



United States  
**ENVIRONMENTAL PROTECTION AGENCY**  
Washington, DC 20460

**Responsible Appliance Disposal (RAD) Program Annual Reporting Form**

Office of Air & Radiation

**INTRODUCTION**

The U.S. EPA's Responsible Appliance Disposal (RAD) Program for utilities, manufacturers, retailers, states, and other qualifying organizations is a voluntary program that helps protect the ozone layer and reduce emissions of greenhouse gases. Through the Program, partners dispose of old refrigerators, freezers, dehumidifiers, and window air-conditioning units using the best environmental practices available and going beyond what is required by federal law.

This reporting form will allow EPA to track and quantify the environmental benefits achieved by your program, and ultimately, those achieved by the RAD Program as a whole.

**CONFIDENTIALITY**

All information provided in this report will be considered strictly confidential. No company-specific information will be disclosed to the public; all company data will be aggregated into summary reports before being made available to the public.

**INSTRUCTIONS**

Please complete all worksheets that are applicable to your program. Within each worksheet, please provide information for all fields requested. The purpose of each worksheet and the type of information requested in each is outlined below. Please ensure that all of the following steps have been completed before submitting the reporting form.

**Step 1: Contact and Program Information**

Provide your contact and program information.

**Step 2: Third-Party Information**

Enter contact information for and details about all companies providing appliance collection and processing services under your program.

**Step 3: Activity Data on Processed Units**

Complete a Step 3 worksheet for each appliance type included in your program. There are separate worksheets for Refrigerators, Stand-Alone Freezers, Air Conditioning Units, and Dehumidifiers. For each type of appliance processed by your program, complete the worksheet to provide the number of units processed and the amounts of materials/components recovered from those units.

**Step 4: Units Handled Jointly by Your Organization and Another RAD Partner**

Complete this worksheet if any appliances were jointly processed by your organization and another RAD partner. When reporting the units by refrigerant type and blowing agent type, report only the units processed with refrigerant recovery and foam recovery, respectively.

**Step 5: Summary of Input Data for Quality Assurance and Program Benefits**

- a) Review Step 5 Summary of Input Data for Quality Assurance worksheet to ensure that the information entered in Step 3 worksheets is accurate. This worksheet is used for quality assurance purposes and does not require any data input.
- b) Review Step 5 Summary of Program's Environmental Benefits and Step 5 Summary of Program's Gross Energy Impacts from Removal of Old Units worksheets to learn about the environmental and/or energy impacts associated with your program.

**Step 6: Partner Feedback**

Provide qualitative information on your program and any input on the RAD program.

**Step 7: Confirmation**

Check and sign a statement confirming that all information provided in this form is accurate, to the best of your knowledge.

**DEFINITIONS**

**Recover:** To remove a material (in any condition) from an appliance and then store it externally without necessarily testing or processing it in any way.

**Reclaim:** To reprocess ODS and ODS substitutes using specialized machinery to at least the requirements specified in the ARI Standard 700, Specifications for Fluorocarbon Refrigerants, and to verify using the analytical methodology prescribed in the Standard.

**Stockpiling with Intent to Reclaim:** To store refrigerant or foam-blowing agent on-site at the recycling facility where the unit was processed with the intent of later reclaiming the substance(s).

**Recycle:** To extract material from an appliance and process it for reuse. Recycling durable components, such as metals, rubber, plastic, and glass, entails reprocessing them for future use in other manufactured products, and not reuse of the appliance itself. When recycling used oil, refrigerants must be recovered from the used oil to the fullest extent possible, and the used oil cannot be mixed with used oil from sources other than refrigeration units.

**Destroy:** To cause the expiration of a controlled substance. Destruction does not result in a commercially useful end product. For refrigerant or foam-blowing agent, destruction must be performed in accordance with the guidelines in 40 CFR §82.3. For PCBs, which are found in capacitors manufactured before 1980, destruction must be in accordance with 40 CFR §761.

**Stockpiling with Intent to Destroy:** To store refrigerant or foam-blowing agent on-site at the recycling facility where the unit was processed with the intent of later destroying the substance(s).

**Dispose:** Mercury waste, such as switches and relays, must be recovered from appliances prior to disposal or shredding, sent to a qualified recovery facility that has appropriate hazardous waste management permits, and managed in accordance with applicable federal, state, and local hazardous waste regulations (e.g., waste must be properly packaged prior to transport). The federal hazardous waste regulations under the Resource Conservation and Recovery Act (RCRA) can be found in 40 CFR §260 - 279. Used oil must be disposed in accordance with 40 CFR §279.81.

**Energy Cost for Residential Consumers (\$/kWh):** the energy cost paid by consumers, which may include a customer charge, distribution charge, transmission charge, transition charge, generation service charge, or other charges based on the electricity pricing scheme in your region.

**SEND COMPLETED FORMS VIA EMAIL TO:**

Sally Hamlin, Stratospheric Protection Division  
Hamlin.Sally@epa.gov

**BURDEN STATEMENT**

The public reporting and recordkeeping burden for this collection of information is estimated to average 6 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.



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**Step 1: Contact and Program Information**

**Instructions:** Provide your contact and program information (Tables A and B) on this page.

**A. Contact Information**

Name of RAD Partner: <input style="width: 95%;" type="text"/>	Reporting Period: <input style="width: 20%;" type="text" value="MM/DD/YYYY"/> to <input style="width: 20%;" type="text" value="MM/DD/YYYY"/>
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<b>Primary Contact:</b> Contact Name <input style="width: 95%;" type="text"/> Address <input style="width: 95%;" type="text"/> <input style="width: 95%;" type="text"/> <input style="width: 95%;" type="text"/> Daytime Phone <input style="width: 95%;" type="text"/> Fax <input style="width: 95%;" type="text"/> E-mail Address <input style="width: 95%;" type="text"/>	<b>Alternate Contact:</b> Contact Name <input style="width: 95%;" type="text"/> Address <input style="width: 95%;" type="text"/> <input style="width: 95%;" type="text"/> <input style="width: 95%;" type="text"/> Daytime Phone <input style="width: 95%;" type="text"/> Fax <input style="width: 95%;" type="text"/> E-mail Address <input style="width: 95%;" type="text"/>
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**B. Program Information**

Please select the RAD partner category your program falls under: <input style="width: 30%;" type="text"/>								
Indicate which appliance types are included in your program: <table style="margin-left: 20px;"> <tr><td>Refrigerators</td><td><input type="checkbox"/></td></tr> <tr><td>Stand-Alone Freezers</td><td><input type="checkbox"/></td></tr> <tr><td>Air-Conditioning Units</td><td><input type="checkbox"/></td></tr> <tr><td>Dehumidifiers</td><td><input type="checkbox"/></td></tr> </table>	Refrigerators	<input type="checkbox"/>	Stand-Alone Freezers	<input type="checkbox"/>	Air-Conditioning Units	<input type="checkbox"/>	Dehumidifiers	<input type="checkbox"/>
Refrigerators	<input type="checkbox"/>							
Stand-Alone Freezers	<input type="checkbox"/>							
Air-Conditioning Units	<input type="checkbox"/>							
Dehumidifiers	<input type="checkbox"/>							
Does your program jointly process/administer some appliances with another RAD partner? <input type="checkbox"/>								
Does your program provide an incentive (e.g., financial) to encourage disposal of old, working refrigerated appliances? <input type="checkbox"/>								

Revised 1/2016



## Step 2: Third-Party Information

**Instructions:** In Tables A-E below, please indicate the contact information for all companies used by your program to collect the requirements of the RAD Program. Indicate an "x" for the role fulfilled by each company. Note that you may need to copy addresses of the companies that provide the services specified. Please add additional rows if needed.

