

Subpart OO - Special 2011 - 2014 Backyear Form for Facilities tha

Worksheet Instructions:

Please complete Part 1 below. If applicable, please identify the processes that produce or will be used as the basis for the process identification picklists presented on the Products

Version:

A.01

External Links:

Back-year Reporting Resource Page: <https://ccdsupport.com/confluence/display/help/e>

Uploading Back-year GHGRP Data: <https://ccdsupport.com/confluence/pages/viewpa>

Notice of Data Availability: <https://www.epa.gov/ozone-layer-protection/notic>

Workbook Navigation:

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[Part 2 - Production & Transformation Process Information](#)

[Part 2a - Production Process Information](#)

[Part 2b - Transformation Process Information](#)

Part 1 - Facility Information

Instructions: Complete the following facility information.

Facility Name:	
GHGRP ID:	
Reporting Period:	

Part 2 - Production/Transformation/Destruction Process Informati

Instructions: Identify and describe each production/transformation/destruction proc again on the Products and Onsite Transformation tabs when you enter product info "Transformation or Destruction Process" in Column C.

Unique Identifier [98.416(a)]	Is the unique identifier associated with an F-GHG, F-HTF, or N ₂ O production process, an F-GHG, F-HTF, or N ₂ O transformation/ destruction process or both?
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Part 2 - Produce, Transform, or Destroy

Updated:

2/22/2021

transform F-GHGs, F-HTFs, and/or N₂O at the facility in Part 2 of this page. and Onsite Transformation pages. Please do not skip rows.

[E-GGRT+and+HFC+Data+Reporting+related+to+AIM+page.action?pagelId=804945999">E-GGRT+and+HFC+Data+Reporting+related+to+AIM+page.action?pagelId=804945999](#)
[Data-availability-relevant-united-states-hydrofluorocarbon-baselines">Data-availability-relevant-united-states-hydrofluorocarbon-baselines](#)

[Part 3 - On-Site Destruction Information](#)

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on

process at the facility. Each identifier entered in Column B must be unique information. Note: If your facility only operates processes that destroys F-

[illegible]

[illegible]

Process Identifiers entered in Column B

. These identifiers will be referenced
 -GHGs and/or F-HTFs please select

Does the process transform or destroy the F-GHG, F-HTFs, or N₂O produced at an off-site location?

[98.416(a)(2)]

[illegible]

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Subpart OO - Special 2011 - 2014 Backyear Form for Facilities t

Worksheet Instructions:

Please identify the F-GHGs, F-HTFs, and/or N₂O produced by processes at the facility. The common F-GHGs is presented in Col C. If the product in question is not present in Col C, it is not found on the Listed F-GHGs page.

Version:

A.01

External Links:

Back-year Reporting Resource Page: <https://ccdsupport.com/confluence/display/help>

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Notice of Data Availability: <https://www.epa.gov/ozone-layer-protection/no>

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Part 2a - Production Process Information

Instructions: Identify each F-GHG, F-HTF, or N₂O produced by the process. Repor

	Unique Production Process Identifier [98.416(a)]	Gas
		Produced by the process
		If not listed, select "Search Extended List" F-GHG or F-HTF not listed" and enter the identifier. If the process produces two or more F-GHGs simultaneously, by weight, list the individual F-GHG constituents.
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What Produce, Transform, or Destroy

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. For each product, identify process in Column B and the name of the product in Column C then select "Search Extended List" and find the product in Column D.

[e-GGRT+and+HFC+Data+Reporting+related+to+AIM+and+the+2013+Inventory+Report+page.action?pageId=804945999">e-GGRT+and+HFC+Data+Reporting+related+to+AIM+and+the+2013+Inventory+Report](#)
[notice-data-availability-relevant-united-states-hydrofluorocarbon-baseline">notice-data-availability-relevant-united-states-hydrofluorocarbon-baseline](#)

[Part 3 - On-Site Destruction Information](#)
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Do not report the production of blend components, but not the production of

Processes	CASRN:
Produced F-GHG, F-HTF, or N ₂ O	
To activate column 'D' for a comprehensive list or select "Other information required in columns 'F', 'G', 'H', and 'I'. If the process produces, and their concentrations in the product exceed 0.1 percent by weight of the product in order of declining concentrations in the product	
[98.416(a)(1)]	

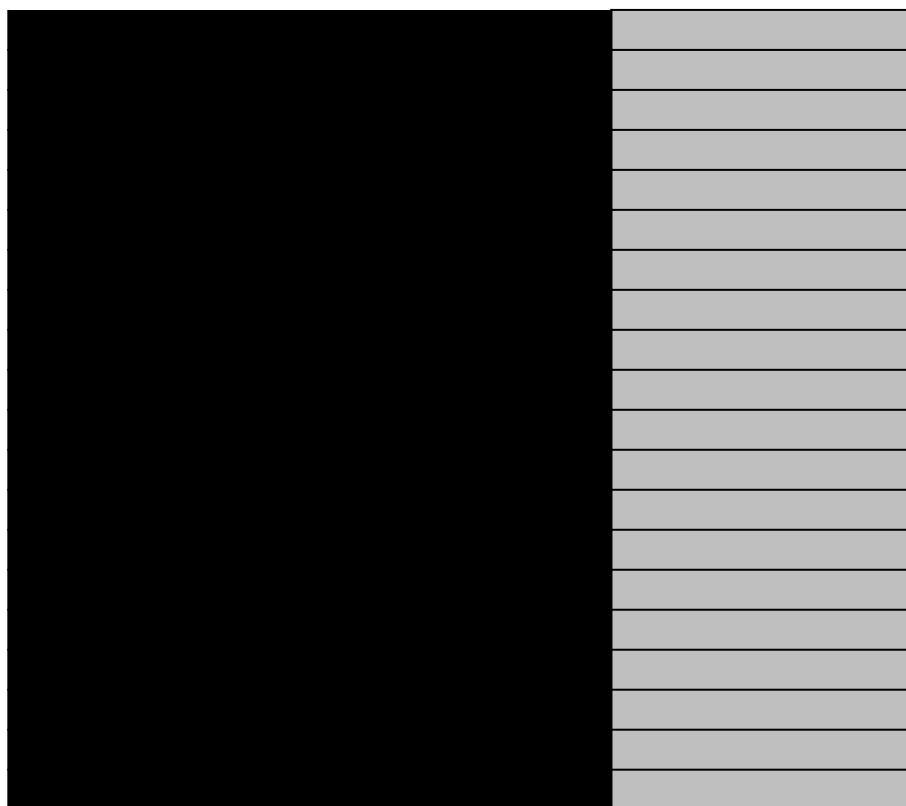
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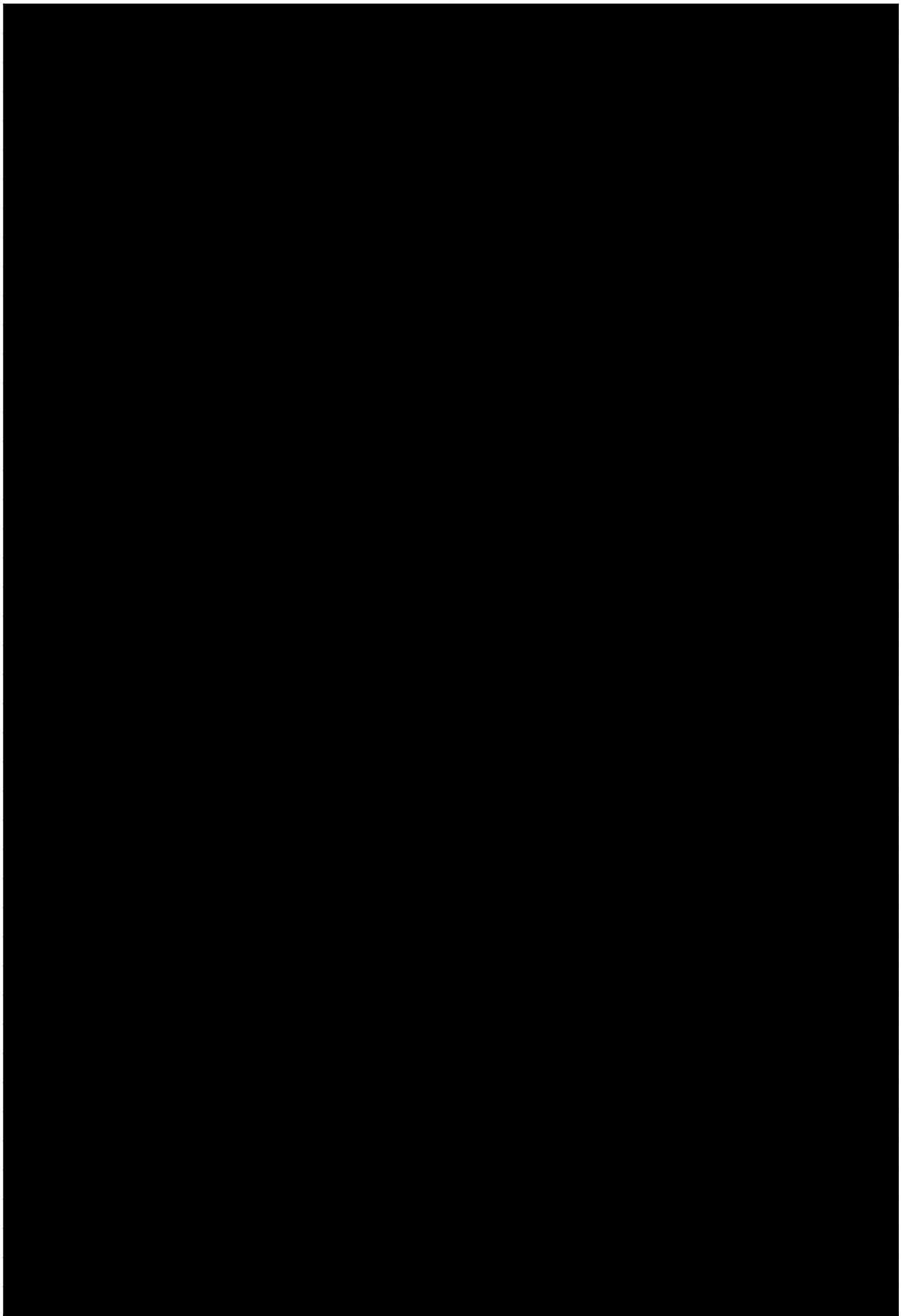
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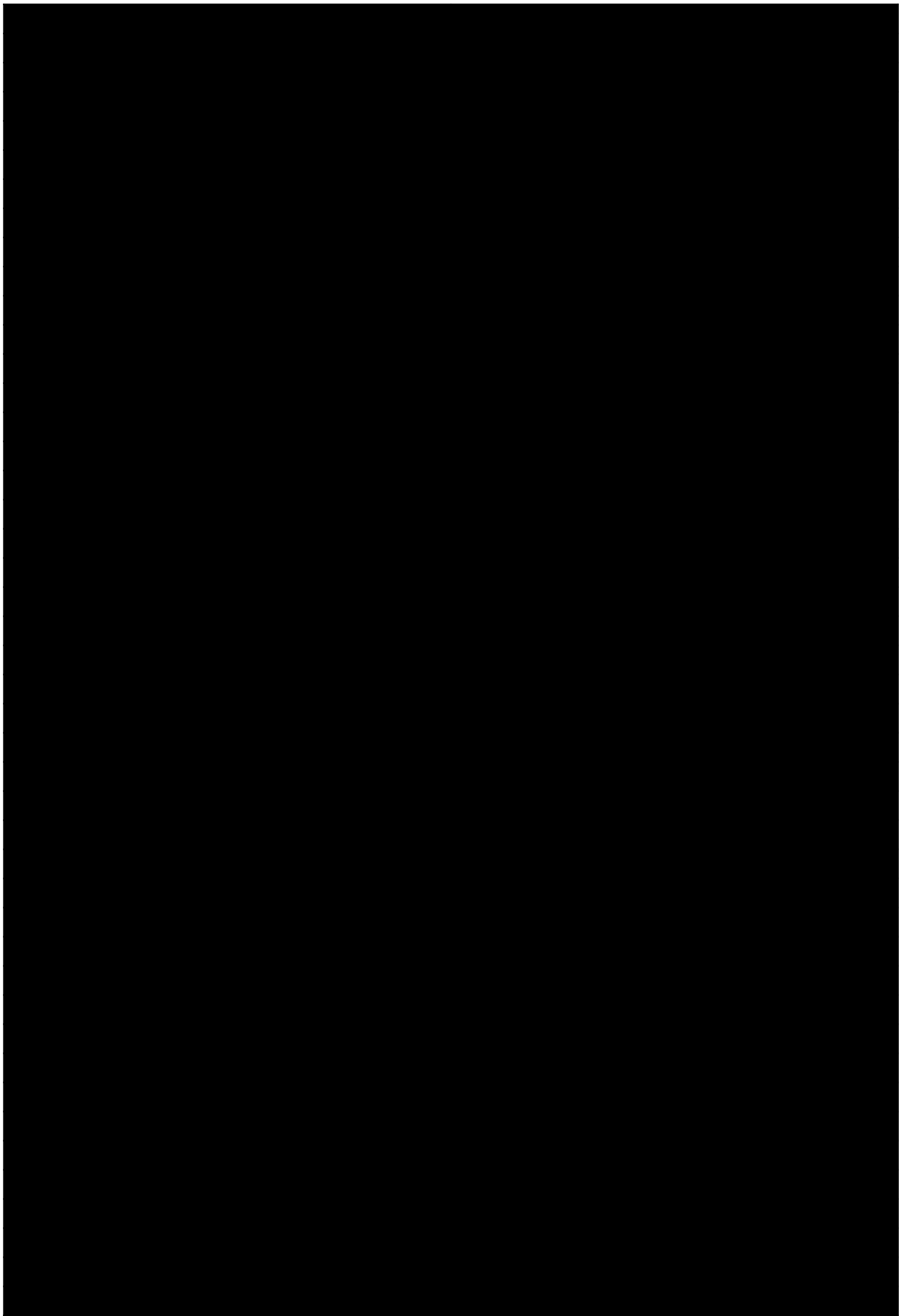


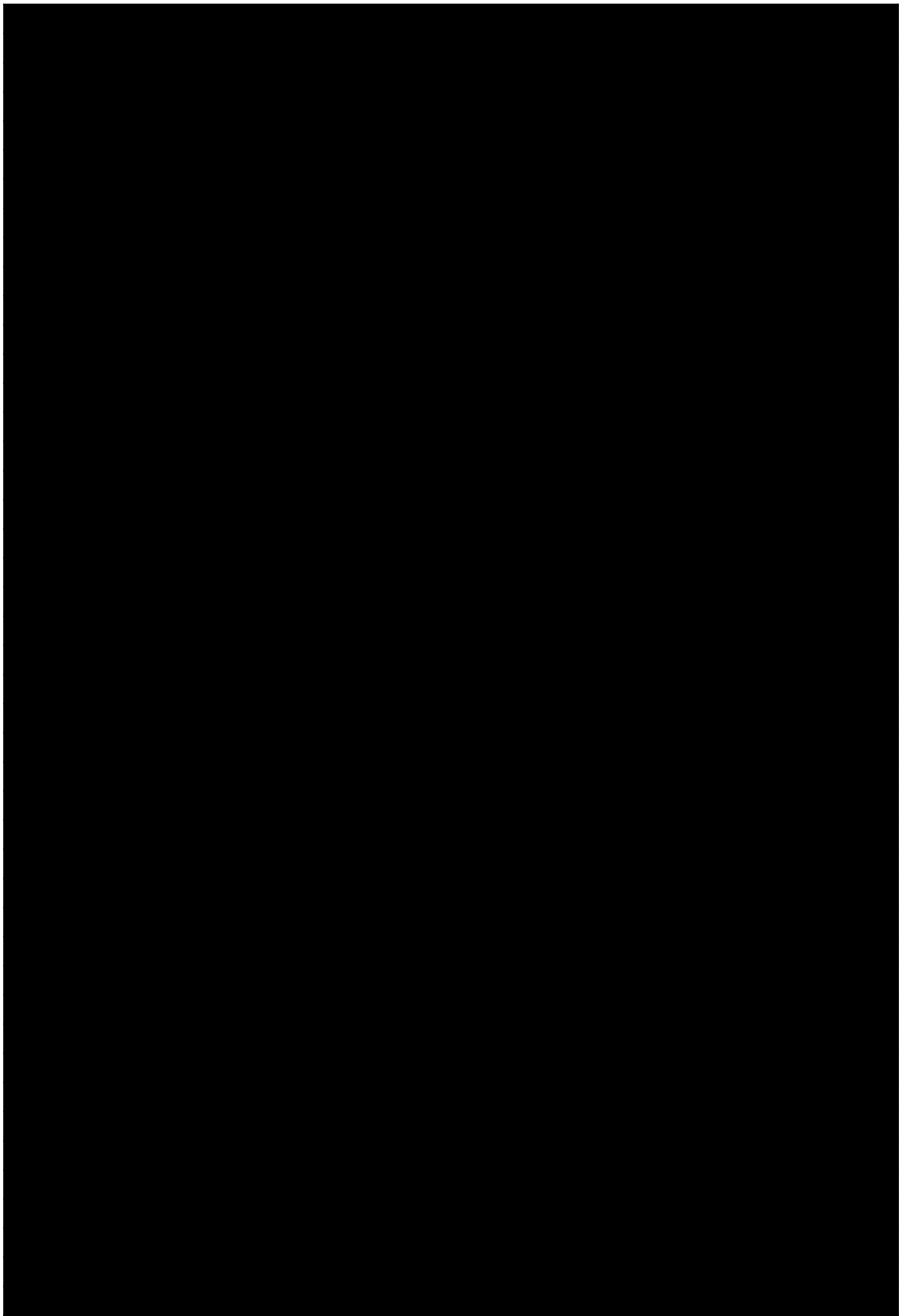
product in Columns C and D. A list of umn D. A complete list of products can be
es

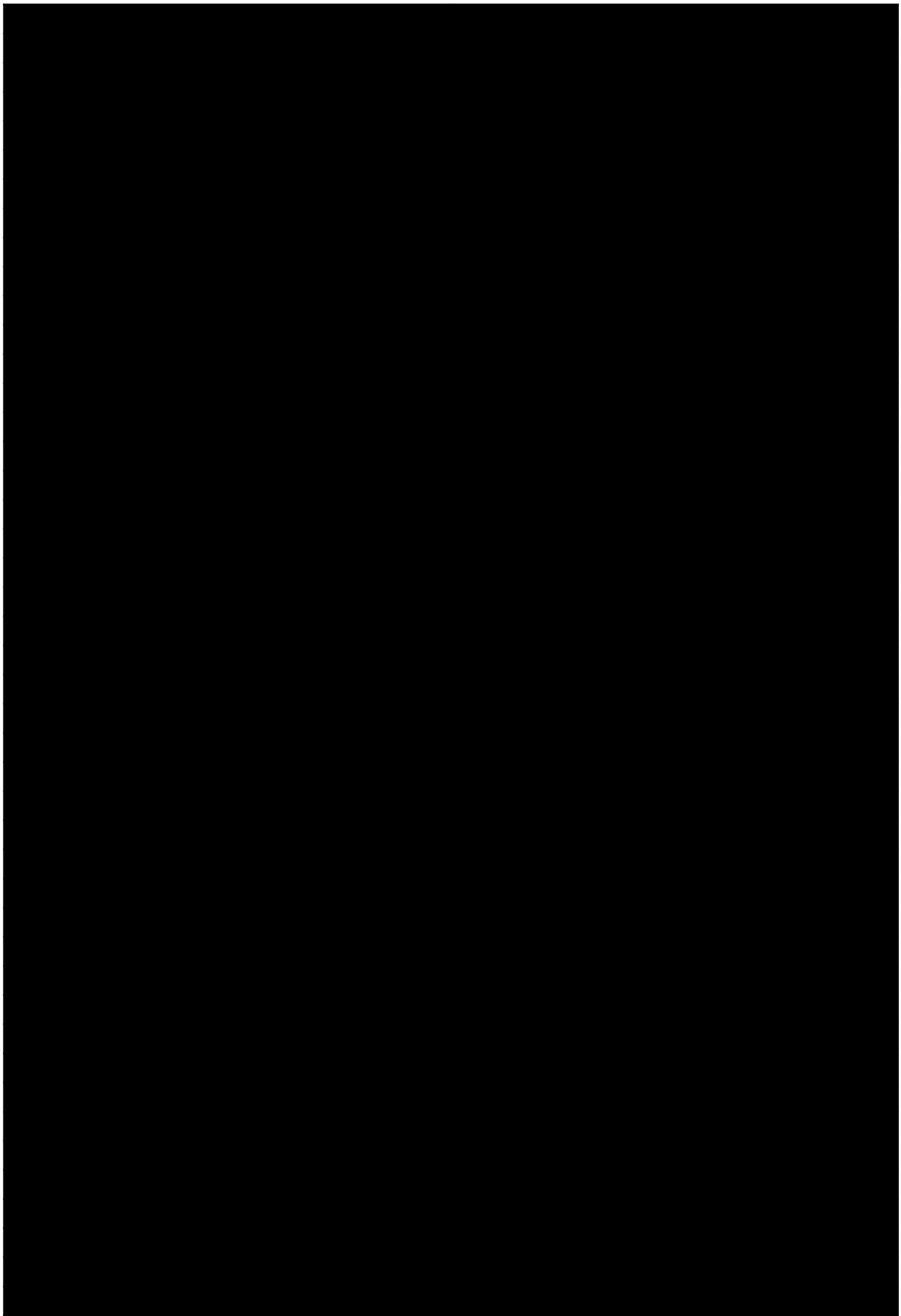
f blends (unless the “blend” consists of F-GHG components that are simultaneously pro

