etween HFC blends	and HFO blends.
	Mostly	Somewhat	Not at all	
Fully comparable	comparable	comparable	comparable	NA/no familiarity
Please provide a na	irrative discussion fo	or the comparability	ratings you provide	ed in terms of their

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 an d 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.

• <u>Upload via Secure Drop Box</u>.—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; 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 <u>does not</u> produce HFC blends and/or HFC components in the United States, please fill out page 1, print, sign, and submit a scanned copy to the Commission.

<u>Parties to this proceeding</u>.—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.