### A. Haul-Away and Demanufacturing Companies

Company Name	Contact Name	Phone Number	Address
<i>Example Company A</i>	<i>John Smith</i>	<i>123-456-7890</i>	<i>City, State, Zipcode</i>

### B. Refrigerant Reclamation and Destruction Facilities

Company Name	Contact Name	Phone Number	Address

### C. Foam/Blowing Agent Recovery Process

Please use an "x" in the appropriate column to indicate the appliance items from which foam is recovered and the foam recovery process used.

Company Name	Foam Recovery Items		Foam/Blowing Agent Recovery Process		
	Doors	Case	Manual (saw and scrape/file) <sup>a</sup>	Semi-Automated (saw, scrape/filet, and process to recover blowing agent) <sup>b</sup>	Fully Automated (appliance processed whole to recover blowing agent) <sup>c</sup>
<i>Example Company B</i>		x		x	

<sup>a</sup> Manual: The appliance is deconstructed with the use of hand or electric saws; foam is removed manually by scraping or filing. The foam is then destroyed.

<sup>b</sup> Semi-Automated: The appliance is deconstructed with the use of hand or electric saws; the intact foam panels are then processed using an automated technology.

<sup>c</sup> Fully Automated: The whole appliance is processed using an automated technology to recover the blowing agent.

<sup>d</sup> For example, Adelman, SEG, and URT.

### D. Foam/Blowing Agent Reclamation and Destruction Facilities

Facility Name	Contact Name	Phone Number	Address


**E. Hazardous Materials Recycling and Disposal Facilities**

Facility Name	Contact Name	Phone Number	Address

Revised 1/2016

# ON AGENCY

ect/treat appliances and recovered materials in order to fulfill  
ntact third-party providers in order to obtain the names and

ess	Company Role					
	Appliance Haul-Away	Refrigerant Recovery	Foam/Blowing Agent Recovery	Mercury Recovery	Used Oil Recovery	PCBs Recovery
	x	x		x	x	x

ess	Facility Role		Type of Destruction Technology (if applicable)
	Reclamation	Destruction	

overy process used.

g Agent Recovery Process	
Other: please describe	Name of Automated Technology/Equipment Type (if an automated technology is selected) <sup>d</sup>
	SEG

ed with the blowing agent intact.  
chnology to recover the blowing agent.

ess	Facility Role		Type of Destruction Technology (if applicable)
	Reclamation	Destruction	


ess	Facility Role		
	Recycling/ Disposal of Used Oil	Disposal of PCBs	Disposal of Mercury





### Step 3: Activity Data on Refrigerators

MM/DD/YYYY to MM/DD/YYYY
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**Instructions:** All partners should complete Tables A and B. If your program provides an incentive (e.g., financial) to encourage the disposal of old, working refrigerated appliances, please also complete Table C. When populating cells, please use the units provided; do not add text to specify units. This form only recognizes numbers.

#### A. Units Processed

Please complete the gray cells below. Enter the total number of units processed by your program by refrigerant type and insulating material type in column D. Specify the number of units processed with refrigerant recovery and foam recovery in cells E11 to E13 and cells E16 to E22, respectively, and whether foam was recovered from appliance doors (cells F16 to F19). Also, provide the average age of appliances collected (cell D9), and whether the information on refrigerant and blowing agent types is based on assumptions or data (cells F11 to F13 and cells G16 to G22, respectively). If any of the units reported in column D were jointly processed/administered with another RAD Utility, Retailer, Manufacturer, or State Partner, please indicate the number of these units in Step 4 - Units Jointly Processed; the units reported in this table should be inclusive of the units reported in Step 4. If you wish to provide additional information (e.g., regarding types of refrigerants or insulating materials not listed below) or highlight uncertainties in your reporting, please do so in the "Comments" box.

Total Number of Units Processed					
Average Age of Appliances Collected (yrs)					
Refrigerant Type	Total Number of Units Processed	Number of Units Processed with Refrigerant Recovery	Refrigerant Type Based On:	Comments:	
CFC-12					
HFC-134a					
Other					
<b>Total</b>	0	0			
Insulating Material Type	Total Number of Units Processed	Number of Units Processed with Foam Recovery	Was Foam Recovered From Appliance Doors?	Insulating Material Type Based On:	Comments:
CFC-11 Blowing Agent					
HCFC-141b Blowing Agent					
HFC-134a Blowing Agent					
HFC-245fa Blowing Agent					
Cyclopentane Blowing Agent					
Fiberglass					
Other					
<b>Total</b>	0	0			

#### B. Fate and Quantity of Substances Recovered

Please complete the table below to provide the total amount of appliance components recovered by your program during the current reporting period. If any substances recovered during the current reporting period are currently in storage, please report on the *intended* fate of the substance (e.g., stockpiling with intent to reclaim/destroy). Refer back to the Instructions for Use for definitions of the fates for each component. For any fields that do not apply to your program, please enter "0" under "Total Amount" in column F. For every non-zero value entered in column F, indicate whether the quantity specified is based on actual measurements or on assumptions by selecting the appropriate option in column H. If you wish to clarify uncertainties about the data provided, or wish to provide further information, please use the space for "Additional Comments" at the bottom of this worksheet.

Appliance Component	Fate of Component	Total Amount	Total Amount Based On:
Refrigerant (including that recovered from compressor oil)	CFC-12		
	Reclaimed		(lb)
	Stockpiling with Intent to Reclaim		(lb)
	Destroyed		(lb)
	Stockpiling with Intent to Destroy		(lb)
	HFC-134a		
	Reclaimed		(lb)
	Stockpiling with Intent to Reclaim		(lb)
	Destroyed		(lb)
	Stockpiling with Intent to Destroy		(lb)
Foam-Blowing Agent*	CFC-11		
	Reclaimed		(lb)
	Stockpiling with Intent to Reclaim		(lb)
	Destroyed		(lb)
	Stockpiling with Intent to Destroy		(lb)
	HCFC-141b		
	Reclaimed		(lb)
	Stockpiling with Intent to Reclaim		(lb)
	Destroyed		(lb)
	Stockpiling with Intent to Destroy		(lb)
	HFC-134a		
	Reclaimed		(lb)
	Stockpiling with Intent to Reclaim		(lb)
	Destroyed		(lb)
	Stockpiling with Intent to Destroy		(lb)
	HFC-245fa		
Reclaimed		(lb)	
Stockpiling with Intent to Reclaim		(lb)	
Destroyed		(lb)	
Stockpiling with Intent to Destroy		(lb)	
Used Oil	Recycled		(gal)
	Disposed		(gal)
	Ferrous Metal Recycled		(lb)
	Non-Ferrous Metal Recycled		(lb)
Metal	Recycled		(lb)
	Recycled		(lb)
Plastic	Recycled		(lb)
	Recycled		(lb)
Glass	Recycled		(lb)
	Recycled		(lb)
PCB-Containing Capacitors	Destroyed		(# of capacitors)
	Destroyed		(# of capacitors)

\*Foam-blowing agent typically represents only 10% of the total foam weight.

#### C. Energy Savings

Please complete the table below if your program provides an incentive (e.g., financial) to encourage the disposal (i.e., without replacement) of old, working refrigerated appliances.

Average Number of Remaining Years of Useful Life	
Average Energy Consumed/Year/Unit (kWh)	
Average Energy Cost for Residential Consumers (\$/kWh) <i>[please provide the average cost during the current program period]</i>	



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**Activity Data: Refrigerators**

MM/DD/YYYY	to	MM/DD/YYYY
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**Instructions:** All partners should complete Tables A and B. If your program provides an incentive (e.g., financial) to encourage the disposal of old, working refrigerated appliances, please also complete Table C. When populating cells, please use the units provided; do not add text to specify units. This form only recognizes numbers.