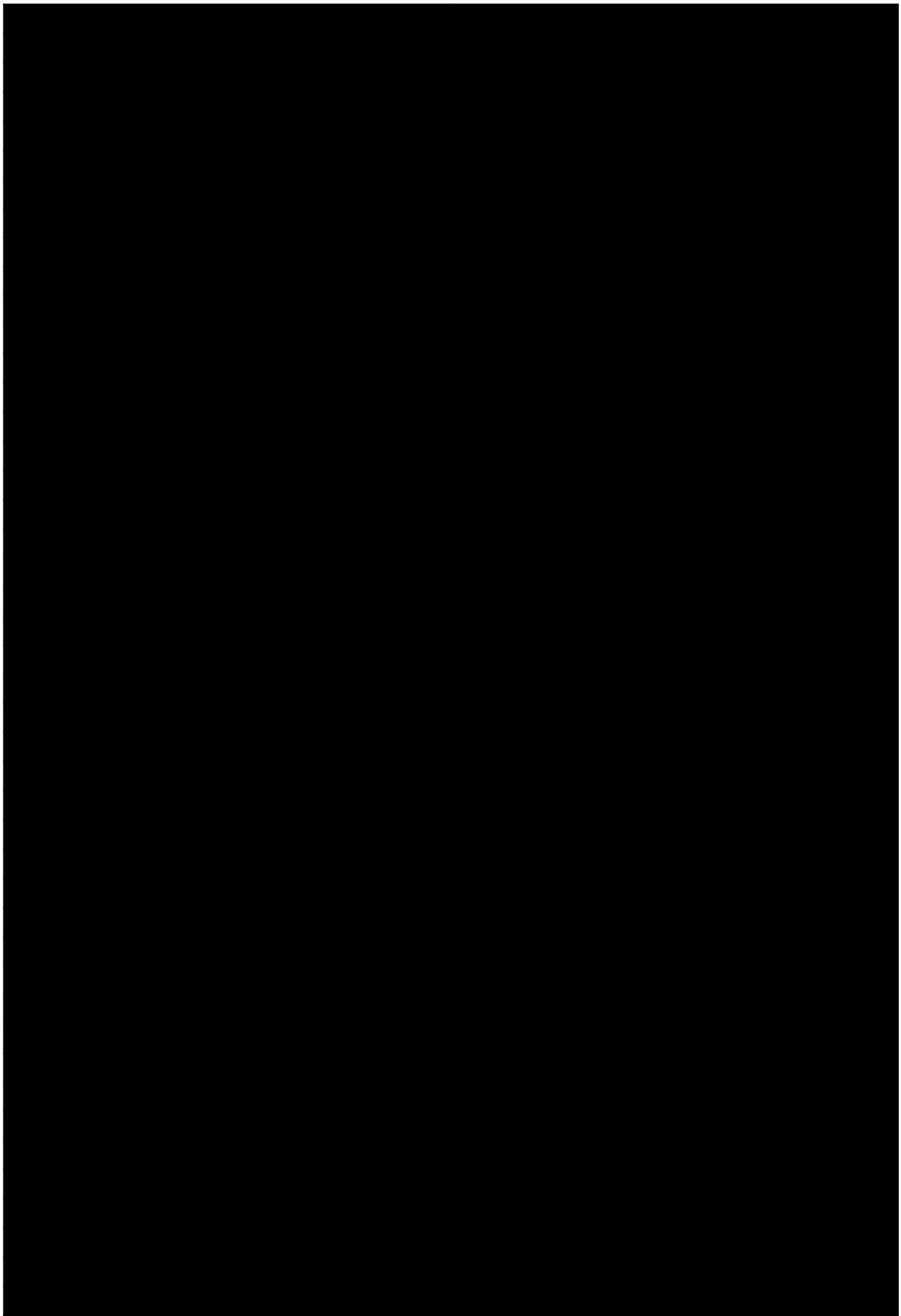
Other F-GHG:	CASRN:
<p>If an F-GHG chemical is not listed, search EPA's Substance Registry Services (SRS) by registry number (CASRN) and enter chemical here. If an F-GHG constituent cannot be entering its name and, if available, CASRN [98.416(a)(1)]</p>	







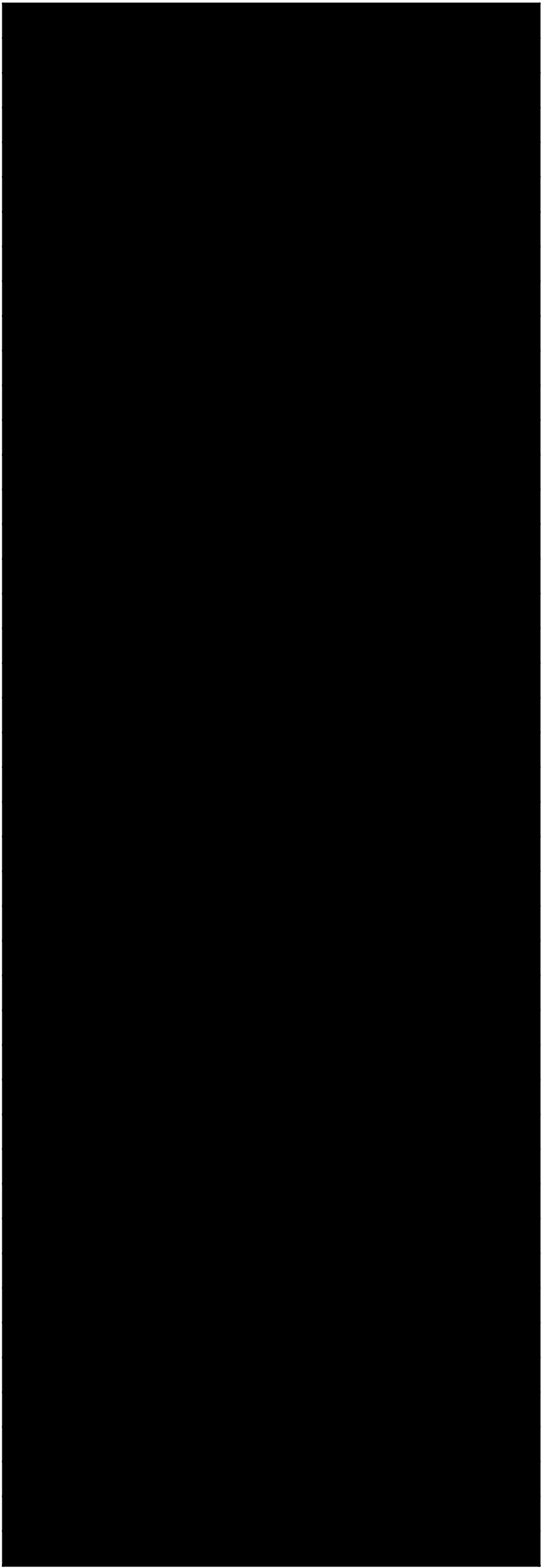


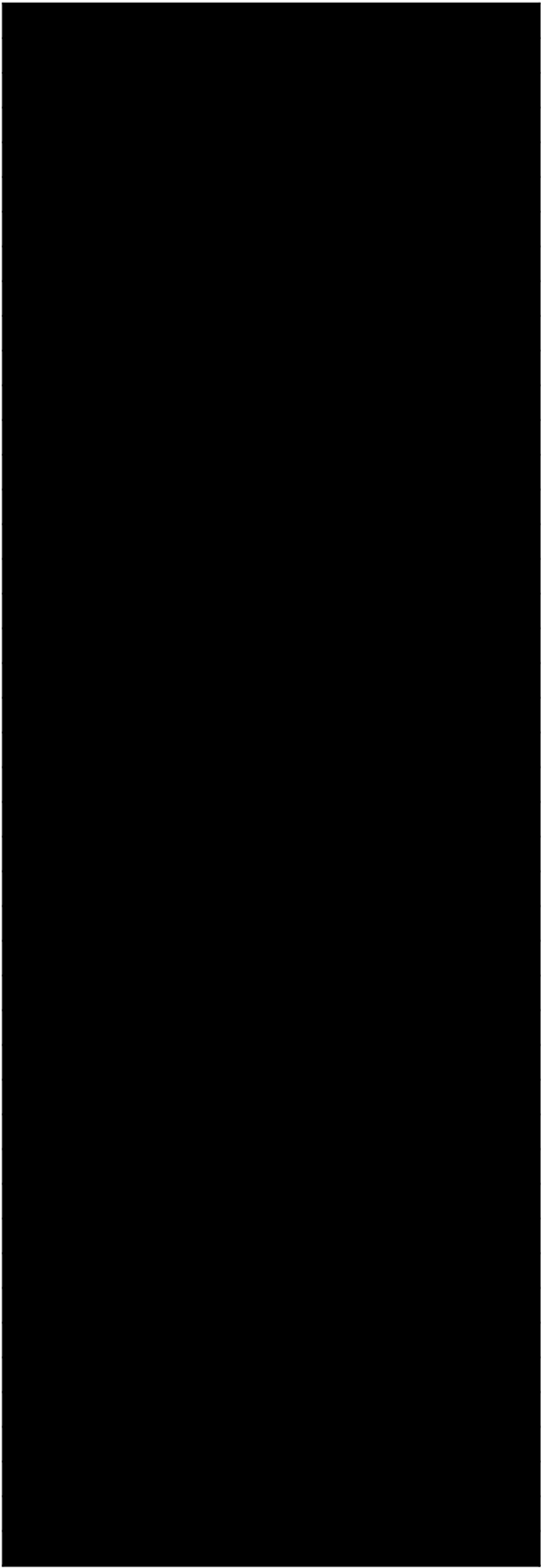


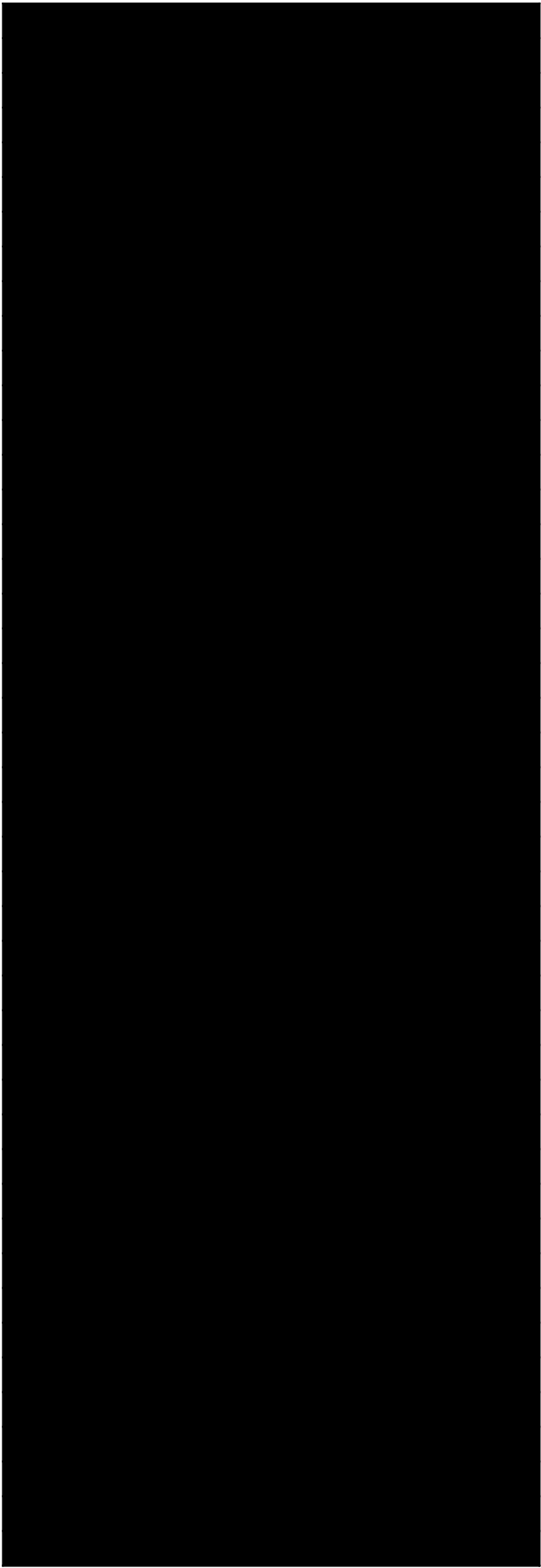


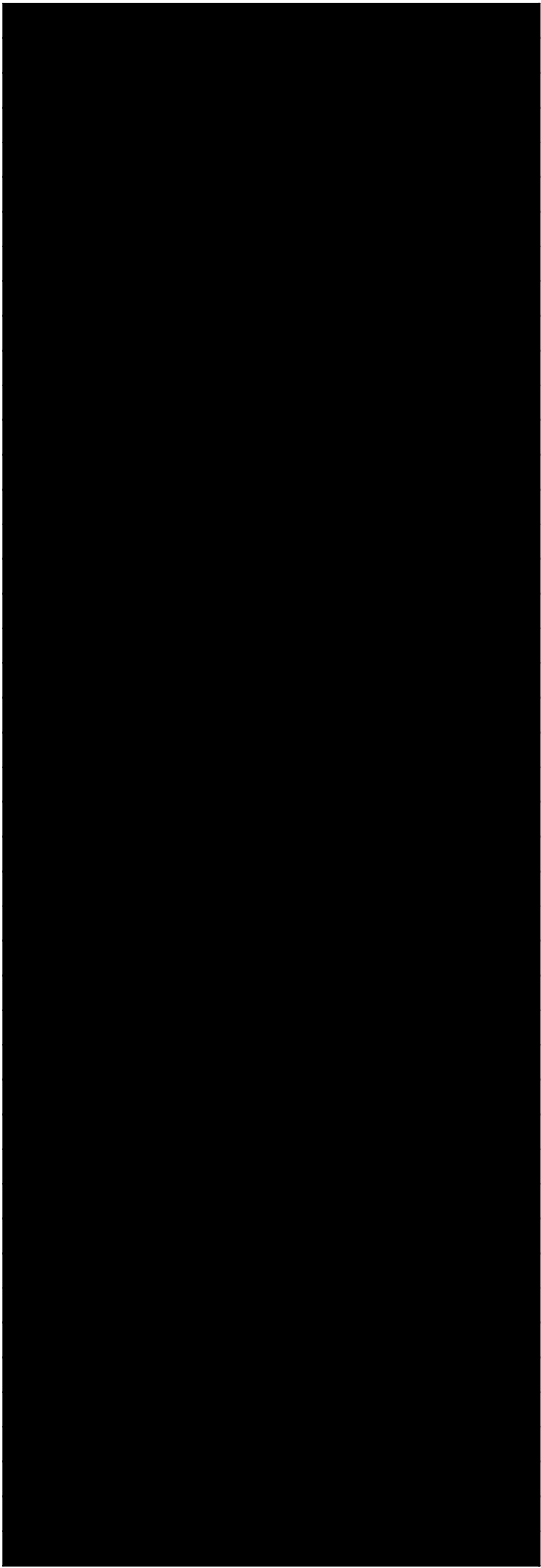
duced by the same process). Do not include

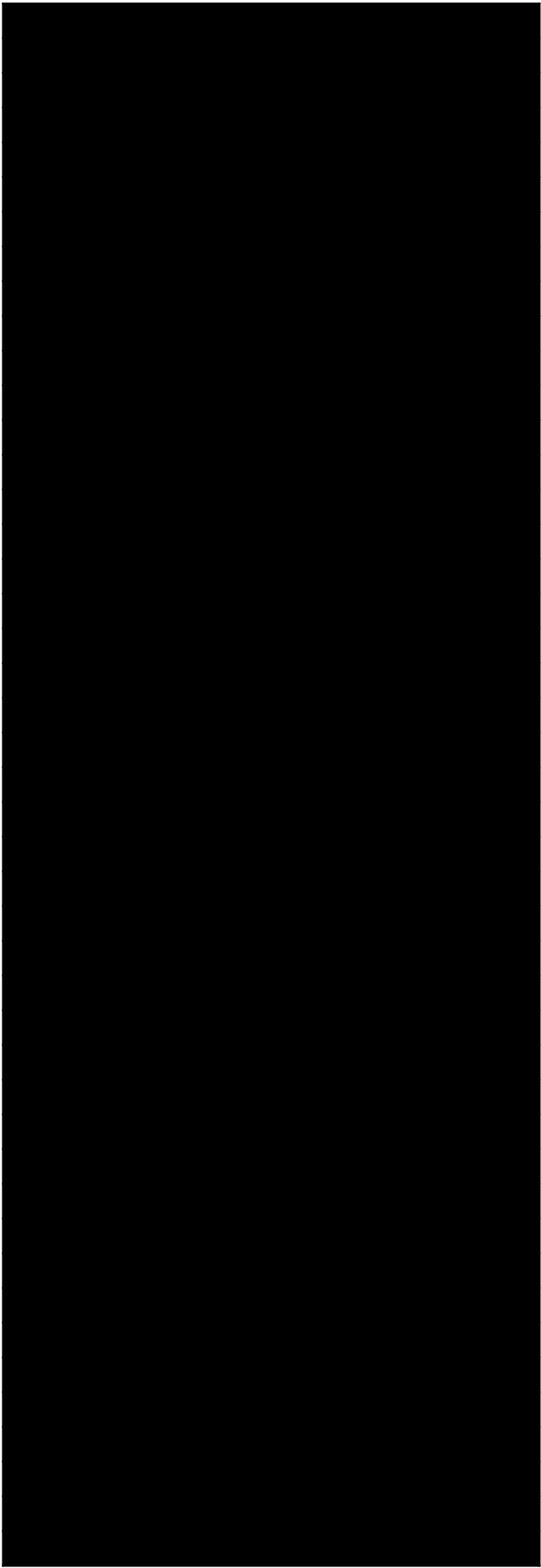
Chemical Formula:
by name and/or Chemical Abstracts Service found via SRS search, add the F-GHG by

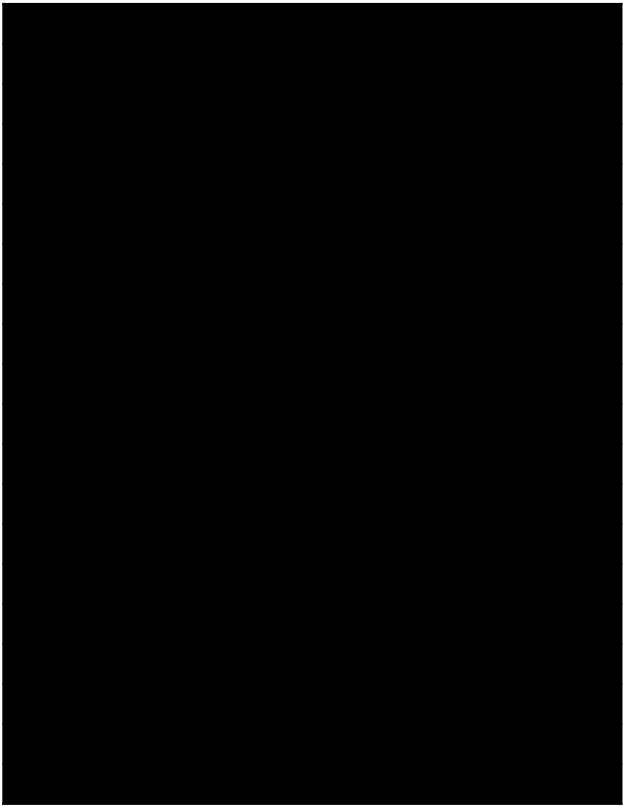












≥ isolated intermediates that are produced and transformed at the same facility. Report all sig

Specify F-GHG or F-HTF Category for Purposes of Estimating GWP (if necessary) [98.3(c)(5)(ii)]	Mass measured coming out of the production process (metric tons) [98.416(a)(12)]	Was the mass determined using a missing data procedure? [98.416(a)(16)]

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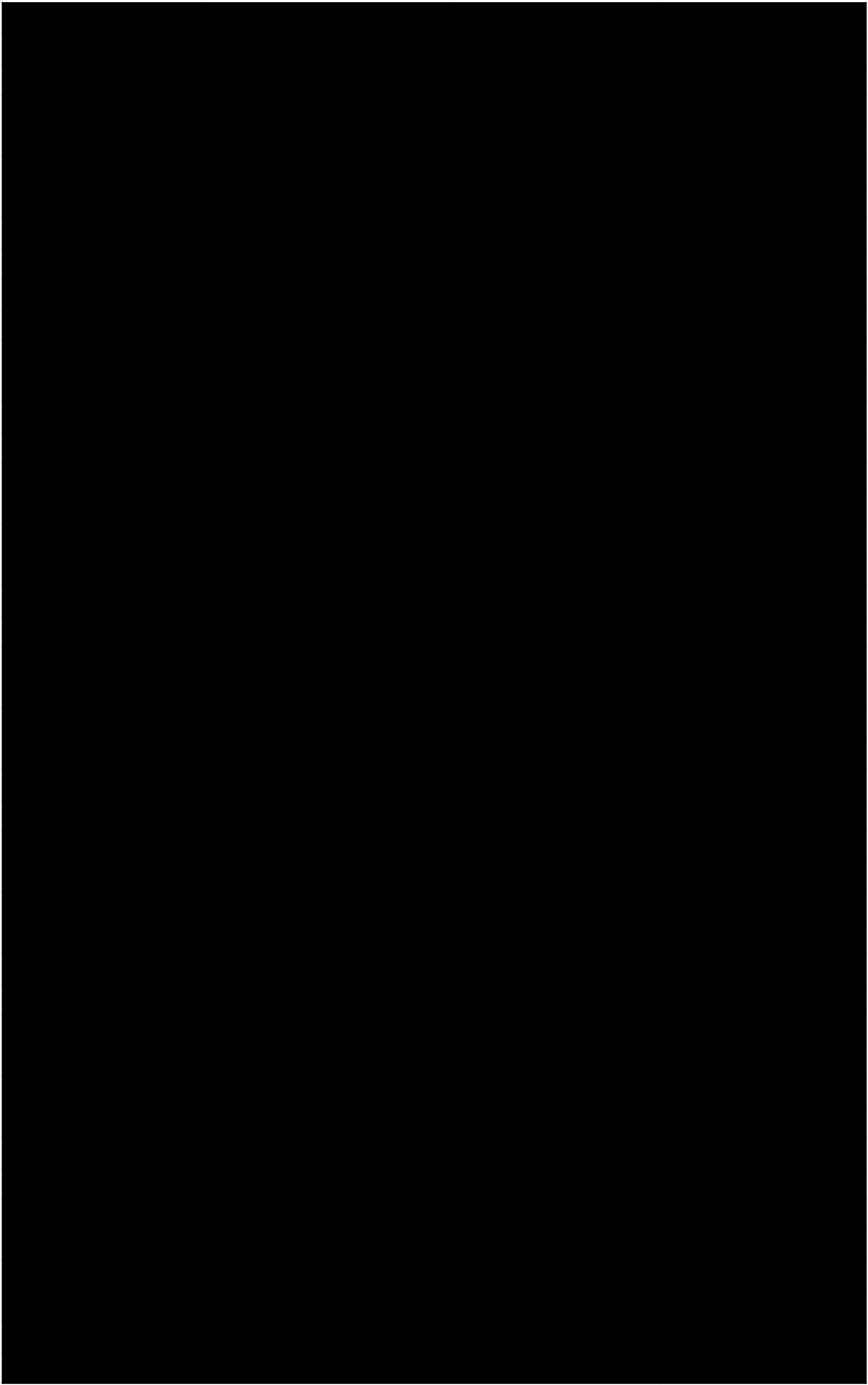
[illegible]

