

# 2003 CBECS Questionnaire

## HOW TO USE THIS QUESTIONNAIRE

The purpose of this questionnaire is to document the question text and fills, skip patterns, and edit checks within the 2003 CBECS questionnaire, which is a computer-assisted interview programmed in Blaise.

Each question is formatted as follows:

<b>A1</b>	<b>Question name</b>	<b>SASVAR8</b>
<b>ASK</b>		
<b>FILL</b>		
Question text		
<b>RANGE</b>		
<b>NEXT</b>		

The **black box** (A1 here) contains a question number, followed by the **Question name** and the *SAS variable* (if applicable) in the same row. If the SAS variable area says “*see below*,” the variables are found within the Question text box.

The **ASK** line describes what needs to be true for a question to be asked. The first line of each ASK box describes the type of structures that are asked the question. There are 4 different possible structure types (and this information is preloaded into each case):

- Establishment – an individual unit within a strip or enclosed mall
- Anchor – a predominant unit within a strip or enclosed mall
- Common – the “common area” portion of an enclosed mall
- Building – any structure other than the above

In the ASK box, at least one of the other lines following the structure type line must be true.

There are two other variables that are preloaded into each case and used for routing in some questions:

- Special facility – any structure on a college/university campus or hospital complex
- Freestanding – a building that is not attached on any sides

The **FILL** line describes any question fills and the conditions under which each appears. If the fill appears as something such as “A1 [Square footage]” this means that the figure given in question A1 will be filled in.

The **Question text** box shows the question text, and any other elements for each question, such as Show Card indicators or instructions, and the answer choices for each question.

The **RANGE** line is only applicable to numeric questions. It shows the range of answers that will be accepted by Blaise.

The **NEXT** line details the routing for the next question. Follow these instructions in order. Once a true statement is reached, go to the question indicated by the arrow (➔).

This document also contains descriptions of all the internal Blaise edits. These boxes appear after the question that would have triggered them. They are formatted as follows:

<b>WARNING A1</b>	
<b>FAIL</b>	
<b>FILL</b>	
Edit message	

Each edit is either a **WARNING** or an **ERROR**. A warning can be suppressed, whereas an error cannot; it must be corrected to continue on with the interview. Each warning or error is numbered within each section.

The **FAIL** line describes the conditions that would trigger the edit.

The **FILL** line describes any fill, similar to the question fills.

The **Edit message** line shows the text that appears in the edit box that pops up on the screen when the edit is triggered.

In general, edits are only performed when the variables in question were known (i.e. not DK or RF), even though this is not indicated in the conditions given in this document.

## WORKSHEET AND RESPONDENT QUESTIONS

<b>WS</b>	<b>Worksheet 1</b>	<i>WS1RS08 – WS1RS98</i>
<b>ASK</b>	All cases not yet done with Section E	
<p>Do you have Worksheet 1 with you and completed?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF First time case started → R1 [Respondent title] IF Restart → R2 [Respondent title]	

<b>R1</b>	<b>Respondent function</b>	<i>RJOBRS08</i>
<b>ASK</b>	All cases on first start	
<p> SHOW CARD R1</p> <p>◆ Take out the Show Card booklet. It is <u>very important</u> to use these cards, as some of them contain more information than can be found on your CAPI screens</p> <p>Before we get started, I'm going to give you this booklet of Show Cards to look at for some of the questions. Please turn to Show Card R1.</p> <p>Looking at this list, please tell me which of these best describes your job function.</p> <ol style="list-style-type: none"> <li>1 Operations, maintenance, or engineering</li> <li>2 Property management</li> <li>3 Store management</li> <li>4 Mall management</li> <li>5 Administration or company management</li> <li>6 Energy or environmental management</li> <li>7 Building owner</li> <li>8 Accounting, finances, or payroll</li> <li>9 Executive official</li> <li>10 School official</li> <li>11 Religious official</li> <li>12 Support staff</li> <li>13 Other</li> </ol>		
<b>NEXT</b>	IF Other (13) → R3 [Other job function] Anything but Other (1 – 12) → A1 [Square footage]	

<b>R2</b>	<b>Respondent function</b>	<i>RJOBRS18 – RJOBRS98</i>
<b>ASK</b>	All restarted cases	
	<p>◆ ASK if interview is with a new respondent</p> <p>◆ If interview is with same respondent as previous interview, ENTER "0"</p> <p> SHOW CARD R1</p> <p>Before we get started, I'm going to give you this booklet of Show Cards to look at for some of the questions. Please turn to Show Card R1.</p> <p>Looking at this list, please tell me which of these best describes your job position.</p> <ul style="list-style-type: none"> <li>0 Same respondent as previous interview</li> <li>1 Operations, maintenance, or engineering</li> <li>2 Property management</li> <li>3 Store management</li> <li>4 Mall management</li> <li>5 Administration or company management</li> <li>6 Energy or environmental management</li> <li>7 Building owner</li> <li>8 Accounting, finances, or payroll</li> <li>9 Executive official</li> <li>10 School official</li> <li>11 Religious official</li> <li>12 Support staff</li> <li>13 Other</li> </ul>	
<b>NEXT</b>	IF Other → R3 [Other job function] Anything but Other → A1 [Square footage]	

<b>R3</b>	<b>Other job function</b>	<i>RJOBXR08 – RJOBXR98</i>
<b>ASK</b>	IF R1 or R2 [Respondent function] = Other	
	What is your job function?	
<b>NEXT</b>	→ A1 [Square footage]	

## SECTION A: BUILDING SIZE AND AGE

<b>A1</b>	<b>Square footage</b>	<i>SQFT8</i>
<b>ASK</b>	All Structures	
<b>FILL</b>	<p><b>{Worksheet1Intro}</b>  IF R has Worksheet 1 = "Please refer to Worksheet 1 for some of these next questions on general characteristics."  OTHERWISE = BLANK  <b>{Structure}</b>  IF Building = "building"  IF Establishment OR Anchor = "establishment"  IF Common = "mall as a whole"  <b>{Include}</b>  IF Establishment OR Anchor = "including basements, hallways, lobbies, stairways, and elevator shafts"  IF Building or Common = "including basements, hallways, lobbies, stairways, elevator shafts, and indoor parking levels"</p>	
		HELP <F1>
	<p>{Worksheet1Intro}</p> <p>What is the gross or total square footage of all the space in this {Structure} both finished and unfinished, {Include}?</p> <ul style="list-style-type: none"> <li>◆ DEF: [Total square footage = Length of building multiplied by width of building multiplied by the number of floors.]</li> <li>◆ VERIFY number <u>digit by digit</u></li> </ul>	
<b>RANGE</b>	1 to 999,999,999	
<b>NEXT</b>	IF DK/RF → A2 [Square footage category] IF Case is from Federal, hospital, or large buildings lists & Less than 200,001 square feet → A4 [End of interview] IF Common → A5 [Food court] IF Anchor → A7 [Wall construction material] IF Establishment → A13 [Number of floors] IF Building & 1,000 square feet or less → A3 [End of interview] IF Building & Over 1,000 square feet → A7 [Wall construction material]	

<b>WARNING A1</b>		
<b>FAIL</b>	IF Establishment & A1 [Square footage] < 400	
<b>FILL</b>	<b>{SqFt}</b> = "A1 [Square footage]" <b>{Side}</b> = Rounded square root of A1 [Square footage]	
	I have recorded that this establishment is {SqFt} square feet, which would mean that it is approximately {Side} feet by {Side} feet. Please let me verify what I have recorded.	

<b>A2</b>	<b>Square footage category</b>	SQFTC8
<b>ASK</b>	All Structures IF A1 [Square footage] = DK/RF	
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole"	
		HELP <F1>
 SHOW CARD A1		
<p>I understand that it may be difficult to give an exact figure for square footage. However, the size of your {Structure} is very important in helping understand its use of energy.</p> <p>Please look at this list and tell me which category best describes the total gross square footage in this {Structure}. There are examples provided to help you estimate.</p> <p>◆ If respondent gives the category code, VERIFY the response by reading the full answer</p> <ol style="list-style-type: none"> <li>1 1,000 square feet or less</li> <li>2 1,001 to 5,000 square feet</li> <li>3 5,001 to 10,000 square feet</li> <li>4 10,001 to 25,000 square feet</li> <li>5 25,001 to 50,000 square feet</li> <li>6 50,001 to 100,000 square feet</li> <li>7 100,001 to 200,000 square feet</li> <li>8 200,001 to 500,000 square feet</li> <li>9 500,001 to 1 million square feet</li> <li>10 Over 1 million square feet</li> </ol>		
<b>NEXT</b>	IF Case is from Federal, hospital, or large buildings lists & Less than 200,001 square feet → A4 [End of interview] IF Common → A5 [Food court] IF Anchor → A7 [Wall construction material] IF Establishment → A13 [Number of floors] IF Building & 1,000 square feet or less (1) → A3 [End of interview] IF Building & Over 1,000 square feet (2-10) → A7 [Wall construction material]	

<b>A3</b>	<b>End of interview</b>	
<b>ASK</b>	IF Building IF A1 [Square footage] ≤ 1000	
<b>FILL</b>	{CollectWorksheet} IF R has Worksheet 1 = "However, I would like to collect Worksheet 1 and any other worksheets that you may have completed."	
<p>Thank you, that's all the questions that I have at this time, since we are only interviewing buildings that are larger than one thousand square feet. {CollectWorksheet}</p> <p>Thank you for your time and help.</p> <p>◆ &lt;F10&gt; to Exit</p>		
<b>NEXT</b>	TERMINATE	

<b>A4</b>	<b>End of interview</b>
<b>ASK</b>	IF Case is from Federal, hospital, or large buildings lists IF A1 [Square footage] ≤ 200,000 OR A2 [Square footage category] = 1,000 square feet or less; 1,001 to 5,000 square feet; 5,001 to 10,000 square feet; 10,001 to 25,000 square feet; 25,001 to 50,000 square feet; 50,001 to 100,000 square feet; OR 100,001 to 200,000 square feet
<b>FILL</b>	<b>{CollectWorksheet}</b> IF R has Worksheet 1 = "However, I would like to collect Worksheet 1 and any other worksheets that you may have completed."
<p>Thank you, that's all the questions that I have at this time. {CollectWorksheet}</p> <p>Thank you for your time and help.</p> <p>◆ &lt;F10&gt; to Exit</p>	
<b>NEXT</b>	TERMINATE

<b>A5</b>	<b>Food court</b>	<i>COURT8</i>
<b>ASK</b>	IF Common	
<p>Is there a food court in this mall?</p> <p>◆ EXP: [A food court is a public area with tables and chairs surrounded by various food service establishments which generally offer only counter service.]</p>		
<b>NEXT</b>	→ A6 [Common area square footage]	

<b>A6</b>	<b>Common area square footage</b>	<i>COMNSF8</i>
<b>ASK</b>	IF Common	
<b>FILL</b>	<b>{FoodCourt}</b> IF A5 [Food court] = Yes = "Please consider the food court and all of its establishments to be part of the "common area" for the purposes of this interview." OTHERWISE = BLANK	
<p>{FoodCourt}</p> <p>What is the gross or total square footage of all the space in just the "common area" portions of this mall?</p> <p>◆ EXP: [Common area may include walkways, seating areas, fountains, kiosks, escalators, elevators, restrooms, or other public areas. It may also include maintenance areas or mall management offices.]</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	1 to 999,999,999	
<b>NEXT</b>	→ A7 [Wall construction material]	

WARNING A2	
<b>FAIL</b>	IF A6 [Common area square footage] < 2000
<b>FILL</b>	{SqFt} = "A6 [Common area square footage]"
<p>I have recorded that the common area is {SqFt} square feet, which seems rather small. Please let me verify what I have recorded.</p>	

<b>A7</b>	<b>Wall construction material</b>	<i>WLCNS8</i>
<b>ASK</b>	IF Building OR Anchor OR Common	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Anchor = "establishment" IF Common = "mall"	
 SHOW CARD A2		HELP <F1>
<p>Here is a list of different types of construction materials. Which best describes the major type of exterior wall construction material used on this {Structure}?</p> <ol style="list-style-type: none"> <li>1 Brick, stone, or stucco</li> <li>2 Pre-cast concrete panels</li> <li>3 Concrete block or poured concrete (above grade)</li> <li>4 Aluminum, asbestos, plastic, or wood siding, shingles, tiles, or shakes</li> <li>5 Sheet metal panels</li> <li>6 Window or vision glass (glass that can be seen through)</li> <li>7 Decorative or construction glass</li> <li>8 IF VOLUNTEERED: No one major type</li> <li>9 IF VOLUNTEERED: Other</li> </ol>		
<b>NEXT</b>	→ A8 [Roof construction material]	

<b>A8</b>	<b>Roof construction material</b>	<i>RFCNS8</i>
<b>ASK</b>	IF Building OR Anchor OR Common	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Anchor = "establishment" IF Common = "mall"	
HELP <F1>		
 SHOW CARD A3		
Here is a list of different types of roofing materials. Which best describes the {Structure}'s predominant exterior roof surface?		
<ol style="list-style-type: none"> <li>1 Built-up (tar, felts, or fiberglass and a ballast, such as stone)</li> <li>2 Slate or tile shingles</li> <li>3 Wood shingles, shakes, or other wooden materials</li> <li>4 Asphalt, fiberglass, or other shingles</li> <li>5 Metal surfacing</li> <li>6 Plastic, rubber, or synthetic sheeting (single or multiple ply)</li> <li>7 Concrete</li> <li>8 IF VOLUNTEERED: No one major type</li> <li>9 IF VOLUNTEERED: Other</li> </ol>		
<b>NEXT</b>	IF Building & Freestanding → A9 [Percent exterior glass] OTHERWISE → A13 [Number of floors]	

<b>A9</b>	<b>Percent exterior glass</b>	<i>GLSSPC8</i>
<b>ASK</b>	IF Building IF Freestanding	
 SHOW CARD A4		
Which of the ranges on this card best describes the percent of the exterior wall surface of this building that is covered with window glass or glass doors?		
<ol style="list-style-type: none"> <li>1 10 percent or less</li> <li>2 11 to 25 percent</li> <li>3 26 to 50 percent</li> <li>4 51 to 75 percent</li> <li>5 76 to 100 percent</li> </ol>		
<b>NEXT</b>	→ A10 [Equal glass on all sides]	

<b>A10</b>	<b>Equal glass on all sides</b>	<i>EQGLSS8</i>
<b>ASK</b>	IF Building IF Freestanding	
<p>Is the amount of glass about the same for all sides of the building?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → A12 [Building shape] IF No OR DK/RF → A11 [Glass sides most sunlight]	

<b>A11</b>	<b>Glass sides most sunlight</b>	<i>SUNGLS8</i>
<b>ASK</b>	IF Building IF Freestanding & A10 [Equal glass on all sides] = No OR DK/RF	
<p>Do the sides receiving direct sunlight have more or less glass area than the sides that do not receive direct sunlight?</p> <p>1 More glass area 2 Less glass area 3 IF VOLUNTEERED: About the same amount</p>		
<b>NEXT</b>	→ A12 [Building shape]	

<b>A12</b>	<b>Building shape</b>	<i>BLDSHP8</i>
<b>ASK</b>	IF Building IF Freestanding	
<p> SHOW CARD A5</p> <p>Here is a card that shows some common building shapes. Which one most resembles the floorplan of this building at ground level? This is sometimes called the "footprint" of the building.</p> <p>1 Square 2 Wide rectangle 3 Narrow rectangle 4 Rectangle or square with an interior courtyard 5 "H" shaped 6 "U" shaped 7 "E" shaped 8 "T" shaped 9 "L" shaped 10 "+" or cross shaped 11 Other shape</p>		
<b>NEXT</b>	→ A13 [Number of floors]	

<b>A13</b>	<b>Number of floors</b>	<i>NFLOOR8</i>
<b>ASK</b>	All Structures	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole"	
		HELP <F1>
How many floors are in the tallest section of the {Structure}, including basements, parking levels, or any other floors below ground level, but excluding half-floors, mezzanines, balconies, and lofts?  ◆ PROBE for estimate if DK		
<b>RANGE</b>	1 to 999	
<b>NEXT</b>	IF Only one floor → A18 [Year of construction] IF More than one floor → A14 [Elevators]	

<b>WARNING A3</b>		
<b>FAIL</b>	IF A1 [Square footage] = 1,001 to 5,000 & A13 [Number of floors] > 4 IF A1 [Square footage] = 5,001 to 25,000 & A13 [Number of floors] > 6 IF A1 [Square footage] = 25,001 to 50,000 & A13 [Number of floors] > 12 IF A1 [Square footage] = 50,001 to 200,000 & A13 [Number of floors] > 25	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole" <b>{SqFt}</b> = "A1 [Square footage]" <b>{Floors}</b> = "A13 [Number of floors]"	
I have recorded that this {Structure} is {SqFt} square feet and has {Floors} floors. This seems like a lot of floors for this square footage. Please let me verify what I have recorded.		

<b>A14</b>	<b>Elevators</b>	<i>ELEVTR8</i>
<b>ASK</b>	All Structures IF A13 [Number of floors] >1 OR DK/RF	
<b>FILL</b>	{Structure} IF Building = "building" IF Anchor = establishment IF Common = "common area"	
<p>Are there any elevators in this {Structure}?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → A15 [Number of elevators] IF No OR DK/RF → A16 [Escalators]	

<b>A15</b>	<b>Number of elevators</b>	<i>NELVTR8</i>
<b>ASK</b>	All Structures IF A14 [Elevators] = Yes	
<p>How many elevators are there?</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	1 to 99	
<b>NEXT</b>	→ A16 [Escalators]	

<b>WARNING A4</b>		
<b>FAIL</b>	IF A13 [Number of floors] > 5 & A14 [Elevators] = No	
<b>FILL</b>	{Floors} = "A13 [Number of floors]"	
<p>I have recorded that there are {Floors} floors but no elevator. With this many floors, there is usually an elevator. Please let me verify what I have recorded.</p>		

<b>A16</b>	<b>Escalators</b>	<i>ESCLTR8</i>
<b>ASK</b>	All Structures IF A13 [Number of floors] >1 OR DK/RF	
<b>FILL</b>	{Structure} IF Building = "building" IF Anchor = establishment IF Common = "common area"	
<p>Are there any escalators in this {Structure}?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → A17 [Number of escalators] IF No OR DK/RF → A18 [Year of construction]	

<b>A17</b>	<b>Number of escalators</b>	<i>NESLTR8</i>
<b>ASK</b>	All Structures IF A16 [Escalators] = Yes	
<p>How many escalators are there? Count <u>each</u> one, for example, a pair of up and down escalators should be counted as two.</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	1 to 99	
<b>NEXT</b>	→ A18 [Year of construction]	

<b>WARNING A5</b>		
<b>FAIL</b>	IF A17 [Number of escalators] = 1, 3, 5, OR 7	
<b>FILL</b>	{Escalators} = "A17 [Number of escalators]"	
<p>I have recorded that there are {Escalators} escalators. Since a pair of up and down escalators should count as two, this means that you have at least one escalator that is not part of a pair. Is this correct?</p>		

<b>A18</b>	<b>Year of construction</b>	YRCON8
<b>ASK</b>	All Structures	
<b>FILL</b>	<p><b>{Structure}</b>  IF Building = "building"  IF Establishment OR Anchor = "portion of the mall"  IF Common = "mall as a whole"</p> <p><b>{Additions}</b>  IF Building = "If there have been major additions, give the year the <u>largest portion</u> of the building was completed."  IF Establishment OR Anchor = BLANK  IF Common = "If there have been major additions, give the year the <u>largest portion</u> was completed."</p>	
		HELP <F1>
What year was this {Structure} constructed? {Additions}		
<b>RANGE</b>	1600 to 2004	
<b>NEXT</b>	IF DK/RF → A19 [Year of construction category] IF 2003 → A21 [Month ready for occupancy] IF 2004 → A20 [End of interview] IF Establishment → B2 [Primary activity] IF Before 1980 & (Building OR Anchor OR Common) → A23 [Renovations] IF 1980 to 2002: IF Building → B1 [One activity in building] IF Anchor → B2 [Primary activity] IF Common → B30 [Assign CBECS Activity = Common area]	

<b>WARNING A6</b>		
<b>FAIL</b>	IF A18 [Year of construction] < 1801	
<b>FILL</b>	<p><b>{Structure}</b>  IF Building = "building"  IF Establishment OR Anchor = "portion of the mall"  IF Common = "mall as a whole"  <b>{Year}</b> = "A18 [Year of construction]"</p>	
I've recorded that this {Structure} was built in {Year}, which makes it over 200 years old. Please let me verify what I have recorded.		

WARNING A7	
<b>FAIL</b>	IF A18 [Year of construction] < 1900 & A13 [Number of floors] > 12 IF A18 [Year of construction] = 1900 to 1919 & A13 [Number of floors] > 25
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "portion of the mall" IF Common = "mall as a whole" <b>{Year}</b> = "A18 [Year of construction]" <b>{Floors}</b> = "A15 [Number of floors]"
I have recorded that this {Structure} was built in {Year} and that there are {Floors} floors. It is unlikely that it was built this long ago if there are this many floors. Please let me verify what I have recorded.	