**Units Processed**

Please complete the gray cells below. Enter the total number of units processed by your program by refrigerant type and insulating material type in column D. Specify the number of units processed with refrigerant recovery and foam recovery in cells E11 to E13 and cells E16 to E22, respectively, and whether foam was recovered from appliance doors (cells F16 to F19). Also, provide the average age of appliances collected (cell D9), and whether the information on refrigerant and blowing agent types is based on assumptions or data (cells F11 to F13 and cells G16 to G22, respectively). If any of the units reported in column D were jointly processed/administered with another RAD Utility, Retailer, Manufacturer, or State Partner, please indicate the number of these units in Step 4 - Units Jointly Processed; the units reported in this table should be inclusive of the units reported in Step 4. If you wish to provide additional information (e.g., regarding types of refrigerants or insulating materials not listed below) or highlight uncertainties in your reporting, please do so in the "Comments" box.

Total Number of Units Processed (excluding units processed by other RAD utilities)	0				
Average Age of Appliances Collected (yrs)					
<b>Number of Units Processed Containing the Following Refrigerants</b>	<b>Total Number of Units Processed</b>	<b>Number of Units Processed with Refrigerant Recovery</b>	<b>Refrigerant Type Based On:</b>	<b>Comments:</b>	
CFC-12	0	0	0		
HFC-134a	0	0	0		
Other					
<b>Number of Units Processed Containing the Following Insulating Materials</b>	<b>Total Number of Units Processed</b>	<b>Number of Units Processed with Foam Recovery</b>	<b>Was Foam Recovered From Appliance Doors?</b>	<b>Insulating Material Type Based On:</b>	<b>Comments:</b>
CFC-11 Blowing Agent	0	0	0	0	
HCFC-141b Blowing Agent	0	0	0	0	
HFC-134a Blowing Agent	0	0	0	0	
HFC-245fa Blowing Agent	0	0	0	0	
Cyclopentane Blowing Agent	0	0	0	0	
Fiberglass	0	0	0	0	
Other					

**Fate and Quantity of Substances Recovered**

Please complete the table below to provide the total amount of appliance components recovered by your program during the current reporting period. If any substances recovered during the current reporting period are currently in storage, please report on the intended fate of the substance (e.g., stockpiling with intent to reclaim/destroy). Refer back to the Instructions for Use for definitions of the fates for each component. For any fields that do not apply to your program, please enter "0" under "Total Amount" in column F. For every non-zero value entered in column F, indicate whether the quantity specified is based on actual measurements or on assumptions by selecting the appropriate option in column H. If you wish to clarify uncertainties about the data provided, or wish to provide further information, please use the space for "Additional Comments" at the bottom of this worksheet.

Appliance Component	Fate of Component	Total Amount	Total Amount Based On:
<b>Refrigerant (including that recovered from compressor oil)</b>	<b>CFC-12</b>		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
	<b>HFC-134a</b>		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
<b>Foam-Blowing Agent*</b>	<b>CFC-11</b>		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
	<b>HCFC-141b</b>		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
	<b>HFC-134a</b>		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
	<b>HFC-245fa</b>		
Reclaimed	(lb)		
Stockpiling with Intent to Reclaim	(lb)		
Destroyed	(lb)		
Stockpiling with Intent to Destroy	(lb)		
<b>Used Oil</b>	Recycled	(gal)	
	Disposed	(gal)	
<b>Metal</b>	Ferrous Metal Recycled	(lb)	
	Non-Ferrous Metal Recycled	(lb)	
<b>Plastic</b>	Recycled	(lb)	
<b>Glass</b>	Recycled	(lb)	
<b>PCB-Containing Capacitors</b>	Destroyed	(capacitors)	

\*Foam-blowing agent typically represents only 10% of the total foam weight.

**Energy Savings**

Please complete the table below if your program provides an incentive (e.g., financial) to encourage the disposal (i.e., without replacement) of old, working refrigerated appliances.

Average Number of Remaining Years of Useful Life	
Average Energy Consumed/Year/Unit (kWh)	0.0
Average Energy Cost for Residential Consumers (\$/kWh) [please provide the average cost during the current program period]	\$0.00

Happy New Year!

<b>Additional Comments:</b>	0
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### Step 3: Activity Data on Stand-Alone Freezers

MM/DD/YYYY to MM/DD/YYYY

**Instructions:** All partners should complete Tables A and B. If your program provides an incentive (e.g., financial) to encourage the disposal of old, working refrigerated appliances, please also complete Table C. When populating cells, please use the units provided; do not add text to specify units. This form only recognizes numbers.

#### A. Units Processed

Please complete the gray cells below. Enter the total number of units processed by your program by refrigerant type and insulating material type in column D. Specify the number of units processed with refrigerant recovery and foam recovery in cells E11 to E14 and cells E17 to E23, respectively, and whether foam was recovered from appliance doors (cells F17 to F20). Also, provide the average age of appliances collected (cell D9), and whether the information on refrigerant and blowing agent types is based on assumptions or data (cells G11 to G14 and cells G17 to G23, respectively). If any of the units reported in column D were jointly processed/administered with another RAD Utility, Retailer, Manufacturer, or State Partner, please indicate the number of these units in Step 4 - Units Jointly Processed; the units reported in this table should be inclusive of the units reported in Step 4. If you wish to provide additional information (e.g., regarding types of refrigerants or insulating materials not listed below) or highlight uncertainties in your reporting, please do so in the "Comments" box.

Total Number of Units Processed					
Average Age of Appliances Collected (yrs)					
Refrigerant Type	Total Number of Units Processed	Number of Units Processed with Refrigerant Recovery	Refrigerant Type Based On:	Comments:	
CFC-12					
HCFC-22					
HFC-134a					
Other					
Total	0	0			
Insulating Material Type	Total Number of Units Processed	Number of Units Processed with Foam Recovery	Was Foam Recovered From Appliance Doors?	Insulating Material Type Based On:	Comments:
CFC-11 Blowing Agent					
HCFC-141b Blowing Agent					
HFC-134a Blowing Agent					
HFC-245fa Blowing Agent					
Cyclopentane Blowing Agent					
Fiberglass					
Other					
Total	0	0			

#### B. Fate and Quantity of Substances Recovered

Please complete the table below to provide the total amount of appliance components recovered by your program during the current reporting period. If any substances recovered during the current reporting period are currently in storage, please report on the intended fate of the substance (e.g., stockpiling with intent to reclaim/destroy). Refer back to the Instructions for Use for definitions of the fates for each component. For any fields that do not apply to your program, please enter "0" under "Total Amount" in column F. For every non-zero value entered in column F, indicate whether the quantity specified is based on actual measurements or on assumptions by selecting the appropriate option in column H. If you wish to clarify uncertainties about the data provided, or wish to provide further information, please use the space for "Additional Comments" at the bottom of this worksheet.

Appliance Component	Fate of Component	Total Amount	Total Amount Based On:
Refrigerant (including that recovered from compressor oil)	CFC-12		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
	HCFC-22		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
	HFC-134a		
	Reclaimed	(lb)	
Stockpiling with Intent to Reclaim	(lb)		
Destroyed	(lb)		
Stockpiling with Intent to Destroy	(lb)		
Foam-Blowing Agent*	CFC-11		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
	HCFC-141b		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
	HFC-134a		
	Reclaimed	(lb)	
Stockpiling with Intent to Reclaim	(lb)		
Destroyed	(lb)		
Stockpiling with Intent to Destroy	(lb)		
HFC-245fa			
Reclaimed	(lb)		
Stockpiling with Intent to Reclaim	(lb)		
Destroyed	(lb)		
Stockpiling with Intent to Destroy	(lb)		
Used Oil	Recycled	(gal)	
	Disposed	(gal)	
Metal	Ferrous Metal Recycled	(lb)	
	Non-Ferrous Metal Recycled	(lb)	
Plastic	Recycled	(lb)	
PCB-Containing Capacitors	Destroyed	(# of capacitors)	
Mercury-Containing Components	Recycled	(# of components)	
	Disposed	(# of components)	

\*Foam-blowing agent typically represents only 10% of the total foam weight.