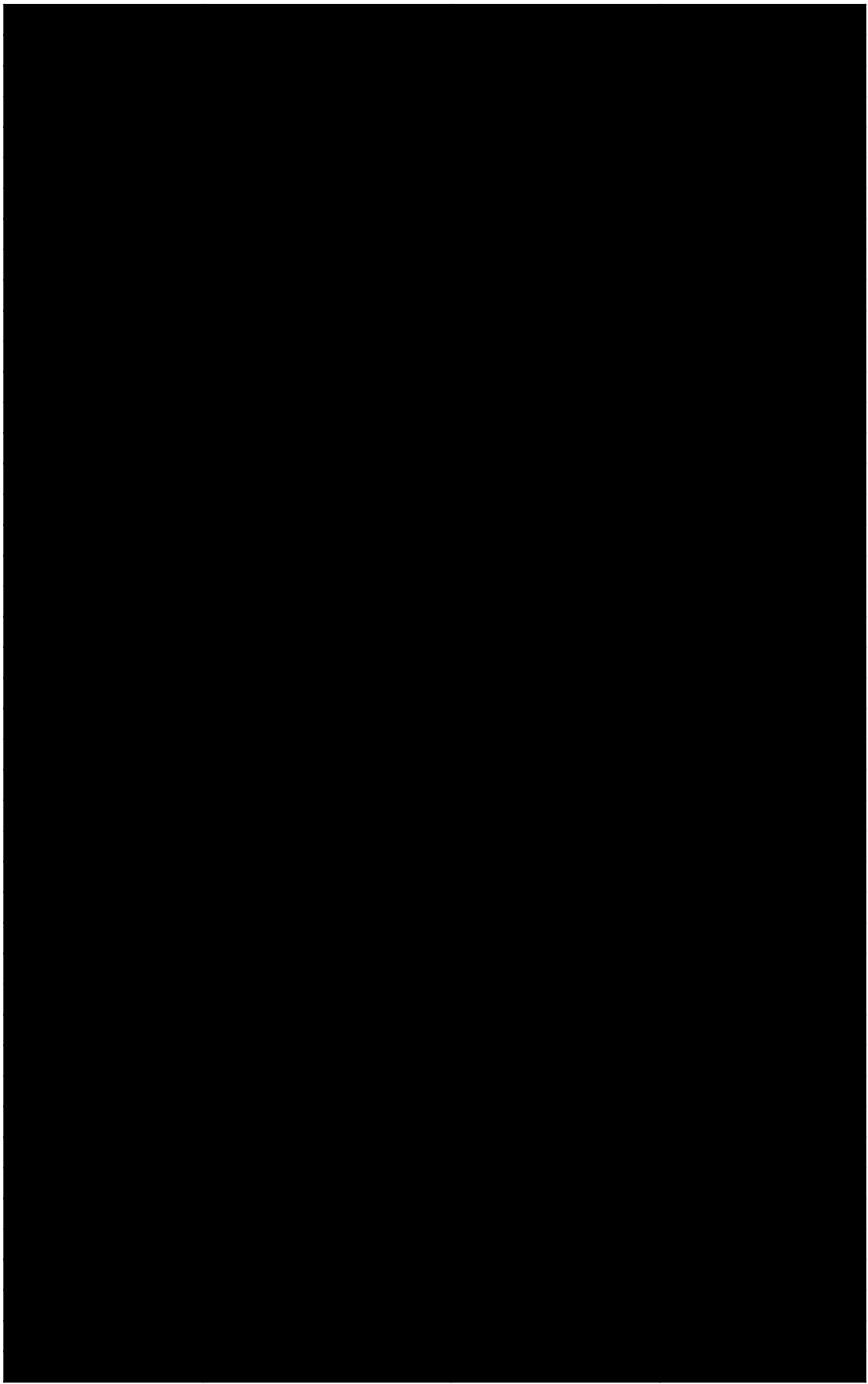
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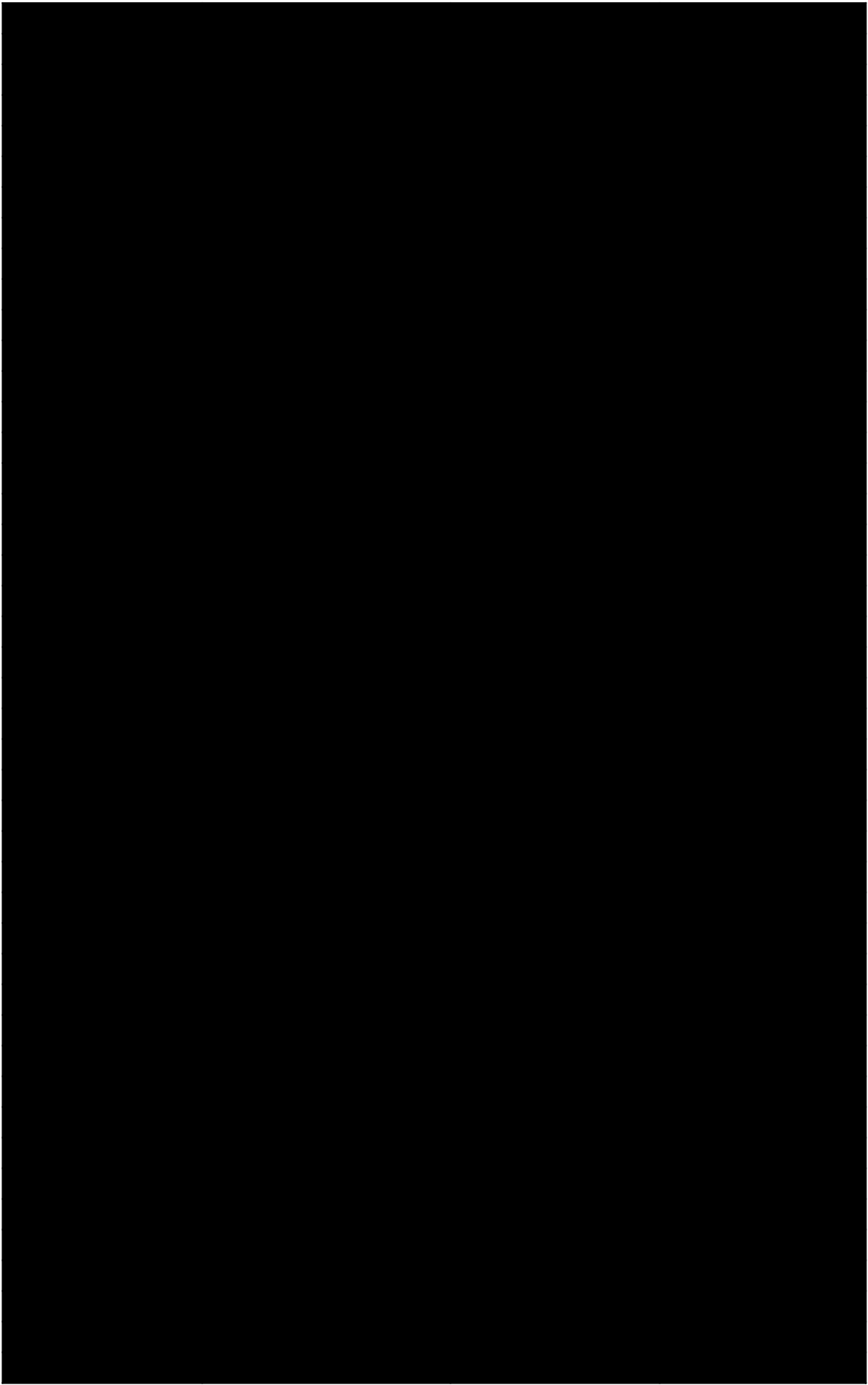
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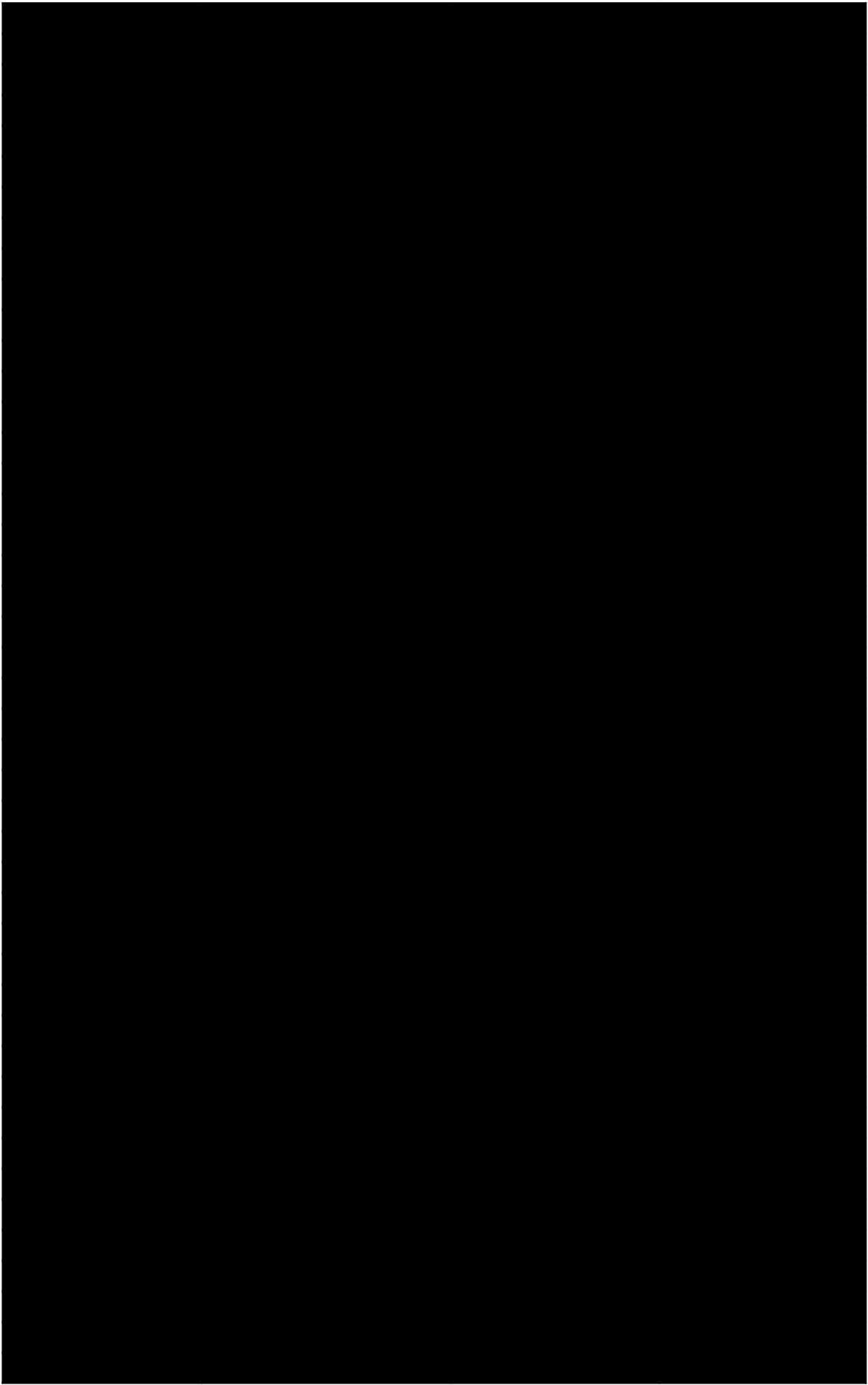
nificant figures (including fractions of a metric ton, if applicable).

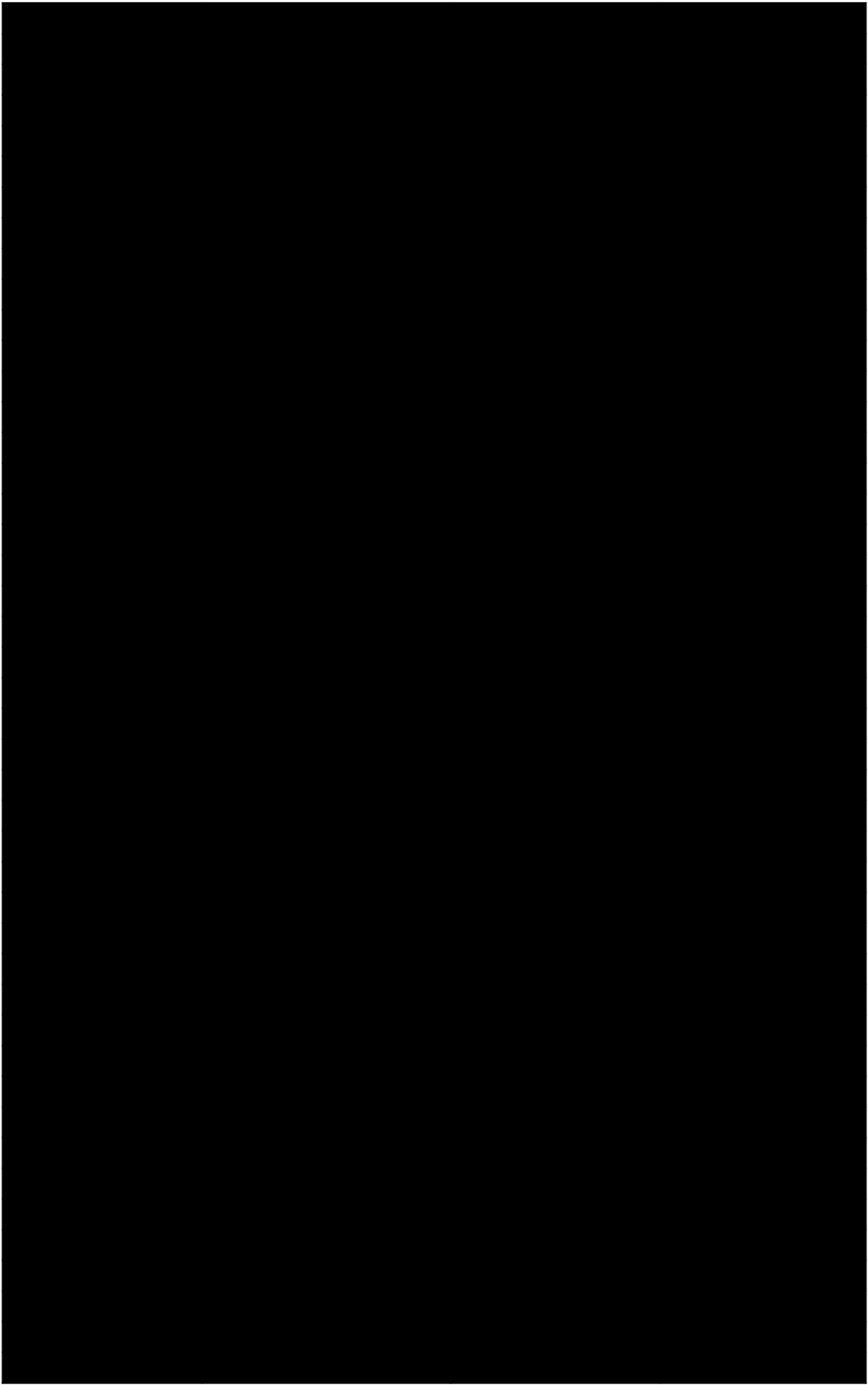
Mass determined using the missing data procedure (metric tons)	Number of hours that a missing data procedure was used to measure the mass coming out of the production process	Reason a missing data procedure was used	Method used to estimate the missing data
[98.416(a)(16)]	[98.416(a)(16)]	[98.416(a)(16)]	[98.416(a)(16)]













<div>Specify the "Other" measurement method used to determine mass (if applicable)</div> <div>[98.416(a)(16)]</div>	<div>Mass added back into the production process (metric tons)</div> <div>[98.416(a)(13)]</div>

[illegible]

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Subpart OO - Special 2011 - 2014 Backyear Form for Facilities that

Worksheet Instructions:

Please identify the F-GHGs, F-HTFs, and/or N₂O transformed at the facility. For each F-GHG, F-HTF, and/or N₂O, please provide the chemical name, chemical formula, and the product name. Columns C and D. A list of common F-GHGs is presented in Col C. If the product in question is not listed, please provide the chemical name and chemical formula. The products can be found on the Listed F-GHGs page.

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External Links:

Back-year Reporting Resource Page: <https://ccdsupport.com/confluence/display/help>

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Notice of Data Availability: <https://www.epa.gov/ozone-layer-protection/nc>

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Part 2b - Transformation Process Information

Instructions: Identify each F-GHG, F-HTF, and N₂O transformed by the process. Do

Unique Transformation Process Identifier [98.416(a)]	Gas
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	(if not listed, select "Search Extended Li GHG or F-HTF not listed" and e
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at Produce, Transform, or Destroy

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GHG, F-HTFs, and/or N₂O transformed, identify process in Column B and the reaction is not present, in Column C then select "Search Extended List" and find the

[/e-GGRT+and+HFC+Data+Reporting+related+to+AIM
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not include isolated intermediates that are produced and transformed a

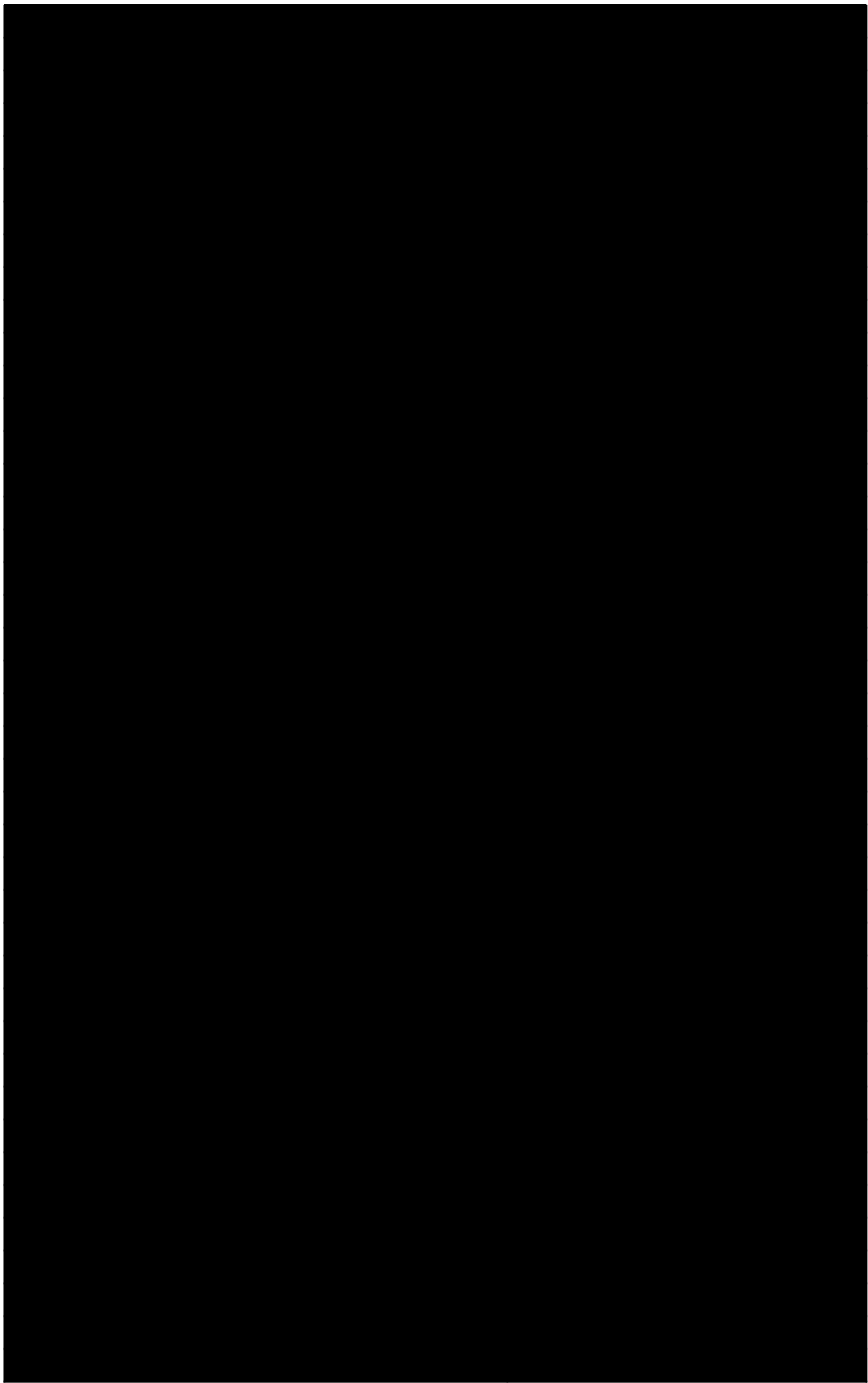
[illegible]

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name of the F-GHG, F-HTF and/or N ₂ O in the product in Column D. A complete list of

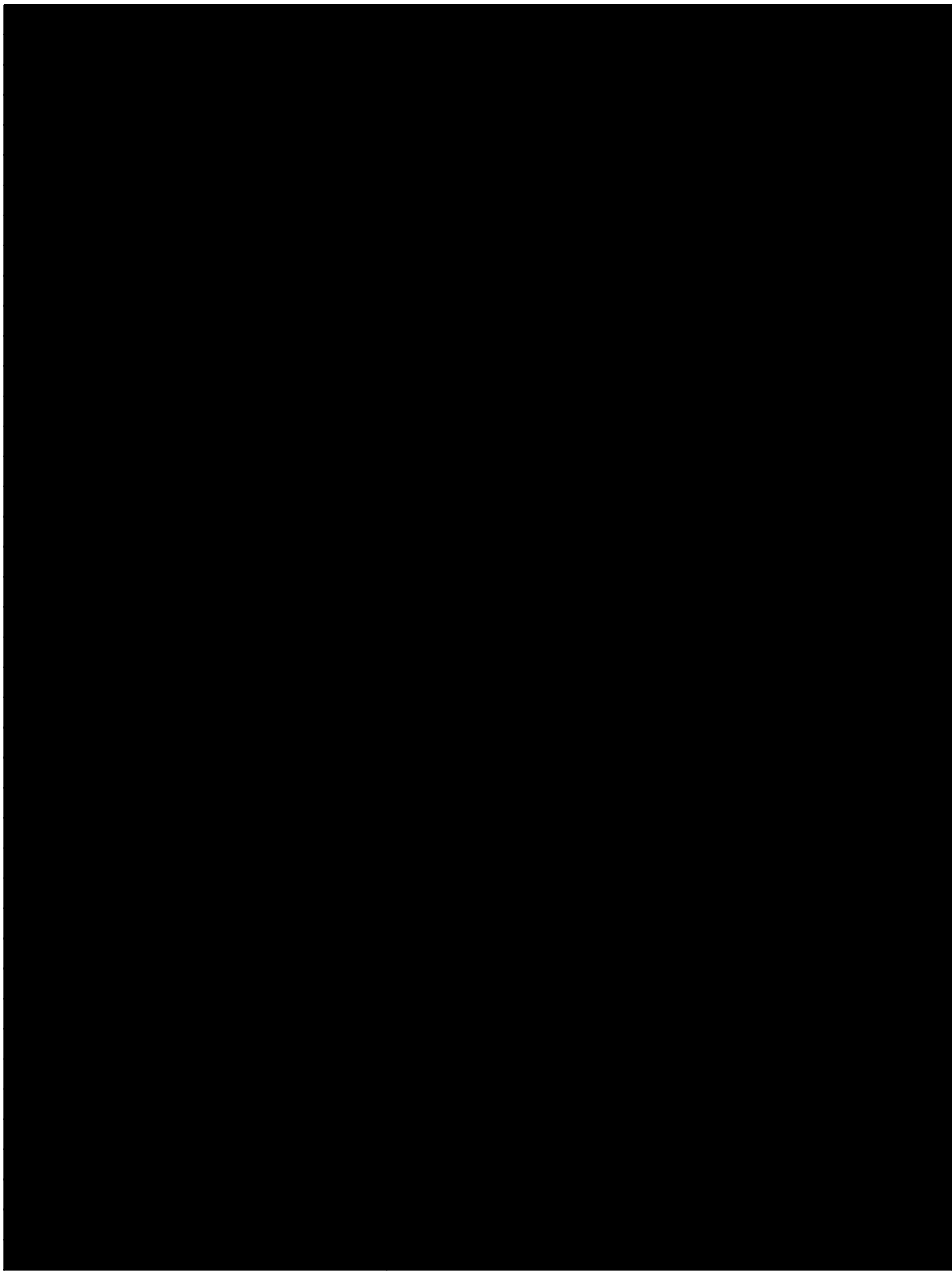
at the same facility. Report all significant figures (including fractions of a m

Other F-GHG:	CASRN:
<p>If an F-GHG chemical is not listed, search EPA's Substance Registry Service Abstracts Service registry number (CASRN) and enter chemical here. If an via SRS search, add the F-GHG by entering its name and, if [98.416(a)(1)]</p>	



etric ton, if applicable).