A19	Year of construction category	YRCONC8
<b>ASK</b>	All Structures IF A18 [Year of construction] = DK/RF	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "portion of the mall" IF Common = "mall as a whole"	
 SHOW CARD A6		HELP <F1>
<p>Please look at this card and tell me which range best describes when this {Structure} was constructed.</p> <ul style="list-style-type: none"> <li>1 Before 1920</li> <li>2 1920 to 1945</li> <li>3 1946 to 1959</li> <li>4 1960 to 1969</li> <li>5 1970 to 1979</li> <li>6 1980 to 1989</li> <li>7 1990 to 1999</li> <li>8 2000 to 2003</li> <li>9 IF VOLUNTEERED: 2004</li> </ul>		
<b>NEXT</b>	IF 2004 → A20 [End of interview] IF Establishment → B2 [Primary activity] IF Before 1980 (1-5) & (Building OR Anchor OR Common) → A23 [Renovations] IF 1980 to 2003 (6-8) & (Building OR Anchor OR Common): IF Building → B1 [One activity in building] IF Anchor → B2 [Primary activity] IF Common → B30 [Assign CBECS Activity = Common area]	

WARNING A8	
<b>FAIL</b>	IF A19 [Year of construction category] = Before 1920 & A13 [Number of floors] > 25
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "portion of the mall" IF Common = "mall as a whole" <b>{Floors}</b> = "A13 [Number of floors]"
<p>I have recorded that this {Structure} was built before 1920 and that there are {Floors} floors. It is unlikely that it was built this long ago if there are this many floors. Please let me verify what I have recorded.</p>	

<b>A20</b>	<b>End of interview</b>
<b>ASK</b>	All Structures IF A18 [Year of construction] OR A19 [Year of construction category] = 2004
<b>FILL</b>	<b>{CollectWorksheet}</b> IF R has Worksheet 1 = "However, I would like to collect Worksheet 1 and any other worksheets that you may have completed."
<p>Thank you, that's all the questions that I have at this time, since we are only interviewing buildings that were ready for occupancy before January 2004. {CollectWorksheet}</p> <p>Thank you for your time and help.</p> <p>◆ &lt;F10&gt; to Exit</p>	
<b>NEXT</b>	TERMINATE

<b>A21</b>	<b>Month ready for occupancy</b>	<i>MONCON8</i>
<b>ASK</b>	All Structures IF A18 [Year of construction] = 2003	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "portion of the mall" IF Common = "mall as a whole"	
		HELP <F1>
<p>In what month of 2003 was this {Structure} first ready for occupancy?</p> <p>◆ <u>Do not</u> enter a month past when you are interviewing -- if the {Structure} is not yet ready for occupancy, ENTER "13"</p> <p>1 January          2 February          3 March          4 April          5 May          6 June          7 July          8 August          9 September          10 October          11 November          12 December          13 IF VOLUNTEERED: Not yet ready for occupancy</p>		
<b>NEXT</b>	IF Not yet ready for occupancy (13) → A22 [End of interview] IF Month given (1-12): IF Building → B1 [One activity in building] IF Establishment OR Anchor → B2 [Primary activity] IF Common → B30 [Assign CBECS Activity = Common area]	

<b>WARNING A9</b>	
<b>FAIL</b>	IF Month selected is later than the current month (unless it is currently 2004, then this edit is skipped)
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "portion of the mall" IF Common = "mall as a whole"
<p>This month is in the future. If the {Structure} is not yet occupied, please ENTER "13" for "Not yet ready for occupancy."</p>	

<b>A22</b>	<b>End of interview</b>
<b>ASK</b>	All Structures IF A21 [Month first ready for occupancy] = Not yet ready for occupancy
<b>FILL</b>	<b>{CollectWorksheet}</b> IF R has Worksheet 1 = "However, I would like to collect Worksheet 1 and any other worksheets that you may have completed."
<p>Thank you, that's all the questions that I have at this time, since we are only interviewing buildings that are ready for occupancy at this time. {CollectWorksheet}</p> <p>Thank you for your time and help.</p> <p>◆ &lt;F10&gt; to Exit</p>	
<b>NEXT</b>	TERMINATE

<b>A23</b>	<b>Renovations</b>	<i>RENOV8</i>
<b>ASK</b>	IF Building OR Anchor OR Common IF A18 [Year of construction] OR A19 [Year of construction category] = Before 1980	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole"	
<p>Has any portion of this {Structure} undergone major renovations since 1980?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → A24 [What renovations] IF No OR DK/RF: IF Building → B1 [One activity in building] IF Establishment OR Anchor → B2 [Primary activity] IF Common → B30 [Assign CBECS Activity = Common area]	

<b>A24</b>	<b>What renovations</b>	<i>see below</i>
<b>ASK</b>	IF Building OR Anchor OR Common IF A23 [Renovations] = Yes	
 SHOW CARD A7  Please look at this card and tell me which types of renovations have been done since 1980. <ul style="list-style-type: none"> <li>◆ PROBE for any others</li> <li>◆ ENTER all that apply <ul style="list-style-type: none"> <li>1 Addition or annex <span style="float: right;"><i>RENADD8</i></span></li> <li>2 Reduction of enclosed floorspace <span style="float: right;"><i>RENRDC8</i></span></li> <li>3 Interior or exterior cosmetic improvements <span style="float: right;"><i>RENCOS8</i></span></li> <li>4 Exterior replacement <span style="float: right;"><i>RENEXT8</i></span></li> <li>5 Interior wall re-configuration <span style="float: right;"><i>RENINT8</i></span></li> <li>6 HVAC equipment upgrade <span style="float: right;"><i>RENHVC8</i></span></li> <li>7 Lighting upgrade <span style="float: right;"><i>RENLGT8</i></span></li> <li>8 Window replacement <span style="float: right;"><i>RENWIN8</i></span></li> <li>9 Plumbing system upgrade <span style="float: right;"><i>RENPLB8</i></span></li> <li>10 Insulation upgrade <span style="float: right;"><i>RENINS8</i></span></li> <li>11 Other <span style="float: right;"><i>RENOTH8</i></span></li> </ul> </li> </ul>		
<b>NEXT</b>	IF Other (11) → A25 [Other renovation] OTHERWISE: IF Building → B1 [One activity in building] IF Establishment OR Anchor → B2 [Primary activity] IF Common → B30 [Assign CBECS Activity = Common area]	

<b>A25</b>	<b>Other renovation</b>
<b>ASK</b>	IF Building OR Anchor OR Common IF A24 [What renovations] = Other
Please describe the other type of renovation. <ul style="list-style-type: none"> <li>◆ RECORD in open box</li> </ul>	
<b>NEXT</b>	IF Building → B1 [One activity in building] IF Establishment OR Anchor → B2 [Primary activity] IF Common → B30 [Assign CBECS Activity = Common area]

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## SECTION B: BUILDING ACTIVITY

<b>B1</b>	<b>One activity in building</b>	ONEACT8
<b>ASK</b>	IF Building	
 SHOW CARD B1		HELP <F1>
<p>Looking at this list of activities, does one <u>single</u> activity account for 75 percent or more of the floorspace in the building?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → B2 [Primary activity] IF No OR DK/RF → B3 [Activities in building]	

<b>B2</b>	<b>Primary activity</b>	<i>ACT8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF Building & B1 [One activity in building] = Yes IF Establishment OR Anchor	
<b>FILL</b>	<b>{Amount}</b> IF Building = "75 percent or more" IF Establishment OR Anchor = "majority" <b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
HELP <F1>		
 SHOW CARD B1		
Which one of the activities listed accounts for {Amount} of the floorspace in the {Structure}?  11 Office/Professional 12 Data center/Computer "server farm" 13 Warehouse/Storage 14 Food sales or service 15 Retail 16 Education 17 Religious worship 18 Public assembly 19 Health care 20 Service 21 Lodging 22 Public order and safety 23 Residential 24 Industrial 25 Agricultural 26 Vacant 27 Other		
<b>NEXT</b>	IF Office/Professional (11) → B5 [Office type] IF Data center/Computer "server farm" (12) → B6 [Verify data center] IF Warehouse/Storage (13) → B9 [Warehouse type] IF Food sales or service (14) → B10 [Food sales or service type] IF Retail (15) → B11 [Retail type] IF Education (16) → B13 [Education type] IF Religious worship (17) → B30 [Assign CBECS Activity = Religious worship] IF Public assembly (18) → B14 [Assembly type] IF Health care (19) → B16 [Health care type] IF Service (20) → B17 [Service type] IF Lodging (21) → B18 [Lodging type] IF Public order and safety (22) → B19 [Public order type] IF Residential (23) → B20 [Residential type] IF Industrial (24) → B8 [Used as warehouse] IF Agricultural (25) → B22 [Space for retail sales] IF Vacant (26) → B23 [Vacant for noncommercial] IF Other (27) → B25 [Other type] IF DK/RF: IF Building & NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]	

<b>B3</b>	<b>Activities in building</b>	ACT18, ACT28, ACT38
<b>ASK</b>	IF Building IF B1 [One activity in building] = No OR DK/RF	
<p>HELP &lt;F1&gt;</p> <p> SHOW CARD B1</p> <p>Which activities occupy the most space in this building? Choose up to three.</p> <p>◆ PROBE for any others (up to three)</p> <ul style="list-style-type: none"> <li>11 Office/Professional</li> <li>12 Data center/Computer "server farm"</li> <li>13 Warehouse/Storage</li> <li>14 Food sales or service</li> <li>15 Retail</li> <li>16 Education</li> <li>17 Religious worship</li> <li>18 Public assembly</li> <li>19 Health care</li> <li>20 Service</li> <li>21 Lodging</li> <li>22 Public order and safety</li> <li>23 Residential</li> <li>24 Industrial</li> <li>25 Agricultural</li> <li>26 Vacant</li> <li>27 Other</li> </ul>		
<b>NEXT</b>	IF Activities given → B4 [Percents for activities] IF DK/RF: IF NOT Special facility → B38 [On a multibuilding complex] IF Special facility → C1 [Government owned]	

<b>ERROR B1</b>	
<b>FAIL</b>	IF Only one activity entered in B3 [Activities in building]
<p>I have only recorded one activity here, but I also recorded that there is more than one activity in the building. Which one of these needs to be corrected?</p> <p>&gt; If there is only one activity in the building, go back to "One activity in building" and enter "Yes"</p>	

<b>B4</b>	<b>Percents for activities</b>	<i>ACT1PCT8, ACT2PCT8, ACT3PCT8</i>
<b>ASK</b>	IF Building For each activity given in B3 [Activities in building]	
<b>FILL</b>	<b>{ActivityLabel}</b> IF Office/Professional = "office space" IF Data center/Computer "server farm" = "used as a data center" IF Warehouse/Storage = "warehouse space" IF Food sales or service = "used for food sales or service" IF Retail = "used for retail" IF Education = "used for education" IF Religious worship = "used for religious worship" IF Public assembly = "used for public assembly" IF Health care = "used for health care" IF Service = "used for service" IF Lodging = "used for lodging" IF Public order and safety = "used for public order and safety" IF Residential = "residential" IF Industrial = "industrial" IF Agricultural = "agricultural" IF Vacant = "vacant" IF Other = "used for another activity"	
About what percentage of the total space is {ActivityLabel}?		
<b>RANGE</b>	1 to 100	
<b>NEXT</b>	IF There is an activity with a maximum percent, assign that as the activity [ACTFINL8] IF There are equal maximum percents (e.g. 50% an 50%), assign activity as the most energy-intensive one (based on 1999 CBECS data) THEN:  IF Office/Professional (11) → B5 [Office type] IF Data center/Computer "server farm" (12) → B6 [Verify data center] IF Warehouse/Storage (13) → B9 [Warehouse type] IF Food sales or service (14) → B10 [Food sales or service type] IF Retail (15) → B11 [Retail type] IF Education (16) → B13 [Education type] IF Religious worship (17) → B30 [Assign CBECS Activity = Religious worship] IF Public assembly (18) → B14 [Assembly type] IF Health care (19) → B16 [Health care type] IF Service (20) → B17 [Service type] IF Lodging (21) → B18 [Lodging type] IF Public order and safety (22) → B19 [Public order type] IF Residential (23) → B20 [Residential type] IF Industrial (24) → B8 [Used as warehouse] IF Agricultural (25) → B22 [Space for retail sales] IF Vacant (26) → B23 [Vacant for noncommercial] IF Other (27) → B25 [Other type] IF DK/RF: IF NOT Special facility → B38 [On a multibuilding complex] IF Special facility → C1 [Government owned]	

**ERROR B2**

<b>FAIL</b>	IF Percents in B4 [Percents for activities] add up to more than 100
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The percents that I have entered add up to more than 100 and they must be less than or equal to 100. Please let me verify these percents.

> Go to first percent and verify each one with the respondent. This must be resolved.

**WARNING B3**

<b>FAIL</b>	IF Percents in B4 [Percents for activities] add up to less than 50
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The percents that I have entered add up to less than 50 percent. Please let me verify that I have not omitted any activities that account for a large portion of the floorspace in this building.

> Go to first percent and verify each one with the respondent.

<b>B5</b>	<b>Office type</b>	<i>OFFCSP8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B2 [Primary activity] OR B4 [Percents for activities] Assigned activity = Office/Professional	
<b>FILL</b>	<b>{ActivityExplanation}</b> IF (Building & B1 [One activity in building] ≠ Yes) = “For the purposes of this survey, I will include your building in the general category of office.” OTHERWISE = BLANK	
 SHOW CARD B2  {ActivityExplanation}  Looking at this list, what type of office is this?  <ol style="list-style-type: none"> <li>1 Administrative or professional office building such as consulting, insurance, law, utility/telephone company, publishing, or college administration</li> <li>2 Government office</li> <li>3 Mixed-use office</li> <li>4 Bank or other financial institution</li> <li>5 Doctor's or dentist's office</li> <li>6 Sales office such as for vehicles or real estate</li> <li>7 Contractor's office such as for construction, plumbing, or HVAC</li> <li>8 Non-profit or social services office</li> <li>9 Research and development office</li> <li>10 City hall or city center</li> <li>11 Religious office</li> <li>12 Call center</li> <li>13 Courthouse or probation office</li> <li>14 Library</li> <li>15 Veterinarian's office</li> <li>16 Vacant</li> <li>17 Other type of office</li> </ol>		
<b>NEXT</b>	IF Administrative or professional office building; Government office; Mixed-use office; Bank or other financial institution; Doctor's or dentist's office; Sales office; Contractor's office; Non-profit or social services office; Research and development office; City hall or city center; Religious office; OR Call center (1-12) → B30 [Assign CBECS Activity = Office] IF Courthouse or probation office (13) → B30 [Assign CBECS Activity = Public order and safety] IF Library (14) → B30 [Assign CBECS Activity = Public assembly] IF Veterinarian's office (15) → B30 [Assign CBECS Activity = Outpatient health] IF Vacant (16): IF More than one activity → B30 [Assign CBECS Activity = Vacant] IF Only one activity OR Establishment OR Anchor → B24 [Completely vacant] IF Other type of office (17) → B26 [Specify other activity]	

<b>B6</b>	<b>Verify data center</b>	<i>DATCTR8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B2 [Primary activity] OR B4 [Percents for activities] assigned activity = Data center/Computer "server farm"	
<b>FILL</b>	<b>{ActivityExplanation}</b> IF (Building & B1 [One activity in building] ≠ Yes) = "For the purposes of this survey, I will include your building in the general category of data center." OTHERWISE = BLANK <b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
		HELP <F1>
{ActivityExplanation}  A data center or server farm is a group of networked computer servers that are housed in one location, usually a secure area, and perform no other tasks besides server tasks.  There are usually many computers without screens, stacked in rows of racks, which operate continuously, day and night. Data centers are generally kept very cool and have a backup source of electricity.  Does this accurately describe your {Structure}?  1 Yes 2 No		
<b>NEXT</b>	IF Yes → B30 [Assign CBECS Activity = Data center] IF No OR DK/RF → B7 [Classify as office]	

<b>B7</b>	<b>Classify as office</b>	<i>NODCTR8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B6 [Verify data center] = No OR DK/RF	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
Then, for the purposes of this study, I am going to classify your {Structure} as an office.  ◆ ENTER "1" to continue		
<b>NEXT</b>	→ B30 [Assign CBECS Activity = Office]	

<b>B8</b>	<b>Used as warehouse</b>	<i>WARECHK8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B2 [Primary activity] OR B4 [Percents for activities] assigned activity = Industrial	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
<p>Is this {Structure} used primarily as a warehouse or distribution center?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → B9 [Warehouse type] IF No OR DK/RF → B21 [Space for retail sales]	

<b>B9</b>	<b>Warehouse type</b>	<i>WARESP8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B2 [Primary activity] OR B4 [Percents for activities] assigned activity = Warehouse/Storage	
<b>FILL</b>	<b>{ActivityExplanation}</b> IF (Building & B1 [One activity in building] ≠ Yes) = "For the purposes of this survey, I will include your building in the general category of warehouse." OTHERWISE = BLANK	
HELP <F1>		
<p> SHOW CARD B3</p> <p>{ActivityExplanation}</p> <p>Looking at this list, what type of warehouse is this?</p> <p>1 Non-refrigerated warehouse 2 Refrigerated warehouse 3 Distribution or shipping center 4 Self storage center 5 Vehicle storage and/or maintenance (car barn) 6 Vacant 7 Other type of warehouse</p>		
<b>NEXT</b>	IF Non-refrigerated warehouse; Distribution or shipping center; OR Self storage center (1, 3, 4) → B30 [Assign CBECS Activity = Nonrefrigerated warehouse] IF Refrigerated warehouse (2) → B30 [Assign CBECS Activity = Refrigerated warehouse] IF Vehicle storage and/or maintenance (5) → B30 [Assign CBECS Activity = Service] IF Vacant (6): IF More than one activity → B30 [Assign CBECS Activity = Vacant] IF Only one activity OR Establishment OR Anchor → B24 [Completely vacant] IF Other type of warehouse (7) → B26 [Specify other activity]	

<b>B10</b>	<b>Food sales or service type</b>	<i>FOODSP8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B2 [Primary activity] OR B4 [Percents for activities] assigned activity = Food sales or service	
<b>FILL</b>	<b>{ActivityExplanation}</b> IF (Building & B1 [One activity in building] ≠ Yes) = “For the purposes of this survey, I will include your building in the general category of food sales or service.” OTHERWISE = BLANK	
 SHOW CARD B4  {ActivityExplanation}  Looking at this list, what type of food sales or service is this?  1 Restaurant or cafeteria 2 Fast food 3 Bar 4 Grocery store or food market 5 Gas station with a convenience store 6 Convenience store 7 Beer, wine, or liquor store 8 Reception hall 9 Catering service 10 Vacant 11 Other type of food sales or service		
<b>NEXT</b>	IF Restaurant or cafeteria; Fast food; Bar; Reception hall; OR Catering service (1-3, 8, 9) → B30 [Assign CBECS Activity = Food service] IF Grocery store or food market; Gas station with a convenience store; OR Convenience store; (4-6) → B30 [Assign CBECS Activity = Food sales] IF Alcoholic beverage store (7) → B30 [Assign CBECS Activity = Retail] IF Vacant (10): IF More than one activity → B30 [Assign CBECS Activity = Vacant] IF Only one activity OR Establishment OR Anchor → B24 [Completely vacant] IF Other type of food sales or service (11) → B26 [Specify other activity]	

<b>B11</b>	<b>Retail type</b>	<i>RETLSP8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B2 [Primary activity] OR B4 [Percents for activities] assigned activity = Retail	
<b>FILL</b>	<b>{ActivityExplanation}</b> IF (Building & B1 [One activity in building] ≠ Yes) = “For the purposes of this survey, I will include your building in the general category of retail.” OTHERWISE = BLANK	
 SHOW CARD B5  {ActivityExplanation}  Looking at this list, what type of retail is this?  <ol style="list-style-type: none"> <li>1 Store such as a department store, furniture, clothing, hardware, drugstore, bookstore, building supplies, lumber, home improvement, farm equipment, lawn and garden, floral, crafts, gifts, antiques, pawn shop, or wholesale club</li> <li>2 Bank or other financial institution</li> <li>3 Convenience store</li> <li>4 Beer, wine, or liquor store</li> <li>5 Rental center such as for videos, DVDs, equipment, or vehicles</li> <li>6 Dealership or showroom for vehicles or boats</li> <li>7 Studio or gallery</li> <li>8 Grocery store or food market</li> <li>9 Photo processing shop</li> <li>10 Copy center or printing service</li> <li>11 Distribution or shipping center</li> <li>12 Gas station with a convenience store</li> <li>13 Gas station (without convenience store)</li> <li>14 Post office or postal center</li> <li>15 Recreation such as gymnasium, health club, bowling alley, ice rink, field house, or indoor racquet sports</li> <li>16 Repair shop</li> <li>17 Vacant</li> <li>18 Other type of retail</li> </ol>		
<b>NEXT</b>	IF Store (1) → B12 [Type of store] IF Alcoholic beverage store; Rental center; Dealership or showroom; OR Studio or gallery (4, 5, 6, 7) → B30 [Assign CBECS Activity = Retail] IF Bank or other financial institution (2) → B30 [Assign CBECS Activity = Office] IF Convenience store; Grocery store or food market; OR Gas station with a convenience store (3, 8, 12) → B30 [Assign CBECS Activity = Food sales] IF Photo processing shop; Copy center or printing service; Gas station; Post office or postal center; OR Repair shop (9, 10, 13, 14, 16) → B30 [Assign CBECS Activity = Service] IF Distribution or shipping center (11) → B30 [Assign CBECS Activity = Nonrefrigerated warehouse] IF Recreation (15) → B30 [Assign CBECS Activity = Public assembly] IF Vacant (17): IF More than one activity → B30 [Assign CBECS Activity = Vacant] IF Only one activity OR Establishment OR Anchor → B24 [Completely vacant] IF Other type of retail (18) → B26 [Specify other activity]	

<b>B12</b>	<b>Type of store</b>	<i>STORE8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B11 [Retail type] = Store	
<p>Is this a discount store, drugstore, home center or hardware store, department store, or some other type of store?</p> <ol style="list-style-type: none"> <li>1 Discount store</li> <li>2 Drugstore</li> <li>3 Home center or hardware store</li> <li>4 Department store</li> <li>5 Some other type of store</li> </ol>		
<b>NEXT</b>	→ B30 [Assign CBECS Activity = Retail]	

<b>B13</b>	<b>Education type</b>	<i>EDUCSP8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B2 [Primary activity] OR B4 [Percents for activities] assigned activity = Education	
<b>FILL</b>	<b>{ActivityExplanation}</b> IF (Building & B1 [One activity in building] ≠ Yes) = "For the purposes of this survey, I will include your building in the general category of education." OTHERWISE = BLANK	
 SHOW CARD B6  {ActivityExplanation}  Looking at this list, what type of education is this?  <ol style="list-style-type: none"> <li>1 Elementary or middle school</li> <li>2 High school</li> <li>3 College or university</li> <li>4 Preschool or daycare</li> <li>5 Adult education</li> <li>6 Career or vocational training</li> <li>7 Religious education</li> <li>8 Library</li> <li>9 Laboratory</li> <li>10 Vacant</li> <li>11 Other type of classroom education</li> </ol>		
<b>NEXT</b>	IF Elementary or middle school; High school; College or university; Preschool or daycare; Adult education; Career or vocational training; OR Religious education (1-7) → B30 [Assign CBECS Activity = Education] IF Library (8) → B30 [Assign CBECS Activity = Public assembly] IF Laboratory (9) → B30 [Assign CBECS Activity = Laboratory] IF Vacant (10): IF More than one activity → B30 [Assign CBECS Activity = Vacant] IF Only one activity OR Establishment OR Anchor → B24 [Completely vacant] IF Other type of classroom education (11) → B26 [Specify other activity]	