#### C. Energy Savings

Please complete the table below if your program provides an incentive (e.g., financial) to encourage the disposal (i.e., without replacement) of old, working refrigerated appliances.

Average Number of Remaining Years of Useful Life	
Average Energy Consumed/Year/Unit (kWh)	
Average Energy Cost for Residential Consumers (\$/kWh) <i>(please provide the average cost during the current program period)</i>	

Additional Comments:



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**Activity Data: Stand Alone Freezers**

MM/DD/YYYY to MM/DD/YYYY
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**Instructions:** All partners should complete Tables A and B. If your program provides an incentive (e.g., financial) to encourage the disposal of old, working refrigerated appliances, please also complete Table C. When populating cells, please use the units provided; do not add text to specify units. This form only recognizes numbers.

**Units Processed**

Please complete the gray cells below. Enter the total number of units processed by your program by refrigerant type and insulating material type in column D. Specify the number of units processed with refrigerant recovery and foam recovery in cells E11 to E14 and cells E17 to E23, respectively, and whether foam was recovered from appliance doors (cells F17 to F20). Also, provide the average age of appliances collected (cell D9), and whether the information on refrigerant and blowing agent types is based on assumptions or data (cells G11 to G14 and cells G17 to G23, respectively). If any of the units reported in column D were jointly processed/administered with another RAD Utility, Retailer, Manufacturer, or State Partner, please indicate the number of these units in Step 4 - Units Jointly Processed; the units reported in this table should be inclusive of the units reported in Step 4. If you wish to provide additional information (e.g., regarding types of refrigerants or insulating materials not listed below) or highlight uncertainties in your reporting, please do so in the "Comments" box.

Total Number of Units Processed (excluding units processed by other RAD utilities)					
Average Age of Appliances Collected (yrs)					
Refrigerant Type	Total Number of Units Processed	Number of Units Processed with Refrigerant Recovery	Refrigerant Type Based On:	Comments:	
CFC-12					
HCFC-22					
HFC-134a					
Other					
Insulating Material Type	Total Number of Units Processed	Number of Units Processed with Foam Recovery	Was Foam Recovered From Appliance Doors?	Based On:	Comments:
CFC-11 Blowing Agent					
HCFC-141b Blowing Agent					
HFC-134a Blowing Agent					
HFC-245fa Blowing Agent					
Cyclopentane Blowing Agent					
Fiberglass					
Other					

**Fate and Quantity of Substances Recovered**

Please complete the table below to provide the total amount of appliance components recovered by your program during the current reporting period. If any substances recovered during the current reporting period are currently in storage, please report on the intended fate of the substance (e.g., stockpiling with intent to reclaim/destroy). Refer back to the Instructions for Use for definitions of the fates for each component. For any fields that do not apply to your program, please enter "0" under "Total Amount" in column F. For every non-zero value entered in column F, indicate whether the quantity specified is based on actual measurements or on assumptions by selecting the appropriate option in column H. If you wish to clarify uncertainties about the data provided, or wish to provide further information, please use the space for "Additional Comments" at the bottom of this worksheet.

Appliance Component	Fate of Component	Total Amount	Total Amount Based On:
Refrigerant (including that recovered from compressor oil)	CFC-12		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
	HCFC-22		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
	HFC-134a		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
	Foam-Blowing Agent*	CFC-11	
Reclaimed		(lb)	
Stockpiling with Intent to Reclaim		(lb)	
Destroyed		(lb)	
Stockpiling with Intent to Destroy		(lb)	
HCFC-141b			
Reclaimed		(lb)	
Stockpiling with Intent to Reclaim		(lb)	
Destroyed		(lb)	
Stockpiling with Intent to Destroy		(lb)	
HFC-134a			
Reclaimed		(lb)	
Stockpiling with Intent to Reclaim		(lb)	
Destroyed		(lb)	
Stockpiling with Intent to Destroy		(lb)	
HFC-245fa			
Reclaimed		(lb)	
Stockpiling with Intent to Reclaim		(lb)	
Destroyed		(lb)	
Stockpiling with Intent to Destroy		(lb)	
Used Oil	Recycled	(gal)	
	Disposed	(gal)	
Metal	Ferrous Metal Recycled	(lb)	
	Non-Ferrous Metal Recycled	(lb)	
Plastic	Recycled	(lb)	
	Destroyed	(capacitors)	
PCB-Containing Capacitors	Destroyed	(capacitors)	
	Recycled	(components)	
Mercury-Containing Components	Recycled	(components)	
	Disposed	(components)	

\*Foam-blowing agent typically represents only 10% of the total foam weight.

**Energy Savings**

Please complete the table below if your program provides an incentive (e.g., financial) to encourage the disposal (i.e., without replacement) of old, working refrigerated appliances. The estimates provided should be consistent with that specified in your jurisdiction's deemed savings database, technical reference manual (TRM), or third-party ARP evaluation, as appropriate.

Average Number of Remaining Years of Useful Life	
Average Energy Consumed/Year/Unit (kWh)	0.0
Average Energy Cost for Residential Consumers (\$/kWh) <i>(please provide the average cost during the current program period)</i>	\$0.00

Additional Comments:	0
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### Step 3: Activity Data on Air-Conditioning Units

MM/DD/YYYY to MM/DD/YYYY
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**Instructions:** All partners should complete Tables A and B. If your program provides an incentive (e.g., financial) to encourage the disposal of old, working refrigerated appliances, please also complete Table C. When populating cells, please use the units provided; do not add text to specify units. This form only recognizes numbers.

#### A. Units Processed

Please complete the gray cells below. Enter the total number of units processed by your program by refrigerant type in column D. Specify the number of units processed with refrigerant recovery in cells E11 to E14. Also, provide the average age of appliances collected (cell D9), and whether the information on refrigerant types is based on assumptions or data (cells F11 to F14). If any of the units reported in column D were jointly processed/administered with another RAD Utility, Retailer, Manufacturer, or State Partner, please indicate the number of these units in Step 4 - Units Jointly Processed; the units reported in this table should be inclusive of the units reported in Step 4. If you wish to provide additional information (e.g., regarding types of refrigerants or insulating materials not listed below) or highlight uncertainties in your reporting, please do so in the "Comments" box.

Total Number of Units Processed				
Average Age of Appliances Collected (yrs)				
Refrigerant Type	Total Number of Units Processed	Number of Units Processed with Refrigerant Recovery	Refrigerant Type Based On:	Comments:
HCFC-22				
R-407C				
R-410A				
Other				
<b>Total</b>	0	0		

#### B. Fate and Quantity of Substances Recovered

Please complete the table below to provide the total amount of appliance components recovered by your program during the current reporting period. If any substances recovered during the current reporting period are currently in storage, please report on the *intended* fate of the substance (e.g., stockpiling with intent to reclaim/destroy). Refer back to the Instructions for Use for definitions of the fates for each component. For any fields that do not apply to your program, please enter "0" under "Total Amount" in column F. For every non-zero value entered in column F, indicate whether the quantity specified is based on actual measurements or on assumptions by selecting the appropriate option in column H. If you wish to clarify uncertainties about the data provided, or wish to provide further information, please use the space for "Additional Comments" at the bottom of this worksheet.