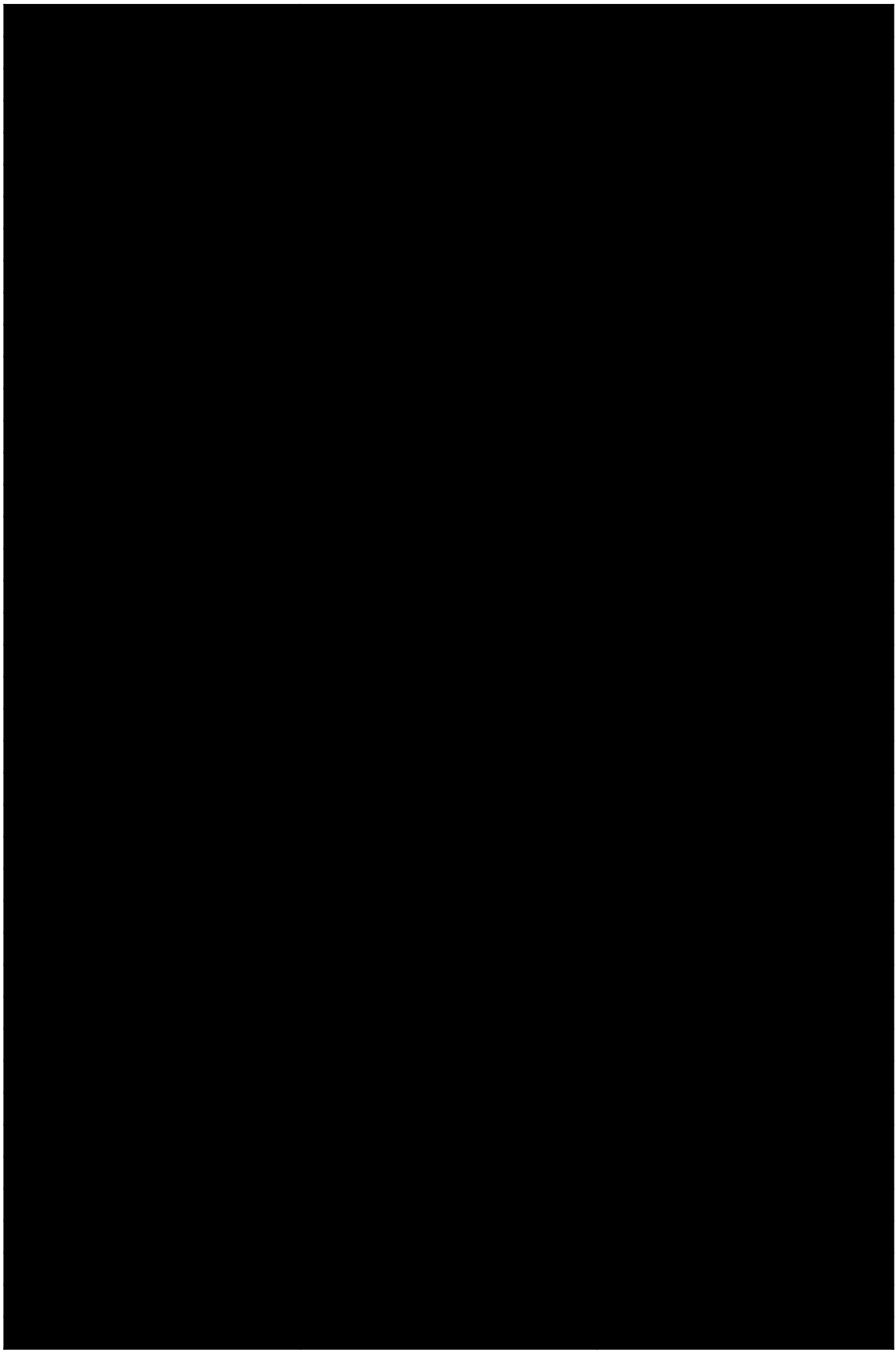
Chemical Formula:	Specify F-GHG Category for Purposes of Estimating GWP (if necessary) [98.3(c)(5)(ii)]
ces (SRS) by name and/or Chemical F-GHG constituent cannot be found of available, CASRN	



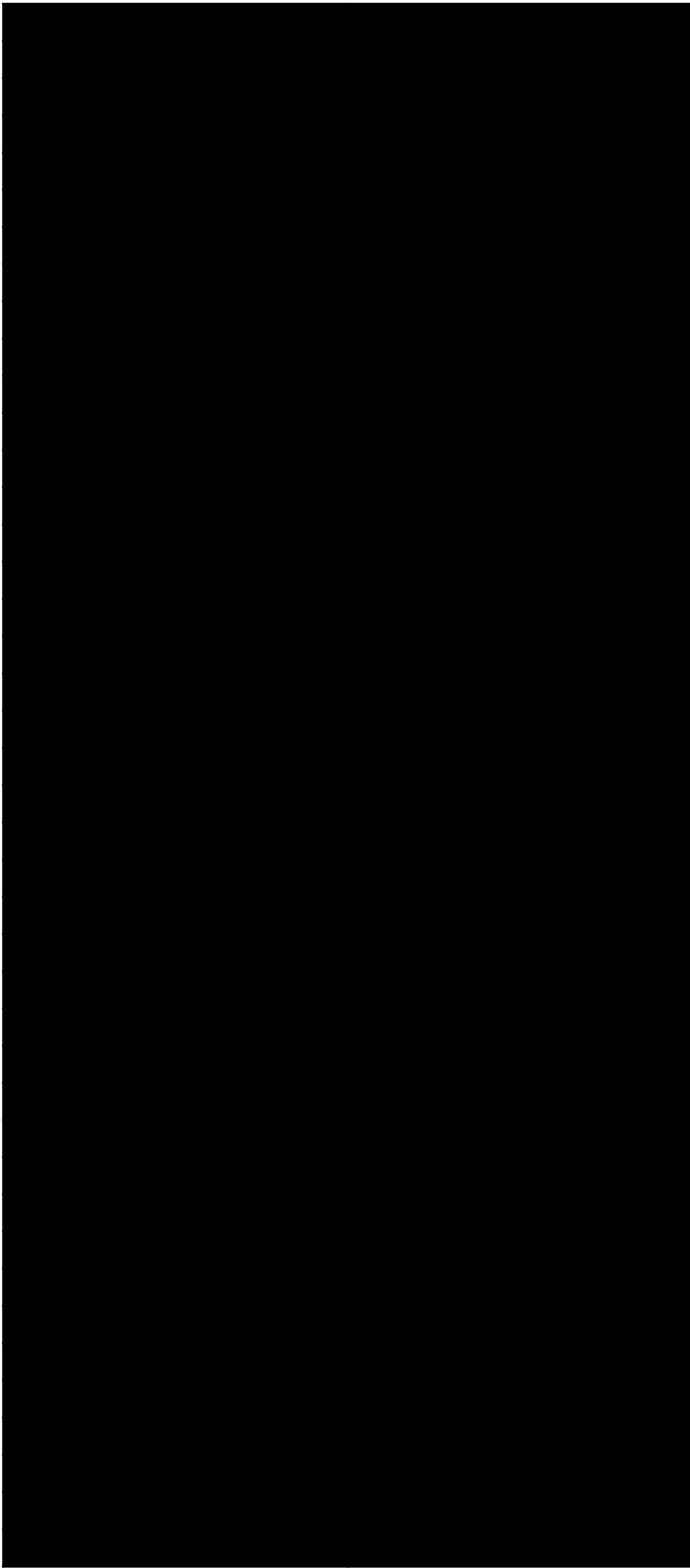
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Mass determined using the missing data procedure (metric tons)	Number of hours that a missing data procedure was used to measure the mass fed into the transformation process	Reason a missing data procedure was used
[98.416(a)(16)]	[98.416(a)(16)]	[98.416(a)(16)]



Method used to estimate the missing data [98.416(a)(16)]	Specify the "Other" measurement method used to determine mass (if applicable) [98.416(a)(16)]



Subpart OO - Special 2011 - 2014 Backyear Form for Facilities that P

Worksheet Instructions:

Please identify each F-GHG or F-HTF that was previously produced at any facility and that w. destruction and quantities that are returned to your facility for reclamation but are found to be

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Part 3 - On-Site Destruction Information

Instructions: Identify each F-GHG or F-HTF that was previously produced (as defined a to your facility by another facility for destruction and quantities that are returned to yo of a metric ton, if applicable).

Does your facility destroy F-GHGs or F-HTFs? [98.416(a)(3)]

	Gases
	Previously produced F-GHG or F-HTF that was destroyed at the (if not listed, select "Search Extended List" to activate column 'C' for a comprehensive search or F-HTF not listed" and enter the information required in columns 'E', 'F', and 'G') [98.416(a)(3)]
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Produce, Transform, or Destroy

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as destroyed at your facility. For example, this may include quantities that are shipped to your facility by irretrievably contaminated.

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[rtice-data-availability-relevant-united-states-hydrofluorocarbon-baselines](#)

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[Part 5 - Off-Site Destruction Information](#)

it 98.410(b), at any facility) and that was destroyed at your facility. For example, this may include ur facility for reclamation but are found to be irretrievably contaminated. Report all significant f



CASRN	Other F-GHG:	CASRN:
facility e list or select "Other F-GHG F', 'G', and 'H')	If an F-GHG chemical is not listed, search EPA's Substance Regis and/or Chemical Abstracts Service registry number (CASRN) and GHG constituent cannot be found via SRS search, add the F-GHG available, CASRN [98.416(a)(1)]	

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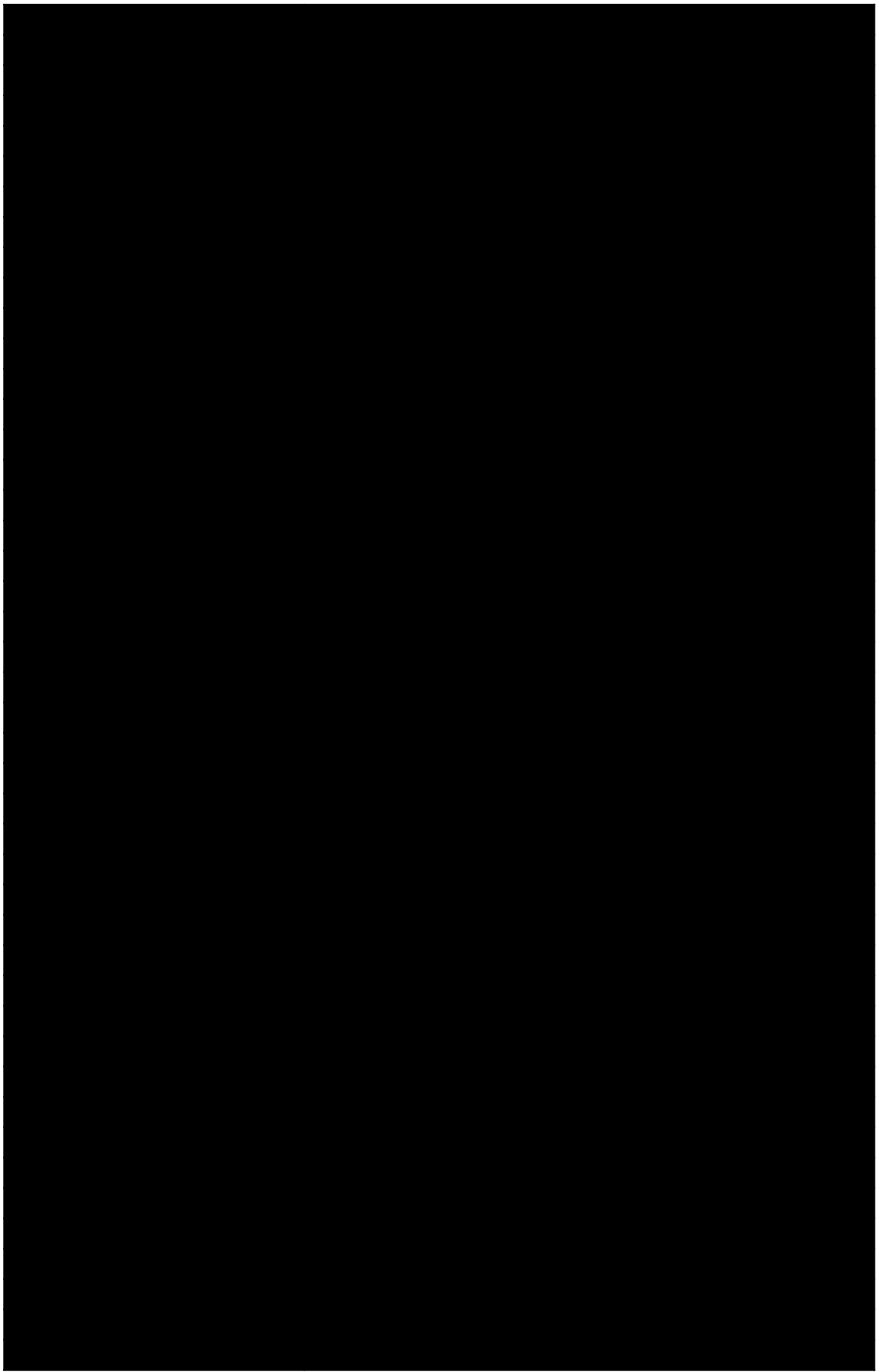
[illegible]

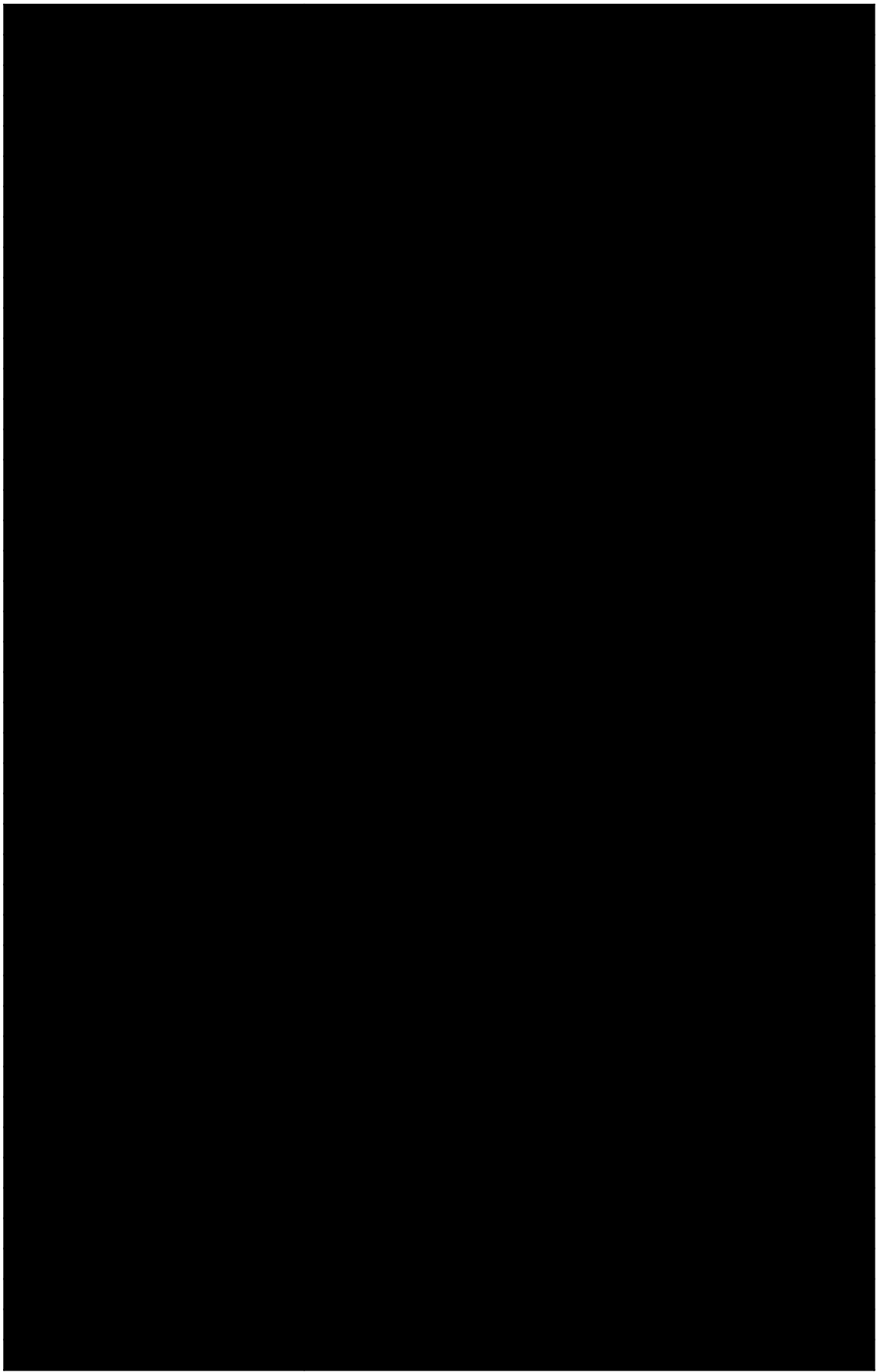
[illegible]

/ another facility for

e quantities that are shipped
figures (including fractions

Chemical Formula:	
try Services (SRS) by name enter chemical here. If an F- by entering its name and, if	Specify F-GHG Category for Purposes of Estimating GWP (if necessary) [98.3(c)(5)(ii)]







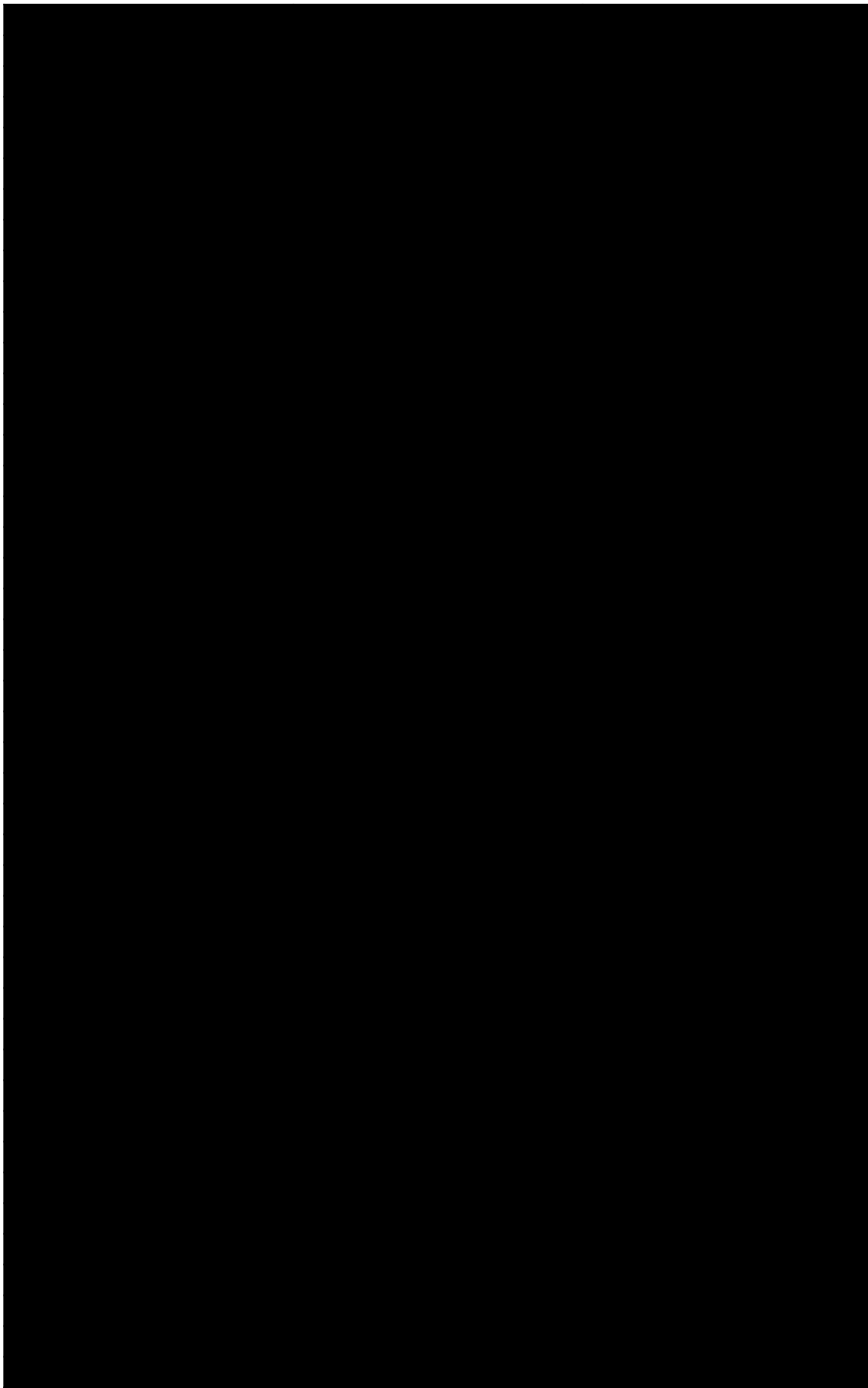
<div>Mass of the F-GHG or F-HTF destroyed at the facility (metric tons)</div> <div>[98.416(a)(3)]</div>	<div>Mass fed into the destruction device (metric tons)</div> <div>[98.416(a)(11)]</div>	<div>Was the F-GHG or F-HTF mass determined using a missing data procedure?</div> <div>[98.416(a)(16)]</div>

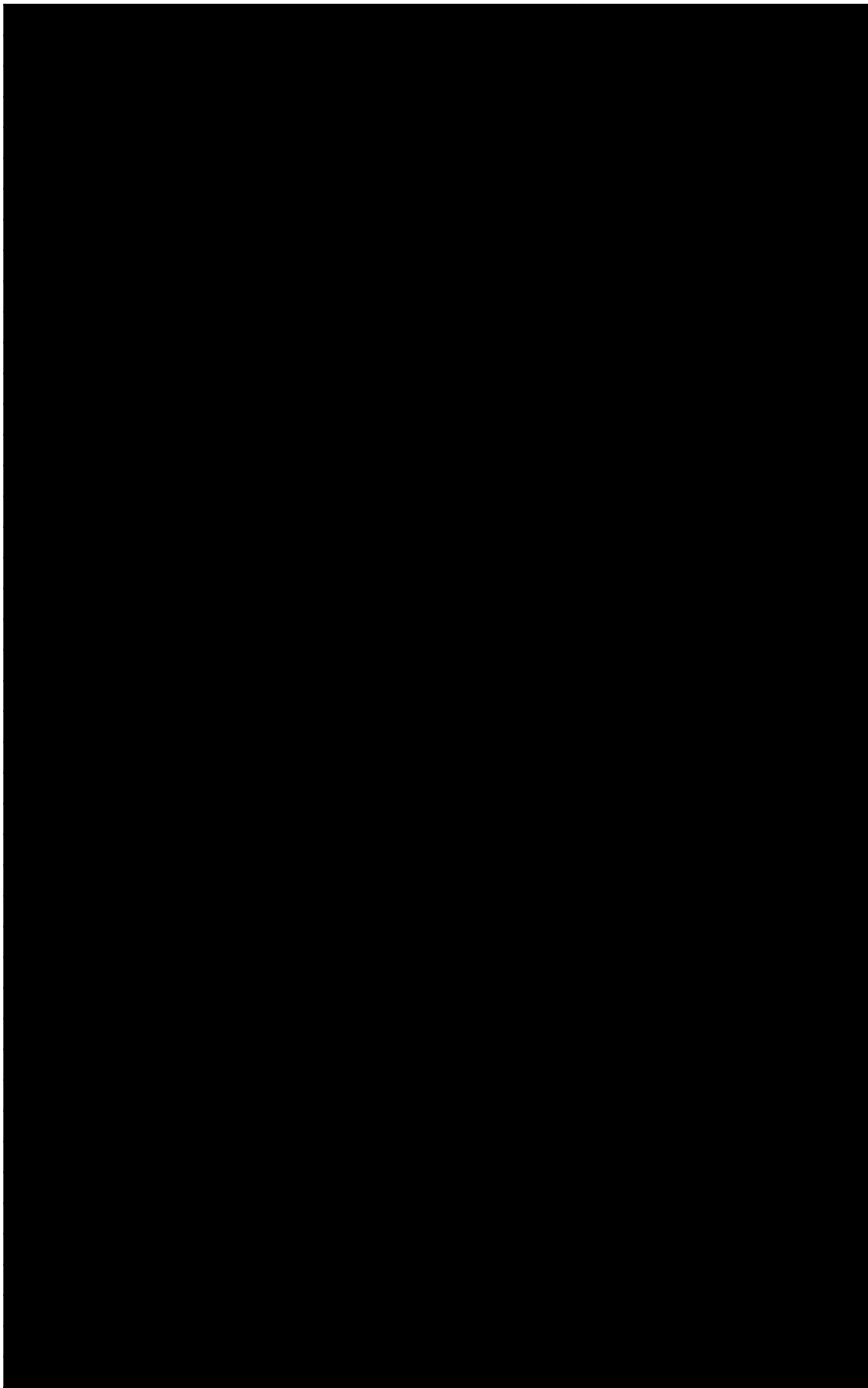
[illegible]