<b>B14</b>	<b>Assembly type</b>	ASSMSP8
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B2 [Primary activity] OR B4 [Percents for activities] assigned activity = Public assembly	
<b>FILL</b>	<b>{ActivityExplanation}</b> IF (Building & B1 [One activity in building] ≠ Yes) = “For the purposes of this survey, I will include your building in the general category of public assembly.” OTHERWISE = BLANK	
 SHOW CARD B7  {ActivityExplanation}  Looking at this list, what type of public assembly is this?  1 Social or meeting such as a community center, lodge, meeting hall, convention center, or senior center 2 Recreation such as a gymnasium, health club, bowling alley, ice rink, field house, or indoor racquet sports 3 Entertainment or culture such as a museum, theater, cinema, sports arena, casino, or night club 4 Library 5 Religious worship 6 Funeral home 7 Student activities center 8 Armory 9 Exhibition hall 10 Broadcasting studio 11 Transportation terminal 12 Elementary or middle school 13 High school 14 Restaurant or cafeteria 15 Fast food 16 Bar 17 Vacant 18 Other type of public assembly		
<b>NEXT</b>	IF Entertainment or culture (3) → B15 [Cinema] IF Social or meeting; Recreation; Library; Funeral home; Student activities center; Armory; Exhibition hall; Broadcasting studio; OR Transportation terminal (1, 2, 4, 6-11) → B30 [Assign CBECS Activity = Public assembly] IF Religious worship (5) → B30 [Assign CBECS Activity = Religious worship] IF Elementary or middle school; OR High school (12, 13) → B30 [Assign CBECS Activity = Education] IF Restaurant or cafeteria; Fast food; OR Bar (14-16) → B30 [Assign CBECS Activity = Food service] IF Vacant (17): IF More than one activity → B30 [Assign CBECS Activity = Vacant] IF Only one activity OR Establishment OR Anchor → B24 [Completely vacant] IF Other type of public assembly (18) → B26 [Specify other activity]	

<b>B15</b>	<b>Cinema</b>	<i>CINEMA8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B14 [Assembly type] = Entertainment or culture	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
<p>Is this {Structure} a cinema [or movie theater]?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	→ B30 [Assign CBECS Activity = Public assembly]	

<b>B16</b>	<b>Health care type</b>	<i>HLTHSP8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B2 [Primary activity] OR B4 [Percents for activities] assigned activity = Health care	
<b>FILL</b>	<b>{ActivityExplanation}</b> IF (Building & B1 [One activity in building] ≠ Yes) = "For the purposes of this survey, I will include your building in the general category of health care." OTHERWISE = BLANK	
<p> SHOW CARD B8</p> <p>{ActivityExplanation}</p> <p>Looking at this list, what type of health care is this?</p> <ol style="list-style-type: none"> <li>1 Doctor's or dentist's office</li> <li>2 Clinic or other outpatient health care building</li> <li>3 Hospital (inpatient)</li> <li>4 Outpatient rehabilitation center</li> <li>5 Inpatient rehabilitation center</li> <li>6 Nursing home, assisted living center, or other residential care building</li> <li>7 Retirement home</li> <li>8 Veterinarian's office</li> <li>9 Laboratory</li> <li>10 Vacant</li> <li>11 Other type of health care</li> </ol>		
<b>NEXT</b>	<p>IF Doctor's or dentist's office; Clinic or other outpatient health care building; Outpatient rehabilitation center; OR Veterinarian's office (1, 2, 4, 8) → B30 [Assign CBECS Activity = Outpatient health care]</p> <p>IF Hospital (inpatient); OR Inpatient rehabilitation (3, 5) → B30 [Assign CBECS Activity = Inpatient health care]</p> <p>IF Nursing home, assisted living center, or other residential care building (6) → B30 [Assign CBECS Activity = Nursing]</p> <p>IF Retirement home (7) → B30 [Assign CBECS Activity = Lodging]</p> <p>IF Laboratory (9) → B30 [Assign CBECS Activity = Laboratory]</p> <p>IF Vacant (10): IF More than one activity → B30 [Assign CBECS Activity = Vacant] IF Only one activity OR Establishment OR Anchor → B24 [Completely vacant]</p> <p>IF Other type of health care (11) → B26 [Specify other activity]</p>	

<b>B17</b>	<b>Service type</b>	<i>SERVSP8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B2 [Primary activity] OR B4 [Percents for activities] assigned activity = Service	
<b>FILL</b>	<b>{ActivityExplanation}</b> IF (Building & B1 [One activity in building] $\neq$ Yes) = "For the purposes of this survey, I will include your building in the general category of service." OTHERWISE = BLANK	
 SHOW CARD B9  {ActivityExplanation}  Looking at this list, what type of service is this?  1 Auto service or auto repair shop 2 Vehicle storage and/or maintenance (car barn) 3 Contractor's office such as construction, plumbing, or HVAC 4 Repair shop 5 Dry cleaner or laundromat 6 Post office or postal center 7 Bank or other financial institution 8 Restaurant or cafeteria 9 Fast food 10 Bar 11 Car wash 12 Gas station with a convenience store 13 Gas station (without convenience store) 14 Telephone switching facilities 15 Photo processing shop 16 Beauty parlor or barber shop 17 Tanning salon 18 Airplane hangar 19 Copy center or printing shop 20 Distribution or shipping center 21 Kennel 22 Library 23 Non-profit or social services office 24 Preschool or daycare 25 Recreation such as a gymnasium, health club, bowling alley, ice rink, field house, or indoor racquet sports 26 Rental center such as for videos, DVDs, equipment, or vehicles 27 Self storage center 28 Student activities center 29 Indoor parking garage 30 Vacant 31 Other type of service		

<b>NEXT</b>	<p>IF Auto service or auto repair shop; Vehicle storage and/or maintenance; Repair shop; Dry cleaner or Laundromat; Post office or postal center; Car wash; Gas station; Photo processing shop; Beauty parlor or barber shop; Tanning salon; Copy center or printing shop; OR Kennel (1, 2, 4-6, 11, 13, 15-17, 19, 21) → B30 [Assign CBECS Activity = Service]</p> <p>IF Contractor's office; Bank or other financial institution; OR Non-profit or social services office (3, 7, 23) → B30 [Assign CBECS Activity = Office]</p> <p>IF Restaurant, bar, or cafeteria; OR Fast food (8, 9) → B30 [Assign CBECS Activity = Food service]</p> <p>IF Gas station with convenience store (12) → B30 [Assign CBECS Activity = Food sales]</p> <p>IF Telephone switching facilities OR Airplane hangar (14, 18) → B30 [Assign CBECS Activity = Other]</p> <p>IF Distribution or shipping center OR Self storage center (20, 27) → B30 [Assign CBECS Activity = Nonrefrigerated storage]</p> <p>IF Library; Recreation; Student activities center (22, 25, 28) → B30 [Assign CBECS Activity = Public assembly]</p> <p>IF Preschool or daycare (24) → B30 [Assign CBECS Activity = Education]</p> <p>IF Rental center (26) → B30 [Assign CBECS Activity = Retail]</p> <p>IF Indoor parking garage (29):</p> <p style="padding-left: 20px;">IF B1 [One activity in building] = Yes → B28 [End of interview]</p> <p style="padding-left: 20px;">IF B1 [One activity in building] ≠ Yes → B30 [Assign CBECS Activity = Other]</p> <p>IF Vacant (30):</p> <p style="padding-left: 20px;">IF More than one activity → B30 [Assign CBECS Activity = Vacant]</p> <p style="padding-left: 20px;">IF Only one activity OR Establishment OR Anchor → B24 [Completely vacant]</p> <p>IF Other type of service (31) → B26 [Specify other activity]</p>
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<b>B18</b>	<b>Lodging type</b>	<i>LODGSP8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B2 [Primary activity] OR B4 [Percents for activities] assigned activity = Lodging	
<b>FILL</b>	<b>{ActivityExplanation}</b> IF (Building & B1 [One activity in building] ≠ Yes) = “For the purposes of this survey, I will include your building in the general category of lodging.” OTHERWISE = BLANK	
 SHOW CARD B10  {ActivityExplanation}  Looking at this list, what type of lodging is this?  1 Motel or inn 2 Hotel 3 Dormitory, fraternity, or sorority 4 Retirement home 5 Nursing home, assisted living center, or other residential care building 6 Convent or monastery 7 Shelter, orphanage, or children's home 8 Halfway house 9 Jail, reformatory, or penitentiary 10 Vacant 11 Other type of lodging		
<b>NEXT</b>	IF Motel or inn; Hotel; Dormitory, fraternity, or sorority; Retirement home; Convent or monastery; Shelter, orphanage, or children's home; OR Halfway house (1-4, 6-8) → B30 [Assign CBECS Activity = Lodging] IF Nursing home, assisted living center, or other residential care building (5) → B30 [Assign CBECS Activity = Nursing] IF Jail, reformatory, or penitentiary (9) → B30 [Assign CBECS Activity = Public order and safety] IF Vacant (10): IF More than one activity → B30 [Assign CBECS Activity = Vacant] IF Only one activity OR Establishment OR Anchor → B24 [Completely vacant] IF Other type of lodging (11) → B26 [Specify other activity]	

<b>B19</b>	<b>Public order type</b>	<i>ORDRSP8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B2 [Primary activity] OR B4 [Percents for activities] assigned activity = Public order and safety	
<b>FILL</b>	<b>{ActivityExplanation}</b> IF (Building & B1 [One activity in building] ≠ Yes) = “For the purposes of this survey, I will include your building in the general category of public order and safety.” OTHERWISE = BLANK	
 SHOW CARD B11  {ActivityExplanation}  Looking at this list, what type of public order and safety is this?  <ol style="list-style-type: none"> <li>1 Police station</li> <li>2 Fire station</li> <li>3 Combination police and fire station</li> <li>4 Jail, reformatory, or penitentiary</li> <li>5 Courthouse or probation office</li> <li>6 Halfway house</li> <li>7 Armory</li> <li>8 City hall or city center</li> <li>9 Vacant</li> <li>10 Other type of public order and safety</li> </ol>		
<b>NEXT</b>	IF Police station; Fire station; Combination police and fire station; Jail, reformatory, or penitentiary; OR Courthouse or probation office; (1-4) → B30 [Assign CBECS Activity = Public order and safety] IF Halfway house (6) → B30 [Assign CBECS Activity = Lodging] IF Armory (7) → B30 [Assign CBECS Activity = Public assembly] IF City hall or city center (8) → B30 [Assign CBECS Activity = Office] IF Vacant (8): IF More than one activity → B30 [Assign CBECS Activity = Vacant] IF Only one activity OR Establishment OR Anchor → B24 [Completely vacant] IF Other type of public order and safety (10) → B26 [Specify other activity]	

<b>B20</b>	<b>Residential type</b>	<i>RESDSP8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B2 [Primary activity] OR B4 [Percents for activities] assigned activity = Residential	
<b>FILL</b>	<b>{ActivityExplanation}</b> IF (Building & B1 [One activity in building] ≠ Yes) = “For the purposes of this survey, I will include your building in the general category of residential.” OTHERWISE = BLANK	
 SHOW CARD B12  {ActivityExplanation}  Looking at this list, what type of residential is this?  1 Hotel 2 Motel or inn 3 Retirement home 4 Shelter, orphanage, or children's home 5 Convent or monastery 6 Dormitory, fraternity, or sorority 7 Nursing home, assisted living center, or other residential care building 8 Halfway house 9 Other type of residential		
<b>NEXT</b>	IF Hotel; Motel or inn; Retirement home; Shelter, orphanage, or children's home; Convent or monastery; Dormitory, fraternity, or sorority; OR Halfway house (1-6, 8) → B30 [Assign CBECS Activity = Lodging] IF Nursing home, assisted living center, or other residential care building (7) → B30 [Assign CBECS Activity = Nursing] IF Other type of residential (9) → B27 [End of interview]	

<b>B21</b>	<b>Space for retail sales</b>	<i>INDRET8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF (B2 [Primary activity] OR B4 [Percents for activities] assigned activity = Industrial) & B8 [Used as warehouse] = No OR DK/RF	
<b>FILL</b>	<b>{Structure}</b> IF Building = “building” IF Establishment OR Anchor = “establishment”	
<p style="text-align: right;">HELP &lt;F1&gt;</p> Is any of the space in this {Structure} used for retail sales of the products that are made here?  1 Yes 2 No		
<b>NEXT</b>	IF Yes → B30 [Assign CBECS Activity = Other] IF No OR DK/RF → B27 [End of interview]	

<b>B22</b>	<b>Space for retail sales</b>	<i>AGRRET8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B2 [Primary activity] OR B4 [Percents for activities] assigned activity = Agricultural	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
		HELP <F1>
Is any of the space in this {Structure} used for retail sales of the products that are grown here?		
1 Yes 2 No		
<b>NEXT</b>	IF Yes → B30 [Assign CBECS Activity = Other] IF No OR DK/RF → B27 [End of interview]	

<b>B23</b>	<b>Vacant for noncommercial</b>	<i>VACUSE8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B2 [Primary activity] OR B4 [Percents for activities] Assigned activity = Vacant	
Was the vacant space used for or intended to be used for either agricultural, industrial, manufacturing, or residential purposes or as a parking garage?		
1 Yes 2 No		
<b>NEXT</b>	IF Yes → B29 [End of interview] IF No OR DK/RF: IF Building & B1 [One activity in building] ≠ Yes → B30 [Assign CBECS Activity = Vacant] OTHERWISE → B24 [Completely vacant]	

<b>B24</b>	<b>Completely vacant</b>	<i>VACANT8</i>
<b>ASK</b>	IF Building IF B2 [Primary activity] = Vacant	
Is this building <u>completely</u> vacant?		
1 Yes 2 No		
<b>NEXT</b>	→ B30 [Assign CBECS Activity = Vacant]	

<b>B25</b>	<b>Other type</b>	<i>OTHRSP8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B2 [Primary activity] OR B4 [Percents for activities] assigned activity = Other	
<b>FILL</b>	<b>{ActivityExplanation}</b> IF (Building & B1 [One activity in building] ≠ Yes) = "For the purposes of this survey, I will include your building in the general category of other types of buildings." OTHERWISE = BLANK	
 SHOW CARD B13  {ActivityExplanation}  Looking at this list, what type of other activity is this?  1 Airplane hangar 2 Broadcasting studio 3 Crematorium 4 Entertainment or culture such as a museum, theater, cinema, sports arena, casino or night club 5 Funeral home 6 Laboratory 7 Recreation such as a gymnasium, health club, bowling alley, ice rink, field house, or indoor racquet sports 8 Telephone switching facilities 9 Transportation terminal 10 Vehicle storage and/or maintenance (car barn) 11 Veterinarian's office 12 Vacant 13 Indoor parking garage 14 Agricultural building with some retail space 15 Manufacturing or industrial building with some retail space 16 Other type of building 17 50 percent commercial (for coding use only)		
<b>NEXT</b>	IF Airplane hangar; Crematorium; Telephone switching facilities; Agricultural building with some retail space; Manufacturing or industrial building with some retail space; OR 50 percent commercial (1, 3, 8, 14, 15, 17) → B30 [Assign CBECS Activity = Other] IF Broadcasting studio; Entertainment or culture; Funeral home; Recreation; OR Transportation terminal (2, 4, 5, 7, 9) → B30 [Assign CBECS Activity = Public assembly] IF Laboratory (6) → B30 [Assign CBECS Activity = Laboratory] IF Vehicle storage and/or maintenance (10) → B30 [Assign CBECS Activity = Service] IF Veterinarian's office (11) → B30 [Assign CBECS Activity = Outpatient health care] IF Vacant (12): IF More than one activity → B30 [Assign CBECS Activity = Vacant] IF Only one activity OR Establishment OR Anchor → B24 [Completely vacant] IF Indoor parking garage (13): IF B1 [One activity in building] = Yes → B28 [End of interview] IF B1 [One activity in building] ≠ Yes → B30 [Assign CBECS Activity = Other] IF Other type of building (16) → B26 [Specify other activity]	

<b>B26</b>	<b>Specify other activity</b>
<b>ASK</b>	<p>IF Building OR Establishment OR Anchor  F B5 [Office type] = Other type of office  IF B9 [Warehouse type] = Other type of warehouse  IF B10 [Food sales or service type] = Other type of food sales or service  IF B11 [Retail type] = Other type of retail  IF B13 [Education type] = Other type of classroom education  IF B14 [Assembly type] = Other type of public assembly  IF B16 [Health care type] = Other type of health care  IF B17 [Service type] = Other type of service  IF B18 [Lodging type] = Other type of lodging  IF B19 [Public order type] = Other type of public order and safety  IF B25 [Other type] = Other type of building</p>
<p>Please describe this other type of activity.</p> <p>◆ RECORD in open box</p>	
<b>NEXT</b>	<p>IF Previous question was:</p> <p>B5 [Office type] → B30 [Assign CBECS Activity = Office]  B9 [Warehouse type] → B30 [Assign CBECS Activity = Nonrefrigerated warehouse]  B10 [Food sales or service type] → B30 [Assign CBECS Activity = Food sales]  B11 [Retail type] → B30 [Assign CBECS Activity = Retail]  B13 [Education type] → B30 [Assign CBECS Activity = Education]  B14 [Assembly type] → B30 [Assign CBECS Activity = Public assembly]  B16 [Health care type] → B30 [Assign CBECS Activity = Outpatient health care]  B17 [Service type] → B30 [Assign CBECS Activity = Service]  B18 [Lodging type] → B30 [Assign CBECS Activity = Lodging]  B19 [Public order type] → B30 [Assign CBECS Activity = Public order and safety]  B25 [Other type] → B30 [Assign CBECS Activity = Other]</p>

<b>B27</b>	<b>End of interview</b>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B20 [Residential type] = Other type of residential OR B21 [Space for retail sales] = No OR DK/RF OR B22 [Space for retail sales] = No OR DK/RF
<b>FILL</b>	<b>{CollectWorksheet}</b> IF R has Worksheet 1 = "However, I would like to collect Worksheet 1 and any other worksheets that you may have completed."
<p>Thank you, that's all the questions that I have at this time, since we are only interviewing commercial structures. {CollectWorksheet}</p> <p>Thank you for your time and help.</p> <p>◆ &lt;F10&gt; to Exit</p>	
<b>NEXT</b>	TERMINATE

<b>B28</b>	<b>End of interview</b>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B17 [Service type] OR B25 [Other type] = Indoor parking garage
<b>FILL</b>	<b>{CollectWorksheet}</b> IF R has Worksheet 1 = "However, I would like to collect Worksheet 1 and any other worksheets that you may have completed."
<p>Thank you, that's all the questions that I have at this time, since this study does not cover parking garages. {CollectWorksheet}</p> <p>Thank you for your time and help.</p> <p>◆ &lt;F10&gt; to Exit</p>	
<b>NEXT</b>	TERMINATE

<b>B29</b>	<b>End of interview</b>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B23 [Vacant for noncommercial] = Yes
<b>FILL</b>	<b>{CollectWorksheet}</b> IF R has Worksheet 1 = "However, I would like to collect Worksheet 1 and any other worksheets that you may have completed."
<p>Thank you, that's all the questions that I have at this time, since we are only interviewing structures intended for commercial use. {CollectWorksheet}</p> <p>Thank you for your time and help.</p> <p>◆ &lt;F10&gt; to Exit</p>	
<b>NEXT</b>	TERMINATE

<b>B30</b>	<b>Assign CBECS Activity</b>	<i>PBA8</i>
<b>NEXT</b>	<p>All Structures</p> <ul style="list-style-type: none"> <li><b>1 Vacant:</b> IF Building &amp; NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]</li> <li><b>2 Office:</b> IF Building &amp; NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]</li> <li><b>3 Data center:</b> IF Building &amp; NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]</li> <li><b>4 Laboratory:</b> IF Building &amp; NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]</li> <li><b>5 Nonrefrigerated warehouse:</b> IF Building &amp; NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]</li> <li><b>6 Food sales:</b> IF Building &amp; NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]</li> <li><b>7 Public order and safety:</b> IF Building &amp; NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]</li> <li><b>8 Outpatient health care:</b> IF Building &amp; NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]</li> <li><b>11 Refrigerated warehouse:</b> IF Building &amp; NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]</li> <li><b>12 Religious worship → B31 [Religious worship seating capacity]</b></li> <li><b>13 Public assembly → B32 [Assembly seating capacity]</b></li> <li><b>14 Education → B33 [Number of classroom seats]</b></li> <li><b>15 Food service → B34 [Food service seating capacity]</b></li> <li><b>16 Inpatient health care → B35 [Licensed bed capacity]</b></li> <li><b>17 Nursing → B36 [Licensed bed capacity]</b></li> <li><b>18 Lodging → B37 [Number of guest rooms]</b></li> <li><b>25 Retail:</b> IF Building &amp; NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]</li> <li><b>26 Service:</b> IF Building &amp; NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]</li> <li><b>27 Common area:</b> IF NOT Special facility → B38 [On a multibuilding complex] IF Special facility → C6 [Number of businesses]</li> <li><b>91 Other:</b> IF Building &amp; NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]</li> </ul>	

WARNING B4	
<b>FAIL</b>	IF A1 [Square footage] > 1,000,000 & CBECS Activity = Public order OR Refrigerated warehouse OR Education
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" <b>{Activity}</b> IF Public order = "a public order and safety" IF Refrigerated warehouse = "a warehouse" IF Education = "an education"
<p>I have recorded that this {Structure} is over a million square feet. This seems large for {Activity} {Structure}. Please let me verify what I have recorded.</p>	

WARNING B5	
<b>FAIL</b>	IF A1 [Square footage] > 500,000 & CBECS Activity = Food sales OR Food service OR Nursing OR Outpatient health care OR Religious worship OR Retail
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" <b>{Activity}</b> IF Food sales = "a food sales" IF Food service = "a food service" IF Nursing = "a nursing" IF Outpatient health care = "a health care" IF Religious worship = "a religious worship" IF Retail = "a retail"
<p>I have recorded that this {Structure} is over five hundred thousand feet. This seems large for {Activity} {Structure}. Please let me verify what I have recorded.</p>	

WARNING B6	
<b>FAIL</b>	IF A13 [Number of floors] > 4 & CBECS Activity = Food sales OR Food service OR Refrigerated warehouse IF A13 [Number of floors] > 5 & CBECS Activity = Religious worship IF A13 [Number of floors] > 11 & CBECS Activity = Nonrefrigerated warehouse IF A13 [Number of floors] > 14 & CBECS Activity = Outpatient health care OR Nursing IF A13 [Number of floors] > 25 & CBECS Activity = Retail OR Service OR Public order OR Education OR Public assembly
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" <b>{Floors}</b> = "A13 [Number of floors]" <b>{Activity}</b> IF Food sales = "a food sales" IF Food service = "a food service" IF Refrigerated warehouse = "a warehouse" IF Religious worship = "a religious worship" IF Nonrefrigerated warehouse = "a warehouse" IF Outpatient health care = "a health care" IF Nursing = "a nursing" IF Retail = "a retail" IF Service = "a service" IF Public order = "a public order and safety" IF Education = "an education" IF Public assembly = "a public assembly"
<p>I have recorded that this {Structure} has {Floors} floors. This seems like a lot of floors for {Activity} {Structure}. Please let me verify what I have recorded.</p>	

<b>B31</b>	<b>Religious worship seating capacity</b>	<i>RWSEAT8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B28 [CBECS Activity] = Religious worship	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
		HELP <F1>
<p>What is the total seating capacity of the religious worship areas in this {Structure}?</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	0 to 99,999	
<b>NEXT</b>	IF Building & NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]	

WARNING B7	
<b>FAIL</b>	IF B31 [Religious worship seating capacity] = 0
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment"
I have recorded that this is a religious worship {Structure} with no seats. These types of {Structure}s usually have some seating area. Please let me verify what I have recorded.	

