



United States
ENVIRONMENTAL PROTECTION AGENCY
Washington, DC 20460

Responsible Appliance Disposal (RAD) Program Annual Reporting Form

Office of Air & Radiation

BURDEN STATEMENT

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INTRODUCTION

The U.S. EPA's Responsible Appliance Disposal (RAD) program for utilities, manufacturers, retailers, state and local governments, waste removal service providers, 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 submitted to EPA will be treated in accordance with the EPA regulations at 40 CFR Part 2, including the provisions on protecting confidential business information (CBI). For information to be treated as CBI, it must be designated as CBI at the time of submittal. EPA will protect CBI to the maximum extent of the law.

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

- Review Step 5 Summary of Input Data for Quality Assurance worksheet to ensure that the information entered in the Step 3 worksheets is accurate. This worksheet is used for quality assurance purposes and does not require any data input.
- 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.
- Review Step 5 Key Messages and Figures to Promote Program's Benefits worksheet to access key messages and figures that can help you promote the benefits achieved by 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 all of the specifications in appendix A to 40 CFR part 82, subpart F (based on ARI Standard 700-1995, Specification for Fluorocarbons and Other Refrigerants), and to verify using the analytical methodology prescribed in section 5 of appendix A of 40 CFR part 82, subpart F.

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

EPA Form Number: 5900-482



United States
ENVIRONMENTAL PROTECTION AGENCY
 Washington, DC 20460

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: Reporting Period: to

Primary Contact:		Alternate Contact:	
Contact Name	<input type="text"/>	Contact Name	<input type="text"/>
Address	<input type="text"/>	Address	<input type="text"/>
	<input type="text"/>		<input type="text"/>
Phone	<input type="text"/>	Phone	<input type="text"/>
Fax	<input type="text"/>	Fax	<input type="text"/>
E-mail Address	<input type="text"/>	E-mail Address	<input type="text"/>

B. Program Information

Please select the RAD partner category your program falls under:

Indicate which appliance types are included in your program:

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?

Does your program provide an incentive (e.g., financial) to encourage disposal of old, working refrigerated appliances?

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/filet) ^a	Semi-Automated (saw, scrape/filet, and process to recover blowing agent) ^b	Fully Automated (appliance processed whole to recover blowing agent) ^c
Example Company B		x		x	

^a 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.
^b 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.
^c Fully Automated: The whole appliance is processed using an automated technology to recover the blowing agent.
^d 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

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every process used.

g Agent Recovery Process

Other: please describe	Name of Automated Technology/Equipment Type (if an automated technology is selected) ^d			
	<i>SEG</i>			

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

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



	Recycling/ Disposal of Used Oil	Disposal of PCBs	Disposal of Mercury





Step 3: Activity Data on Refrigerators

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 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, State/Local Government, or Waste Removal Service Provider 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					
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 & Definitions tab 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)
Metal	Ferrous Metal Recycled		(lb)
	Non-Ferrous Metal Recycled		(lb)
Plastic	Recycled		(lb)
Glass	Recycled		(lb)
PCB-Containing 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) <small>[please provide the average cost during the current program period]</small>	



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, State/Local Government, or Waste Removal Service Provider 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)					
Number of Units Processed Containing the Following Refrigerants	Total Number of Units Processed	Number of Units Processed with Refrigerant Recovery	Refrigerant Type Based On:	Comments:	
CFC-12	0	0	0		
HFC-134a	0	0	0		
Other					
Number of Units Processed Containing the Following Insulating Materials	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	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 & Definitions tab 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	(b)	
	Stockpiling with Intent to Reclaim	(b)	
	Destroyed	(b)	
	Stockpiling with Intent to Destroy	(b)	
	HFC-134a		
	Reclaimed	(b)	
	Stockpiling with Intent to Reclaim	(b)	
	Destroyed	(b)	
	Stockpiling with Intent to Destroy	(b)	
Foam-Blowing Agent*	CFC-11		
	Reclaimed	(b)	
	Stockpiling with Intent to Reclaim	(b)	
	Destroyed	(b)	
	Stockpiling with Intent to Destroy	(b)	
	HCFC-141b		
	Reclaimed	(b)	
	Stockpiling with Intent to Reclaim	(b)	
	Destroyed	(b)	
	Stockpiling with Intent to Destroy	(b)	
	HFC-134a		
	Reclaimed	(b)	
	Stockpiling with Intent to Reclaim	(b)	
	Destroyed	(b)	
Stockpiling with Intent to Destroy	(b)		
HFC-245fa			
Reclaimed	(b)		
Stockpiling with Intent to Reclaim	(b)		
Destroyed	(b)		
Stockpiling with Intent to Destroy	(b)		
Used Oil	Recycled	(gal)	
	Disposed	(gal)	
Metal	Ferrous Metal Recycled	(lb)	
	Non-Ferrous Metal Recycled	(lb)	
Plastic	Recycled	(lb)	
Glass	Recycled	(lb)	
PCB-Containing Capacitors	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