[illegible]

[illegible]

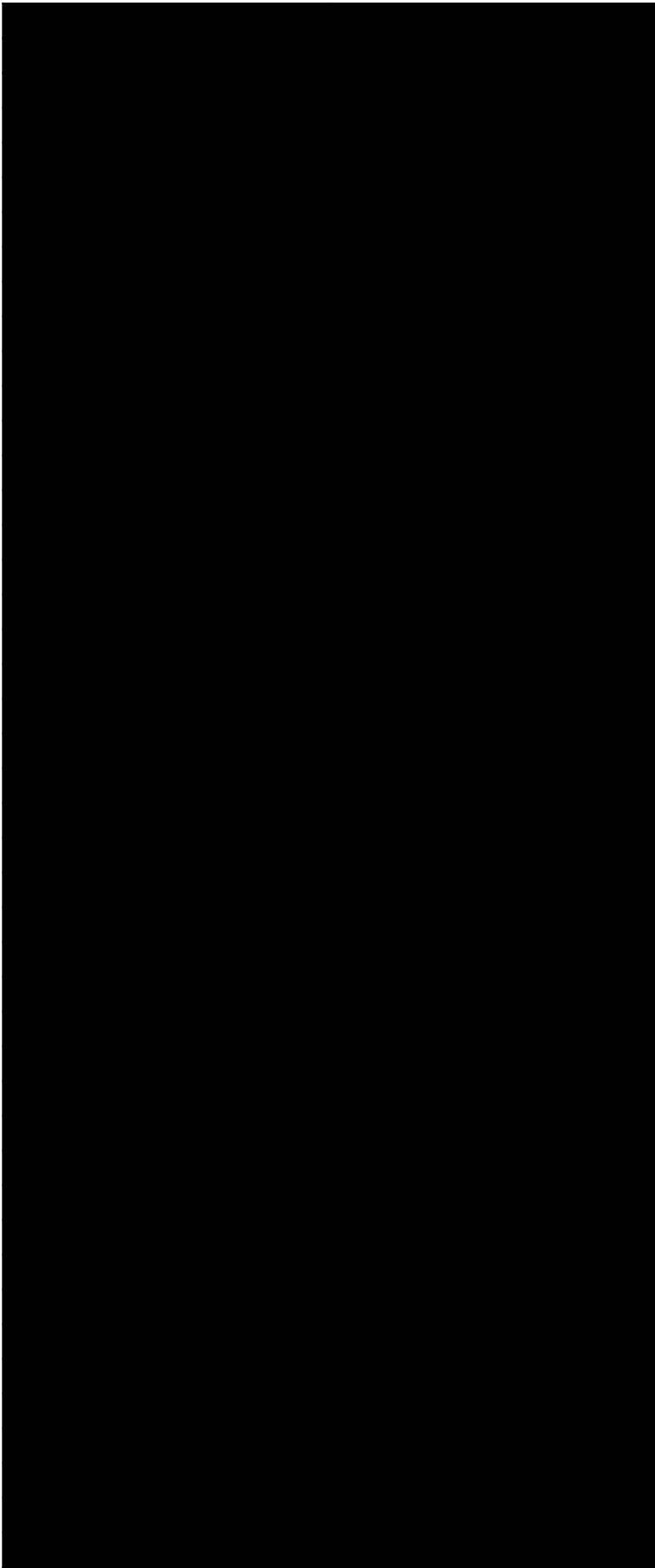
Mass determined using the missing data procedure (metric tons)	Number of hours that a missing data procedure was used to measure the mass fed into the destruction device	Reason a missing data procedure was used
[98.416(a)(16)]	[98.416(a)(16)]	[98.416(a)(16)]

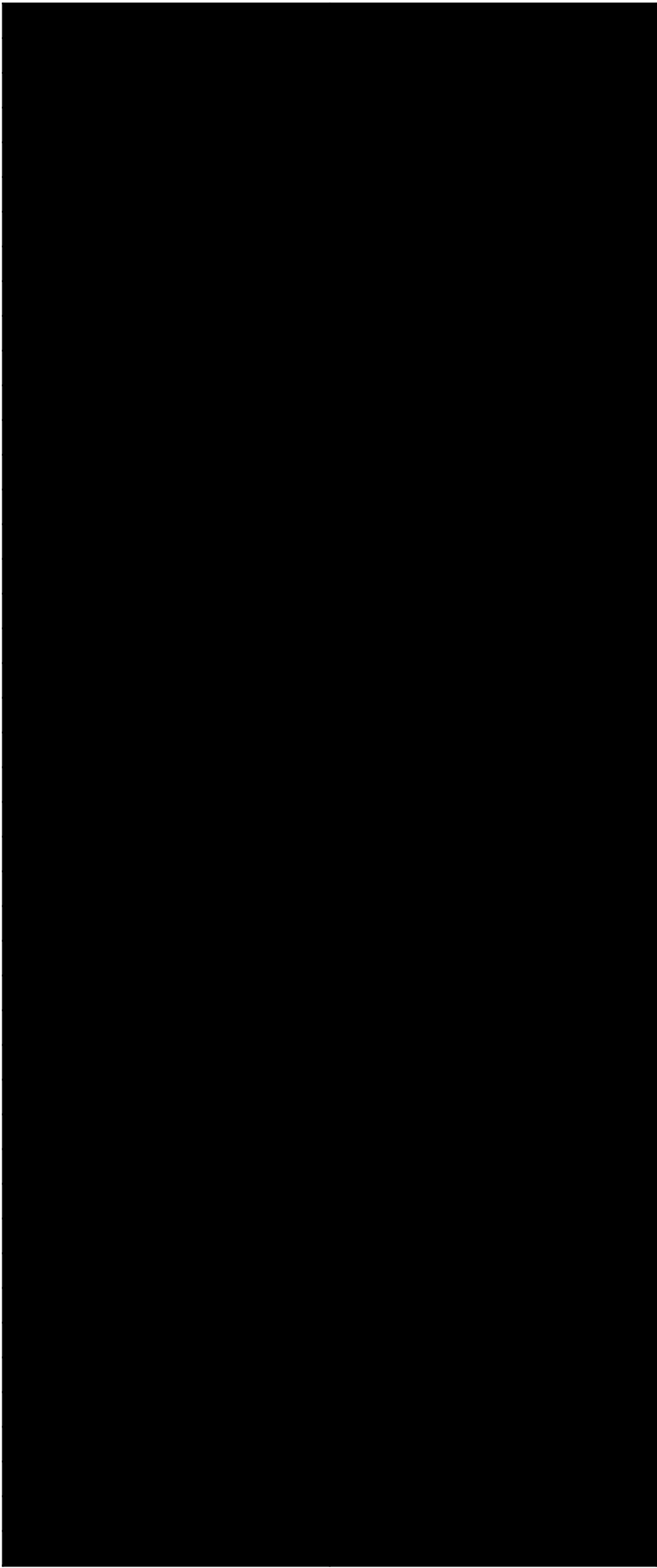






Method used to estimate the missing data	Specify the "Other" measurement method used to determine mass (if applicable)
[98.416(a)(16)]	[98.416(a)(16)]







Subpart OO - Special 2011 - 2014 Backyear Form for Facilities that

Worksheet Instructions:

Please identify the name and address of the offsite transformation facility to which F-GH₄, HTF, and/or N₂O that are sent to each transformation facility in Part 4b.

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External Links:

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Notice of Data Availability: <https://www.epa.gov/ozone-layer-protection/no>

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Part 4a - Off-Site Transformation Facility Information

Instructions: Provide the following information for each facility to which any of tl

	Facility Name	Is the Facility US based?
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Part 4b - Off-Site Transformation Facility Shipment Information

Instructions: Provide the following information for each F-GHG, F-HTF, or N₂O p
figures (including fractions of

Facility Name [98.416(a)(14)]	Gas
	Previously produced F-GHG, F (if not listed, select "Search Extended List" HTF not listed" and ent
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What Produce, Transform, or Destroy

2/22/2021

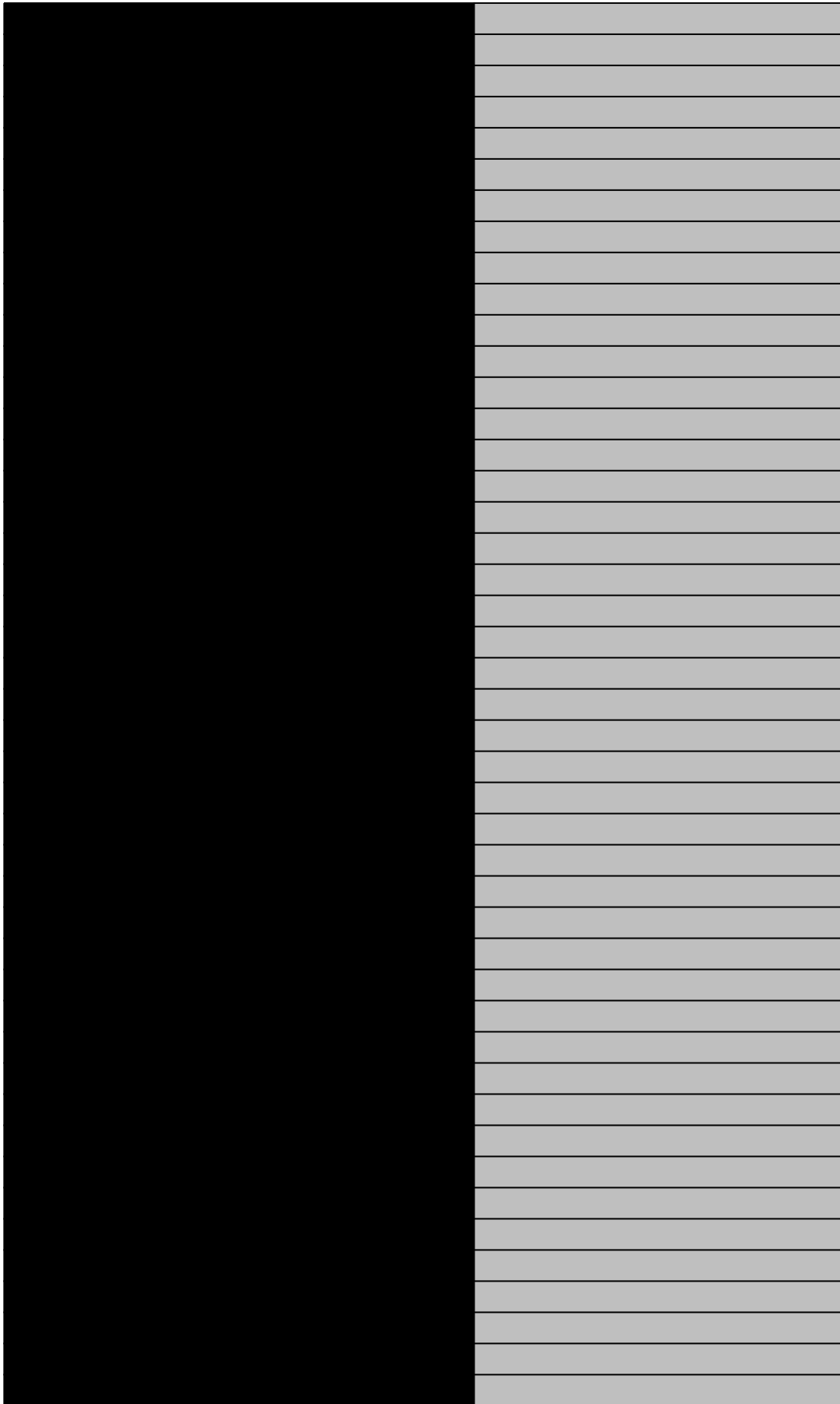
HG, F-HTF, and/or N₂O is sent in Part 4a. Then identify the specific F-GHG, F-

<https://www.epa.gov/ghg-reports/ghg-data-availability-relevant-united-states-hydrofluorocarbon-baselines>

[Part 3 - On-Site Destruction Information](#)
[Part 4 - Off-Site Transformation Information](#)
[Part 5 - Off-Site Destruction Information](#)

he produced F-GHG, F-HTF, or N₂O were sent for transformation per 98.416(a)

[illegible]

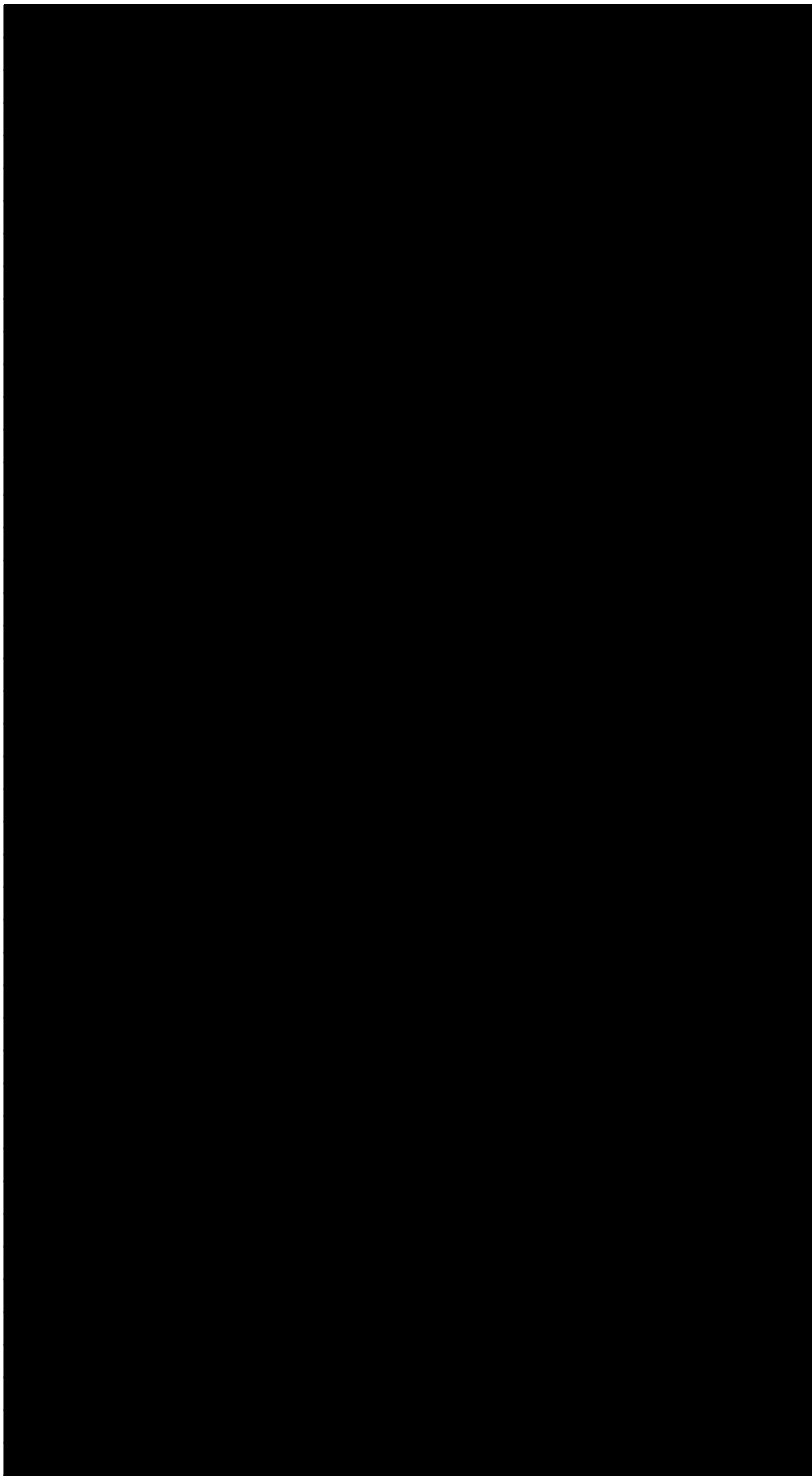


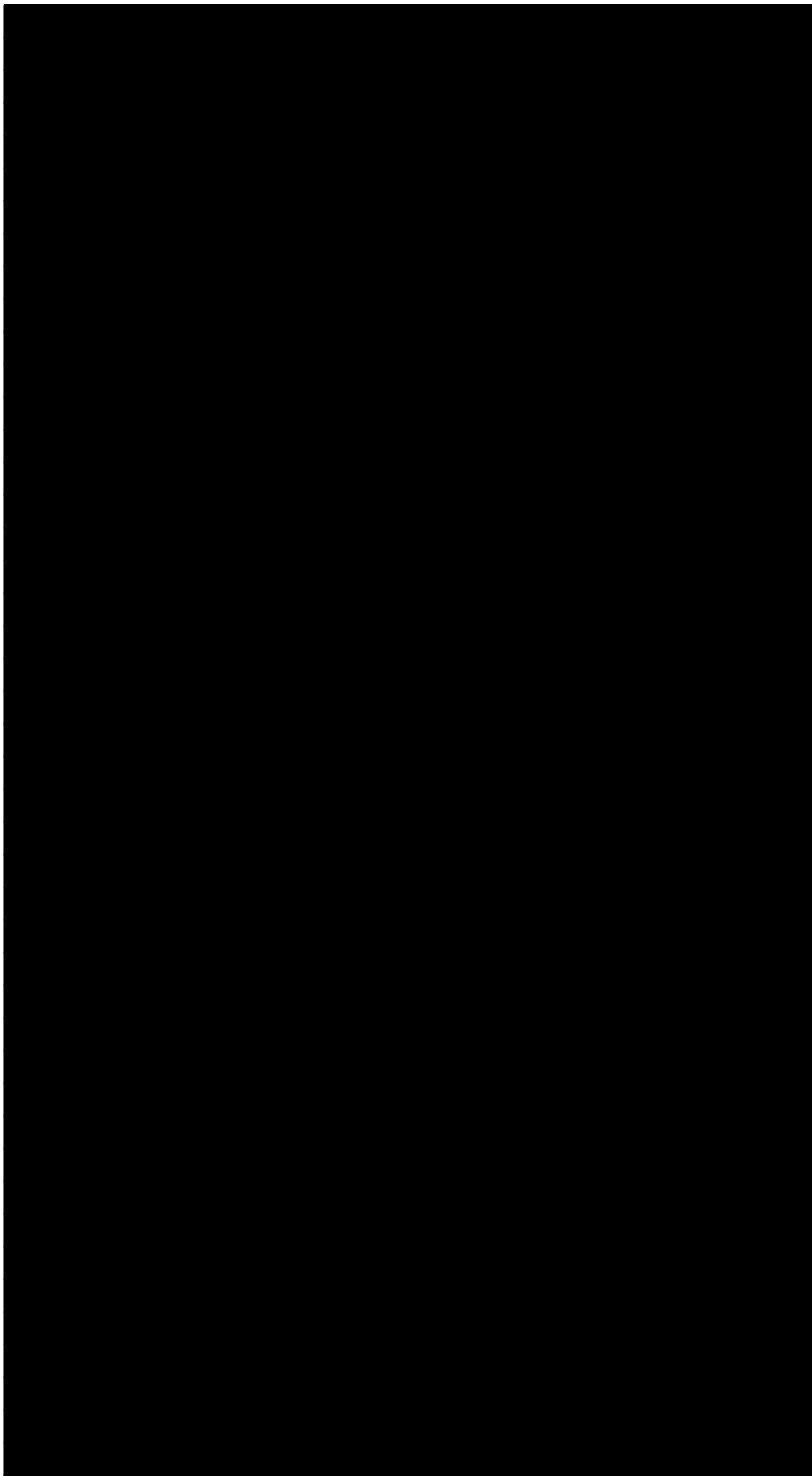


[illegible]

(14):

[illegible]







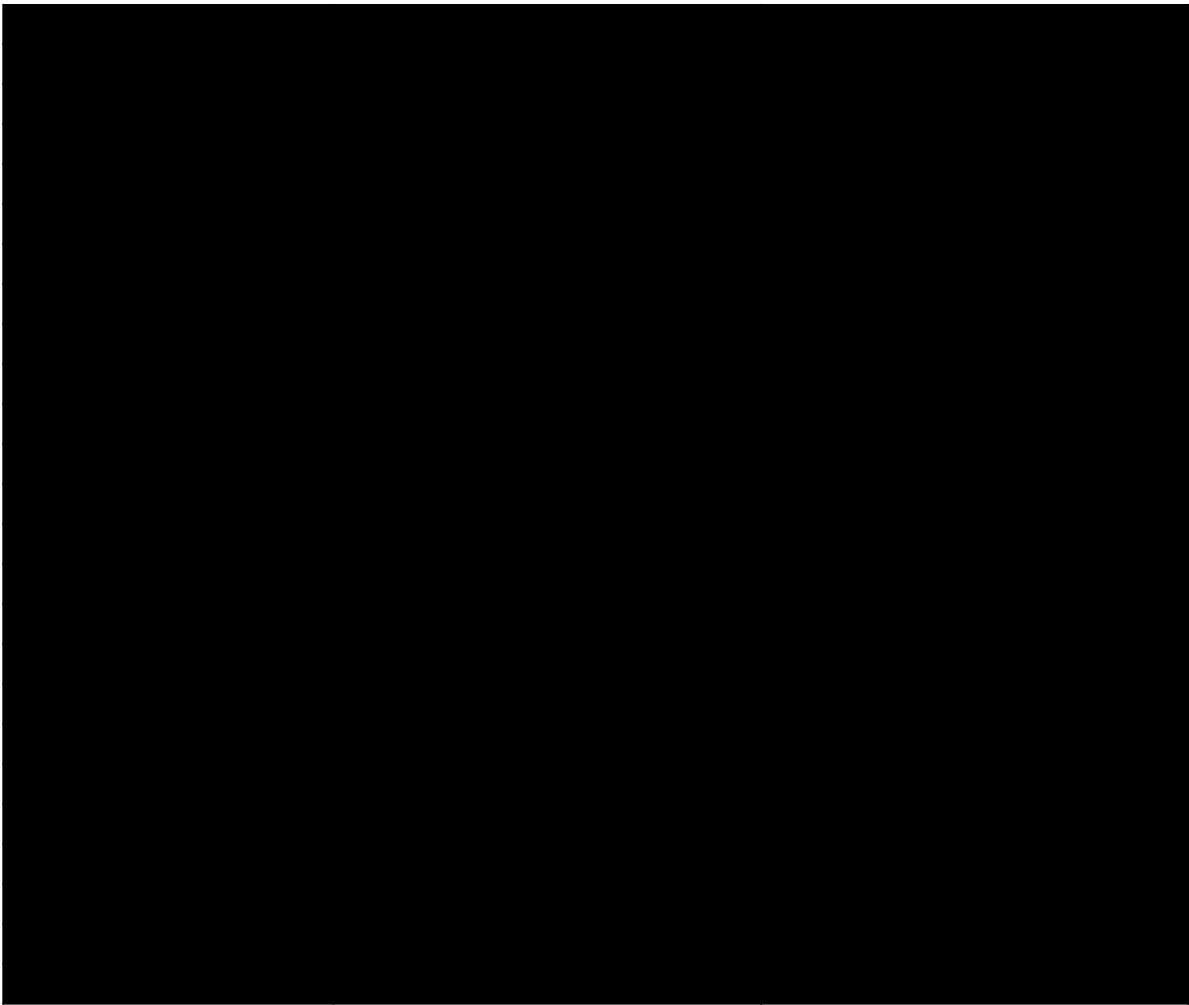
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[illegible]