WARNING B8	
<b>FAIL</b>	IF A1 [Square footage] ÷ B31 [Religious worship seating capacity] > 400
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" {SqFt} = "A1 [Square footage]" {ReligSeat} = "B31 [Religious worship seating capacity]"
I have recorded that this {Structure} is {Square footage} square feet. Religious worship {Structure}s of this size usually contain more than {ReligSeat} seats. Please let me verify what I have recorded.	

WARNING B9	
<b>FAIL</b>	IF A1 [Square footage] ÷ B28 [Religious worship seating capacity] < 6
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" {SqFt} = "A1 [Square footage]" {ReligSeat} = "B31 [Religious worship seating capacity]"
I have recorded that this {Structure} is {SqFt} square feet. {ReligSeat} seats seem like a lot for this size {Structure}. Please let me verify what I have recorded.	

<b>B32</b>	<b>Assembly seating capacity</b>	<i>PBSEAT8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B28 [CBECS Activity] = Public assembly	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
		HELP <F1>
<p>What is the fixed seating capacity of the public assembly areas in this {Structure}?</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	0 to 99,999	
<b>NEXT</b>	IF Building & NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]	

<b>WARNING B10</b>		
<b>FAIL</b>	IF B32 [Assembly seating capacity] = 0	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
<p>I have recorded that this is a public assembly {Structure} with no seats. These types of {Structure}s usually have some seating area. Please let me verify what I have recorded.</p>		

<b>WARNING B11</b>		
<b>FAIL</b>	IF A1 [Square footage] ÷ B32 [Assembly seating capacity] > 1000	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" <b>{SqFt}</b> = "A1 [Square footage]" <b>{AssemSeat}</b> = "B32 [Assembly seating capacity]"	
<p>I have recorded that this {Structure} is {SqFt} square feet. Public assembly {Structure}s of this size usually contain more than {AssemSeat} seats. Please let me verify what I have recorded.</p>		

WARNING B12	
<b>FAIL</b>	IF A1 [Square footage] ÷ B32 [Assembly seating capacity] < 6
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" {SqFt} = "A1 [Square footage]" {AssemSeat} = "B32 [Assembly seating capacity]"
I have recorded that this {Structure} is {SqFt} square feet. {AssemSeat} seats seems like a lot for this size {Structure}. Please let me verify what I have recorded.	

<b>B33</b>	<b>Number of classroom seats</b>	<i>EDSEAT8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B28 [CBECS Activity] = Education	
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment"	
<p>How many students can be seated in all of the classrooms in this {Structure} at one time?</p> <p>◆ PROBE for estimate if DK</p>		HELP <F1>
<b>RANGE</b>	0 to 99,999	
<b>NEXT</b>	IF Building & NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]	

WARNING B13	
<b>FAIL</b>	IF B33 [Number of classroom seats] = 0
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment"
I have recorded that this is an education {Structure} with no seats. These types of {Structure}s usually have some seating area. Please let me verify what I have recorded.	

WARNING B14	
<b>FAIL</b>	IF A1 [Square footage] ÷ B33 [Number of classroom seats] > 1500
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" <b>{SqFt}</b> = "A1 [Square footage]" <b>{EducSeat}</b> = "B33 [Number of classroom seats]"
I have recorded that this {Structure} is {SqFt} square feet. Education {Structure}s of this size usually contain more than {EducSeat} seats. Please let me verify what I have recorded.	

WARNING B15	
<b>FAIL</b>	IF A1 [Square footage] ÷ B33 [Number of classroom seats] < 10
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" <b>{SqFt}</b> = "A1 [Square footage]" <b>{EducSeat}</b> = "B33 [Number of classroom seats]"
I have recorded that this {Structure} is {SqFt} square feet. {EducSeat} seats seems like a lot for this size {Structure}. Please let me verify what I have recorded.	

<b>B34</b>	<b>Food service seating capacity</b>	<i>FDSEAT8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B28 [CBECS Activity] = Food service	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
What is the total seating capacity of the food service areas in this {Structure}?  ◆ PROBE for estimate if DK		HELP <F1>
<b>RANGE</b>	0 to 99,999	
<b>NEXT</b>	IF Building & NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]	

WARNING B16	
<b>FAIL</b>	IF A1 [Square footage] ÷ B34 [Food service seating capacity] > 500
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" <b>{SqFt}</b> = "A1 [Square footage]" <b>{FoodSeat}</b> = "B34 [Food service seating capacity]"
<p>I have recorded that this {Structure} is {SqFt} square feet. Food service {Structure}s of this size usually contain more than {FoodSeat} seats. Please let me verify what I have recorded.</p>	

WARNING B17	
<b>FAIL</b>	IF A1 [Square footage] ÷ B34 [Food service seating capacity] < 10
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" <b>{SqFt}</b> = "A1 [Square footage]" <b>{FoodSeat}</b> = "B34 [Food service seating capacity]"
<p>I have recorded that this {Structure} is {SqFt} square feet. {FoodSeat} seats seems like a lot for this size {Structure}. Please let me verify what I have recorded.</p>	

<b>B35</b>	<b>Licensed bed capacity</b>	<i>HCBED8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B28 [CBECS Activity] = Inpatient health care	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
<p>What is the inpatient licensed bed capacity in this {Structure}?</p> <p>◆ PROBE for estimate if DK</p>		HELP <F1>
<b>RANGE</b>	0 to 99,999	
<b>NEXT</b>	IF Building & NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]	

WARNING B18	
<b>FAIL</b>	IF B35 [Licensed bed capacity] = 0
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment"
I have recorded that this is an inpatient health care {Structure} with no beds. These types of {Structure}s usually have beds. Please let me verify what I have recorded.	

WARNING B19	
<b>FAIL</b>	IF A1 [Square footage] ÷ B35 [Licensed bed capacity] > 4000
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" {SqFt} = "A1 [Square footage]" {HospBed} = "B35 [Licensed bed capacity]"
I have recorded that this {Structure} is {SqFt} square feet. Inpatient health care {Structure}s of this size usually contain more than {HospBed} beds. Please let me verify what I have recorded.	

WARNING B20	
<b>FAIL</b>	IF A1 [Square footage] ÷ B35 [Licensed bed capacity] < 200
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" {SqFt} = "A1 [Square footage]" {HospBed} = "B35 [Licensed bed capacity]"
I have recorded that this {Structure} is {SqFt} square feet. {HospBed} beds seems like a lot of beds for this size {Structure}. Please let me verify what I have recorded.	

<b>B36</b>	<b>Licensed bed capacity</b>	<i>NRSBED8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B28 [CBECS Activity] = Nursing	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
		HELP <F1>
<p>What is the skilled or residential care licensed bed capacity in this {Structure}?</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	0 to 99,999	
<b>NEXT</b>	IF Building & NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]	

<b>WARNING B21</b>		
<b>FAIL</b>	IF B36 [Licensed bed capacity] = 0	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
<p>I have recorded that this is a residential care {Structure} with no beds. These types of {Structure}s usually have beds. Please let me verify what I have recorded.</p>		

<b>WARNING B22</b>		
<b>FAIL</b>	IF A1 [Square footage] ÷ B36 [Licensed bed capacity] > 1200	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" <b>{SqFt}</b> = "A1 [Square footage]" <b>{NurseBed}</b> = "B36 [Licensed bed capacity]"	
<p>I have recorded that this {Structure} is {SqFt} square feet. Residential care {Structure}s of this size usually contain more than {NurseBed} beds. Please let me verify what I have recorded.</p>		

WARNING B23	
<b>FAIL</b>	IF A1 [Square footage] ÷ B36 [Licensed bed capacity] < 100
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" <b>{SqFt}</b> = "A1 [Square footage]" <b>{NurseBed}</b> = "B36 [Licensed bed capacity]"
I have recorded that this {Structure} is {SqFt} square feet. {NurseBed} beds seems like a lot for this size {Structure}. Please let me verify what I have recorded.	

<b>B37</b>	<b>Number of guest rooms</b>	<i>LODGRM8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF B28 [CBECS Activity] = Lodging	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
		HELP <F1>
How many guest rooms or occupant rooms are there in this {Structure}?  ◆ PROBE for estimate if DK		
<b>RANGE</b>	0 to 99,999	
<b>NEXT</b>	IF Building & NOT Special facility → B38 [On a multibuilding complex] OTHERWISE → C1 [Government owned]	

WARNING B24	
<b>FAIL</b>	IF B37 [Number of guest rooms] = 0
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"
I have recorded that this is a lodging {Structure} with no rooms. These types of {Structure}s usually have rooms. Please let me verify what I have recorded.	

WARNING B25	
<b>FAIL</b>	IF A1 [Square footage] ÷ B37 [Number of guest rooms] > 4000
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" <b>{SqFt}</b> = "A1 [Square footage]" <b>{Rooms}</b> = "B37 [Number of guest rooms]"
<p>I have recorded that this {Structure} is {SqFt} square feet. Lodging {Structure}s of this size usually contain more than {Rooms} rooms. Please let me verify what I have recorded.</p>	

WARNING B26	
<b>FAIL</b>	IF A1 [Square footage] ÷ B37 [Number of guest rooms] < 100
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" <b>{SqFt}</b> = "A1 [Square footage]" <b>{Rooms}</b> = "B37 [Number of guest rooms]"
<p>I have recorded that this {Structure} is {SqFt} square feet. {Rooms} rooms seems like a lot for this size {Structure}. Please let me verify what I have recorded.</p>	

<b>B38</b>	<b>On a multibuilding complex</b>	<i>FACIL8</i>
<b>ASK</b>	IF Building OR Common IF NOT Special facility	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Common = "mall as a whole"	
		HELP <F1>
<p>Is this {Structure} part of a multibuilding campus or complex?</p> <p>◆ DEF: [A campus or complex is a group of two or more buildings on the same site that are owned or operated by a single organization or individual. It may also be referred to as a multibuilding facility.]</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → B39 [Federal complex] IF No OR DK/RF: IF Building → C1 [Government owned] IF Common → C3 [Owner]	

<b>B39</b>	<b>Federal complex</b>	<i>FEDFAC8</i>
<b>ASK</b>	IF Building OR Common IF B38 [On a multibuilding complex] = Yes	
<p>Is this <u>campus or complex</u> owned by the Federal government?</p> <p>1 Yes 2 No</p>		HELP <F1>
<b>NEXT</b>	→ B40 [Type of complex]	

<b>B40</b>	<b>Type of complex</b>	<i>FACACT8</i>
<b>ASK</b>	IF Building OR Common IF B38 [On a multibuilding complex] = Yes	
<p> SHOW CARD B14</p> <p>Looking at this list, what is the primary business or function of this group of buildings as a whole?</p> <ol style="list-style-type: none"> <li>1 College, university, or junior college</li> <li>2 Primary or secondary school [GRADES K-12]</li> <li>3 Other type of school</li> <li>4 Office complex</li> <li>5 Retail complex</li> <li>6 Religious campus or complex</li> <li>7 Hospital or other health care complex</li> <li>8 Lodging or resort complex</li> <li>9 Post office complex</li> <li>10 Other type of government complex</li> <li>11 Industrial complex</li> <li>12 Transportation complex such as a terminal, depot, or airport</li> <li>13 Other type of campus or complex</li> </ol>		HELP <F1>
<b>NEXT</b>	IF College, university, or junior college (1) OR Hospital or other health care complex (7) → B41 [Leave summary] IF Industrial complex (11) → B42 [Manufacturing industrial] IF Any other type (2-6, 8-10, 12, 13) → B45 [Central physical plant]	

<b>B41</b>	<b>Leave summary</b>	<i>LeaveSum</i>
<b>ASK</b>	IF Building OR Common IF B40 [Type of complex] = College, university, or junior college OR Hospital or other health care complex	
<p>◆ Give respondent the “College/University/Hospital Energy Summary” form</p> <p>We are still going to continue with this interview, but I would also like to leave this form with you. It is possible that someone may need to follow up with you to get some additional information about this complex as a whole.</p> <p>◆ ENTER "1" to continue</p>		
<b>NEXT</b>	→ B45 [Central physical plant]	

<b>B42</b>	<b>Manufacturing industrial</b>	<i>MANIND8</i>
<b>ASK</b>	IF Building OR Common IF B40 [Type of complex] = Industrial complex	
<p style="text-align: right;">HELP &lt;F1&gt;</p> <p>Is it a <u>manufacturing</u> industrial complex?</p> <p>◆ DEF: [Manufacturing industrial complexes involve the production or processing of goods, merchandise, raw materials, or food.]</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → B43 [Same owner as manufacturing] IF No OR DK/RF → B45 [Central physical plant]	

<b>B43</b>	<b>Same owner as manufacturing</b>	<i>MANFAC8</i>
<b>ASK</b>	IF Building OR Common IF B42 [Manufacturing industrial] = Yes	
<p style="text-align: right;">HELP &lt;F1&gt;</p> <p>Does this building have the same owner and operator as the manufacturing campus or complex?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → B44 [End of interview] IF No OR DK/RF → B45 [Central physical plant]	

<b>B44</b>	<b>End of interview</b>
<b>ASK</b>	IF Building OR Common IF B43 [Same owner as manufacturing] = Yes
<b>FILL</b>	<b>{CollectWorksheet}</b> IF R has Worksheet 1 = "However, I would like to collect Worksheet 1 and any other worksheets that you may have completed."
<p>Thank you, that's all the questions that I have at this time, since this study does not include buildings on manufacturing facilities. {CollectWorksheet}</p> <p>Thank you for your time and help.</p> <p>◆ &lt;F10&gt; to Exit</p>	
<b>NEXT</b>	TERMINATE

<b>B45</b>	<b>Central physical plant</b>	<i>PLANT8</i>
<b>ASK</b>	IF Building OR Common IF B40 [Type of complex] = Anything except Industrial complex OR B41 [Same owner as manufacturing] = No OR DK/RF	
<p>Does this campus or complex have a central physical plant that produces district hot water, district steam, district chilled water, or electricity?</p> <p>1 Yes 2 No</p>		HELP <F1>
<b>NEXT</b>	IF Yes → B46 [Plant produces district steam] IF No OR DK/RF: IF Building → C1 [Government owned] IF Common → C3 [Owner]	

<b>B46</b>	<b>Plant produces district steam</b>	<i>FACDST8</i>
<b>ASK</b>	IF Building OR Common IF B45 [Central physical plant] = Yes	
<p>Does the central physical plant produce... District steam?</p> <p>1 Yes 2 No</p>		HELP <F1>
<b>NEXT</b>	→ B47 [Plant produces district hot water]	

<b>B47</b>	<b>Plant produces district hot water</b>	<i>FACDHW8</i>
<b>ASK</b>	IF Building OR Common IF B45 [Central physical plant] = Yes	
<p>[Does the central physical plant produce...]</p> <p>District hot water?</p> <p>1 Yes 2 No</p>		HELP <F1>
<b>NEXT</b>	→ B48 [Plant produces district chilled water]	

<b>B48</b>	<b>Plant produces district chilled water</b>	<i>FACDCW8</i>
<b>ASK</b>	IF Building OR Common IF B45 [Central physical plant] = Yes	
<p>[Does the central physical plant produce...]</p> <p>District chilled water?</p> <p>1 Yes 2 No</p>		HELP <F1>
<b>NEXT</b>	→ B49 [Plant produces electricity]	

<b>B49</b>	<b>Plant produces electricity</b>	<i>FACELC8</i>
<b>ASK</b>	IF Building OR Common IF B45 [Central physical plant] = Yes	
<p>[Does the central physical plant produce...]</p> <p>Electricity?</p> <p>1 Yes 2 No</p>		HELP <F1>
<b>NEXT</b>	→ B50 [Central plant in building]	

ERROR B27	
<b>FAIL</b>	IF B45 [Central physical plant] = Yes & B46 [Plant produces district steam] = No & B47 [Plant produces district hot water] = No & B48 [Plant produces district chilled water] = No & B49 [Plant produces electricity] = No
<b>FILL</b>	{Structure} IF Building = "building" IF Common = "mall as a whole"
<p>I have recorded that this {Structure} has a central physical plant that produces district hot water, district steam, district chilled water, or electricity, but I have also recorded that none of these sources is produced. Which of these have I recorded incorrectly?</p>	

<b>B50</b>	<b>Central plant in building</b>	<i>BLDPLT8</i>
<b>ASK</b>	IF Building OR Common IF B45 [Central physical plant] = Yes	
<p>Is the central physical plant for this campus or complex located in the building?</p> <p>1 Yes 2 No</p>		HELP <F1>
<b>NEXT</b>	IF Building → C1 [Government owned] IF Common → C3 [Owner]	

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## SECTION C. OCCUPANCY AND OPERATING HOURS

<b>C1</b>	<b>Government owned</b>	GOVOWN8
<b>ASK</b>	IF Building OR Establishment OR Anchor	
<b>FILL</b>	<p><b>{BldgIntro}</b>  IF B38 [On a multibuilding complex] = Yes = "For the rest of this survey, I will be asking you only about the <u>building</u>, not the entire campus or complex."  OTHERWISE = BLANK</p> <p><b>{Structure}</b>  IF Building = "building"  IF Establishment OR Anchor = "establishment"</p> <p><b>{SchoolExample}</b>  IF B13 [Education type] = Elementary or middle school OR High school = ", such as a local school district"  OTHERWISE = BLANK</p>	
		HELP <F1>
	<p>{BldgIntro}</p> <p>Is this {Structure} owned by a government agency {SchoolExample}?</p> <p>1 Yes  2 No</p>	
<b>NEXT</b>	IF Yes → C2 [Type of government] IF No OR DK/RF → C3 [Owner]	

<b>C2</b>	<b>Type of government</b>	GOVTYP8
<b>ASK</b>	IF Building OR Establishment OR Anchor IF C1 [Government owned] = Yes	
		HELP <F1>
	<p>Is it owned by the Federal government, a State government, or a local government?</p> <p>1 Federal  2 State  3 Local</p>	
<b>NEXT</b>	IF CBECS Activity ≠ Education → C5 [Owner occupies] IF CBECS Activity = Education: IF Building → C6 [Number of businesses] IF Establishment OR Anchor → C12 [Occupied/vacant past 12 months]	

<b>C3</b>	<b>Owner</b>	OWNER8
<b>ASK</b>	All Structures IF C1 [Government owned] ≠ Yes	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Common = "mall as a whole" IF Establishment OR Anchor = "establishment"	
 SHOW CARD C1  Looking at this list, please tell me which of these best describes the owner of this {Structure}. <ol style="list-style-type: none"> <li>1 Property management company</li> <li>2 Other corporation, partnership, or LLC</li> <li>3 Religious organization</li> <li>4 Other non-profit organization</li> <li>5 Privately-owned school</li> <li>6 Individual owner(s)</li> <li>7 Other</li> </ol>		
<b>NEXT</b>	IF Anything except Other (1-6) → C5 [Owner occupies] IF Other (7) → C4 [Other owner] IF DK/RF: IF Building: IF B24 [Completely vacant] ≠ Yes → C6 [Number of businesses] IF B24 [Completely vacant] = Yes → C10 [Months in use past 12 months] IF Establishment OR Anchor → C12 [Occupied/vacant past 12 months] IF Common → C6 [Number of businesses]	

<b>C4</b>	<b>Other owner</b>
<b>ASK</b>	All Structures IF C3 [Owner] = Other
Please describe this other owner.  ◆ RECORD in open box	
<b>NEXT</b>	→ C5 [Owner occupies]

<b>C5</b>	<b>Owner occupies</b>	OWNOCC8
<b>ASK</b>	All Structures IF (C1 [Government owned] = Yes & CBECS Activity ≠ Education) OR C3 [Owner] ≠ DK/RF	
<b>FILL</b>	<b>{Owner}</b> IF C2 [Type of government] = Federal = “the Federal government” IF C2 [Type of government] = State = “the State government” IF C2 [Type of government] = Local = “the local government” IF C2 [Type of government] = DK/RF = “the government” IF C3 [Owner] = Property management company OR Other corporation, partnership, or LLC = “this company” IF C3 [Owner] = Religious organization OR Other non-profit organization OR Privately-owned school = “this organization” IF C3 [Owner] = Individual owner(s) OR Other = “this owner” <b>{Structure}</b> IF Building = “building” IF Common = mall IF Establishment OR Anchor = “establishment”	
Does {Owner} occupy any space in the {Structure}?  1 Yes 2 No		
<b>NEXT</b>	IF Building: IF B24 [Completely vacant] ≠ Yes → C6 [Number of businesses] IF B24 [Completely vacant] = Yes → C10 [Months in use past 12 months] IF Establishment OR Anchor → C12 [Occupied/vacant past 12 months] IF Common → C6 [Number of businesses]	

<b>C6</b>	<b>Number of businesses</b>	NOCC8
<b>ASK</b>	IF Building OR Common IF Building & B24 [Completely vacant] ≠ Yes IF Common	
<b>FILL</b>	<b>{Structure}</b> IF Building = “building” IF Common = “mall as a whole”	
<b>RANGE</b>	0 to 9,999	
HELP <F1>		
How many businesses or organizations are there in the {Structure}?		
<b>NEXT</b>	IF Zero → C7 [Any occupants] IF DK/RF → C9 [Number of businesses category] IF Number given → C10 [Months in use past 12 months]	

WARNING C1	
<b>FAIL</b>	IF A1 [Square footage] ÷ C6 [Number of businesses] < 150 & CBECS Activity ≠ Warehouse OR Nonrefrigerated warehouse
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Common = "mall as a whole" <b>{SqFt}</b> = "A1 [Square footage]" <b>{NumOcc}</b> = "C6 [Number of businesses]"
<p>I have recorded that this {Structure} is {SqFt} square feet. {NumOcc} businesses seems like a lot for this square footage. Please let me verify what I have recorded.</p>	

WARNING C2	
<b>FAIL</b>	IF Common & C6 [Number of businesses] < 5
<b>FILL</b>	<b>{NumOcc}</b> = "C6 [Number of businesses]"
<p>I have recorded that there are only {NumOcc} businesses in this mall. Please let me verify what I have recorded.</p>	

<b>C7</b>	<b>Any occupants</b>	<i>VACCHK8</i>
<b>ASK</b>	IF Building OR Common IF C6 [Number of businesses] = Zero	
		HELP <F1>
<p>I do not have this building recorded as being completely vacant. At this time, is any space occupied by a company, business, school, organization, non-profit company, religious organization, government agency or establishment?</p> <p style="margin-left: 40px;">1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → C8 [Number of businesses] IF No → C10 [Months in use past 12 months] IF DK/RF → C9 [Number of businesses category]	

<b>C8</b>	<b>Number of businesses</b>	NOCC28
<b>ASK</b>	IF Building OR Common IF C6 [Number of businesses] = Zero & C7 [Any occupants] = Yes	
		HELP <F1>
How many businesses or organizations are there?		
<b>RANGE</b>	1 to 9,999	
<b>NEXT</b>	IF DK/RF → C9 [Number of businesses category] IF Number given → C10 [Months in use past 12 months]	

<b>WARNING C3</b>		
<b>FAIL</b>	IF A1 [Square footage] ÷ C8 [Number of businesses] < 150 & CBECS Activity ≠ Warehouse OR Nonrefrigerated warehouse	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Common = "mall as a whole" <b>{SqFt}</b> = "A1 [Square footage]" <b>{NumOcc}</b> = "C8 [Number of businesses]"	
I have recorded that this {Structure} is {SqFt} square feet and {NumOcc} businesses seems like a lot for this square footage. Please let me verify what I have recorded.		