Additional Comments:	0
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United States
ENVIRONMENTAL PROTECTION AGENCY
 Washington, DC 20460

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, State/Local Government, or Waste Removal Service Provider 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 & Definitions tab 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)
	Recycled		(# of components)
Mercury-Containing Components	Destroyed		(# 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

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, State/Local Government, or Waste Removal Service Provider 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 & Definitions tab 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	(capacitors)	
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.

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:	
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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, State/Local Government, or Waste Removal Service Provider 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 & Definitions tab 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	(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

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

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 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, State/Local Government, or Waste Removal Service Provider 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				
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 & Definitions tab 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 Dehumidifiers

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 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, State/Local Government, or Waste Removal Service Provider 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 & Definitions tab 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:



United States
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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, State/Local Government, or Waste Removal Service Provider 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 & Definitions tab 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	(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, jointly process/administer any of your units. The number of units should be reported by partner, in blowing agent type, report only the units processed with refrigerant recovery and foam recovery, if partners, please click on the button below to add additional partner columns. This information is in aggregate nationwide benefits achieved by RAD partners. When populating cells, please use the information, please use the space for "Additional Comments" at the bottom of this worksheet.

Refrigerators	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			
HFC-134a			
Other			
Total	0	0	0
Number of Units Jointly Processed with Foam Rec			
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

Stand-Alone Freezers	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			
Other			
Total	0	0	0
Number of Units Jointly Processed with Foam Rec			
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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60

MM/DD/YYYY to MM/DD/YYYY

State/Local Government, or Waste Removal Service Provider Partner to
 columns D through H. When reporting the units by refrigerant type and
 respectively. If your program jointly processed units with more than five
 important for ensuring that no units are double-counted when calculating
 units provided; do not add text to specify units. If you wish to provide further

	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
Recovery		
		0
		0
		0
		0
0	0	0

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





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
Refrigerant (lb)*				
CFC-12			NA	
HCFC-22	NA			
HFC-134a			NA	
R-500A	NA	NA	NA	
R-407C	NA	NA		NA
R-410A	NA	NA		
Average across all units				
Foam-Blowing Agent (lb)**				
CFC-11			NA	NA
HCFC-141b			NA	NA
HFC-134a			NA	NA
HFC-245fa			NA	NA
Average across all units			NA	NA
Durable Materials				
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 ₂ eq) ^a	Ozone Depleting Substances (ODS) Emissions Avoided (ODP-Weighted kg) ^b
	(lb)	(kg)		
Refrigerant^c				
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	0.00	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
Subtotal	0.0	0.0	0.0	0.0
Foam-Blowing Agent^d				
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
Subtotal	0.0	0.0	0.0	0.0
Durable Materials				
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
Subtotal	0.0	0.0	0.0	NA
Removing Units from the Grid				
Subtotal Energy Savings	NA	NA	0.0	NA
TOTAL	NA	NA	0.000	0.0

NA = not applicable.

^aGWPs = 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.

^bODP = 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, CFCs defined in the Montreal Protocol are used.

^cRefrigerant 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%.

^dFoam-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
PCB-Containing Capacitors	
Number Destroyed	0
Mercury-Containing Components	
Number Recycled	0
Number Disposed	0

Appliance Component	Total Amount Prevented from Being Emitted		Greenhouse Gas (GHG) Emissions Avoided (MtCO ₂ eq) ^a	Ozone Depleting Substances (ODS) Emissions Avoided (ODP-Weighted kg) ^b
	(lb)	(kg)		
Refrigerant^c				
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
Subtotal	0.0	0.0	0.0	0.0
Foam-Blowing Agent^d				
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
Subtotal	0.0	0.0	0.0	0.0
Durable Materials				
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
Subtotal	0.0	0.0	0.0	NA
Removing Units from the Grid				
Subtotal Energy Savings	NA	NA	#VALUE!	NA
TOTAL	NA	NA	#VALUE!	0.0

NA = not applicable.