[illegible]

[illegible]

non-US Province	non-US Postal Cod	non-US Country



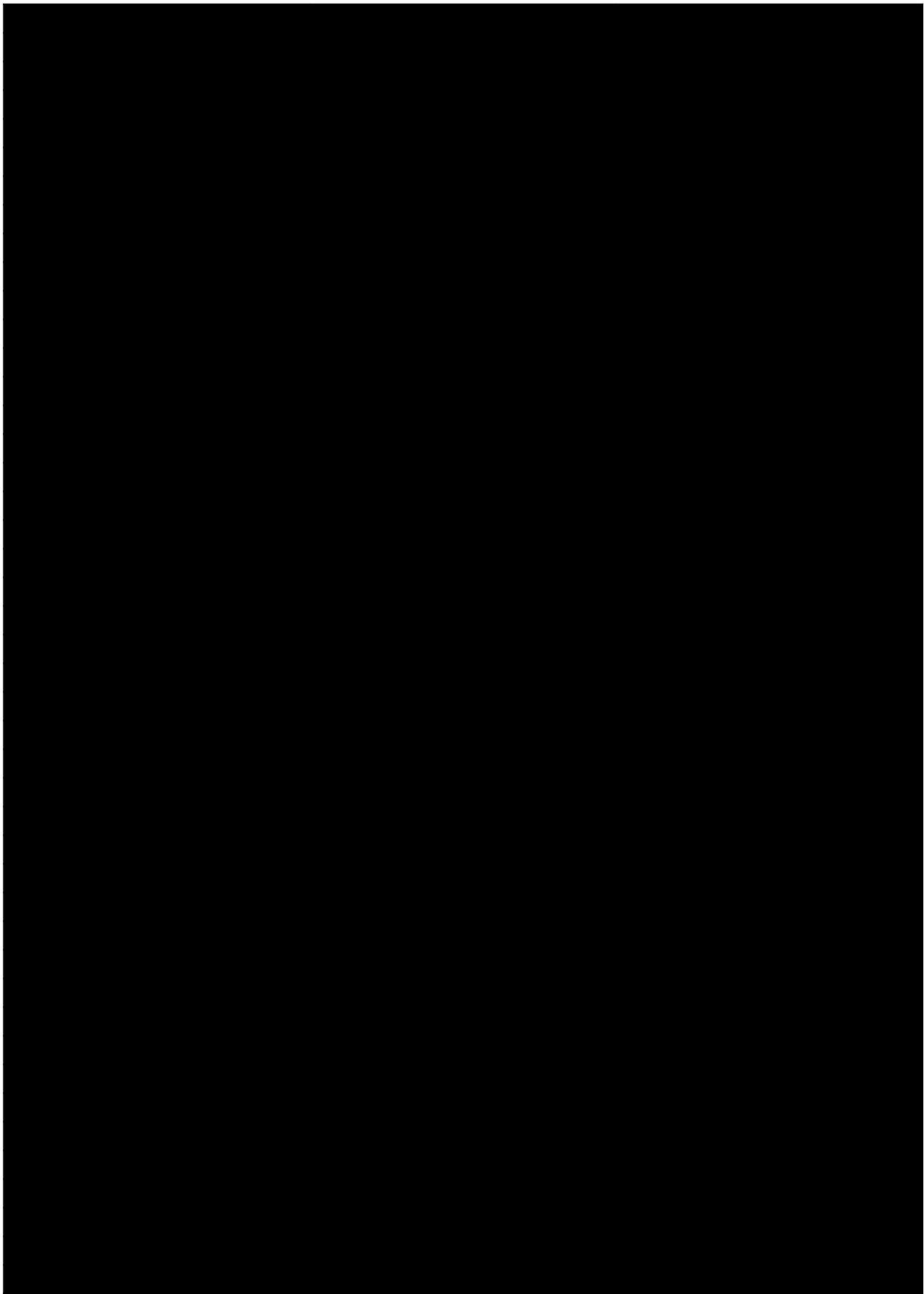
Was the mass determined using a missing data procedure? [98.416(a)(16)]	Mass determined using the missing data procedure (metric tons) [98.416(a)(16)]	Number of hours that a missing data procedure was used to measure the mass fed into the transformation device [98.416(a)(16)]

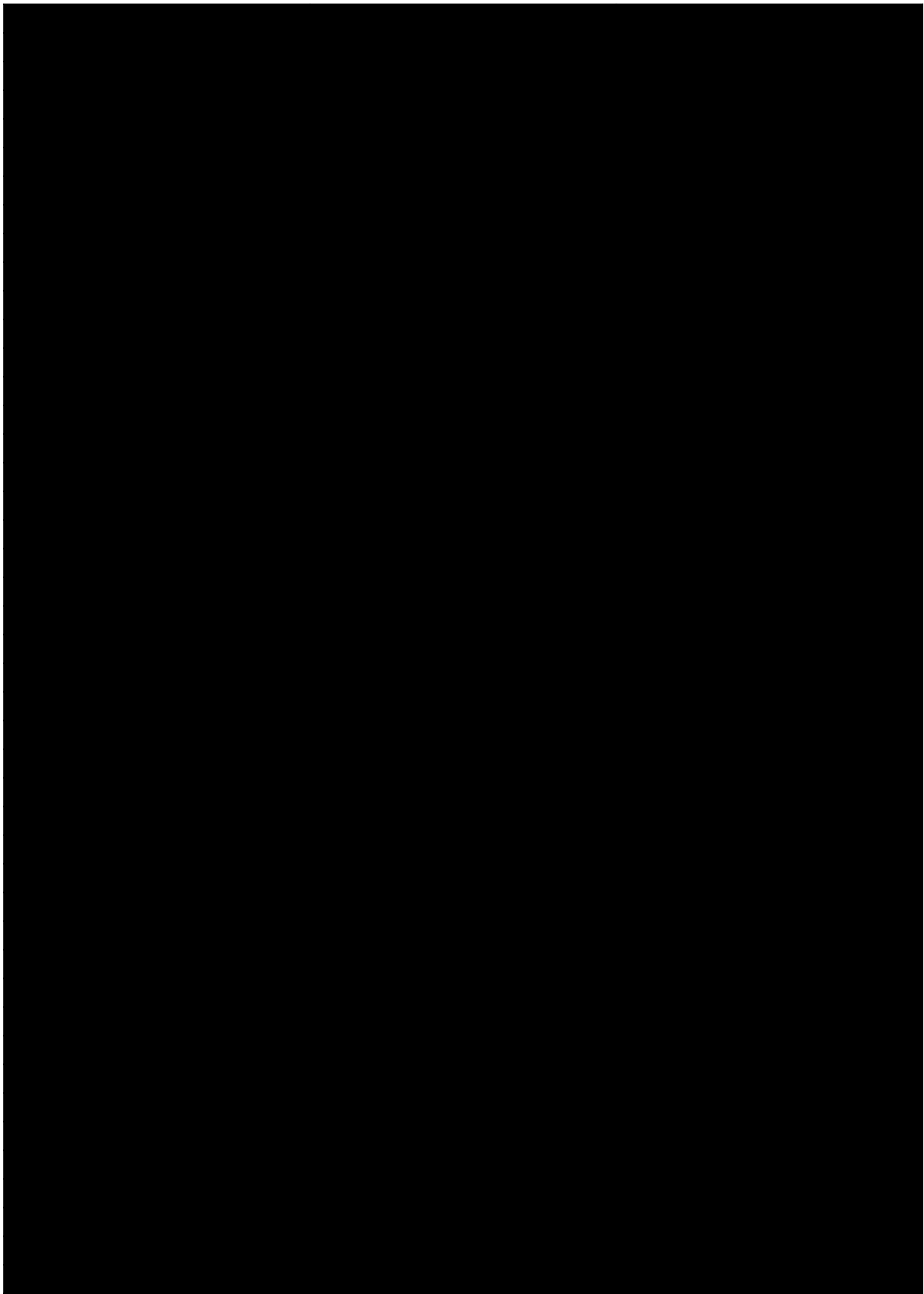
[illegible]

[illegible]

[illegible]

<div>Reason a missing data procedure was used</div> <div>[98.416(a)(16)]</div>	<div>Method used to estimate the missing data</div> <div>[98.416(a)(16)]</div>	<div>Specify the "Other" measurement method used to determine mass (if applicable)</div> <div>[98.416(a)(16)]</div>







Subpart OO - Special 2011 - 2014 Backyear Form for Facilities

Worksheet Instructions:

Please identify the name and address of the offsite destruction facility to which F-GHGRP data is reported in Part 5b.

Version:

A.01

External Links:

Back-year Reporting Resource Page: <https://ccdsupport.com/confluence/display/help>

Uploading Back-year GHGRP Data: <https://ccdsupport.com/confluence/pages/view>

Notice of Data Availability: <https://www.epa.gov/ozone-layer-protection/notice-of-data-availability>

[Part 1- Facility Information](#)

[Part 2 - Production & Transformation Process Information](#)

[Part 2a - Production Process Information](#)

[Part 2b - Transformation Process Information](#)

Part 5a - Off-Site Destruction Facility Information

Instructions: Provide the following information for each facility to which any F-GHGRP data is reported in Part 5b.

	Facility Name	Is the Facility US based?
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Part 5b - Off-Site Destruction Facility Shipment Information

Instructions: Provide the following information for each F-GHG or F-HTF product shipment (including fractions of a metric ton, if applicable).

	Facility Name [98.416(a)(15)]	Gas
		Previously produced F-GHG (if not listed, select "Search Extended List" F-HTF not listed" and enter)
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Workbook Navigation:

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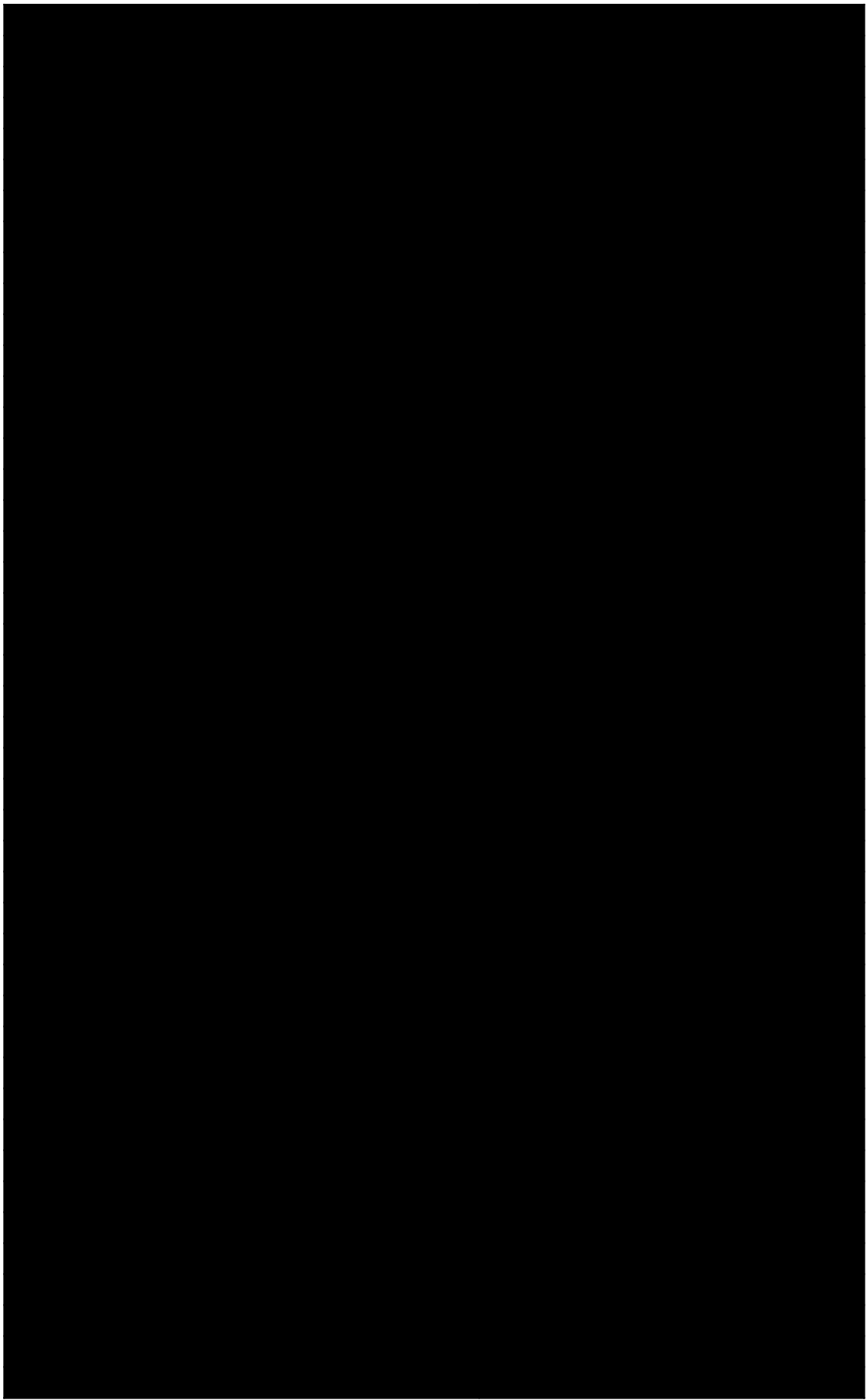


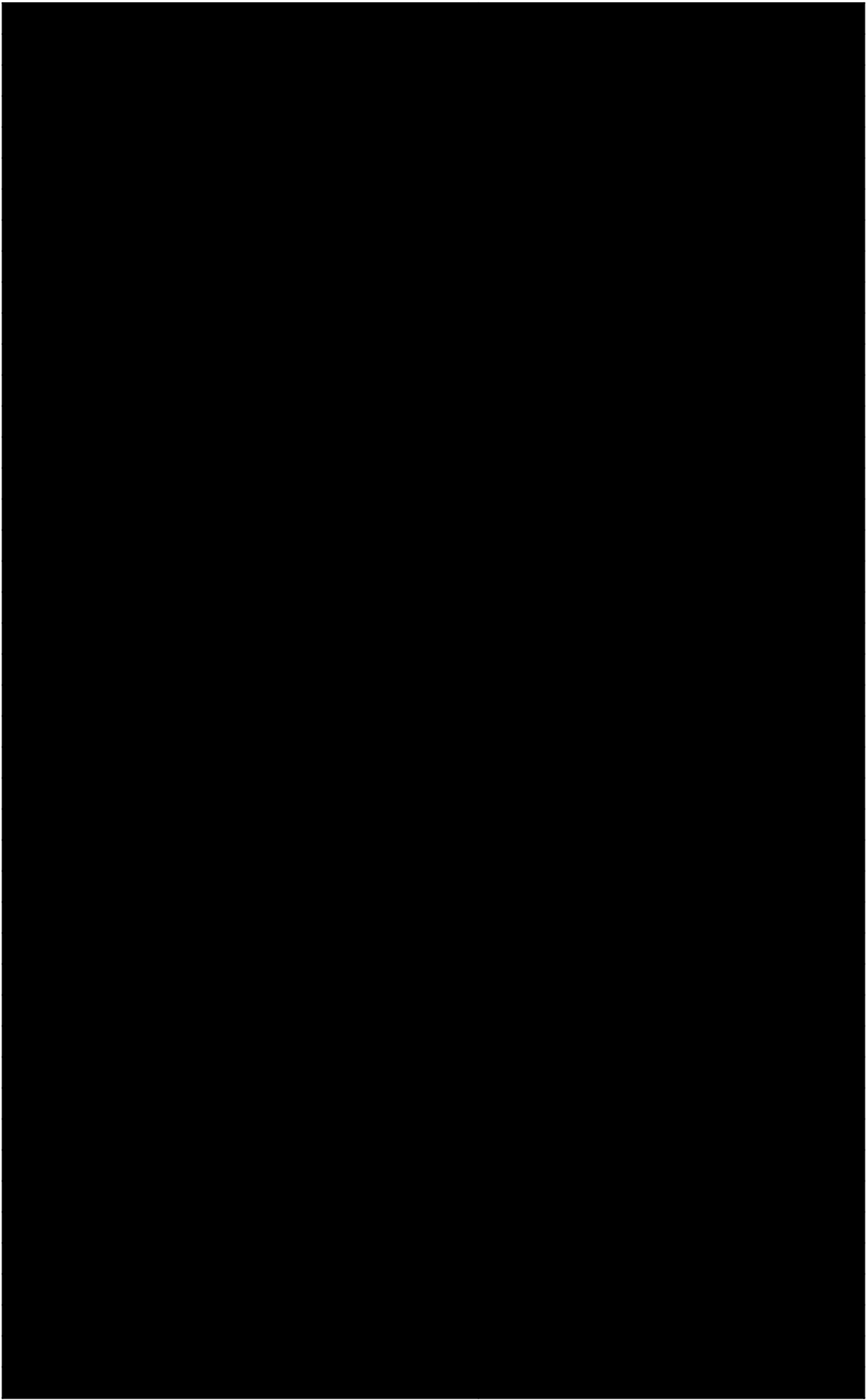
[illegible]

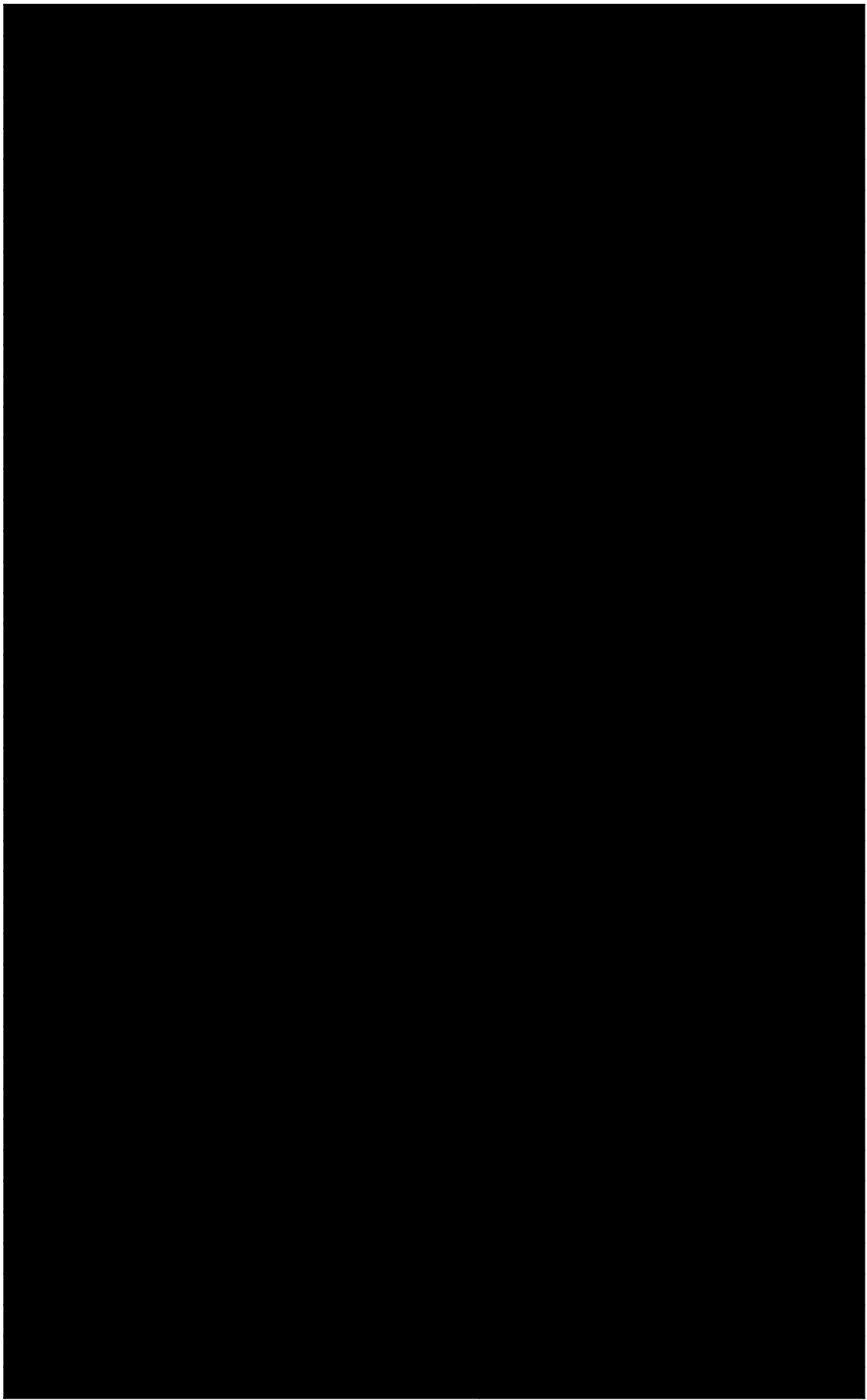
2/22/2021

F that are sent to each destruction facility in

[illegible]