<b>C9</b>	<b>Number of businesses category</b>	NOCCAT8
<b>ASK</b>	IF Building OR Common IF C6 [Number of businesses] = DK/RF OR C7 [Any occupants] = DK/RF OR C8 [Number of businesses] = DK/RF	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Common = "mall as a whole"	
		HELP <F1>
 SHOW CARD C2		
Which category on this list best describes the number of businesses or organizations that currently occupy this {Structure}?		
0 Zero 1 One 2 2 to 5 3 6 to 10 4 11 to 20 5 21 to 50 6 51 to 100 7 More than 100		
<b>NEXT</b>	→ C10 [Months in use past 12 months]	

<b>C10</b>	<b>Months in use past 12 months</b>	<i>MONUSE8</i>
<b>ASK</b>	IF Building OR Common	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Common = "mall as a whole"	
		HELP <F1>
Thinking of the past 12 months, for how many months was this {Structure} in use?		
<b>RANGE</b>	0 to 12	
<b>NEXT</b>	IF Zero → D1 [Uses of energy] IF 1-3 months: IF B24 [Completely vacant] = Yes OR C7 [Any occupants] = No OR C9 [Number of businesses category] = Zero → D1 [Uses of energy] OTHERWISE → C14 [Open 24 hours a day] IF 4-12 months OR DK/RF → C11 [Space vacant 3 months in row]	

<b>WARNING C4</b>		
<b>FAIL</b>	IF C8 [Months in use] = Zero & CBECS Activity is anything EXCEPT Vacant, Nonrefrigerated warehouse, Refrigerated warehouse, OR Other	
<b>FILL</b>	<b>{Activity}</b> IF Common = "a mall" IF Data center = "a data center building" IF Education = "an education building" IF Food sales = "a food sales building" IF Food service = "a food service building" IF Inpatient health care = "a health care building" IF Laboratory = "a laboratory building" IF Lodging = "a lodging building" IF Nursing = "a nursing building" IF Office = "an office building" IF Outpatient health care = "a health care building" IF Public assembly = "a public assembly building" IF Public order and safety = "a public order and safety building" IF Religious worship = "a religious worship building" IF Retail = "a retail building" IF Service = "a service building"	
I have recorded that this is {Activity} and that it was not in use at all in the past 12 months. It is unusual for {Activity} to not be in use for at least some portion of the year. Please let me verify what I have recorded.		

<b>C11</b>	<b>Space vacant 3 months in row</b>	<i>PORVAC8</i>
<b>ASK</b>	IF Building OR Common IF C10 [Months in use past 12 months] = 4-12 OR DK/RF	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Common = "mall as a whole"	
		HELP <F1>
Was any space in the {Structure} vacant or unoccupied for at least 3 <u>consecutive</u> months during the past 12 months?		
1 Yes 2 No		
<b>NEXT</b>	IF B24 [Completely vacant] = Yes OR C7 [Any occupants] = No OR C9 [Number of businesses category] = Zero → D1 [Uses of energy] OTHERWISE → C14 [Open 24 hours a day]	

<b>WARNING C5</b>	
<b>FAIL</b>	IF CBECS Activity = Vacant & C9 [Space vacant three months in a row] = No
I have recorded that this is a vacant building, but that no portion of the building was vacant for 3 consecutive months. Please let me verify what I have recorded.	

<b>C12</b>	<b>Occupied/vacant past 12 months</b>	<i>ESTOCC8</i>
<b>ASK</b>	IF Establishment OR Anchor	
<b>FILL</b>	<b>{VacOcc}</b> IF CBECS Activity = Vacant = "been vacant" IF CBECS Activity ≠ Vacant = "occupied this same space"	
Has this establishment {VacOcc} for the past 12 months?		
1 Yes 2 No		
<b>NEXT</b>	IF Yes: IF CBECS Activity = Vacant → D1 [Uses of energy] IF CBECS Activity ≠ Vacant → C14 [Open 24 hours a day] IF No → C13 [Month occupied/vacant] IF DK → D1 [Uses of energy]	

<b>C13</b>	<b>Month occupied/vacant</b>	<i>MONOCC8</i>
<b>ASK</b>	IF Establishment OR Anchor IF C10 [Occupied vacant past 12 months] = No	
<b>FILL</b>	<b>{VacOcc}</b> IF CBECS Activity = Vacant = "become vacant" OTHERWISE = "begin occupying this space"	
<p>In what month and year did this establishment {VacOcc}?</p> <ol style="list-style-type: none"> <li>1 September 2002</li> <li>2 October 2002</li> <li>3 November 2002</li> <li>4 December 2002</li> <li>5 January 2003</li> <li>6 February 2003</li> <li>7 March 2003</li> <li>8 April 2003</li> <li>9 May 2003</li> <li>10 June 2003</li> <li>11 July 2003</li> <li>12 August 2003</li> <li>13 September 2003</li> <li>14 October 2003</li> <li>15 November 2003</li> <li>16 December 2003</li> <li>17 January 2004</li> <li>18 February 2004</li> </ol>		
<b>NEXT</b>	IF CBECS Activity = Vacant → D1 [Uses of energy] OTHERWISE → C14 [Open 24 hours a day]	

<b>C14</b>	<b>Open 24 hours a day</b>	<i>OPEN248</i>
<b>ASK</b>	All Structures IF B24 [Completely vacant] ≠ Yes & C7 [Any occupants] ≠ No & C9 [Number of businesses category] ≠ Zero & C10 [Months in use past 12 months] ≠ Zero & NOT (Establishment OR Anchor with CBECS Activity = Vacant)	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
HELP <F1>		
<p>Now I have some questions about the hours that this {Structure} is normally open.</p> <p>"Normally open" means the hours when the usual activities occur. Do <u>not</u> consider the {Structure} to be open if <u>only</u> maintenance, housekeeping, or security personnel are present.</p> <p>Is this {Structure} normally open 24 hours a day, seven days a week?</p> <ol style="list-style-type: none"> <li>1 Yes</li> <li>2 No</li> </ol>		
<b>NEXT</b>	IF Yes → C20 [Number of employees] IF No OR DK/RF → C15 [Open during week]	

<b>C15</b>	<b>Open during week</b>	<i>OPNMF8</i>
<b>ASK</b>	All Structures IF C14 [Open 24 hours a day] = No OR DK/RF	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
		HELP <F1>
Thinking of Monday through Friday, is this {Structure} open all five days, open some of these days, or is it not open at all Monday through Friday?		
<ul style="list-style-type: none"> <li>1 All five days</li> <li>2 Some of these days</li> <li>3 Not open at all Monday through Friday</li> </ul>		
<b>NEXT</b>	→ C16 [Open on weekend]	

<b>C16</b>	<b>Open on weekend</b>	<i>OPNWE8</i>
<b>ASK</b>	All Structures IF C14 [Open 24 hours a day] = No OR DK/RF	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
		HELP <F1>
Is this {Structure} normally open at all on the weekend?		
<ul style="list-style-type: none"> <li>◆ EXP: [If only open one day of the weekend, consider to be open.]</li> </ul> <ul style="list-style-type: none"> <li>1 Yes</li> <li>2 No</li> </ul>		
<b>NEXT</b>	IF C15 [Open during week] = Not open at all Monday through Friday (3) & C16 [Open on weekend] = No → C17 [No operating hours] OTHERWISE → C18 [Total hours open per week]	

<b>C17</b>	<b>No operating hours</b>	<i>NOHRS8</i>
<b>ASK</b>	All Structures IF C15 [Open during week] = Not open at all Monday through Friday & C16 [Open on weekend] = No	
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
		HELP <F1>
	I would just like to confirm that this {Structure} does not have any normal operating hours?	
	<ul style="list-style-type: none"> <li>1 True, no operating hours</li> <li>2 False, there are operating hours</li> </ul>	
<b>NEXT</b>	IF True, no operating hours (1) → C20 [Number of employees] IF False, there are operating hours (2) OR DK/RF → C18 [Total hours open per week]	

<b>C18</b>	<b>Total hours open per week</b>	<i>WKHRS8</i>
<b>ASK</b>	All Structures IF (C15 [Open during week] = All five days OR Some of these days) OR C16 [Open on weekend] = Yes OR C17 [No operating hours] = False, there are operating hours	
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
		HELP <F1>
	How many total hours per week is the {Structure} normally open?	
	<ul style="list-style-type: none"> <li>◆ DEF: ["Normally open" means the hours when the usual activities occur.]</li> <li>◆ EXP: [If the hours vary for different parts of the building, ask for the hours for most of the building, based on square footage.]</li> </ul>	
<b>RANGE</b>	0 to 168	
<b>NEXT</b>	Number given → C20 [Number of employees] DK/RF → C19 [Weekly hours category]	

WARNING C6	
<b>FAIL</b>	IF C17 [No operating hours] = False, there are operating hours & C18 [Total hours open per week] = Zero
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"
I have recorded that this {Structure} does have operating hours but that the weekly hours of operation are zero. Please let me verify what I have recorded.	

WARNING C7	
<b>FAIL</b>	IF C18 [Total hours open per week] = Zero & C15 [Open during week] = All five days OR Some of these days OR C16 [Open on weekend] = Yes
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"
I have recorded that this {Structure} is open either during the week or on the weekend but that the weekly hours of operation are zero. Please let me verify what I have recorded.	

WARNING C8	
<b>FAIL</b>	IF C18 [Total hours open per week] > 48 & C15 [Open during week] = Not open at all Monday through Friday
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area" {WeeklyHrs} = "C18 [Total hours open per week]"
I have recorded that this {Structure} is not open at all Monday through Friday, but it is open a total of {WeeklyHrs} hours per week. If it is not open at all Monday through Friday, it is not possible to be open more than 48 hours per week. Please let me verify what I have entered.	

WARNING C9	
<b>FAIL</b>	IF C18 [Total hours open per week] > 120 & C16 [Open on weekend] = No
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area" <b>{WeeklyHrs}</b> = "C18 [Total hours open per week]"
<p>I have recorded that this {Structure} is not open at all on weekends, but that it is open {WeeklyHrs} hours per week. If it is not open at all on weekends, it is not possible be open more than 120 hours per week. Please let me verify what I have entered.</p>	

WARNING C10	
<b>FAIL</b>	IF C18 [Total hours open per week] = 168 & C15 [Open during week] ≠ All five days & C16 [Open on weekend] ≠ Yes
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"
<p>I have recorded that this {Structure} is open 168 hours per week, which means it is open 24 hours a day, but I have not recorded that it is open all week and on the weekend. Please let me verify what I have entered.</p>	

WARNING C11	
<b>FAIL</b>	IF C18 [Total hours open per week] < 40 & CBECS Activity = Inpatient health care OR Lodging OR Nursing OR Public order and safety
<b>FILL</b>	<b>{Activity}</b> IF Inpatient health care = "a health care" IF Lodging = "a lodging" IF Nursing = "a nursing" IF Public order and safety = "a public order and safety" <b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" <b>{WeeklyHrs}</b> = "C18 [Total hours open per week]"
<p>I have recorded that this is {Activity} {Structure} and that it is used {WeeklyHrs} hours per week. It is unusual for this type of {Structure} to be used this few hours. Please let me verify what I have recorded.</p>	

**WARNING C12**

<b>FAIL</b>	IF C17 [No operating hours] = True, no operating hours OR C18 [Total hours open per week] = Zero & CBECS Activity is anything EXCEPT Vacant, Nonrefrigerated warehouse, Refrigerated warehouse, OR Other
<b>FILL</b>	<b>{Activity}</b> IF Common = "a mall" IF Data center = "a data center building" IF Education = "an education building" IF Food sales = "a food sales building" IF Food service = "a food service building" IF Inpatient health care = "a health care building" IF Laboratory = "a laboratory building" IF Lodging = "a lodging building" IF Nursing = "a nursing building" IF Office = "an office building" IF Outpatient health care = "a health care building" IF Public assembly = "a public assembly building" IF Public order and safety = "a public order and safety building" IF Religious worship = "a religious worship building" IF Retail = "a retail building" IF Service = "a service building" <b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = BLANK
I have recorded that this is {Activity} {Structure} and that it is not open at all during the week. It is unusual for a {Activity} {Structure} not to be open at all during the week. Please let me verify what I have recorded.	

<b>C19</b>	<b>Weekly hours category</b>	<i>WKHRSC8</i>
<b>ASK</b>	All Structures IF C18 [Total hours open per week] = DK/RF	
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
		HELP <F1>
 SHOW CARD C3		
<p>Which category on this list best describes the total hours per week that the {Structure} is normally open?</p> <ul style="list-style-type: none"> <li>◆ DEF: ["Normally open" means the hours when the usual activities occur.]</li> <li>◆ EXP: [If the hours vary for different parts of the building, ask for the hours for most of the building, based on square footage.]</li> </ul> <p>1 1 to 39 2 40 to 48 3 49 to 60 4 61 to 84 5 85 to 167 6 168</p>		
<b>NEXT</b>	→ C20 [Number of employees]	

<b>C20</b>	<b>Number of employees</b>	<i>NWKER8</i>
<b>ASK</b>	All Structures IF B24 [Completely vacant] ≠ Yes & C7 [Any occupants] ≠ No & C9 [Number of businesses category] ≠ Zero & C10 [Months in use past 12 months] ≠ Zero & NOT (Establishment OR Anchor with CBECs Activity = Vacant)	
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
		HELP <F1>
<p>How many employees work <u>in the {Structure}</u> during the main shift, that is, when most employees are present?</p> <ul style="list-style-type: none"> <li>◆ EXP: [Include any volunteer workers. Do not include employees who always work outside the building (such as drivers with delivery routes), customers, patients, students, or institutionalized residents.]</li> </ul>		
<b>RANGE</b>	0 to 99,999	
<b>NEXT</b>	Number given → D1 [Uses of energy] DK/RF → C21 [Number of employees category]	

WARNING C13	
<b>FAIL</b>	IF A1 [Square footage] ÷ C20 [Number of employees] < 50
<b>FILL</b>	<p><b>{Structure}</b>  IF Building = "building"  IF Establishment OR Anchor = "establishment"  IF Common = "common area"  <b>{SqFt}</b> = "A1 [Square footage]"  <b>{Employees}</b> = "C18 [Number of employees]"  <b>{Remind}</b>  IF CBECS Activity = Education = "Remember that we are interested in workers, not students."  IF CBECS Activity = Religious worship = "Remember that we are interested in workers, not attendees."  OTHERWISE = BLANK</p>
<p>I have recorded that this {Structure} is {SqFt} square feet and that it has {Employees} employees. This seems like a lot of employees for this square footage. {Remind} Please let me verify what I have recorded.</p>	

C21	Number of employees category	NWKERC8
<b>ASK</b>	All Structures IF C20 [Number of employees] = DK/RF	
<b>FILL</b>	<p><b>{Structure}</b>  IF Building = "building"  IF Establishment OR Anchor = "establishment"  IF Common = "common area"</p>	
<p> SHOW CARD C4</p> <p>Which category on this list best describes how many employees work <u>in the {Structure}</u> during the main shift?</p> <ol style="list-style-type: none"> <li>1 None</li> <li>2 1 to 4</li> <li>3 5 to 9</li> <li>4 10 to 19</li> <li>5 20 to 49</li> <li>6 50 to 99</li> <li>7 100 to 249</li> <li>8 250 to 499</li> <li>9 500 to 999</li> <li>10 1,000 to 2,499</li> <li>11 2,500 to 4,999</li> <li>12 5,000 or More</li> </ol>		HELP <F1>
<b>NEXT</b>	→ D1 [Uses of energy]	

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## SECTION D. ENERGY USE AND EQUIPMENT

<b>D1</b>	<b>Uses of energy</b>	<i>see below</i>														
<b>ASK</b>	All Structures															
<b>FILL</b>	<p><b>{Worksheet1Intro}</b>  IF R has Worksheet 1 = "Please continue to refer to Worksheet 1 for some of these next questions on energy sources, uses, and equipment."  OTHERWISE = BLANK  <b>{Structure}</b>  IF Building = "building"  IF Establishment OR Anchor = "establishment"  IF Common = "mall as a whole"</p>															
<p> SHOW CARD D1</p> <p>{Worksheet1Intro}</p> <p>Looking at the first list on this card, please tell me if energy was used for any of these purposes in this {Structure} in the past 12 months.</p> <ul style="list-style-type: none"> <li>◆ PROBE for any others</li> <li>◆ ENTER all that apply</li> </ul> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">1 Heating the building</td> <td style="text-align: right;"><i>HT18</i></td> </tr> <tr> <td>2 Air conditioning</td> <td style="text-align: right;"><i>COOL8</i></td> </tr> <tr> <td>3 Domestic hot water heating</td> <td style="text-align: right;"><i>WATR8</i></td> </tr> <tr> <td>4 Commercial or institutional cooking or food serving</td> <td style="text-align: right;"><i>COOK8</i></td> </tr> <tr> <td>5 Manufacturing</td> <td style="text-align: right;"><i>MANU8</i></td> </tr> <tr> <td>6 IF VOLUNTEERED: None of these uses, but some energy used</td> <td></td> </tr> <tr> <td>9 IF VOLUNTEERED: No energy used in the past 12 months</td> <td></td> </tr> </table>		1 Heating the building	<i>HT18</i>	2 Air conditioning	<i>COOL8</i>	3 Domestic hot water heating	<i>WATR8</i>	4 Commercial or institutional cooking or food serving	<i>COOK8</i>	5 Manufacturing	<i>MANU8</i>	6 IF VOLUNTEERED: None of these uses, but some energy used		9 IF VOLUNTEERED: No energy used in the past 12 months		HELP <F1>
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<b>NEXT</b>	IF No energy used in past 12 months (9) → D2 [No energy used] Anything else (1-6) → D4 [Electricity generation capability]															

WARNING D1	
<b>FAIL</b>	IF Heating NOT IN D1 [Uses of energy] & CBECS Activity = Education; Inpatient health care; Outpatient health care; Lodging; Nursing; OR Office
<b>FILL</b>	<b>{Activity}</b> IF Education = "an education" IF Inpatient health care = "a health care" IF Outpatient health care = "a health care" IF Lodging = "a lodging" IF Nursing = "a nursing" IF Office = "an office" <b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"
<p>I have recorded that this is {Activity} {Structure} that did not use any energy for heating in the past 12 months. Please let me verify what I have recorded.</p>	

WARNING D2	
<b>FAIL</b>	IF Cooling NOT IN D1 [Uses of energy] & CBECS Activity = Inpatient health care OR Data center
<b>FILL</b>	<b>{Activity}</b> IF Inpatient health care = "a health care" IF Data center = "a data center" <b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"
<p>I have recorded that this is {Activity} {Structure} that did not use any energy for cooling in the past 12 months. Please let me verify what I have recorded.</p>	

WARNING D3	
<b>FAIL</b>	IF Water heating NOT IN D1 [Uses of energy] & CBECS Activity = Food service; Inpatient health care; Lodging; OR Office
<b>FILL</b>	<b>{Activity}</b> IF Food service = "a food service" IF Inpatient health care = "a health care" IF Lodging = "a lodging" IF Office = "an office" <b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"
<p>I have recorded that this is {Activity} {Structure} that did not use any energy to produce hot water in the past 12 months. Please let me verify what I have entered.</p>	

WARNING D4	
<b>FAIL</b>	IF Cooking NOT IN D1 [Uses of energy] & CBECS Activity = Food service OR Nursing OR (B13 [Education type] = Elementary or middle school OR High school & B36 [On a multibuilding complex ≠ Yes)
<b>FILL</b>	<b>{Activity}</b> IF Food service = “a food service” IF Lodging = “a lodging” IF Education = “an education” <b>{Structure}</b> IF Building = “building” IF Establishment OR Anchor = “establishment”
I have recorded that this is {Activity} {Structure} that did not use any energy for cooking in the past 12 months. Please let me verify what I have recorded.	

WARNING D5	
<b>FAIL</b>	IF Cooking NOT IN D1 [Uses of energy] & A3 {Food court = Yes}
I have recorded that there is a food court in this mall, but that the mall did not use any energy for cooking in the past 12 months. Be sure to consider the food court in your response. Please let me verify what I have recorded.	