^aGWP = 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.

^bODP = 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.

^cRefrigerant 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%.

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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
PCB-Containing Capacitors	
Number Destroyed	0.00
Mercury-Containing Components	
Number Recycled	0.00
Number Disposed	0.00



United States
ENVIRONMENTAL PROTECTION AGENCY
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

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
Total	0	0.0	\$0.00

EPA Form Number: 5900-482



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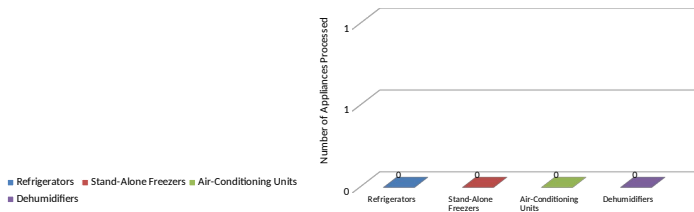
Appliance Type	Total # of Units Processed	Total Saved Energy (kWh)	Total Savings to Residential Consumers (\$)
Refrigerators	0	#VALUE!	#VALUE!
Stand Alone Freezers	0	#VALUE!	#VALUE!
Air-Conditioning Units	0	0.0	\$0.00
Dehumidifiers	0	0.0	\$0.00
Total	0	#VALUE!	#VALUE!



Step 5: Key Messages and Figures to Promote Program's Benefits

Instructions: No action is required. The information below is for reference only and is self-populated based on data entered in the Step 3 worksheets. The purpose of this worksheet is for EPA to provide RAD partners with key messages and figures to promote the benefits of their appliance disposal program.

RAD Results



Climate Benefits

- ◆ greenhouse gas emissions from passenger vehicles driven for one year. (-or-)
- ◆ carbon dioxide emissions from homes' energy use for one year. (-or-)
- ◆ carbon dioxide emissions avoided from incandescent lamps switched to LEDs.



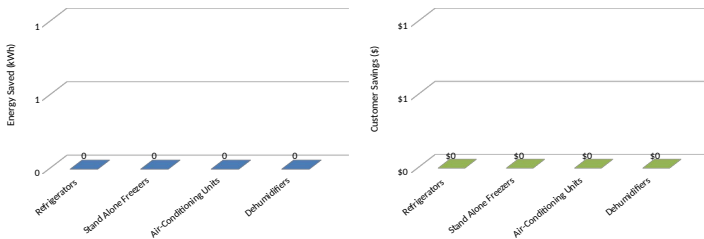
- Reclaiming or destroying refrigerants
- Reclaiming or destroying foam-blowing agents
- Recycling durable materials

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- Reclaiming or destroying refrigerants
- Reclaiming or destroying foam-blowing agents

Energy Savings*

*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.



Environmental Benefits for Communities

- Materials prevented from going to a landfill:
- lbs. of ferrous metals (e.g., steel)
 - lbs. of non-ferrous metals (e.g., copper)
 - lbs. of plastic
 - lbs. of glass
- Materials prevented from going to a landfill:
- gallons of used oil
 - 0 PCB-containing capacitors
 - 0 mercury-containing capacitors



If released into the environment, used oil can leak into groundwater and major waterways and pollute drinking water sources. In addition to used oil, appliances may contain toxic chemicals and heavy metals—namely PCBs from capacitors and mercury from thermostatic switches. PCBs are regulated by EPA as toxic substances; they may cause cancer and liver damage and can have negative impacts on the neurological development of children, the human reproductive system, the immune system, and the endocrine system. Mercury is toxic and causes a variety of adverse health effects, including tremors, headaches, respiratory failure, reproductive and developmental abnormalities, and potentially, cancers.



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 a RAD Partner, would you be willing to provide a quote or testimonial about the RAD partnership for the RAD website? If so, please provide draft text.

Question #2

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 #3

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

Question #4

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