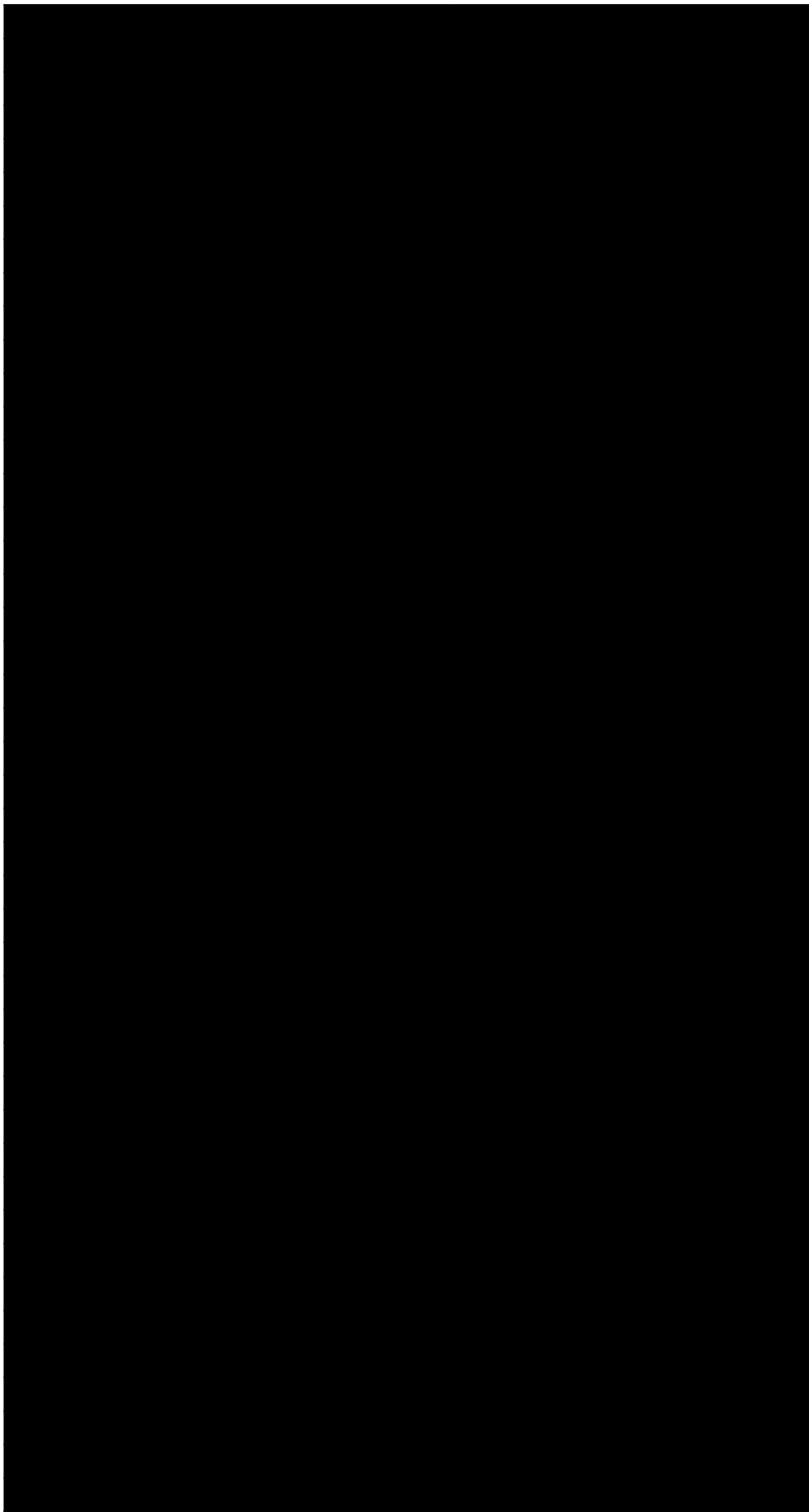


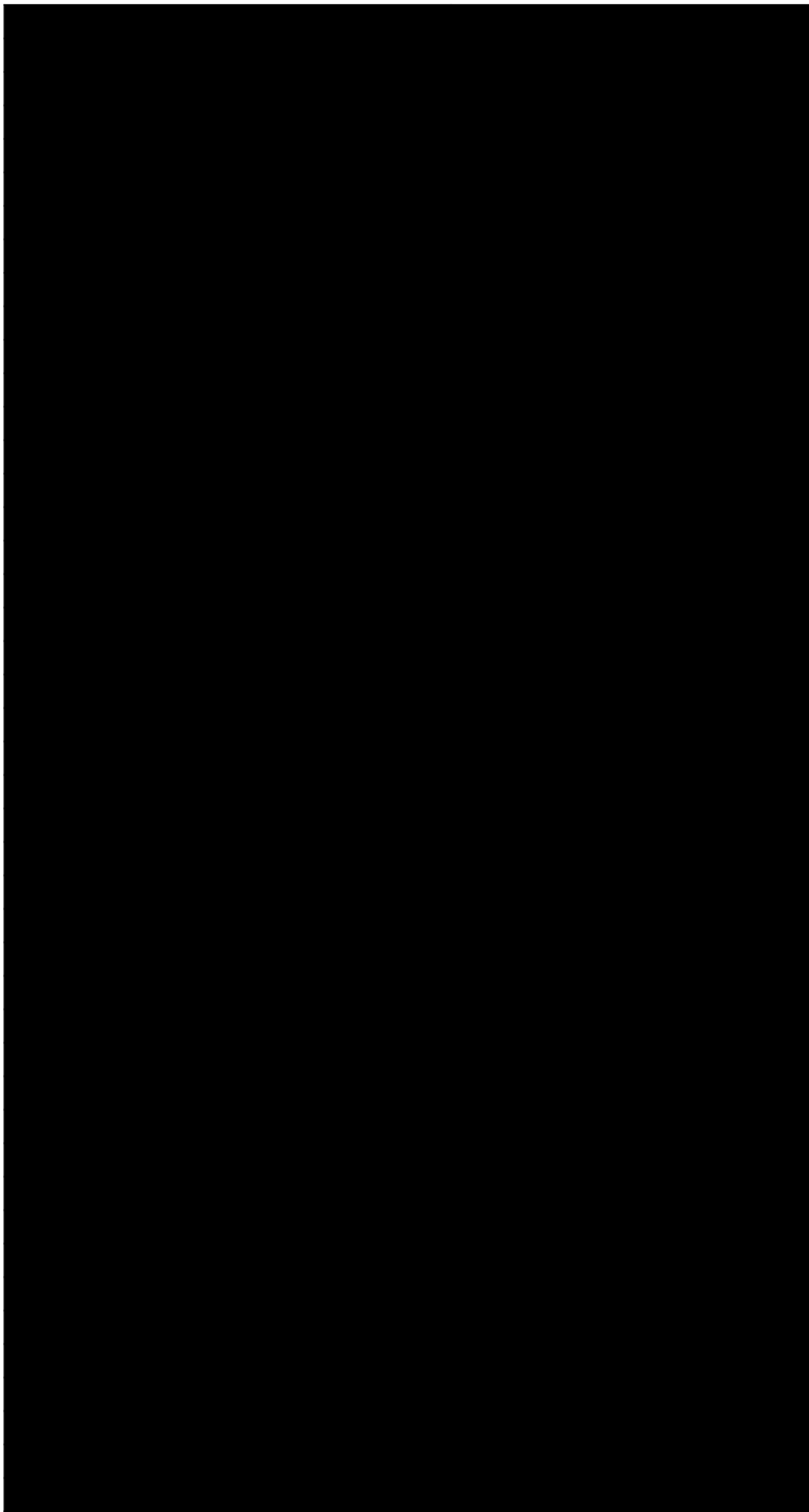


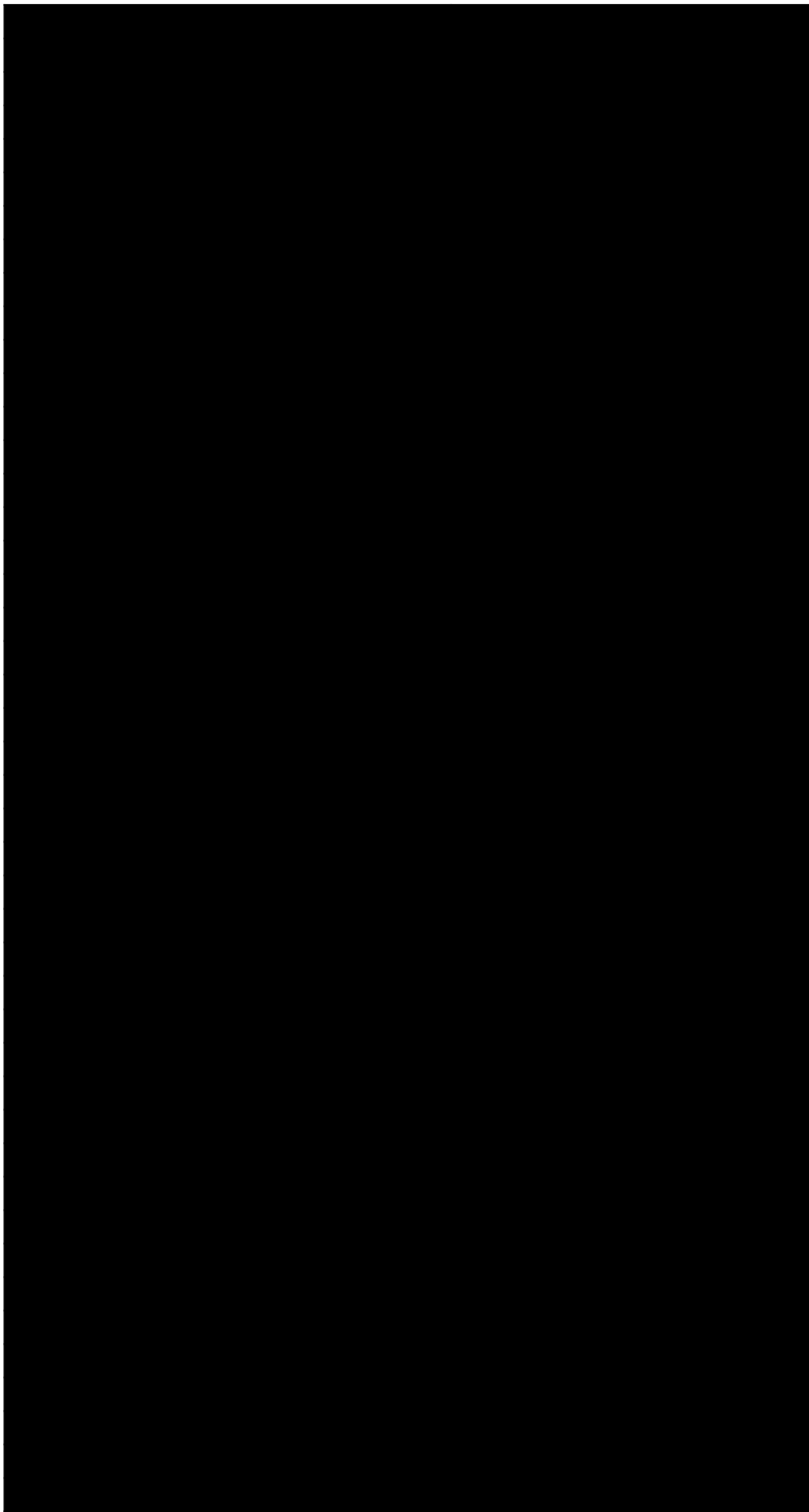


[illegible]

Chemical Formula:	
ces (SRS) by name and/or Chemical GHG constituent cannot be found via available, CASRN	
Specify F-GHG or Category for Purposes of Estimating GWP (if necessary) [98.3(c)(5)(ii)]	

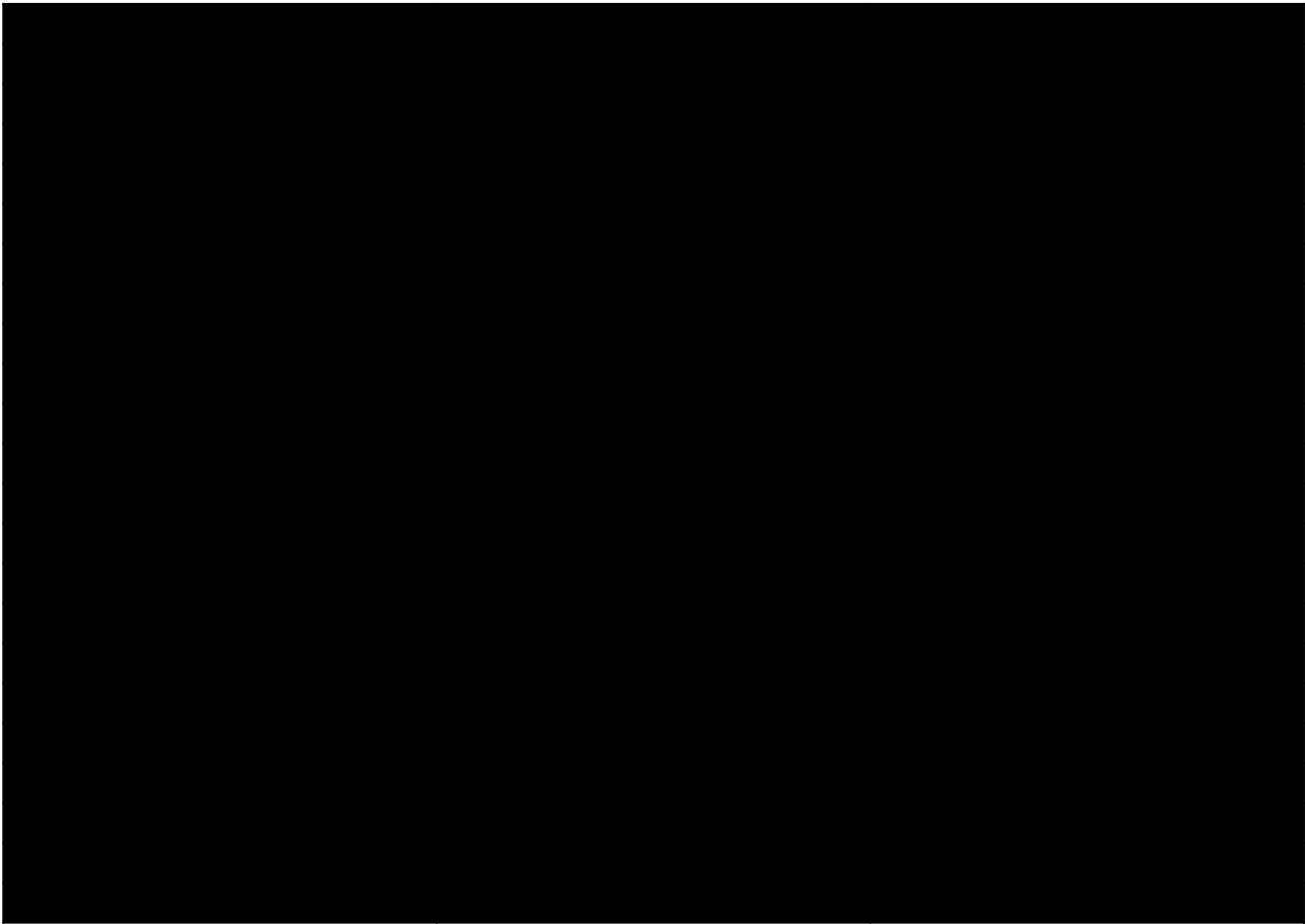








non-US City	non-US Province	non-US Postal Code



<div>Quantity of the F-GHG or F-HTF sent to that facility for destruction, except those removed as by-products or other waste (metric tons)</div> <div>[98.416(a)(15)]</div>	<div>Was this F-GHG or F-HTF removed from a production process as a BYPRODUCT or OTHER WASTE?</div> <div>[98.416(a)(6) and (a)(7)]</div>	<div>Was the mass determined using a missing data procedure?</div> <div>[98.416(a)(16)]</div>

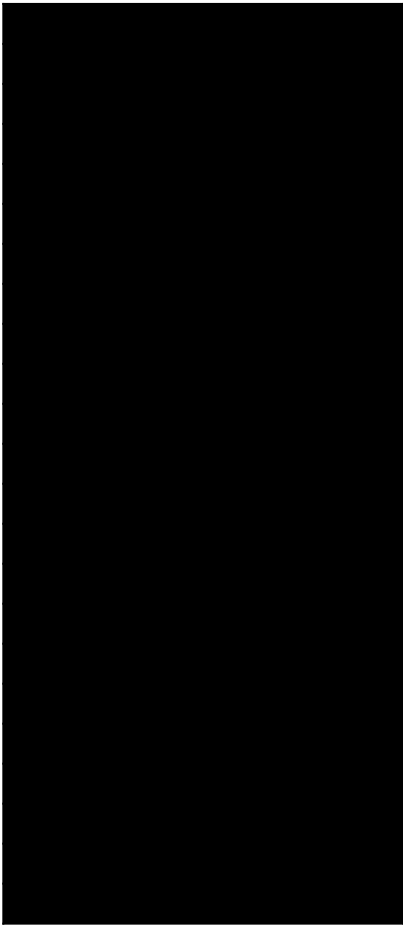
[illegible]

[illegible]

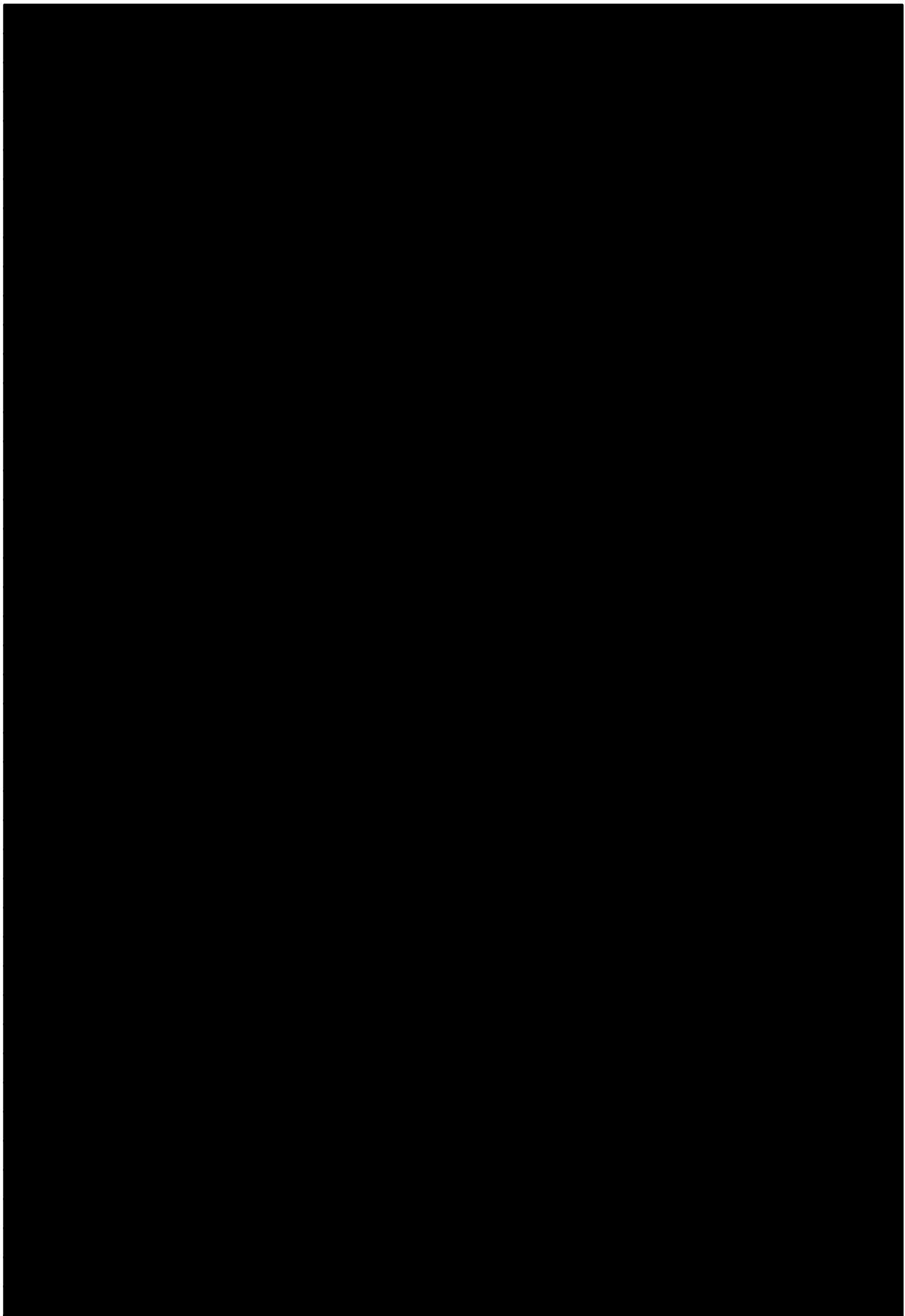
[illegible]

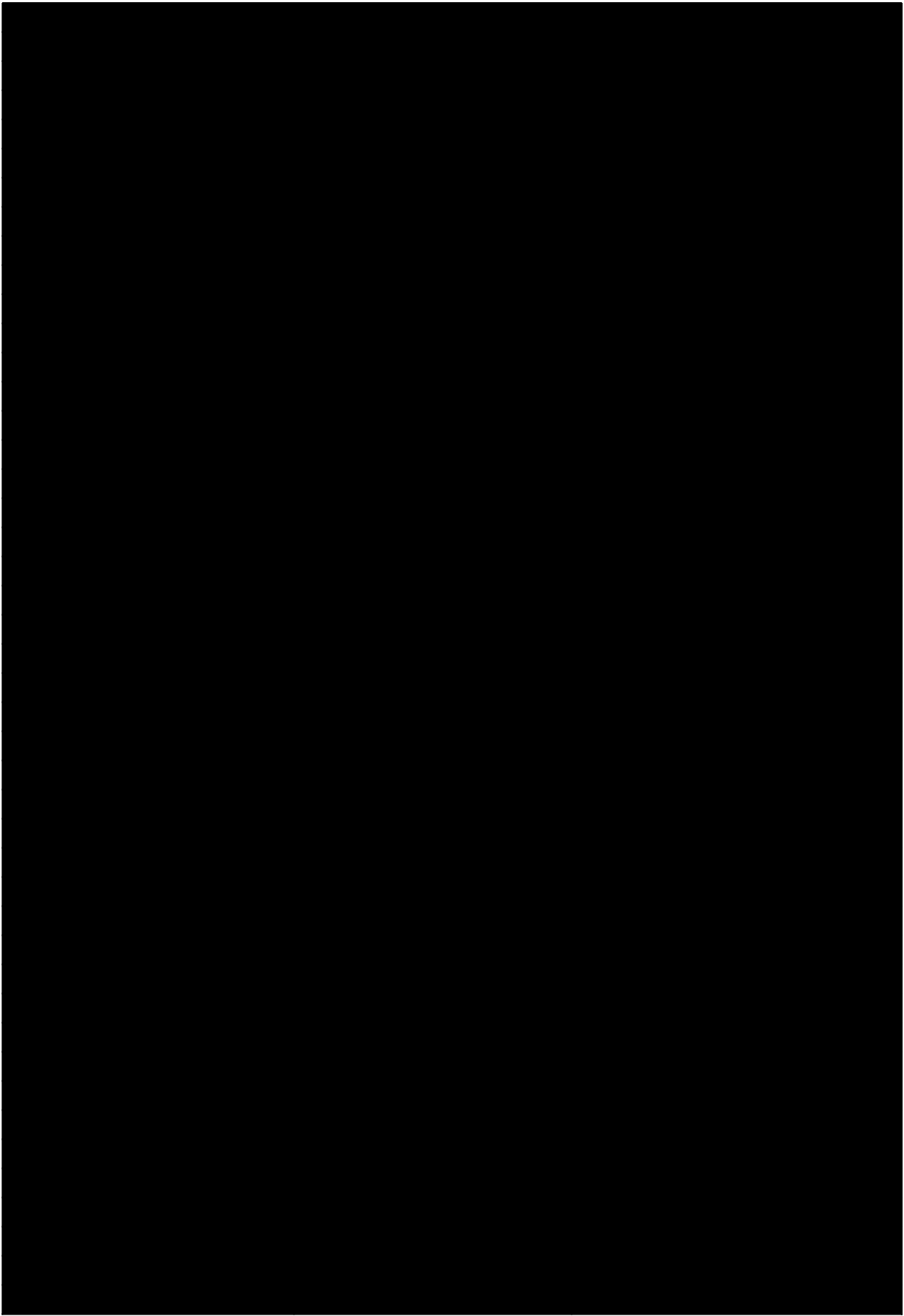
[illegible]