<b>D2</b>	<b>No energy used</b>	<i>NOENGY8</i>
<b>ASK</b>	All Structures IF D1 [Uses of energy] = No energy used in past 12 months	
<b>FILL</b>	<b>{Structure}</b> IF Building = “building” IF Establishment OR Anchor = “establishment” IF Common = “mall as a whole”	
I just need to double check, is it correct that <u>no energy</u> was used in this {Structure} in the past 12 months?		
<ol style="list-style-type: none"> <li>1 True, no energy was used</li> <li>2 False, some energy was used in the past 12 months</li> </ol>		
<b>NEXT</b>	IF True, no energy was used (1) OR DK/RF → E51 [Window glass type] IF False, some energy was used in the past 12 months → D3 [Re-ask energy uses]	

<b>D3</b>	<b>Re-ask energy uses</b>
<b>ASK</b>	All Structures IF D2 [No energy used] = False, some energy was used in the past 12 months
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole"
<p>If there was any energy used in this {Structure}, then it must have been used for some purpose. I need to re-read the question about how energy was used.</p> <p>◆ ENTER "1" to continue</p>	
<b>NEXT</b>	➔ Return to D1 [Uses of energy]

<b>D4</b>	<b>Electricity generation capability</b>	<i>CAPGEN8</i>
<b>ASK</b>	All Structures IF D1 [Uses of energy] ≠ No energy used in past 12 months	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole"	
<p>Does this {Structure} have the ability to generate electricity, including for emergency backup?</p> <p>1 Yes 2 No</p>		HELP <F1>
<b>NEXT</b>	➔ D5 [Energy sources used]	

<b>D5</b>	<b>Energy sources used</b>	<i>see below</i>																											
<b>ASK</b>	All Structures IF D1 [Uses of energy] ≠ No energy used in past 12 months																												
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole"																												
		HELP <F1>																											
 SHOW CARD D1																													
<p>Looking at the second list on this card, please tell me which of these energy sources were used <u>in this {Structure}</u> for any purpose in the past 12 months.</p> <ul style="list-style-type: none"> <li>◆ EXP: [Include fuel oil, diesel, or kerosene if it was purchased or delivered in the past 12 months, even if it was not used during that time.]</li> <li>◆ EXP: [Do not include any fuels used in vehicles outside the building.]</li> <li>◆ PROBE for any others</li> <li>◆ ENTER all that apply</li> </ul> <table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">11</td> <td style="width: 80%;">Electricity</td> <td style="width: 10%; text-align: right;"><i>ELUSED8</i></td> </tr> <tr> <td>12</td> <td>Natural gas</td> <td style="text-align: right;"><i>NGUSED8</i></td> </tr> <tr> <td>13</td> <td>Fuel oil, diesel, or kerosene</td> <td style="text-align: right;"><i>FKUSED8</i></td> </tr> <tr> <td>14</td> <td>Bottled gas, also known as LPG or propane</td> <td style="text-align: right;"><i>PRUSED8</i></td> </tr> <tr> <td>15</td> <td>District steam piped in from a separate building or utility</td> <td style="text-align: right;"><i>STUSED8</i></td> </tr> <tr> <td>16</td> <td>District hot water piped in from a separate building or utility</td> <td style="text-align: right;"><i>HWUSED8</i></td> </tr> <tr> <td>17</td> <td>District chilled water piped in from a separate building or utility</td> <td style="text-align: right;"><i>CWUSED8</i></td> </tr> <tr> <td>18</td> <td>Wood, coal, or solar thermal panels</td> <td></td> </tr> <tr> <td>24</td> <td>Other source or sources</td> <td style="text-align: right;"><i>OTUSED8</i></td> </tr> </table>			11	Electricity	<i>ELUSED8</i>	12	Natural gas	<i>NGUSED8</i>	13	Fuel oil, diesel, or kerosene	<i>FKUSED8</i>	14	Bottled gas, also known as LPG or propane	<i>PRUSED8</i>	15	District steam piped in from a separate building or utility	<i>STUSED8</i>	16	District hot water piped in from a separate building or utility	<i>HWUSED8</i>	17	District chilled water piped in from a separate building or utility	<i>CWUSED8</i>	18	Wood, coal, or solar thermal panels		24	Other source or sources	<i>OTUSED8</i>
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<b>NEXT</b>	IF Fuel, oil, diesel, or kerosene (13) selected → D6 [Fuel oil, diesel, or kerosene] IF Wood, coal, or solar thermal panels (18) selected → D7 [Wood, coal, or solar] IF Other source or sources (24) selected → D8 [Other energy source 1] IF District steam or District hot water (15, 16) selected & Special facility → D11 [From central plant] IF DK/RF: IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] IF D4 [Electricity generation capability] ≠ Yes → E1 [Section E Routing] <b>OTHERWISE:</b> IF Heating IN D1 [Uses of energy] & Common → D13 [Responsible for heating] IF Heating IN D1 [Uses of energy] & NOT Common → D14 [Source for main heating] IF Cooling IN D1 [Uses of energy] & Common → D29 [Responsible cooling] IF Cooling IN D1 [Uses of energy] & NOT Common → D30 [Sources for cooling] IF Water heating IN D1 [Uses of energy] & Common → D44 [Responsible water heating] IF Water heating IN D1 [Uses of energy] & NOT Common → D45 [Sources for water heating] IF Cooking IN D1 [Uses of energy] & Common → D49 [Responsible cooking] IF Cooking IN D1 [Uses of energy] & NOT Common → D50 [Sources for cooking] IF Manufacturing IN D1 [Uses of energy] → D52 [Sources for manufacturing] IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] <b>OTHERWISE</b> → D60 [Any other sources]																												

WARNING D6	
<b>FAIL</b>	IF Electricity NOT IN D5 [Energy sources used] & CBECS Activity = Anything EXCEPT Vacant; Nonrefrigerated warehouse; OR Other
<b>FILL</b>	<p><b>{Activity}</b></p> <p>IF Common = "a mall"</p> <p>IF Data center = "a data center"</p> <p>IF Education = "an education"</p> <p>IF Food sales = "a food sales"</p> <p>IF Food service = "a food service"</p> <p>IF Inpatient health care = "a health care"</p> <p>IF Laboratory = "a laboratory"</p> <p>IF Lodging = "a lodging"</p> <p>IF Nonrefrigerated warehouse = "a warehouse"</p> <p>IF Nursing = "a nursing"</p> <p>IF Office = "an office"</p> <p>IF Outpatient health care = "a health care"</p> <p>IF Public assembly = "a public assembly"</p> <p>IF Public order and safety = "a public order and safety"</p> <p>IF Religious worship = "a religious worship"</p> <p>IF Retail = "a retail"</p> <p>IF Service = "a service"</p> <p><b>{Structure}</b></p> <p>IF Building = "building"</p> <p>IF Establishment OR Anchor = "establishment"</p> <p>IF Common = BLANK</p>
<p>I have recorded that this is {Activity} {Structure} that does not use electricity. Please let me confirm what I have recorded.</p>	

WARNING D7	
<b>FAIL</b>	IF District steam IN D5 [Energy sources used] & B44 [Plant produces district steam] = Yes & B48 [Central plant in building] = Yes
<p>I have recorded that this building contains a central plant that produces steam and that it also receives steam from a source outside the building. Please let me verify what I have recorded.</p>	

WARNING D8	
<b>FAIL</b>	IF District hot water IN D5 [Energy sources used] & B45 [Plant produces district hot water] = Yes & B48 [Central plant in building] = Yes
<p>I have recorded that this building contains a central plant that produces hot water and that it also receives hot water from a source outside the building. Please let me verify what I have recorded.</p>	

WARNING D9	
<b>FAIL</b>	IF District chilled water IN D5 [Energy sources used] & B46 [Plant produces district chilled water] = Yes & B48 [Central plant in building] = Yes
I have recorded that this building contains a central plant that produces chilled water and that it also receives chilled water from a source outside the building. Please let me verify what I have recorded.	

<b>D6</b>	<b>Fuel oil, diesel, or kerosene</b>	<i>FKTYPE8</i>
<b>ASK</b>	All Structures IF Fuel oil, diesel, or kerosene IN D5 [Energy sources used]	
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole"	
		HELP <F1>
<p>◆ VERIFY if volunteered in previous question</p> <p>You mentioned fuel oil, diesel, or kerosene. Which of these were used [in this {Structure} in the past 12 months]?</p> <p>◆ ENTER all that apply</p> <p>1 Fuel oil 2 Diesel 3 Kerosene</p>		
<b>NEXT</b>	IF Wood, coal, or solar thermal panels IN D5 [Energy sources used] → D7 [Wood, coal, or solar] IF Other source or sources IN D5 [Energy sources used] → D8 [Other energy source 1] IF District steam or District hot water IN D5 [Energy sources used] & Special facility → D11 [From central plant] <b>OTHERWISE:</b> IF Heating IN D1 [Uses of energy] & Common → D13 [Responsible for heating] IF Heating IN D1 [Uses of energy] & NOT Common → D14 [Source for main heating] IF Cooling IN D1 [Uses of energy] & Common → D29 [Responsible cooling] IF Cooling IN D1 [Uses of energy] & NOT Common → D30 [Sources for cooling] IF Water heating IN D1 [Uses of energy] & Common → D44 [Responsible water heating] IF Water heating IN D1 [Uses of energy] & NOT Common → D45 [Sources for water heating] IF Cooking IN D1 [Uses of energy] & Common → D49 [Responsible cooking] IF Cooking IN D1 [Uses of energy] & NOT Common → D50 [Sources for cooking] IF Manufacturing IN D1 [Uses of energy] → D52 [Sources for manufacturing] IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] <b>OTHERWISE</b> → D60 [Any other sources]	

<b>D7</b>	<b>Wood, coal, or solar</b>	<i>see below</i>									
<b>ASK</b>	All Structures IF Wood, coal, or solar thermal panels IN D5 [Energy sources used]										
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole"										
<p>◆ VERIFY if volunteered in previous question</p> <p>You mentioned wood, coal, or solar thermal panels. Which of these were used [in this {Structure} in the past 12 months]?</p> <p>◆ ENTER all that apply</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">1</td> <td style="width: 70%;">Wood</td> <td style="width: 20%; text-align: right;"><i>WOUSED8</i></td> </tr> <tr> <td>2</td> <td>Coal</td> <td style="text-align: right;"><i>COUSED8</i></td> </tr> <tr> <td>3</td> <td>Solar thermal panels</td> <td style="text-align: right;"><i>SOUSED8</i></td> </tr> </table>			1	Wood	<i>WOUSED8</i>	2	Coal	<i>COUSED8</i>	3	Solar thermal panels	<i>SOUSED8</i>
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3	Solar thermal panels	<i>SOUSED8</i>									
<b>NEXT</b>	IF Other source or sources IN D5 [Energy sources used] → D8 [Other energy source 1] IF District steam or District hot water IN D5 [Energy sources used] & Special facility → D11 [From central plant] <b>OTHERWISE:</b> IF Heating IN D1 [Uses of energy] & Common → D13 [Responsible for heating] IF Heating IN D1 [Uses of energy] & NOT Common → D14 [Source for main heating] IF Cooling IN D1 [Uses of energy] & Common → D29 [Responsible cooling] IF Cooling IN D1 [Uses of energy] & NOT Common → D30 [Sources for cooling] IF Water heating IN D1 [Uses of energy] & Common → D44 [Responsible water heating] IF Water heating IN D1 [Uses of energy] & NOT Common → D45 [Sources for water heating] IF Cooking IN D1 [Uses of energy] & Common → D49 [Responsible cooking] IF Cooking IN D1 [Uses of energy] & NOT Common → D50 [Sources for cooking] IF Manufacturing IN D1 [Uses of energy] → D52 [Sources for manufacturing] IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] <b>OTHERWISE → D60 [Any other sources]</b>										

<b>D8</b>	<b>Other energy source 1</b>	<i>OTUSDX18</i>
<b>ASK</b>	All Structures IF Other source or sources IN D5 [Energy sources used]	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole"	
<p>What was the first other energy source used [in this {Structure} in the past 12 months]?</p> <p>◆ ENTER the first energy source used</p>		
<b>NEXT</b>	→ D9 [Other energy source 2]	

<b>D9</b>	<b>Other energy source 2</b>	<i>OTUSDX28</i>
<b>ASK</b>	All Structures IF Other source or sources IN D5 [Energy sources used]	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole"	
<p>Were there any other energy sources used [in this {Structure} in the past 12 months]?</p> <ul style="list-style-type: none"> <li>◆ ENTER the next energy source</li> <li>◆ &lt;ENTER&gt; if no others</li> </ul>		
<b>NEXT</b>	IF Source entered here → D10 [Other energy source 3] IF No source entered here: IF District steam or District hot water IN D5 [Energy sources used] & Special facility → D11 [From central plant] <b>OTHERWISE:</b> IF Heating IN D1 [Uses of energy] & Common → D13 [Responsible for heating] IF Heating IN D1 [Uses of energy] & NOT Common → D14 [Source for main heating] IF Cooling IN D1 [Uses of energy] & Common → D29 [Responsible cooling] IF Cooling IN D1 [Uses of energy] & NOT Common → D30 [Sources for cooling] IF Water heating IN D1 [Uses of energy] & Common → D44 [Responsible water heating] IF Water heating IN D1 [Uses of energy] & NOT Common → D45 [Sources for water heating] IF Cooking IN D1 [Uses of energy] & Common → D49 [Responsible cooking] IF Cooking IN D1 [Uses of energy] & NOT Common → D50 [Sources for cooking] IF Manufacturing IN D1 [Uses of energy] → D52 [Sources for manufacturing] IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] <b>OTHERWISE → D60 [Any other sources]</b>	

<b>D10</b>	<b>Other energy source 3</b>	<i>OTUSDX38</i>
<b>ASK</b>	All Structures IF Source was entered in D9 [Other energy source 2]	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole"	
<p>Were there any other energy sources used [in this {Structure} in the past 12 months]?</p> <ul style="list-style-type: none"> <li>◆ ENTER the next energy source</li> <li>◆ &lt;ENTER&gt; if no others</li> </ul>		
<b>NEXT</b>	IF District steam or District hot water IN D5 [Energy sources used] & Special facility → D11 [From central plant] <b>OTHERWISE:</b> IF Heating IN D1 [Uses of energy] & Common → D13 [Responsible for heating] IF Heating IN D1 [Uses of energy] & NOT Common → D14 [Source for main heating] IF Cooling IN D1 [Uses of energy] & Common → D29 [Responsible cooling] IF Cooling IN D1 [Uses of energy] & NOT Common → D30 [Sources for cooling] IF Water heating IN D1 [Uses of energy] & Common → D44 [Responsible water heating] IF Water heating IN D1 [Uses of energy] & NOT Common → D45 [Sources for water heating] IF Cooking IN D1 [Uses of energy] & Common → D49 [Responsible cooking] IF Cooking IN D1 [Uses of energy] & NOT Common → D50 [Sources for cooking] IF Manufacturing IN D1 [Uses of energy] → D52 [Sources for manufacturing] IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] <b>OTHERWISE → D60 [Any other sources]</b>	

<b>D11</b>	<b>From central plant</b>	<i>DHFRPL8</i>
<b>ASK</b>	IF Special facility IF District steam or District hot water IN D5 [Energy sources used]	
<p>Is the district steam or hot water piped in from a central plant that is part of the same campus or complex as your building?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF No OR DK/RF → D12 [Purchase from offsite] IF Yes: IF Heating IN D1 [Uses of energy] & Common → D13 [Responsible for heating] IF Heating IN D1 [Uses of energy] & NOT Common → D14 [Source for main heating] IF Cooling IN D1 [Uses of energy] & Common → D29 [Responsible cooling] IF Cooling IN D1 [Uses of energy] & NOT Common → D30 [Sources for cooling] IF Water heating IN D1 [Uses of energy] & Common → D44 [Responsible water heating] IF Water heating IN D1 [Uses of energy] & NOT Common → D45 [Sources for water heating] IF Cooking IN D1 [Uses of energy] & Common → D49 [Responsible cooking] IF Cooking IN D1 [Uses of energy] & NOT Common → D50 [Sources for cooking] IF Manufacturing IN D1 [Uses of energy] → D52 [Sources for manufacturing] IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] OTHERWISE → D60 [Any other sources]	

<b>D12</b>	<b>Purchase from offsite</b>	<i>DHOFF8</i>
<b>ASK</b>	IF Special facility IF D11 [From central plant] = No OR DK/RF	
<p>Is it [the district steam or hot water] purchased from somewhere off-site, such as a commercial or municipal plant?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Heating IN D1 [Uses of energy] & Common → D13 [Responsible for heating] IF Heating IN D1 [Uses of energy] & NOT Common → D14 [Source for main heating] IF Cooling IN D1 [Uses of energy] & Common → D29 [Responsible cooling] IF Cooling IN D1 [Uses of energy] & NOT Common → D30 [Sources for cooling] IF Water heating IN D1 [Uses of energy] & Common → D44 [Responsible water heating] IF Water heating IN D1 [Uses of energy] & NOT Common → D45 [Sources for water heating] IF Cooking IN D1 [Uses of energy] & Common → D49 [Responsible cooking] IF Cooking IN D1 [Uses of energy] & NOT Common → D50 [Sources for cooking] IF Manufacturing IN D1 [Uses of energy] → D52 [Sources for manufacturing] IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] OTHERWISE → D60 [Any other sources]	

<b>D13</b>	<b>Responsible heating</b>	<i>RESPHT8</i>
<b>ASK</b>	IF Common IF Heating IN D1 [Uses of energy]	
<p>To what extent is the management of the mall responsible for the operation and maintenance of the heating equipment...</p> <p>Are they responsible for the whole mall, including the common area and all the individual establishments, responsible for only the common area, or are they responsible for the common area and some, but not all, of the establishments?</p> <ol style="list-style-type: none"> <li>1 Whole mall (common area and all establishments)</li> <li>2 Only common area</li> <li>3 Common area and some establishments</li> </ol>		
<b>NEXT</b>	➔ D14 [Source for main heating]	

<b>D14</b>	<b>Source for main heating</b>	<i>see below</i>																																							
<b>ASK</b>	All Structures IF Heating IN D1 [Uses of energy]																																								
<b>FILL</b>	<p><b>{Ht1SourcesList}</b> = List of all energy sources used  <b>{Structure}</b>  IF Building = "this building"  IF Establishment OR Anchor = "this establishment"  IF Common &amp; D13 [Responsible heating] = Whole mall OR DK/RF = "this mall"  IF Common &amp; D13 [Responsible heating] = Only common area = "the common area"  IF Common &amp; D13 [Responsible heating] = Common area and some establishments = "the common area and establishments"  <b>{Electricity}</b> – <b>{Other3}</b> = If a source is used, it appears in this list; if not, the line is blank  <b>{FuelOilType}</b> = Type or types specified in D6 [Fuel oil, diesel, or kerosene]  <b>{Other1}</b> – <b>{Other3}</b> = Sources specified in D8 [Other energy source 1] – D10 [Other energy source 3]</p> <p>What was the <u>main</u> energy source for heating? [Was it {Ht1SourcesList}?]</p> <ul style="list-style-type: none"> <li>◆ DEF: [The main energy source for heating is the energy source used to heat most of the square footage in {Structure} most of the time.]</li> <li>◆ EXP: [Do not include electricity if it is used only to run fan motors.]</li> <li>◆ Only sources already selected are shown here</li> </ul> <table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">11</td> <td style="width: 70%;">{Electricity}</td> <td style="width: 20%; text-align: right;"><i>ELHT18</i></td> </tr> <tr> <td>12</td> <td>{Natural gas}</td> <td style="text-align: right;"><i>NGHT18</i></td> </tr> <tr> <td>13</td> <td>{FuelOilType}</td> <td style="text-align: right;"><i>FKHT18</i></td> </tr> <tr> <td>14</td> <td>{Bottled gas}</td> <td style="text-align: right;"><i>PRHT18</i></td> </tr> <tr> <td>15</td> <td>{District steam}</td> <td style="text-align: right;"><i>STHT18</i></td> </tr> <tr> <td>16</td> <td>{District hot water}</td> <td style="text-align: right;"><i>HWHT18</i></td> </tr> <tr> <td>18</td> <td>{Wood}</td> <td style="text-align: right;"><i>WOHT18</i></td> </tr> <tr> <td>19</td> <td>{Coal}</td> <td style="text-align: right;"><i>COHT18</i></td> </tr> <tr> <td>20</td> <td>{Solar}</td> <td style="text-align: right;"><i>SOHT18</i></td> </tr> <tr> <td>21</td> <td>{Other1}</td> <td style="text-align: right;"><i>OTHT18</i></td> </tr> <tr> <td>22</td> <td>{Other2}</td> <td style="text-align: right;"><i>OTHT18</i></td> </tr> <tr> <td>23</td> <td>{Other3}</td> <td style="text-align: right;"><i>OTHT18</i></td> </tr> <tr> <td>24</td> <td>Some other energy source</td> <td></td> </tr> </table>		11	{Electricity}	<i>ELHT18</i>	12	{Natural gas}	<i>NGHT18</i>	13	{FuelOilType}	<i>FKHT18</i>	14	{Bottled gas}	<i>PRHT18</i>	15	{District steam}	<i>STHT18</i>	16	{District hot water}	<i>HWHT18</i>	18	{Wood}	<i>WOHT18</i>	19	{Coal}	<i>COHT18</i>	20	{Solar}	<i>SOHT18</i>	21	{Other1}	<i>OTHT18</i>	22	{Other2}	<i>OTHT18</i>	23	{Other3}	<i>OTHT18</i>	24	Some other energy source	
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<b>NEXT</b>	IF Some other energy source (24) → D15 [Other source for main heating] IF Anything but Some other energy source (11-23) OR DK/RF: IF More than one energy source used → D16 [Other sources for heating] IF Only one energy source used → D17 [Other sources for heating]																																								

<b>D15</b>	<b>Other source for main heating</b>	<i>see below</i>																														
<b>ASK</b>	All Structures IF D14 [Source for main heating] = Some other energy source																															
<p>What was the other energy source used for <u>main</u> space heating?</p> <table> <tr> <td>11</td> <td>Electricity</td> <td><i>ELHT18</i></td> </tr> <tr> <td>12</td> <td>Natural gas</td> <td><i>NGHT18</i></td> </tr> <tr> <td>13</td> <td>Fuel oil/Diesel/Kerosene</td> <td><i>FKHT18</i></td> </tr> <tr> <td>14</td> <td>Bottled gas</td> <td><i>PRHT18</i></td> </tr> <tr> <td>15</td> <td>District steam</td> <td><i>STHT18</i></td> </tr> <tr> <td>16</td> <td>District hot water</td> <td><i>HWHT18</i></td> </tr> <tr> <td>18</td> <td>Wood</td> <td><i>WOHT18</i></td> </tr> <tr> <td>19</td> <td>Coal</td> <td><i>COHT18</i></td> </tr> <tr> <td>20</td> <td>Solar</td> <td><i>SOHT18</i></td> </tr> <tr> <td>24</td> <td>Some other energy source</td> <td><i>OTHT18</i></td> </tr> </table>			11	Electricity	<i>ELHT18</i>	12	Natural gas	<i>NGHT18</i>	13	Fuel oil/Diesel/Kerosene	<i>FKHT18</i>	14	Bottled gas	<i>PRHT18</i>	15	District steam	<i>STHT18</i>	16	District hot water	<i>HWHT18</i>	18	Wood	<i>WOHT18</i>	19	Coal	<i>COHT18</i>	20	Solar	<i>SOHT18</i>	24	Some other energy source	<i>OTHT18</i>
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<b>NEXT</b>	➔ D16 [Other sources for heating]																															