Appliance Component	Fate of Component	Total Amount	Total Amount Based On:
Refrigerant (including that recovered from compressor oil)	HCFC-22		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
	R-407C		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
	R-410A		
	Reclaimed	(lb)	
Stockpiling with Intent to Reclaim	(lb)		
Destroyed	(lb)		
Stockpiling with Intent to Destroy	(lb)		
Used Oil	Recycled	(gal)	
	Disposed	(gal)	
Metal	Ferrous Metal Recycled	(lb)	
	Non-Ferrous Metal Recycled	(lb)	
Plastic	Recycled	(lb)	
PCB-Containing Capacitors	Destroyed	(# of capacitors)	

#### C. Energy Savings

Please complete the table below if your program provides an incentive (e.g., financial) to encourage the disposal (i.e., without replacement) of old, working refrigerated appliances. The estimates provided should be consistent with that specified in your jurisdiction's deemed savings database, technical reference manual (TRM), or third-party ARP evaluation, as appropriate.

Average Number of Remaining Years of Useful Life	
Average Energy Consumed/Year/Unit (kWh)	
Average Energy Cost for Residential Consumers (\$/kWh) <small>[please provide the average cost during the current program period]</small>	

Additional Comments:	
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### Step 3: Activity Data on Air-Conditioning Units

MM/DD/YYYY	to	MM/DD/YYYY
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**Instructions:** All partners should complete Tables A and B. If your program provides an incentive (e.g., financial) to encourage the disposal of old, working refrigerated appliances, please also complete Table C. When populating cells, please use the units provided; do not add text to specify units. This form only recognizes numbers.

#### Units Processed

Please complete the gray cells below. Enter the total number of units processed by your program by refrigerant type in column D. Specify the number of units processed with refrigerant recovery in cells E11 to E14. Also, provide the average age of appliances collected (cell D9), and whether the information on refrigerant types is based on assumptions or data (cells F11 to F14). If any of the units reported in column D were jointly processed/administered with another RAD Utility, Retailer, Manufacturer, or State Partner, please indicate the number of these units in Step 4 - Units Jointly Processed; the units reported in this table should be inclusive of the units reported in Step 4. If you wish to provide additional information (e.g., regarding types of refrigerants or insulating materials not listed below) or highlight uncertainties in your reporting, please do so in the "Comments" box.

Total Number of Units Processed (excluding units processed by other RAD utilities)	0			
Average Age of Appliances Collected (yrs)	0.0			
Refrigerant Type	Total Number of Units Processed	Number of Units Processed with Refrigerant Recovery	Based On:	Comments:
HCFC-22	0	0	0	0
R-407C	0	0	0	
R-410A	0	0	0	
Other	0	0	0	

#### Fate and Quantity of Substances Recovered

Please complete the table below to provide the total amount of appliance components recovered by your program during the current reporting period. If any substances recovered during the current reporting period are currently in storage, please report on the intended fate of the substance (e.g., stockpiling with intent to reclaim/destroy). Refer back to the Instructions for Use for definitions of the fates for each component. For any fields that do not apply to your program, please enter "0" under "Total Amount" in column F. For every non-zero value entered in column F, indicate whether the quantity specified is based on actual measurements or on assumptions by selecting the appropriate option in column H. If you wish to clarify uncertainties about the data provided, or wish to provide further information, please use the space for "Additional Comments" at the bottom of this worksheet.

Appliance Component	Fate of Component	Total Amount	Total Amount Based On:
<b>Refrigerant (including that recovered from compressor oil)</b>	HCFC-22		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
	R-407C		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
	R-410A		
	Reclaimed	(lb)	
Stockpiling with Intent to Reclaim	(lb)		
Destroyed	(lb)		
Stockpiling with Intent to Destroy	(lb)		
<b>Used Oil</b>	Recycled	(gal)	
	Disposed	(gal)	
<b>Metal</b>	Ferrous Metal Recycled	(lb)	
	Non-Ferrous Metal Recycled	(lb)	
<b>Plastic</b>	Recycled	(lb)	
<b>PCB-Containing Capacitors</b>	Destroyed	(capacitors)	

#### Energy Savings

Please complete the table below if your program provides an incentive (e.g., financial) to encourage the disposal (i.e., without replacement) of old, working refrigerated appliances. The estimates provided should be consistent with that specified in your jurisdiction's deemed savings database, technical reference manual (TRM), or third-party ARP evaluation, as appropriate.

Average Number of Remaining Years of Useful Life	0.0
Average Energy Consumed/Year/Unit (kWh)	0.0
Average Energy Cost for Residential Consumers (\$/kWh) [please provide the average cost during the current program period]	\$0.00

<b>Additional Comments:</b>	0
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### Step 3: Activity Data on Dehumidifiers

MM/DD/YYYY to MM/DD/YYYY
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**Instructions:** All partners should complete Tables A and B. If your program provides an incentive (e.g., financial) to encourage the disposal of old, working refrigerated appliances, please also complete Table C. When populating cells, please use the units provided; do not add text to specify units. This form only recognizes numbers.

#### A. Units Processed

Please complete the gray cells below. Enter the total number of units processed by your program by refrigerant type in column D. Specify the number of units processed with refrigerant recovery in cells E11 to E16. Also, provide the average age of appliances collected (cell D9), and whether the information on refrigerant types is based on assumptions or data (cells F11 to F16). If any of the units reported in column D were jointly processed/administered with another RAD Utility, Retailer, Manufacturer, or State Partner, please indicate the number of these units in Step 4 - Units Jointly Processed; the units reported in this table should be inclusive of the units reported in Step 4. If you wish to provide additional information (e.g., regarding types of refrigerants or insulating materials not listed below) or highlight uncertainties in your reporting, please do so in the "Comments" box.

Total Number of Units Processed				
Average Age of Appliances Collected (yrs)				
Refrigerant Type	Total Number of Units Processed	Number of Units Processed with Refrigerant Recovery	Refrigerant Type Based On:	Comments:
CFC-12				
HCFC-22				
HFC-134a				
R-500				
R-410A				
Other				
Total	0	0		

#### B. Fate and Quantity of Substances Recovered

Please complete the table below to provide the total amount of appliance components recovered by your program during the current reporting period. If any substances recovered during the current reporting period are currently in storage, please report on the *intended* fate of the substance (e.g., stockpiling with intent to reclaim/destroy). Refer back to the Instructions for Use for definitions of the fates for each component. For any fields that do not apply to your program, please enter "0" under "Total Amount" in column F. For every non-zero value entered in column F, indicate whether the quantity specified is based on actual measurements or on assumptions by selecting the appropriate option in column H. If you wish to clarify uncertainties about the data provided, or wish to provide further information, please use the space for "Additional Comments" at the bottom of this worksheet.

Appliance Component	Fate of Component	Total Amount	Total Amount Based On:
Refrigerant (including that recovered from compressor oil)	CFC-12		
	Reclaimed		(lb)
	Stockpiling with Intent to Reclaim		(lb)
	Destroyed		(lb)
	Stockpiling with Intent to Destroy		(lb)
	HCFC-22		
	Reclaimed		(lb)
	Stockpiling with Intent to Reclaim		(lb)
	Destroyed		(lb)
	Stockpiling with Intent to Destroy		(lb)
	HFC-134a		
	Reclaimed		(lb)
	Stockpiling with Intent to Reclaim		(lb)
	Destroyed		(lb)
	Stockpiling with Intent to Destroy		(lb)
	R-500		
	Reclaimed		(lb)
	Stockpiling with Intent to Reclaim		(lb)
	Destroyed		(lb)
	Stockpiling with Intent to Destroy		(lb)
R-410A			
Reclaimed		(lb)	
Stockpiling with Intent to Reclaim		(lb)	
Destroyed		(lb)	
Stockpiling with Intent to Destroy		(lb)	
Used Oil	Recycled		(gal)
	Disposed		(gal)
Metal	Ferrous Metal Recycled		(lb)
	Non-Ferrous Metal Recycled		(lb)
Plastic	Recycled		(lb)
PCB-Containing Capacitors	Destroyed		(# of capacitors)

#### C. Energy Savings

Please complete the table below if your program provides an incentive (e.g., financial) to encourage the disposal (i.e., without replacement) of old, working refrigerated appliances. The estimates provided should be consistent with that specified in your jurisdiction's deemed savings database, technical reference manual (TRM), or third-party ARP evaluation, as appropriate.