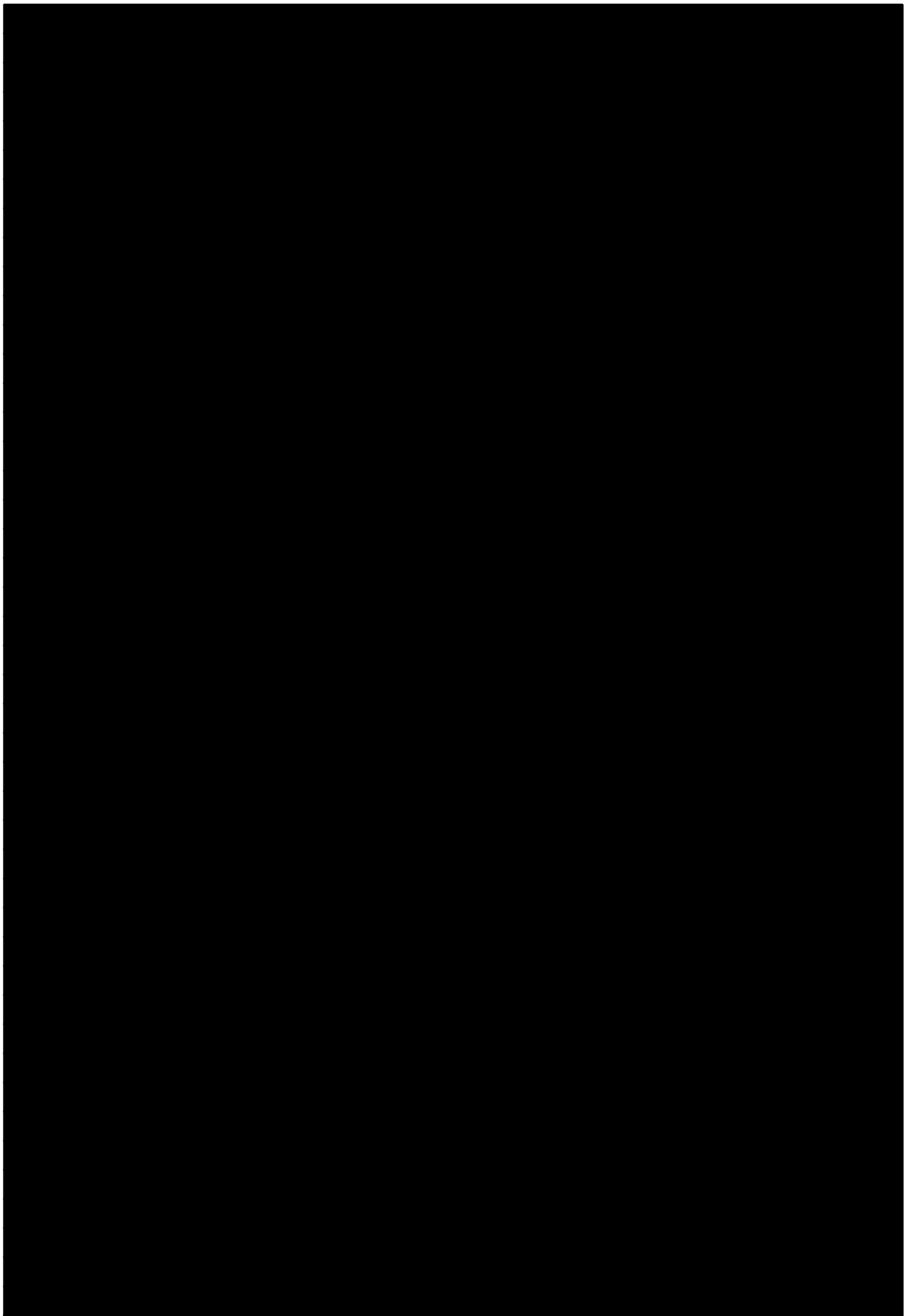
**non-US
Country**



<div>Mass determined using the missing data procedure (metric tons)</div> <div>[98.416(a)(16)]</div>	<div>Number of hours that a missing data procedure was used to measure the mass fed into the destruction device</div> <div>[98.416(a)(16)]</div>	<div>Reason a missing data procedure was used</div> <div>[98.416(a)(16)]</div>
<div></div>		

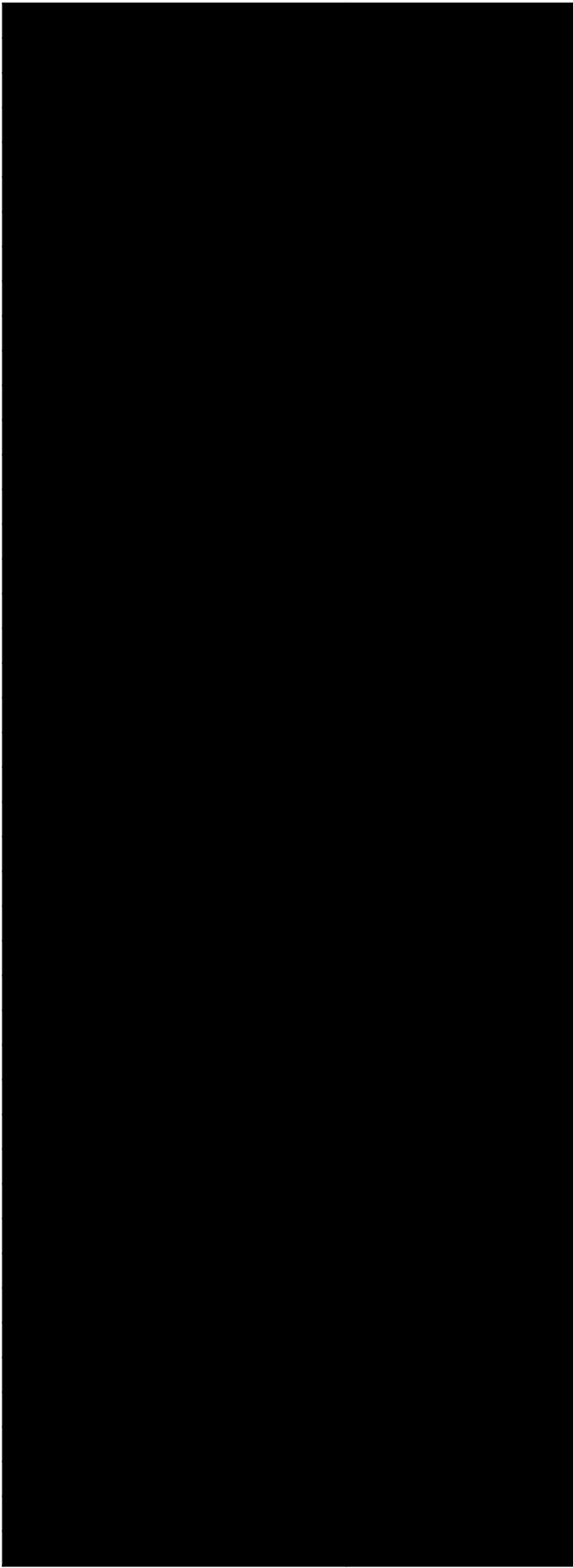


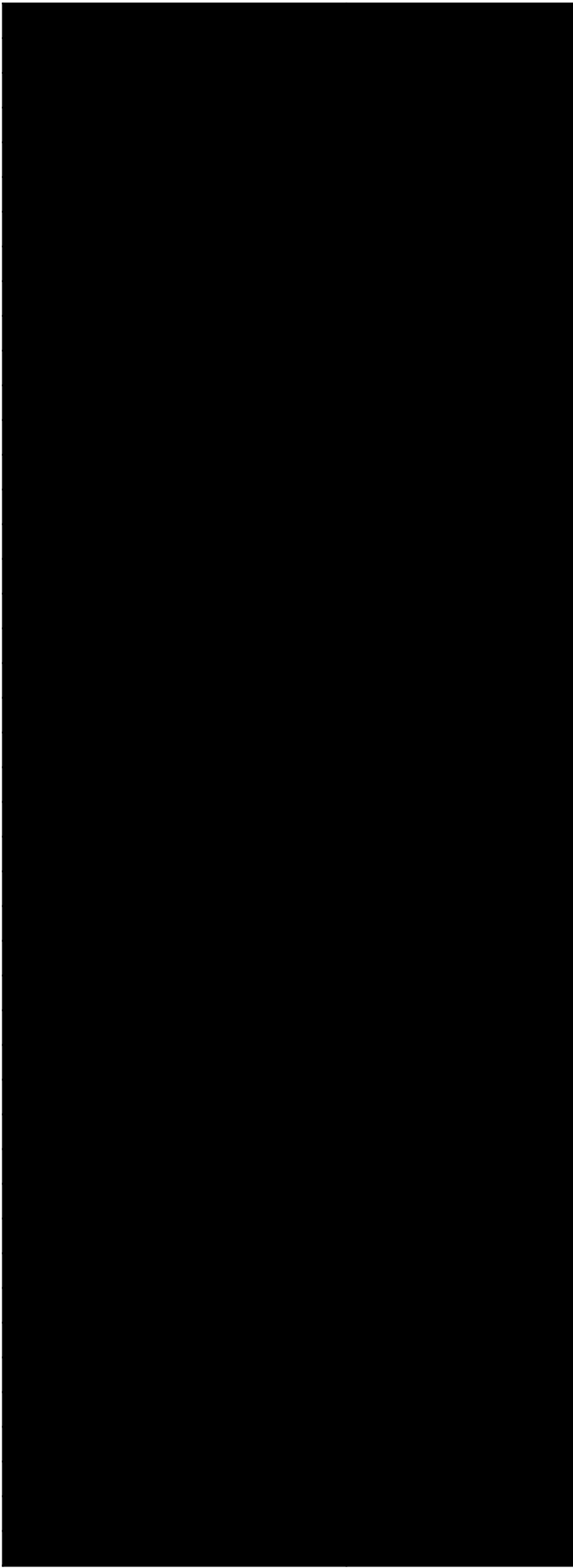


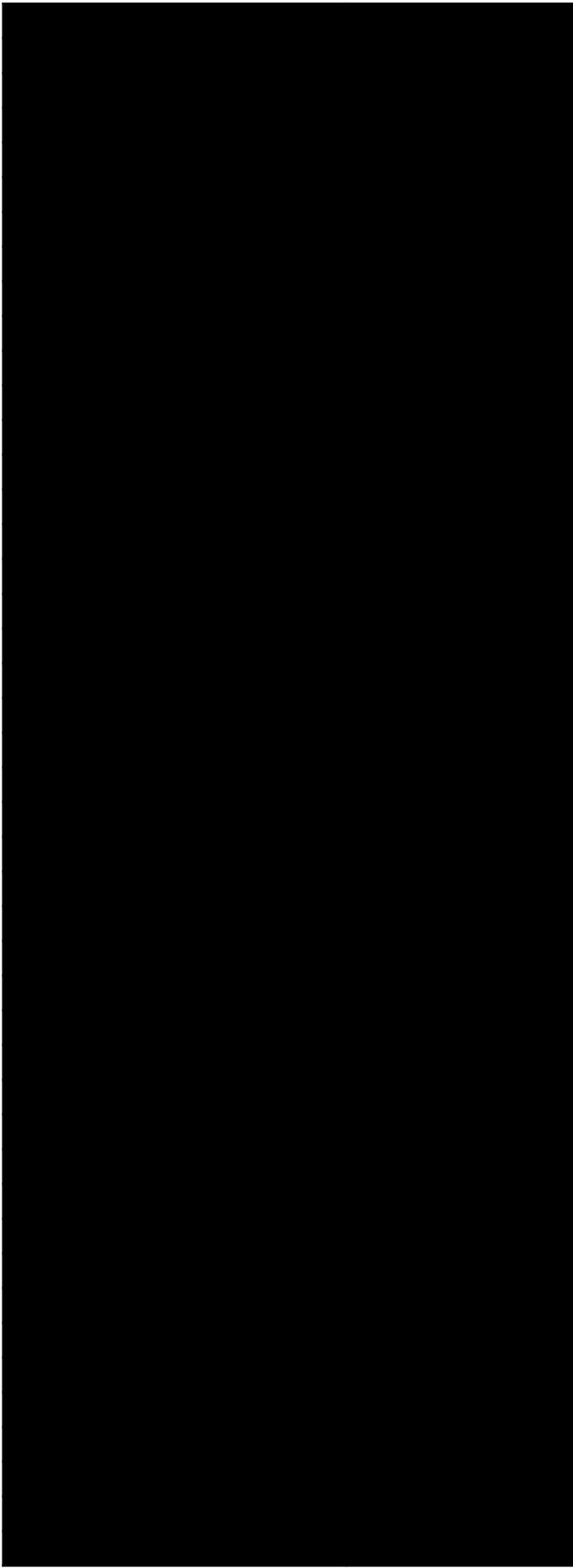




Method used to estimate the missing data [98.416(a)(16)]	Specify the "Other" measurement method used to determine mass (if applicable) [98.416(a)(16)]









Listing of f-GHGs for Use in Subpart OO Producers Form

The following F-GHGs are listed only by name in the F-GHG pick lists on the preceding tabs. The f-GHGs below are presented in the same order as in the pick lists. **Use Ctrl+F to search this list by name or CASRN.** Once you have identified the F-GHG please note the F-GHG name used in this Inputs Form and its location within the pick list so that you can more easily locate it in the pick lists.

Chemical Name

Nitrous Oxide
Sulfur hexafluoride
Trifluoromethyl sulphur pentafluoride
Nitrogen trifluoride
PFC-14 (Perfluoromethane)
PFC-116 (Perfluoroethane)
PFC-218 (Perfluoropropane)
Perfluorocyclopropane
PFC-3-1-10 (Perfluorobutane)
Perfluorocyclobutane
PFC-4-1-12 (Perfluoropentane)
PFC-5-1-14 (Perfluorohexane, FC 72)
PFC-6-1-12
PFC-7-1-18
PFC-9-1-18
PFPME (HT-70)
Perfluorodecalin (cis)
Perfluorodecalin (trans)
Octafluorotetrahydrofuran
FC-3283/FC-8270 (Perfluorotripropylamine)
FC-3284 (Perfluoromethylmorpholine)
FC-40/FC-43 (Perfluorotributylamine (PTBA))
FC-770 (Perfluoroisopropylmorpholine)
HT-55
HT-90
HT-110
HT-135
HFC-23
HFC-32
HFC-41
HFC-125
HFC-134
HFC-134a
HFC-143
HFC-143a
HFC-152
HFC-152a
HFC-161

HFC-227ca
HFC-227ea
HFC-236cb
HFC-236ea
HFC-236fa
HFC-245ca
HFC-245cb
HFC-245ea
HFC-245eb
HFC-245fa
HFC-263fb
HFC-272ca
HFC-329p
HFC-365mfc
HFC-43-10mee
1,1,1,2,2,3,3-Heptafluoro-3-(1,2,2,2-tetrafluoroethoxy)-propane
1,1,2,2-Tetrafluoro-1-(fluoromethoxy)ethane
1,1,2,2-Tetrafluoro-3-methoxy-propane; Methyl 2,2,3,3-tetrafluoropropyl ether
1,1,2-Trifluoro-2-(trifluoromethoxy)-ethane
1,1,3,3,4,4,6,6,7,7,9,9,10,10,12,12,13,13,15,15-eicosafluoro-2,5,8,11,14-Pentaoxapentadecane
1-Ethoxy-1,1,2,2,3,3,3-heptafluoropropane
1-Ethoxy-1,1,2,3,3,3-hexafluoropropane
2-Chloro-1,1,2-trifluoro-1-methoxyethane
2-Ethoxy-3,3,4,4,5-pentafluorotetrahydro-2,5-bis[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-furan
Difluoro(fluoromethoxy)methane
Difluoro(methoxy)methane
Fluoro(fluoromethoxy)methane
Fluoro(methoxy)methane
HCFE-235ca2 (Enflurane)
Isoflurane (HCFE-235da2)
HFE-125
HFE-134
HFE-143a
HFE-227ea
HFE-236ca
HFE-236ca12 (HG-10)
Desflurane (HFE-236ea2)
HFE-236fa
HFE-245cb2
HFE-245fa1
HFE-245fa2
HFE-254cb2
HFE-263fb2
HFE-263m1; R-E-143a
HFE-329mcc2

HFE-329me3
HFE-338mcf2
HFE-338mmz1
HFE-338pcc13 (HG-01)
HFE-347mcc3
HFE-347mcf2
HFE-347mmy1
Sevoflurane
HFE-347pcf2
HFE-356mec3
HFE-356mff2
HFE-356mmz1
HFE-356pcc3
HFE-356pcf2
HFE-356pcf3
HFE-365mcf2
HFE-365mcf3
HFE-374pc2
HFE-43-10pccc (H-Galden 1040x)
HFE-449sl, (HFE-7100) Isomer blend
HFE-569sf2, (HFE-7200) Isomer blend
HG'-01
HG'-02
HG-02
HG'-03
HG-03
HG-20
HG-21
HG-30
Trifluoro(fluoromethoxy)methane
HFE-7300 (1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-trifluoromethyl-pentane)
HFE-7500 (3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-trifluoromethyl-hexane)
Trifluoromethyl formate
Perfluoroethyl formate
1,2,2,2-Tetrafluoroethyl formate
Perfluorobutyl formate
Perfluoropropyl formate
1,1,1,3,3,3-Hexafluoropropan-2-yl formate
2,2,2-Trifluoroethyl formate
3,3,3-Trifluoropropyl formate
Methyl 2,2,2-trifluoroacetate
1,1-Difluoroethyl 2,2,2-trifluoroacetate
Difluoromethyl 2,2,2-trifluoroacetate
2,2,2-Trifluoroethyl 2,2,2-trifluoroacetate
Methyl 2,2-difluoroacetate

Perfluoroethyl acetate
Trifluoromethyl acetate
Perfluoropropyl acetate
Perfluorobutyl acetate
Ethyl 2,2,2-trifluoroacetate
Methyl carbonofluoride
1,1-Difluoroethyl carbonofluoride
Bis(trifluoromethyl)-methanol
(Octafluorotetramethylene)hydroxymethyl group
2,2,3,3,3-pentafluoropropanol
2,2,3,3,4,4,4-Heptafluorobutan-1-ol
2,2,2-Trifluoroethanol
2,2,3,4,4,4-Hexafluoro-1-butanol
2,2,3,3-Tetrafluoro-1-propanol
2,2-Difluoroethanol
2-Fluoroethanol
4,4,4-Trifluorobutan-1-ol
PFC-1114; TFE
PFC-1216; Dyneon HFP
PFC C-1418
Perfluorobut-2-ene
Perfluorobut-1-ene
Perfluorobuta-1,3-diene
HFC-1132a; VF2
HFC-1141; VF
(E)-HFC-1225ye
(Z)-HFC-1225ye
HCFC-1233zd(E)
HFC-1234yf; HFO-1234yf
HFC-1234ze(E)
HFC-1234ze(Z)
HFC-1243zf; TFP
(Z)-HFC-1336
HFC-1345zfc
Capstone 42-U
Capstone 62-U
Capstone 82-U
PMVE; HFE-216
Fluoroxene
3,3,3-Trifluoro-propanal
Novec 649/1230, FK 5-1-12, perfluoro(2-methyl-3-pentanone)
3,3,4,4,5,5,6,6,7,7,7-Undecafluoroheptan-1-ol
3,3,3-Trifluoropropan-1-ol
3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-Pentadecafluorononan-1-ol
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-Nonadecafluoroundecan-1-ol

Trifluoroiodomethane
Dibromodifluoromethane (Halon 1202)
2-Bromo-2-chloro-1,1,1-trifluoroethane (Halon-2311 / Halothane)
Perfluoroethyl vinyl ether
Galden ZT-85
Galden ZT-130
Galden ZT-150
Perfluorosolv PFS-2
DET
HT-80
D05
Perfluoropropyl vinyl ether
2H-perfluoro(5-methyl-3,6-dioxanonane)
Trifluoromethanesulfonyl fluoride
Carbonic difluoride
Trifluoroacetyl fluoride
Perfluorodiethyl ether
Perfluorobutanesulfonyl fluoride
Perfluoropropionyl fluoride
Perfluorobutyl iodide
Hexafluorooxetane
Hexafluoropropylene oxide
Propanoic Acid, 3-[1-[Difluoro [(Trifluoroethenyl oxy) Methyl]-1,2,2,2-Tetrafluoroethoxy] -2,2,3,3-Tetrafluoro-, Me
Pentafluoro(trifluoromethoxy)-ethane
1,1,1,3,3,5,5,7,7,9,9,11,11-tridecafluoro-2,4,6,8,10-pentaoxadodecan-12-oyl fluoride
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoyl fluoride
C5F13N
Perfluorocyclohexane
HEPTAFLUOROPROPYL TRIFLUOROMETHYL ETHER
Perfluoro-2-(2-Fluorosulfonylethoxy) Propyl Vinyl Ether
Perfluoro(methylcyclopropane)
FC-70
LS-240
D03
DO2-TS
HS-240
HS-260
HT-170
HT-200
HT-230
HT-270
LS-200
LS-215
LS-260
LS-230

Other F-GHG or F-HTFs not listed

CASRN	Position Indicators		
	Extended List	Short List	AIM HFC List
10024-97-2	1 of 219	1 of 35	
2551-62-4	2 of 219	2 of 35	
373-80-8	3 of 219		
7783-54-2	4 of 219	3 of 35	
75-73-0	5 of 219	4 of 35	
76-16-4	6 of 219	5 of 35	
76-19-7	7 of 219	6 of 35	
931-91-9	8 of 219		
355-25-9	9 of 219		
115-25-3	10 of 219	7 of 35	
678-26-2	11 of 219	8 of 35	
355-42-0	12 of 219	9 of 35	
335-57-9	13 of 219	10 of 35	
307-34-6	14 of 219		
306-94-5	15 of 219	11 of 35	
69991-67-9 (b)	16 of 219	12 of 35	
60433-11-6	17 of 219		
60433-12-7	18 of 219		
773-14-8	19 of 219		
338-83-0	20 of 219		
382-28-5	21 of 219		
1064698-37-8	22 of 219		
1093615-61-2	23 of 219		
69991-67-9 (a)	24 of 219		
69991-67-9 (c)	25 of 219		
69991-67-9 (d)	26 of 219		
69991-67-9 (e)	27 of 219		
75-46-7	28 of 219	13 of 35	18 of 18
75-10-5	29 of 219	14 of 35	12 of 18
593-53-3	30 of 219	15 of 35	15 of 18
354-33-6	31 of 219	16 of 35	13 of 18
359-35-3	32 of 219		1 of 18
811-97-2	33 of 219	17 of 35	2 of 18
430-66-0	34 of 219		3 of 18
420-46-2	35 of 219	18 of 35	14 of 18
624-72-6	36 of 219		16 of 18
75-37-6	37 of 219	19 of 35	17 of 18
353-36-6	38 of 219		

2252-84-8	39 of 219		
431-89-0	40 of 219	20 of 35	6 of 18
677-56-5	41 of 219		7 of 18
431-63-0	42 of 219		8 of 18
690-39-1	43 of 219		9 of 18
679-86-7	44 of 219		10 of 18
1814-88-6	45 of 219		
24270-66-4	46 of 219		
431-31-2	47 of 219		
460-73-1	48 of 219	21 of 35	4 of 18
421-07-8	49 of 219		
420-45-1	50 of 219		
375-17-7	51 of 219		
406-58-6	52 of 219		5 of 18
138495-42-8	53 of 219		11 of 18
3330-15-2	54 of 219		
37031-31-5	55 of 219		
60598-17-6	56 of 219		
84011-06-3	57 of 219		
173350-38-4	58 of 219		
22052-86-4	59 of 219		
380-34-7	60 of 219		
425-87-6	61 of 219		
920979-28-8	62 of 219		
461-63-2	63 of 219		
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