<b>D16</b>	<b>Other sources for heating</b>	<i>HT28 &amp; see below</i>																																										
<b>ASK</b>	All Structures IF Heating IN D1 [Uses of energy] & More than one energy source used																																											
<b>FILL</b>	<p><b>{Ht2SourcesList}</b> = List of all energy sources used, minus the one used for main heating  <b>{Electricity} – {Other3}</b> = If a source is used (other than for main space heating), it appears in this list; if not, the line is blank  <b>{FuelOilType}</b> = Type or types specified in D6 [Fuel oil, diesel, or kerosene]  <b>{Other1} – {Other3}</b> = Sources specified in D8 [Other energy source 1] – D10 [Other energy source 3]</p> <p>Which other energy sources, if any, were used for heating? [{Ht2SourcesList}]</p> <ul style="list-style-type: none"> <li>◆ EXP: [Do not include electricity if it is used only to run fan motors.]</li> <li>◆ Only sources already selected are shown here</li> <li>◆ PROBE for any others</li> <li>◆ ENTER all that apply</li> </ul> <table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">11</td> <td style="width: 70%;">{Electricity}</td> <td style="width: 20%; text-align: right;"><i>ELHT28</i></td> </tr> <tr> <td>12</td> <td>{Natural gas}</td> <td style="text-align: right;"><i>NGHT28</i></td> </tr> <tr> <td>13</td> <td>{FuelOilType}</td> <td style="text-align: right;"><i>FKHT28</i></td> </tr> <tr> <td>14</td> <td>{Bottled gas}</td> <td style="text-align: right;"><i>PRHT28</i></td> </tr> <tr> <td>15</td> <td>{District steam}</td> <td style="text-align: right;"><i>STHT28</i></td> </tr> <tr> <td>16</td> <td>{District hot water}</td> <td style="text-align: right;"><i>HWHT28</i></td> </tr> <tr> <td>18</td> <td>{Wood}</td> <td style="text-align: right;"><i>WOHT28</i></td> </tr> <tr> <td>19</td> <td>{Coal}</td> <td style="text-align: right;"><i>COHT28</i></td> </tr> <tr> <td>20</td> <td>{Solar}</td> <td style="text-align: right;"><i>SOHT28</i></td> </tr> <tr> <td>21</td> <td>{Other1}</td> <td style="text-align: right;"><i>OTHT28</i></td> </tr> <tr> <td>22</td> <td>{Other2}</td> <td style="text-align: right;"><i>OTHT28</i></td> </tr> <tr> <td>23</td> <td>{Other3}</td> <td style="text-align: right;"><i>OTHT28</i></td> </tr> <tr> <td>24</td> <td>Some other energy source</td> <td></td> </tr> <tr> <td>99</td> <td>No other sources for heating</td> <td></td> </tr> </table>		11	{Electricity}	<i>ELHT28</i>	12	{Natural gas}	<i>NGHT28</i>	13	{FuelOilType}	<i>FKHT28</i>	14	{Bottled gas}	<i>PRHT28</i>	15	{District steam}	<i>STHT28</i>	16	{District hot water}	<i>HWHT28</i>	18	{Wood}	<i>WOHT28</i>	19	{Coal}	<i>COHT28</i>	20	{Solar}	<i>SOHT28</i>	21	{Other1}	<i>OTHT28</i>	22	{Other2}	<i>OTHT28</i>	23	{Other3}	<i>OTHT28</i>	24	Some other energy source		99	No other sources for heating	
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<b>NEXT</b>	IF Some other energy source (24) → D18 [Other source for heating] IF Anything but Some other energy source (11-23, 99) OR DK/RF → D19 [Percent heated]																																											

<b>WARNING D10</b>	
<b>FAIL</b>	IF Natural gas IN D5 [Energy sources used] & D14 [Source for main heating] = Electricity & D16 [Other sources for heating] = No other source for heating
I have recorded that natural gas is used but that electricity is the only energy source used for heating, which is an unusual situation. Please let me verify what I have recorded.	

<b>D17</b>	<b>Other sources for heating</b>	<i>HT28</i>
<b>ASK</b>	All Structures IF Heating IN D1 [Uses of energy] & Only one energy source used	
<p>Were there any other energy sources used for heating?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → D18 [Other source for heating] IF No OR DK/RF → D19 [Percent heated]	

<b>D18</b>	<b>Other source for heating</b>																														
<b>ASK</b>	All Structures IF D16 [Other sources for heating] = Some other energy source OR D17 [Other sources for heating] = Yes																														
<p>What was the other energy source used for secondary space heating?</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">11</td> <td style="width: 80%;">Electricity</td> <td style="width: 10%; text-align: right;"><i>ELHT28</i></td> </tr> <tr> <td>12</td> <td>Natural gas</td> <td style="text-align: right;"><i>NGHT28</i></td> </tr> <tr> <td>13</td> <td>Fuel oil/Diesel/Kerosene</td> <td style="text-align: right;"><i>FKHT28</i></td> </tr> <tr> <td>14</td> <td>Bottled gas</td> <td style="text-align: right;"><i>PRHT28</i></td> </tr> <tr> <td>15</td> <td>District steam</td> <td style="text-align: right;"><i>STHT28</i></td> </tr> <tr> <td>16</td> <td>District hot water</td> <td style="text-align: right;"><i>HWHT28</i></td> </tr> <tr> <td>18</td> <td>Wood</td> <td style="text-align: right;"><i>WOHT28</i></td> </tr> <tr> <td>19</td> <td>Coal</td> <td style="text-align: right;"><i>COHT28</i></td> </tr> <tr> <td>20</td> <td>Solar</td> <td style="text-align: right;"><i>SOHT28</i></td> </tr> <tr> <td>24</td> <td>Some other energy source</td> <td style="text-align: right;"><i>OTHT28</i></td> </tr> </table>		11	Electricity	<i>ELHT28</i>	12	Natural gas	<i>NGHT28</i>	13	Fuel oil/Diesel/Kerosene	<i>FKHT28</i>	14	Bottled gas	<i>PRHT28</i>	15	District steam	<i>STHT28</i>	16	District hot water	<i>HWHT28</i>	18	Wood	<i>WOHT28</i>	19	Coal	<i>COHT28</i>	20	Solar	<i>SOHT28</i>	24	Some other energy source	<i>OTHT28</i>
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<b>NEXT</b>	→ D19 [Percent heated]																														

**NOTE ON ENERGY SOURCES:**

Throughout the rest of this questionnaire, there will be references such as “Electricity used” or “Natural gas used.” In addition to the energy sources that were given in D5 [Energy sources used], if sources are added along the way, such as in D15 [Other source for main heating] OR D18 [Other source for heating], those sources are then also considered to be used.

<b>D19</b>	<b>Percent heated</b>	<i>HEATP8</i>
<b>ASK</b>	All Structures IF Heating IN D1 [Uses of energy]	
<b>FILL</b>	<p><b>{SqFt}</b>  IF Building OR Establishment OR Anchor &amp; A1 [Square footage] known = "A1 [Square footage]"  IF Common &amp; D13 [Responsible heating] = Whole mall, Common area and some establishments  OR DK/RF &amp; A1 [Square footage] known = "A1 [Square footage]"  IF Common &amp; D13 [Responsible heating] = Only common area &amp;  A6 [Common area square footage] known = "A6 [Common area square footage]"  IF (Building OR Establishment OR Anchor OR (Common &amp; D13 [Responsible heating] = Whole mall  OR Common area and some establishments OR DK/RF) &amp; A1 [Square footage] = DK/RF) OR  (Common &amp; D13 [Responsible heating] = Only common area  &amp; A6 [Common area square footage] = DK/RF) = "floorspace"</p> <p><b>{Structure}</b>  IF Building = "this building"  IF Establishment OR Anchor = "this establishment"  IF Common &amp; D13 [Responsible heating] = Whole mall OR DK/RF = "this mall"  IF Common &amp; D13 [Responsible heating] = Only common area = "the common area"  IF Common &amp; D13 [Responsible heating] = Common area and some establishments = "the common  area and establishments"</p>	
HELP <F1>		
<p>What percentage of the {SqFt} in {Structure} was heated to at least 50 degrees Fahrenheit in the past 12 months, including basements and enclosed garages if they were heated to at least 50 degrees?</p> <ul style="list-style-type: none"> <li>◆ If heated square footage is known, but not the percent, RECORD square footage in comments, then code DK</li> <li>◆ PROBE for estimate if DK</li> </ul>		
<b>RANGE</b>	0 to 100	
<b>NEXT</b>	IF Zero → D20 [Heated less than 50 degrees] IF Anything else → D21 [Heating equipment types]	

<b>D20</b>	<b>Heated to less than 50 degrees</b>	<i>HTLS508</i>
<b>ASK</b>	All Structures IF D19 [Percent heated] = Zero	
<b>FILL</b>	<b>{Structure}</b> IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common & D13 [Responsible heating] = Whole mall OR DK/RF = "this mall" IF Common & D13 [Responsible heating] = Only common area = "the common area" IF Common & D13 [Responsible heating] = Common area and some establishments = "the common area and establishments"	
Was any of {Structure} heated to less than 50 degrees Fahrenheit?  ◆ EXP: [Areas may be heated to less than 50 degrees to prevent pipes from freezing.]  1 Yes 2 No		
<b>NEXT</b>	IF Yes OR DK/RF → D21 [Heating equipment types] IF No: IF Cooling IN D1 [Uses of energy] & Common → D29 [Responsible cooling] IF Cooling IN D1 [Uses of energy] & NOT Common → D30 [Sources for cooling] IF Water heating IN D1 [Uses of energy] & Common → D44 [Responsible water heating] IF Water heating IN D1 [Uses of energy] & NOT Common → D45 [Sources for water heating] IF Cooking IN D1 [Uses of energy] & Common → D49 [Responsible cooking] IF Cooking IN D1 [Uses of energy] & NOT Common → D50 [Sources for cooking] IF Manufacturing IN D1 [Uses of energy] → D52 [Sources for manufacturing] IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] OTHERWISE → D60 [Any other sources]	

<b>WARNING D11</b>	
<b>FAIL</b>	IF Heating IN D1 [Uses of energy] & D19 [Percent heated] = 0 & D20 [Heated to less than 50 degrees] = No
I have recorded that energy is used for space heating but that zero percent of the floorspace is heated. If energy is used for space heating, then some portion should be heated. Please let me verify what I have recorded.	

<b>D21</b>	<b>Heating equipment types</b>	<i>see below</i>														
<b>ASK</b>	All Structures IF D19 [Percent heated] > 0 OR D20 [Heated less than 50 degrees] = Yes OR DK/RF															
<b>FILL</b>	{Structure} IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common & D13 [Responsible heating] = Whole mall OR DK/RF = "this mall" IF Common & D13 [Responsible heating] = Only common area = "the common area" IF Common & D13 [Responsible heating] = Common area and some establishments = "the common area and establishments"															
 SHOW CARD D2		HELP <F1>														
<p>Looking at this list of heating equipment types, please tell me which types are used in {Structure}.</p> <ul style="list-style-type: none"> <li>◆ RECORD in comments any extra information about the heating system that is volunteered</li> <li>◆ PROBE for any others</li> <li>◆ ENTER all that apply</li> </ul> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">1 Furnaces that heat air directly, without using steam or hot water</td> <td style="text-align: right;"><i>FURNAC8</i></td> </tr> <tr> <td>2 Boilers inside the building that produce steam or hot water</td> <td style="text-align: right;"><i>BOILER8</i></td> </tr> <tr> <td>3 Packaged heating units, other than heat pumps</td> <td style="text-align: right;"><i>PKGHT8</i></td> </tr> <tr> <td>4 Individual space heaters, other than heat pumps</td> <td style="text-align: right;"><i>SLFCO8</i></td> </tr> <tr> <td>5 Heat pumps</td> <td style="text-align: right;"><i>HTPMPH8</i></td> </tr> <tr> <td>6 District steam or hot water piped in from outside the building</td> <td style="text-align: right;"><i>STHW8</i></td> </tr> <tr> <td>7 Other heating equipment</td> <td style="text-align: right;"><i>OTHTEQ8</i></td> </tr> </table>			1 Furnaces that heat air directly, without using steam or hot water	<i>FURNAC8</i>	2 Boilers inside the building that produce steam or hot water	<i>BOILER8</i>	3 Packaged heating units, other than heat pumps	<i>PKGHT8</i>	4 Individual space heaters, other than heat pumps	<i>SLFCO8</i>	5 Heat pumps	<i>HTPMPH8</i>	6 District steam or hot water piped in from outside the building	<i>STHW8</i>	7 Other heating equipment	<i>OTHTEQ8</i>
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6 District steam or hot water piped in from outside the building	<i>STHW8</i>															
7 Other heating equipment	<i>OTHTEQ8</i>															
<b>NEXT</b>	IF More than one selected → D22 [Percent heated by type] IF Only one selected, assign as Main heating equipment. THEN: IF Heat pumps (5) → D24 [Heat pump heating system] IF Anything else but District steam or hot water (1-4, 7) & (A18 [Year of construction] < 1990 OR A19 [Year of construction category] ≠ 2000 to 2003) → D26 [Main heating replaced] OTHERWISE → D27 [Reduce heating] IF DK/RF → D27 [Reduce heating]															

**WARNING D12**

<b>FAIL</b>	IF Heat pumps IN D21 [Heating equipment types] & Electricity not used for heating
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I have recorded that a heat pump is used but I have not recorded electricity as an energy source for heating. It is unlikely that a heat pump is used if electricity is not used for heating. Please let me verify what I have recorded.

**ERROR D13**

<b>FAIL</b>	IF District steam or hot water IN D21 [Heating equipment types] & District steam OR District hot water not used for heating
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I have recorded that district steam or hot water as the heating equipment but I have not recorded steam or hot water as an energy source for heating. If the heating equipment is district steam or hot water, then either district steam or district hot water must be used as an energy source for heating. Please let me verify what I have recorded.

**WARNING D14**

<b>FAIL</b>	IF Boiler IN D21 [Heating equipment types] & District steam OR District hot water used as an energy source
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I have recorded that there is a boiler and that steam or hot water is received from outside the building. It is unusual to have a boiler if steam or hot water is received from outside the building. Please let me verify what I have recorded.

**WARNING D15**

<b>FAIL</b>	IF Boiler & District steam or hot water BOTH IN D21 [Heating equipment types]
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I have recorded that there is a boiler that produces steam or hot water and that district steam or hot water is piped in from the outside. It is unusual to have both. Please let me verify what I have recorded.

<b>D22</b>	<b>Percent heated by each type</b> <i>FURNP8, BOILP8, PKGHP8, SLFCNP8, HTPHP8, STHWP8, OTHTP8</i>
<b>ASK</b>	All Structures For each equipment type given in D21 [Heating equipment types]
<b>FILL</b>	<p><b>{Introduction}</b> IF First equipment = "The next questions are about the percent of floorspace heated by the equipment you just mentioned. Please keep in mind:" OTHERWISE = BLANK</p> <p><b>{Explanation}</b> IF First equipment and D19 [Percent heated] <math>\neq</math> 100 = "We are talking only about the <u>heated portion</u> of the floorspace, so these percents must add up to at least 100, but since more than one type of equipment can heat the same area, it is also possible for them to add up to <u>more</u> than 100." IF First equipment and D19 [Percent heated] = 100 = "These percents must add up to at least 100, but since more than one type of equipment can heat the same area, it is also possible for them to add up to <u>more</u> than 100." OTHERWISE = BLANK</p> <p><b>{Structure}</b> IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common &amp; D13 [Responsible heating] = Whole mall OR DK/RF = "this mall" IF Common &amp; D13 [Responsible heating] = Only common area = "the common area" IF Common &amp; D13 [Responsible heating] = Common area and some establishments = "the common area and establishments"</p> <p><b>{Equipment}</b> IF Furnaces that heat air directly IN D21 [Heating equipment types] = "furnace" IF Boilers inside the building IN D21 [Heating equipment types] = "boiler" IF Packaged heating units IN D21 [Heating equipment types] = "packaged heating" IF Individual space heaters IN D21 [Heating equipment types] = "space heater" IF Heat pumps IN D21 [Heating equipment types] = "heat pump" IF District steam or hot water IN D21 [Heating equipment types] = "district steam or hot water" IF Other heating equipment IN D21 [Heating equipment types] = "other heating equipment"</p>
 SHOW CARD D3  {Introduction}  {Explanation}  What percent of the heated area in {Structure} is served by the {Equipment}?  ◆ PROBE for estimate if DK	
<b>RANGE</b>	0 to 100
<b>NEXT</b>	IF There are equal maximum percents OR DK/RF → D23 [Main heating equipment] IF There is an equipment with a maximum percent, assign that equipment as the Main heating equipment [MAINHT8]. THEN: IF Heat pumps IN D21 [Heating equipment types] → D24 [Heat pump heating system] IF Main equipment NOT District steam or hot water & (A18 [Year of construction] < 1990 OR A21 [Year of construction category] $\neq$ 2000 to 2003) → D26 [Main heating replaced] OTHERWISE → D27 [Reduce heating]

WARNING D16	
<b>FAIL</b>	IF Any percent given in D22 [Percent heated by each type] = Zero
<b>FILL</b>	{Equipment} = {Equipment} from D22 [Percent heated by each type]
<p>I have recorded that a {Equipment} is used, but that zero percent of the floorspace is heated by this equipment. If the equipment is used, then it should heat some percent of the floorspace. Please let me verify what I have recorded.</p>	

ERROR D17	
<b>FAIL</b>	IF The sum of the percents given in D22 [Percent heated by each type] < 99
<p>The percents that I have entered do not add up to 100 and they must sum to 100 or more. Please let me verify these percents.</p> <p>&gt; Go to first percent and verify each one with the respondent</p>	

<b>D23</b>	<b>Main heating equipment</b>	<i>MNHTEQ8</i>
<b>ASK</b>	All Structures IF D22 [Percent heated by each type] has equal maximum percents OR DK/RF	
<b>FILL</b>	{EquipmentList} = List of the equipments with equal maximum percents {Furnace} – {Other heating equipment} = Each equipment with an equal maximum percent appears on this list; otherwise the line is blank	
<p>Which do you consider to be your main heating equipment – {EquipmentList} ?</p> <p>◆ Only equipment types with equal percentages are shown here</p> <ol style="list-style-type: none"> <li>1 {Furnace}</li> <li>2 {Boiler}</li> <li>3 {Packaged heating}</li> <li>4 {Space heater}</li> <li>5 {Heat pump}</li> <li>6 {District steam or hot water}</li> <li>7 {Other heating equipment}</li> </ol>		
<b>NEXT</b>	IF Heat pumps IN D21 [Heating equipment types] → D24 [Heat pump heating system] IF Main equipment NOT (District steam or hot water OR DK/RF) & (A18 [Year of construction] < 1990 OR A19 [Year of construction category] ≠ 2000 to 2003) → D26 [Main heating replaced] OTHERWISE → D27 [Reduce heating]	

<b>D24</b>	<b>Heat pump heating system</b>	<i>see below</i>									
<b>ASK</b>	All Structures IF Heat pumps IN D21 [Heating equipment types]										
<b>FILL</b>	<b>{Structure}</b> IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common & D13 [Responsible heating] = Whole mall OR DK/RF = "this mall" IF Common & D13 [Responsible heating] = Only common area = "the common area" IF Common & D13 [Responsible heating] = Common area and some establishments = "the common area and establishments"										
 SHOW CARD D4		HELP <F1>									
<p>Please look at the first list on this card and tell me which heat pump systems are used for heating in {Structure}.</p> <p>◆ ENTER all that apply</p> <table> <tr> <td>1</td> <td>Packaged unit</td> <td><i>PKGHPS8</i></td> </tr> <tr> <td>2</td> <td>Residential-type split system</td> <td><i>SPLHPS8</i></td> </tr> <tr> <td>3</td> <td>Individual room heat pump</td> <td><i>RMHPS8</i></td> </tr> </table>			1	Packaged unit	<i>PKGHPS8</i>	2	Residential-type split system	<i>SPLHPS8</i>	3	Individual room heat pump	<i>RMHPS8</i>
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2	Residential-type split system	<i>SPLHPS8</i>									
3	Individual room heat pump	<i>RMHPS8</i>									
<b>NEXT</b>	➔ D25 [Heat pump heating type]										

<b>D25</b>	<b>Heat pump heating type</b>	<i>see below</i>									
<b>ASK</b>	All Structures IF Heat pumps IN D21 [Heating equipment types]										
 SHOW CARD D4		HELP <F1>									
<p>Looking at the second list on this card, which types of heat pumps are these?</p> <p>◆ ENTER all that apply</p> <table> <tr> <td>1</td> <td>Air source heat pump</td> <td><i>AIRHPT8</i></td> </tr> <tr> <td>2</td> <td>Ground source or ground water heat pump</td> <td><i>GRDHPT8</i></td> </tr> <tr> <td>3</td> <td>Water loop heat pump</td> <td><i>WTRHPT8</i></td> </tr> </table>			1	Air source heat pump	<i>AIRHPT8</i>	2	Ground source or ground water heat pump	<i>GRDHPT8</i>	3	Water loop heat pump	<i>WTRHPT8</i>
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3	Water loop heat pump	<i>WTRHPT8</i>									
<b>NEXT</b>	IF Main heating equipment NOT District steam or hot water & NOT DK/RF & (A18 [Year of construction] < 1990 OR A19 [Year of construction category] ≠ 2000 to 2003) ➔ D26 [Main heating replaced] OTHERWISE ➔ D27 [Reduce heating]										