Average Number of Remaining Years of Useful Life	
Average Energy Consumed/Year/Unit (kWh)	
Average Energy Cost for Residential Consumers (\$/kWh) <i>[please provide the average cost during the current program period]</i>	

Additional Comments:	
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 Washington, DC 20460

### Step 3: Activity Data on Dehumidifiers

MM/DD/YYYY	to	MM/DD/YYYY
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Instructions: All partners should complete Tables A and B. If your program provides an incentive (e.g., financial) to encourage the disposal of old, working refrigerated appliances, please also complete Table C. When populating cells, please use the units provided; do not add text to specify units. This form only recognizes numbers.

#### Units Processed

Please complete the gray cells below. Enter the total number of units processed by your program by refrigerant type in column D. Specify the number of units processed with refrigerant recovery in cells E11 to E16. Also, provide the average age of appliances collected (cell D9), and whether the information on refrigerant types is based on assumptions or data (cells F11 to F16). If any of the units reported in column D were jointly processed/administered with another RAD Utility, Retailer, Manufacturer, or State Partner, please indicate the number of these units in Step 4 - Units Jointly Processed; the units reported in this table should be inclusive of the units reported in Step 4. If you wish to provide additional information (e.g., regarding types of refrigerants or insulating materials not listed below) or highlight uncertainties in your reporting, please do so in the "Comments" box.

Total Number of Units Processed (excluding units processed by other RAD utilities)		0		
Average Age of Appliances Collected (yrs)		0.0		
Refrigerant Type	Total Number of Units Processed	Number of Units Processed with Refrigerant Recovery	Based On:	Comments:
CFC-12	0	0	0	0
HCFC-22	0	0	0	
HFC-134a	0	0	0	
R-500	0	0	0	
R-410A	0	0	0	
Other	0	0	0	

#### Fate and Quantity of Substances Recovered

Please complete the table below to provide the total amount of appliance components recovered by your program during the current reporting period. If any substances recovered during the current reporting period are currently in storage, please report on the intended fate of the substance (e.g., stockpiling with intent to reclaim/destroy). Refer back to the Instructions for Use for definitions of the fates for each component. For any fields that do not apply to your program, please enter "0" under "Total Amount" in column F. For every non-zero value entered in column F, indicate whether the quantity specified is based on actual measurements or on assumptions by selecting the appropriate option in column H. If you wish to clarify uncertainties about the data provided, or wish to provide further information, please use the space for "Additional Comments" at the bottom of this worksheet.

Appliance Component	Fate of Component	Total Amount	Total Amount Based On:
Refrigerant (including that recovered from compressor oil)	<b>CFC-12</b>		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
	<b>HCFC-22</b>		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
	Stockpiling with Intent to Destroy	(lb)	
	<b>HFC-134a</b>		
	Reclaimed	(lb)	
	Stockpiling with Intent to Reclaim	(lb)	
	Destroyed	(lb)	
Stockpiling with Intent to Destroy	(lb)		
<b>R-500</b>			
Reclaimed	(lb)		
Stockpiling with Intent to Reclaim	(lb)		
Destroyed	(lb)		
Stockpiling with Intent to Destroy	(lb)		
<b>R-410A</b>			
Reclaimed	(lb)		
Stockpiling with Intent to Reclaim	(lb)		
Destroyed	(lb)		
Stockpiling with Intent to Destroy	(lb)		
<b>Used Oil</b>			
Recycled	(gal)		
Disposed	(gal)		
<b>Metal</b>			
Ferrous Metal Recycled	(lb)		
Non-Ferrous Metal Recycled	(lb)		
<b>Plastic</b>			
Recycled	(lb)		
<b>PCB-Containing Capacitors</b>			
Destroyed	(capacitors)		

#### Energy Savings

Please complete the table below if your program provides an incentive (e.g., financial) to encourage the disposal (i.e., without replacement) of old, working refrigerated appliances. The estimates provided should be consistent with that specified in your jurisdiction's deemed savings database, technical reference manual (TRM), or third-party ARP evaluation, as appropriate.

Average Number of Remaining Years of Useful Life	0.0
Average Energy Consumed/Year/Unit (kWh)	0.0
Average Energy Cost for Residential Consumers (\$/kWh) <i>[please provide the average cost during the current program period]</i>	\$0.00

Additional Comments:	
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## Step 4: Units Handled Jointly by Your Organization and Another RAD Partner

**Instructions:** Complete this page if you partner with another RAD Utility, Retailer, Manufacturer, or other organization. Units should be reported by partner, in columns D through H. When reporting the units by refrigerant recovery and foam recovery, respectively. If your program jointly processed units with another partner, use the partner columns. This information is important for ensuring that no units are double-counted when reporting units. When populating cells, please use the units provided; do not add text to specify units. If you wish to provide additional information, use the "Comments" field at the bottom of this worksheet.

<b>Refrigerators</b>	Partner #1	Partner #2	Partner #3
Name of RAD Partner that Jointly Processes Your Units			
Total Number of Units Jointly Processed			
<b>Number of Units Jointly Processed with Refrigerant Recovery</b>			
CFC-12			
HFC-134a			
Other			
Total	0	0	0
<b>Number of Units Jointly Processed with Foam Recovery</b>			
CFC-11 Blowing Agent			
HCFC-141b Blowing Agent			
HFC-134a Blowing Agent			
HFC-245fa Blowing Agent			
Cyclopentane Blowing Agent			
Fiberglass			
Other			
Total	0	0	0

<b>Stand-Alone Freezers</b>	Partner #1	Partner #2	Partner #3
Name of RAD Partner that Jointly Processes Your Units			
Total Number of Units Jointly Processed			
<b>Number of Units Jointly Processed with Refrigerant Recovery</b>			
CFC-12			
HCFC-22			
HFC-134a			
Other			
Total	0	0	0
<b>Number of Units Jointly Processed with Foam Recovery</b>			
CFC-11 Blowing Agent			
HCFC-141b Blowing Agent			

HFC-134a Blowing Agent			
HFC-245fa Blowing Agent			
Cyclopentane Blowing Agent			
Fiberglass			
Other			
Total	0	0	0

**Air-Conditioning Units**

	Partner #1	Partner #2	Partner #3
Name of RAD Partner that Jointly Processes Your Units			
Total Number of Units Jointly Processed			
Number of Units Jointly Processed with Refrigerant F			
HCFC-22			
R-407C			
R-410A			
Other			
Total	0	0	0

**Dehumidifiers**

	Partner #1	Partner #2	Partner #3
Name of RAD Partner that Jointly Processes Your Units			
Total Number of Units Jointly Processed			
Number of Units Jointly Processed with Refrigerant F			
CFC-12			
HCFC-22			
HFC-134a			
R-500			
R-410A			
Other			
Total	0	0	0

**Additional Comments:**

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MM/DD/YYYY to MM/DD/YYYY

or State Partner to jointly process/administer any of your units. The number  
 erant type and blowing agent type, report only the units processed with  
 more than five partners, please click on the button below to add additional  
 1 calculating aggregate nationwide benefits achieved by RAD partners.  
 to provide further information, please use the space for "Additional

Partner #4	Partner #5	Total Number Jointly Processed
		0
Recovery		
		0
		0
		0
0	0	0
Recovery		
		0
		0
		0
		0
		0
		0
0	0	0

Partner #4	Partner #5	Total Number Jointly Processed
		0
Recovery		
		0
		0
		0
0	0	0
Recovery		
		0
		0

		0
		0
		0
		0
		0
0	0	0

Partner #4	Partner #5	Total Number Jointly Processed
		0
		0
		0
		0
		0
0	0	0

Partner #4	Partner #5	Total Number Jointly Processed
		0
		0
		0
		0
		0
		0
0	0	0




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## Step 5: Summary of Input Data for Quality Assurance

**Instructions:** Review the input data summarized in the table below to ensure that the data entered in the Step 3 worksheets are error-free. The table below presents the calculated average quantities of refrigerant, foam-blowing agent, and durable materials recovered per appliance and is self-populated based on the activity data reported in the Step 3 worksheet(s). The typical range reported by partners in previous years can be displayed in comments by holding your cursor over each cell, and should be used as guidance to identify potential reporting errors in the Step 3 worksheet(s).

### Average Quantity Recovered Per Unit, Calculated Based on Reported Total Quantity and Number of Units Processed

	Appliance Type			
	Refrigerators	Stand-Alone Freezers	Air-Conditioning Units	Dehumidifiers
Number of Units	0	0	0	0
<b>Refrigerant (lb)*</b>				
CFC-12			NA	
HCFC-22	NA			
HFC-134a			NA	
R-500A	NA	NA	NA	
R-407C	NA	NA		NA
R-410A	NA	NA		
<b>Average across all units</b>				
<b>Foam-Blowing Agent (lb)**</b>				
CFC-11			NA	NA
HCFC-141b			NA	NA
HFC-134a			NA	NA
HFC-245fa			NA	NA
<b>Average across all units</b>			NA	NA
<b>Durable Materials</b>				
Used oil (gal)				
Ferrous metals (lb)				
Non-ferrous metals (lb)				
Plastic (lb)				
Glass (lb)		NA	NA	NA
Number of PCB-containing capacitors				
Number of Mercury-containing components	NA		NA	NA

\*Average calculated based on reported number of units processed with refrigerant recovery.

\*\*Average calculated based on reported number of units processed with foam recovery.



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### Step 5: Summary of Program's Environmental Benefits

**Instructions:** No action is required. The tables below are for reference only and are self-populated based on the activity data reported in the Step 3 worksheet(s).

#### Emissions Avoided

The table below presents the cumulative avoided emissions of greenhouse gas and ozone depleting substances resulting from your program. It is calculated based on assumptions of destruction and reclamation efficiencies developed by the U.S. EPA.

*Note: It is assumed that removing units from the electricity grid will only result in environmental benefits if your program offers an incentive to retire old, working appliances. In addition, the estimated ozone and greenhouse gas benefits associated with avoided releases of refrigerant and foam-blowing agent are subject to change as more information becomes available (e.g., regarding loss rates associated with various recovery technologies and practices, baseline emissions, global warming potentials [GWPs], etc.).*

Appliance Component	Total Amount Prevented from Being Emitted		Greenhouse Gas (GHG) Emissions Avoided (MTCO <sub>2</sub> e) <sup>a</sup>	Ozone Depleting Substances (ODS) Emissions Avoided (ODP-Weighted kg) <sup>b</sup>
	(lb)	(kg)		
<b>Refrigerant<sup>c</sup></b>				
CFC-12 Reclaimed	0.0	0.0	0.0	0.0
HCFC-22 Reclaimed	0.0	0.0	0.0	0.0
HFC-134a Reclaimed	0.0	0.0	0.0	0.0
R-500 Reclaimed	0.0	0.0	0.0	0.0
R-407C Reclaimed	0.0	0.0	0.0	0.0
R-410A Reclaimed	0.0	0.0	0.0	0.0
<b>Reclaimed</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
CFC-12 Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
HCFC-22 Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
HFC-134a Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
R-500 Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
R-407C Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
R-410A Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
<b>Stockpiling with Intent to Reclaim</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
CFC-12 Destroyed	0.0	0.0	0.0	0.0
HCFC-22 Destroyed	0.0	0.0	0.0	0.0
HFC-134a Destroyed	0.0	0.0	0.0	0.0
R-500 Destroyed	0.0	0.0	0.0	0.0
R-407C Destroyed	0.0	0.0	0.0	0.0
R-410A Destroyed	0.0	0.0	0.0	0.0
<b>Destroyed</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
CFC-12 Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
HCFC-22 Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
HFC-134a Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
R-500 Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
R-407C Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
R-410A Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
<b>Stockpiling with Intent to Destroy</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Subtotal</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Foam-Blowing Agent<sup>d</sup></b>				
CFC-11 Reclaimed	0.0	0.0	0.0	0.0
HCFC-141b Reclaimed	0.0	0.0	0.0	0.0
HFC-134a Reclaimed	0.0	0.0	0.0	0.0
HFC-245fa Reclaimed	0.0	0.0	0.0	0.0
<b>Reclaimed</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
CFC-11 Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
HCFC-141b Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
HFC-134a Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
HFC-245fa Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
<b>Stockpiling with Intent to Reclaim</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
CFC-11 Destroyed	0.0	0.0	0.0	0.0
HCFC-141b Destroyed	0.0	0.0	0.0	0.0
HFC-134a Destroyed	0.0	0.0	0.0	0.0
HFC-245fa Destroyed	0.0	0.0	0.0	0.0
<b>Destroyed</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
CFC-11 Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
HCFC-141b Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
HFC-134a Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
HFC-245fa Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
<b>Stockpiling with Intent to Destroy</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Subtotal</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Durable Materials</b>				
Ferrous Metal Recycled	0.0	0.0	0.0	NA
Non-Ferrous Metal Recycled	0.0	0.0	0.0	NA
Plastic Recycled	0.0	0.0	0.0	NA
Glass Recycled	0.0	0.0	0.0	NA
<b>Subtotal</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>NA</b>
<b>Removing Units from the Grid</b>				
<b>Subtotal Energy Savings</b>	<b>NA</b>	<b>NA</b>	<b>0.0</b>	<b>NA</b>
<b>TOTAL</b>	<b>NA</b>	<b>NA</b>	<b>0.0</b>	<b>0.0</b>

NA = not applicable.

<sup>a</sup>GWPs = global warming potential; the ratio of heat trapped by one unit mass of a gas to that of one unit mass of carbon dioxide. Calculations are based on the direct 100-year GWPs provided in the Intergovernmental Panel on Climate Change Fourth Assessment Report, Climate Change 2007.

<sup>b</sup>ODPs = ozone depleting potential; the ratio of calculated ozone column change for each mass unit of a gas emitted into the atmosphere relative to the calculated depletion for the reference gas CFC-11 (ODP = 1.0). For calculation purposes, ODPs defined in the Montreal Protocol are used.

<sup>c</sup>Refrigerant assumptions: destruction results in emissions of 0.01% (assuming destruction occurs using a TEAP-approved technology, with DRE of 99.99%); the reclamation process results in emissions of 1.5%.

<sup>d</sup>Foam-blowing agent assumptions: destruction results in emissions of 0.09% (assuming destruction occurs in a municipal solid waste incinerator or waste-to-energy facility with a DRE of 99.91%); the reclamation process results in emissions of 1.5%; baseline emissions are assumed to be 100% (i.e., no anaerobic degradation of CFC blowing agent in landfills is assumed).

#### Hazardous Materials Recovered

The table below presents the amounts of hazardous materials avoided from being released to the environment as a result of your program.

Properly Recovered Component	Total Amount
Used Oil Recycled or Properly Disposed (gal)	0.0
<b>PCB-Containing Capacitors</b>	
Number Destroyed	0
<b>Mercury-Containing Components</b>	
Number Recycled	0
Number Disposed	0

Appliance Component	Total Amount Prevented from Being Emitted		Greenhouse Gas (GHG) Emissions Avoided (MtCO <sub>2</sub> eq) <sup>a</sup>	Ozone Depleting Substances (ODS) Emissions Avoided (ODP-Weighted kg) <sup>b</sup>
	(lb)	(kg)		
<b>Refrigerant<sup>c</sup></b>				
CFC-12 Reclaimed	0.0	0.0	0.0	0.0
HCFC-22 Reclaimed	0.0	0.0	0.0	0.0
HFC-134a Reclaimed	0.0	0.0	0.0	0.0
R-500 Reclaimed	0.0	0.0	0.0	0.0
R-407C Reclaimed	0.0	0.0	0.0	0.0
R-410A Reclaimed	0.0	0.0	0.0	0.0
Reclaimed	0.0	0.0	0.0	0.0
CFC-12 Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
HCFC-22 Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
HFC-134a Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
R-500 Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
R-407C Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
R-410A Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
CFC-12 Destroyed	0.0	0.0	0.0	0.0
HCFC-22 Destroyed	0.0	0.0	0.0	0.0
HFC-134a Destroyed	0.0	0.0	0.0	0.0
R-500 Destroyed	0.0	0.0	0.0	0.0
R-407C Destroyed	0.0	0.0	0.0	0.0
R-410A Destroyed	0.0	0.0	0.0	0.0
Destroyed	0.0	0.0	0.0	0.0
CFC-12 Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
HCFC-22 Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
HFC-134a Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
R-500 Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
R-407C Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
R-410A Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
<b>Subtotal</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Foam-Blowing Agent<sup>d</sup></b>				
CFC-11 Reclaimed	0.0	0.0	0.0	0.0
HCFC-141b Reclaimed	0.0	0.0	0.0	0.0
HFC-134a Reclaimed	0.0	0.0	0.0	0.0
HFC-245fa Reclaimed	0.0	0.0	0.0	0.0
Reclaimed	0.0	0.0	0.0	0.0
CFC-11 Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
HCFC-141b Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
HFC-134a Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
HFC-245fa Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
Stockpiling with Intent to Reclaim	0.0	0.0	0.0	0.0
CFC-11 Destroyed	0.0	0.0	0.0	0.0
HCFC-141b Destroyed	0.0	0.0	0.0	0.0
HFC-134a Destroyed	0.0	0.0	0.0	0.0
HFC-245fa Destroyed	0.0	0.0	0.0	0.0
Destroyed	0.0	0.0	0.0	0.0
CFC-11 Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
HCFC-141b Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
HFC-134a Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
HFC-245fa Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
Stockpiling with Intent to Destroy	0.0	0.0	0.0	0.0
<b>Subtotal</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Durable Materials</b>				
Ferrous Metal Recycled	0.0	0.0	0.0	NA
Non-Ferrous Metal Recycled	0.0	0.0	0.0	NA
Plastic Recycled	0.0	0.0	0.0	NA
Glass Recycled	0.0	0.0	0.0	NA
<b>Subtotal</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>NA</b>
<b>Removing Units from the Grid</b>				
<b>Subtotal Energy Savings</b>	<b>NA</b>	<b>NA</b>	<b>#VALUE!</b>	<b>NA</b>
<b>TOTAL</b>	<b>NA</b>	<b>NA</b>	<b>#VALUE!</b>	<b>0.0</b>

NA = not applicable.

<sup>a</sup>GWP = global warming potential; the ratio of heat trapped by one unit mass of a gas to that of one unit mass of carbon dioxide. Calculations are based on the direct 100-year GWPs provided in the Intergovernmental Panel on Climate Change Fourth Assessment Report: Climate Change 2007.

<sup>b</sup>ODP = ozone depleting potential; the ratio of calculated ozone column change for each mass unit of a gas emitted into the atmosphere relative to the calculated depletion for the reference gas CFC-11 (ODP = 1.0). For calculation purposes, ODPs defined in the Montreal Protocol are used.

<sup>c</sup>Refrigerant assumptions: destruction results in emissions of 0.01% (assuming destruction occurs using a TEAP-approved technology, with DRE of 99.99%); the reclamation process results in emissions of 1.5%.

<sup>d</sup>Foam-blowing agent assumptions: destruction results in emissions of 0.09% (assuming destruction occurs in a municipal solid waste incinerator or waste-to-energy facility with a DRE of 99.91%); the reclamation process results in emissions of 1.5%; baseline emissions are assumed to be 100% (i.e., no anaerobic degradation of CFC blowing agent in landfills is assumed).

## Hazardous Materials Recovered

The table below presents the amounts of hazardous materials avoided from being released to the environment as a result of your program.

Properly Recovered Component	Total Amount
Used Oil Recycled or Properly Disposed (gal)	0.00
<b>PCB-Containing Capacitors</b>	
Number Destroyed	0.00
<b>Mercury-Containing Components</b>	
Number Recycled	0.00
Number Disposed	0.00



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### Step 5: Summary of Program's Gross Energy Impacts from Removal of Old Units (Current Period Dollars)

**Instructions:** No action is required. The table below is for reference only and is self-populated if data are entered in the Step 3 worksheet Energy Savings tables. Data in the table below apply to the current reporting period.

MM/DD/YYYY to MM/DD/YYYY

Appliance Type	Total # of Units Processed	Total Saved Energy (kWh)	Total Savings to Residential Consumers (\$)
Refrigerators	0	0.0	\$0.00
Stand Alone Freezers	0	0.0	\$0.00
Air-Conditioning Units	0	0.0	\$0.00
Dehumidifiers	0	0.0	\$0.00
<b>Total</b>	<b>0</b>	<b>0.0</b>	<b>\$0.00</b>

Revised 1/2016



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 Washington, DC 20460

**Step 5: Summary of Program's Gross Energy Impacts from Removal of Old Units**  
*(Current Period Dollars)*

Instructions: No action is required. The table below is for reference only and is self-populated if data are entered in the Step 3 worksheet Energy Savings tables. Data in the table below apply to the current reporting period.

MM/DD/YYYY	to	MM/DD/YYYY
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Appliance Type	Total # of Units Processed	Total Saved Energy (kWh)	Total Savings to Residential Consumers (\$)
Refrigerators	0	#VALUE!	#VALUE!
Stand Alone Freezers	0	#VALUE!	#VALUE!
Air-Conditioning Units	0	0.0	\$0.00
Dehumidifiers	0	0.0	\$0.00
<b>Total</b>	<b>0</b>	<b>#VALUE!</b>	<b>#VALUE!</b>



## Step 6: Partner Feedback

**Instructions:** The U.S. EPA is interested in learning more about your program moment to answer the following three questions.

### Question #1

As part of your appliance recycling program, have you undertaken any innovative activities during the year to promote the safe disposal of appliances and/or raise consumer awareness? Please describe. You may also send any photos along with this reporting form at the time of submission.

### Question #2

As a RAD Partner, what are the greatest benefits that you've realized through the Program?

### Question #3

Do you have any suggestions for how the RAD Program can be improved?



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m and receiving feedback on the RAD Program. Please take a





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## Step 7: Confirmation

**Instructions:** Prior to submitting this form, please review all Step 3 worksheet(s) and Step 5 QA Input Data Summary worksheet and confirm below that the information is accurate, to the best of your knowledge. Your name and date must be entered into the cells below in order for this form to be considered complete.

*I certify that I have personally examined and am familiar with the information submitted in this report, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.*

Name

Date

MM/DD/YYYY