<b>D26</b>	<b>Main heating replaced</b>	<i>NWMNHT8</i>
<b>ASK</b>	All Structures IF Main heating equipment known & NOT District steam or hot water & (A18 [Year of construction] < 1990 OR A19 [Year of construction category] ≠ 2000 to 2003)	
<b>FILL</b>	<b>{MainHeatEquip}</b> IF Main heating equipment = Furnace = "Has the furnace" IF Main heating equipment = Boiler = "Has the boiler" IF Main heating equipment = Packaged heating = "Has the packaged heating unit" IF Main heating equipment = Individual space heater = "Have any of the individual space heaters" IF Main heating equipment = Heat pump = "Has the heat pump" IF Main heating equipment = Other = "Has the other type of heating equipment"	
{MainHeatEquip} been replaced since 1990?  ◆ EXP: [If there is more than one of this equipment type and at least one has been replaced, answer "Yes."]		
1 Yes 2 No		
<b>NEXT</b>	➔ D27 [Reduce heating]	

<b>D27</b>	<b>Reduce heating</b>	<i>RDHTNF8</i>
<b>ASK</b>	All Structures IF D19 [Percent heated] > 0 OR D20 [Heated less than 50 degrees] = Yes	
<b>FILL</b>	<p><b>{IsWhen}</b> IF C14 [Open 24 hours a day] = Yes OR C18 [Total hours open per week] = 168 OR C19 [Weekly hours category] = 168 = "In" OTHERWISE = "When"</p> <p><b>{Structure}</b> IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common &amp; D13 [Responsible heating] = Whole mall OR DK/RF = "this mall" IF Common &amp; D13 [Responsible heating] = Only common area = "the common area" IF Common &amp; D13 [Responsible heating] = Common area and some establishments = "the common area and establishments"</p> <p><b>{Is}</b> IF C14 [Open 24 hours a day] = Yes OR C18 [Total hours open per week] = 168 OR C19 [Weekly hours category] = 168 = BLANK IF Common &amp; D13 [Responsible heating] = Common area and some establishments = "are" OTHERWISE = "is"</p> <p><b>{Period}</b> IF C14 [Open 24 hours a day] = Yes OR C18 [Total hours open per week] = 168 OR C19 [Weekly hours category] = 168 = ", are there any periods during a normal 24 hour day when there is" OTHERWISE = "not in full use, is there"</p>	
		HELP <F1>
<p>{IsWhen} {Structure} {Is} {Period} a change in the temperature setting for heating?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	<p>IF Yes → D28 [How reduce heating] IF No OR DK/RF: IF Cooling IN D1 [Uses of energy] &amp; Common → D29 [Responsible cooling] IF Cooling IN D1 [Uses of energy] &amp; NOT Common → D30 [Sources for cooling] IF D21 [Heating equipment types] NOT JUST Individual space heaters → D41 [VAV system] IF Water heating IN D1 [Uses of energy] &amp; Common → D44 [Responsible water heating] IF Water heating IN D1 [Uses of energy] &amp; NOT Common → D45 [Sources for water heating] IF Cooking IN D1 [Uses of energy] &amp; Common → D49 [Responsible cooking] IF Cooking IN D1 [Uses of energy] &amp; NOT Common → D50 [Sources for cooking] IF Manufacturing IN D1 [Uses of energy] → D52 [Sources for manufacturing] IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] OTHERWISE → D60 [Any other sources]</p>	

<b>D28</b>	<b>How reduce heating</b>	<i>HWRDHT8 &amp; see below</i>
<b>ASK</b>	All Structures IF D27 [Reduce heating] = Yes	
 SHOW CARD D5  Looking at this card, which of these best describes how the temperature for heating is usually changed?  1 Time-clock thermostat 2 Thermostat is manually reset 3 Part of "Energy Management and Control System (EMCS)" <span style="float: right;"><i>EMCS8</i></span>		
<b>NEXT</b>	IF Cooling IN D1 [Uses of energy] & Common → D29 [Responsible cooling] IF Cooling IN D1 [Uses of energy] & NOT Common → D30 [Sources for cooling] IF D21 [Heating equipment types] NOT JUST Individual space heaters → D41 [VAV system] IF Water heating IN D1 [Uses of energy] & Common → D44 [Responsible water heating] IF Water heating IN D1 [Uses of energy] & NOT Common → D45 [Sources for water heating] IF Cooking IN D1 [Uses of energy] & Common → D49 [Responsible cooking] IF Cooking IN D1 [Uses of energy] & NOT Common → D50 [Sources for cooking] IF Manufacturing IN D1 [Uses of energy] → D52 [Sources for manufacturing] IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] OTHERWISE → D60 [Any other sources]	

<b>D29</b>	<b>Responsible cooling</b>	<i>RESPCL8</i>
<b>ASK</b>	IF Common IF Cooling IN D1 [Uses of energy]	
To what extent is the management of the mall responsible for the operation and maintenance of the air conditioning equipment...  Are they responsible for the whole mall, including the common area and all the individual establishments, responsible for only the common area, or are they responsible for the common area and some, but not all, of the establishments?  1 Whole mall (common area and all establishments) 2 Only common area 3 Common area and some establishments		
<b>NEXT</b>	→ D30 [Sources for cooling]	

<b>D30</b>	<b>Sources for cooling</b>	<i>see below</i>																																	
<b>ASK</b>	All Structures IF Cooling IN D1 [Uses of energy]																																		
<b>FILL</b>	<p><b>{CoolSourcesList}</b> = List of all possible air conditioning energy sources used  <b>{Electricity}</b> – <b>{Other3}</b> = If a source is used, it appears in this list; if not, the line is blank  <b>{FuelOilType}</b> = Type or types specified in D6 [Fuel oil, diesel, or kerosene]  <b>{Other1}</b> – <b>{Other3}</b> = Sources specified in D8 [Other energy source 1] – D10 [Other energy source 3]</p> <p>Which energy sources were used for air conditioning? [{CoolSourcesList}]</p> <ul style="list-style-type: none"> <li>◆ Only sources already selected are shown here</li> <li>◆ PROBE for any others</li> <li>◆ ENTER all that apply</li> </ul> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">11</td> <td style="width: 70%;">{Electricity}</td> <td style="width: 20%; text-align: right;">ELCOOL8</td> </tr> <tr> <td>12</td> <td>{Natural gas}</td> <td style="text-align: right;">NGCOOL8</td> </tr> <tr> <td>13</td> <td>{FuelOilType}</td> <td style="text-align: right;">FKCOOL8</td> </tr> <tr> <td>14</td> <td>{Bottled gas}</td> <td style="text-align: right;">PRCOOL8</td> </tr> <tr> <td>15</td> <td>{District steam}</td> <td style="text-align: right;">STCOOL8</td> </tr> <tr> <td>16</td> <td>{District hot water}</td> <td style="text-align: right;">HWCOOL8</td> </tr> <tr> <td>17</td> <td>{District chilled water}</td> <td style="text-align: right;">CWCOOL8</td> </tr> <tr> <td>21</td> <td>{Other1}</td> <td style="text-align: right;">OTCOOL8</td> </tr> <tr> <td>22</td> <td>{Other2}</td> <td style="text-align: right;">OTCOOL8</td> </tr> <tr> <td>23</td> <td>{Other3}</td> <td style="text-align: right;">OTCOOL8</td> </tr> <tr> <td>24</td> <td>Some other energy source</td> <td></td> </tr> </table>		11	{Electricity}	ELCOOL8	12	{Natural gas}	NGCOOL8	13	{FuelOilType}	FKCOOL8	14	{Bottled gas}	PRCOOL8	15	{District steam}	STCOOL8	16	{District hot water}	HWCOOL8	17	{District chilled water}	CWCOOL8	21	{Other1}	OTCOOL8	22	{Other2}	OTCOOL8	23	{Other3}	OTCOOL8	24	Some other energy source	
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<b>NEXT</b>	IF Some other energy source (24) selected → D31 [Other source for cooling] OTHERWISE → D32 [Percent cooling]																																		

<b>D31</b>	<b>Other source for cooling</b>	<i>see below</i>																								
<b>ASK</b>	All Structures IF Some other energy source IN D30 [Sources for cooling]																									
	<p>What was the other energy source used for air conditioning?</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">11</td> <td style="width: 70%;">Electricity</td> <td style="width: 20%; text-align: right;"><i>ELCOOL8</i></td> </tr> <tr> <td>12</td> <td>Natural gas</td> <td style="text-align: right;"><i>NGCOOL8</i></td> </tr> <tr> <td>13</td> <td>Fuel oil/Diesel/Kerosene</td> <td style="text-align: right;"><i>FKCOOL8</i></td> </tr> <tr> <td>14</td> <td>Bottled gas</td> <td style="text-align: right;"><i>PRCOOL8</i></td> </tr> <tr> <td>15</td> <td>District steam</td> <td style="text-align: right;"><i>STCOOL8</i></td> </tr> <tr> <td>16</td> <td>District hot water</td> <td style="text-align: right;"><i>HWCOOL8</i></td> </tr> <tr> <td>17</td> <td>District chilled water</td> <td style="text-align: right;"><i>CWCOOL8</i></td> </tr> <tr> <td>24</td> <td>Some other energy source</td> <td style="text-align: right;"><i>OTCOOL8</i></td> </tr> </table>		11	Electricity	<i>ELCOOL8</i>	12	Natural gas	<i>NGCOOL8</i>	13	Fuel oil/Diesel/Kerosene	<i>FKCOOL8</i>	14	Bottled gas	<i>PRCOOL8</i>	15	District steam	<i>STCOOL8</i>	16	District hot water	<i>HWCOOL8</i>	17	District chilled water	<i>CWCOOL8</i>	24	Some other energy source	<i>OTCOOL8</i>
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<b>NEXT</b>	→ D32 [Percent cooled]																									

<b>D32</b>	<b>Percent cooled</b>	COOLP8
<b>ASK</b>	All Structures IF Cooling IN D1 [Uses of energy]	
<b>FILL</b>	<p><b>{SqFtIn}</b>  IF Building OR Establishment OR Anchor &amp; A1 [Square footage] known = "A1 [Square footage]"  IF Common &amp; D29 [Responsible cooling] = Whole mall, Common area and some establishments  OR DK/RF &amp; A1 [Square footage] known = "A1 [Square footage]"  IF Common &amp; D29 [Responsible cooling] = Only common area &amp;  A6 [Common area square footage] known = "A6 [Common area square footage]"  IF (Building OR Establishment OR Anchor OR (Common &amp; D29 [Responsible cooling] = Whole mall  OR Common area and some establishments OR DK/RF) &amp; A1 [Square footage] = DK/RF) OR  (Common &amp; D29 [Responsible cooling] = Only common area  &amp; A6 [Common area square footage] = DK/RF) = "floorspace"</p> <p><b>{Structure}</b>  IF Building = "this building"  IF Establishment OR Anchor = "this establishment"  IF Common &amp; D29 [Responsible cooling] = Whole mall OR DK/RF = "this mall"  IF Common &amp; D29 [Responsible cooling] = Only common area = "the common area"  IF Common &amp; D29 [Responsible cooling] = Common area and some establishments = "the common  area and establishments"</p>	
		HELP <F1>
	<p>What percentage of the {SqFt} in {Structure} was cooled by air conditioning equipment in the past 12 months?</p> <ul style="list-style-type: none"> <li>◆ If cooled square footage is known, but not the percent, RECORD square footage in comments, then code DK</li> <li>◆ PROBE for estimate if DK</li> </ul>	
<b>RANGE</b>	0 to 100	
<b>NEXT</b>	IF 1-100, DK/RF → D33 [Cooling equipment types] IF Zero: IF (D19 [Percent heated] > 0 OR D20 [Heated to less than 50 degrees] = Yes) & D21 [Heating equipment types] NOT JUST Individual space heaters → D41 [VAV system] IF Water heating IN D1 [Uses of energy] & Common → D44 [Responsible water heating] IF Water heating IN D1 [Uses of energy] & NOT Common → D45 [Sources for water heating] IF Cooking IN D1 [Uses of energy] & Common → D49 [Responsible cooking] IF Cooking IN D1 [Uses of energy] & NOT Common → D50 [Sources for cooking] IF Manufacturing IN D1 [Uses of energy] → D52 [Sources for manufacturing] IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] OTHERWISE → D60 [Any other sources]	

<b>WARNING D18</b>	
<b>FAIL</b>	IF Cooling IN D1 [Uses of energy] & D32 [Percent cooled] = Zero
<p>I have recorded that energy is used for cooling, but that zero percent of the floorspace is cooled. If energy is used for cooling, then some portion should be cooled. Please let me verify what I have recorded.</p>	

<b>D33</b>	<b>Cooling equipment types</b>	<i>see below</i>																
<b>ASK</b>	All Structures IF D32 [Percent cooled] > 0																	
<b>FILL</b>	{Structure} IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common & D29 [Responsible cooling] = Whole mall OR DK/RF = "this mall" IF Common & D29 [Responsible cooling] = Only common area = "the common area" IF Common & D29 [Responsible cooling] = Common area and some establishments = "the common area and establishments"																	
		HELP <F1>																
 SHOW CARD D6																		
<p>Looking at this list of cooling equipment types, please tell me which types are used in {Structure}.</p> <ul style="list-style-type: none"> <li>◆ RECORD in comments any extra information about the cooling system that is volunteered</li> <li>◆ PROBE for any others</li> <li>◆ ENTER all that apply</li> </ul> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">1 Packaged air conditioning units, other than heat pumps</td> <td style="text-align: right;"><i>PKGCL8</i></td> </tr> <tr> <td>2 Residential-type central air conditioners, other than heat pumps, that cool air directly and circulate it without using chilled water</td> <td style="text-align: right;"><i>RCAC8</i></td> </tr> <tr> <td>3 Individual room air conditioners, other than heat pumps</td> <td style="text-align: right;"><i>ACWNWL8</i></td> </tr> <tr> <td>4 Heat pumps for cooling</td> <td style="text-align: right;"><i>HTPMPC8</i></td> </tr> <tr> <td>5 District chilled water piped in from outside the building</td> <td style="text-align: right;"><i>CHWT8</i></td> </tr> <tr> <td>6 Central chillers inside the building that chill water for air conditioning</td> <td style="text-align: right;"><i>CHILLR8</i></td> </tr> <tr> <td>7 "Swamp" coolers or evaporative coolers</td> <td style="text-align: right;"><i>EVAPCL8</i></td> </tr> <tr> <td>8 Other cooling equipment</td> <td style="text-align: right;"><i>OTCLEQ8</i></td> </tr> </table>			1 Packaged air conditioning units, other than heat pumps	<i>PKGCL8</i>	2 Residential-type central air conditioners, other than heat pumps, that cool air directly and circulate it without using chilled water	<i>RCAC8</i>	3 Individual room air conditioners, other than heat pumps	<i>ACWNWL8</i>	4 Heat pumps for cooling	<i>HTPMPC8</i>	5 District chilled water piped in from outside the building	<i>CHWT8</i>	6 Central chillers inside the building that chill water for air conditioning	<i>CHILLR8</i>	7 "Swamp" coolers or evaporative coolers	<i>EVAPCL8</i>	8 Other cooling equipment	<i>OTCLEQ8</i>
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<b>NEXT</b>	IF More than one selected → D34 [Percent cooled by type] IF Only one selected, assign as Main cooling equipment. THEN: IF Heat pumps (4) → D36 [Heat pump cooling system] IF NOT District chilled water (5) & NOT Packaged cooling (1) if the Main heating equipment was Packaged heating & NOT Heat pump (4) if the main heating equipment was Heat pump & (A18 [Year of construction] < 1990 OR A19 [Year of construction category] ≠ 2000 to 2003) → D38 [Main cooling replaced] OTHERWISE → D39 [Reduce cooling] IF DK/RF → D39 [Reduce cooling]																	

<b>WARNING D19</b>	
<b>FAIL</b>	IF Heat pump IN D33 [Cooling equipment types] & Electricity not used
<p>I have recorded that a heat pump is used but I have not recorded electricity as an energy source for cooling. It is unlikely that a heat pump is used if electricity is not used for cooling. Please let me verify what I have recorded.</p>	

WARNING D20	
<b>FAIL</b>	IF Heat pump IN D21 [Heating equipment types] BUT NOT IN D33 [Cooling equipment types]
<p>I have recorded that a heat pump is used for heating, but I have not recorded a heat pump used for cooling. If a heat pump is used for heating then there is usually a heat pump for cooling. Please let me verify what I have recorded.</p>	

WARNING D21	
<b>FAIL</b>	IF Heat pump IN D33 [Cooling equipment types] BUT NOT IN D21 [Heating equipment types]
<p>I have recorded that a heat pump is used for cooling, but I did not record a heat pump used for heating. If a heat pump is used for cooling then there is usually a heat pump for heating. Please let me verify what I have recorded.</p>	

WARNING D22	
<b>FAIL</b>	IF Central chiller IN D33 [Cooling equipment types] & District chilled water used as an energy source
<p>I have recorded that there is a central chiller and that chilled water is received from outside the building. It is unusual to have a central chiller and also receive chilled water from outside the building. Please let me verify what I have recorded.</p>	

WARNING D23	
<b>FAIL</b>	IF Central chiller & District chilled water BOTH IN D33 [Cooling equipment types]
<p>I have recorded that there is a central chiller that district chilled water is piped in from the outside. It is unusual to have both. Please let me verify what I have recorded.</p>	

ERROR D24	
<b>FAIL</b>	IF District chilled water IN D33 [Cooling equipment types] & District chilled water NOT used as an energy source for cooling
<p>I have recorded district chilled water as cooling equipment but I have not recorded district chilled water as an energy source for cooling. If the cooling equipment is district chilled water, then district chilled water <u>must</u> be used as an energy source for cooling. Which one of these do I need to change?</p>	

<b>D34</b>	<b>Percent cooled by each type</b>	<i>PKGCP8, RCACP8, ACWNCP8, HTPCP8, CHWTP8, CHILP8, EVAPP8, OTCLP8</i>
<b>ASK</b>	All Structures For each equipment type given in D33 [Cooling equipment types]	
<b>FILL</b>	<p><b>{Introduction}</b> IF First equipment = "The next questions are about the percent of floorspace cooled by the equipment you just mentioned. Please keep in mind:" OTHERWISE = BLANK</p> <p><b>{Explanation}</b> IF First equipment and D32 [Percent cooled] <math>\neq</math> 100 = "We are talking only about the <u>cooled portion</u> of the floorspace, so these percents must add up to at least 100, but since more than one type of equipment can cool the same area, it is also possible for them to add up to <u>more than 100.</u>" IF First equipment and D32 [Percent cooled] = 100 = "These percents must add up to at least 100, but since more than one type of equipment can cool the same area, it is also possible for them to add up to <u>more than 100.</u>" OTHERWISE = BLANK</p> <p><b>{Structure}</b> IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common &amp; D13 [Responsible heating] = Whole mall OR DK/RF = "this mall" IF Common &amp; D13 [Responsible heating] = Only common area = "the common area" IF Common &amp; D13 [Responsible heating] = Common area and some establishments = "the common area and establishments"</p> <p><b>{Equipment}</b> IF Packaged air conditioning units IN D33 [Cooling equipment types] = "packaged cooling" IF Residential-type central air conditioners IN D33 [Cooling equipment types] = "central air conditioner" IF Individual room air conditioners IN D33 [Cooling equipment types] = "room air conditioner" IF Heat pumps for cooling IN D33 [Cooling equipment types] = "heat pump" IF District chilled water IN D33 [Cooling equipment types] = "district chilled water" IF Central chillers inside the building IN D33 [Cooling equipment types] = "central chiller" IF "Swamp" coolers or evaporative coolers IN D33 [Cooling equipment types] = "swamp cooler" IF Other cooling equipment IN D33 [Cooling equipment types] = "other cooling equipment"</p>	
 SHOW CARD D7  {Introduction}  {Explanation}  What percent of the cooled area in {Structure} is served by the {Equipment}?  ◆ PROBE for estimate if DK		
<b>RANGE</b>	0 to 100	
<b>NEXT</b>	IF there are equal maximum percents OR DK/RF → D35 [Main cooling equipment] IF there is an equipment with a maximum percent, assign that equipment as the Main cooling equipment [MAINCL8]. THEN: IF Heat pumps IN D33 [Cooling equipment types] → D36 [Heat pump cooling system] IF (Main equipment NOT District chilled water OR DK/RF) & (Main cooling equipment NOT Packaged cooling if the Main heating equipment was Packaged heating) & (Main cooling equipment NOT Heat pump if the main heating equipment was Heat pump) & (A18 [Year of construction] < 1990 OR A19 [Year of construction category] $\neq$ 2000 to 2003) → D38 [Main cooling replaced] OTHERWISE → D39 [Reduce cooling]	

WARNING D25	
<b>FAIL</b>	IF any of the percents given in D34 [Percent cooled by each type] = Zero
<b>FILL</b>	{Equipment} = {Equipment} from D34 [Percent cooled by each type]
<p>I have recorded that {Equipment} is used, but that zero percent of the floorspace is cooled by this equipment. If the equipment is used, then it should cool some percent of the floorspace. Please let me verify what I have recorded.</p>	

ERROR D26	
<b>FAIL</b>	IF the sum of the percents given in D34 [Percent cooled by each type] < 99
<p>The percents that I have entered do not add up to 100 and they must sum to 100 or more. Please let me verify these percents.</p> <p>&gt; Go to first percent and verify each one with the respondent</p>	

<b>D35</b>	<b>Main cooling equipment</b>	<i>MNCLEQ8</i>
<b>ASK</b>	All Structures IF D34 [Percent cooled by each type] has equal maximum percents OR DK/RF	
<b>FILL</b>	{EquipmentList} = List of the equipments with equal maximum percents {Packaged cooling} – {Other cooling equipment} = Each equipment with an equal maximum percent appears on this list; otherwise the line is blank	
<p>Which do you consider to be your main cooling equipment – {EquipmentList} ?</p> <ul style="list-style-type: none"> <li>◆ Only equipment types with equal percentages are shown here</li> <li>1 {Packaged cooling}</li> <li>2 {Central air conditioner}</li> <li>3 {Room air conditioner}</li> <li>4 {Heat pump}</li> <li>5 {District chilled water}</li> <li>6 {Central chiller}</li> <li>7 {Swamp coolers}</li> <li>8 {Other cooling equipment}</li> </ul>		
<b>NEXT</b>	IF Heat pumps IN D33 [Cooling equipment types] → D36 [Heat pump cooling system] IF (Main equipment NOT District chilled water OR DK/RF) & (Main cooling equipment NOT Packaged cooling if the Main heating equipment was Packaged heating) & (Main cooling equipment NOT Heat pump if the main heating equipment was Heat pump) & (A18 [Year of construction] < 1990 OR A19 [Year of construction category] ≠ 2000 to 2003) → D38 [Main cooling replaced] OTHERWISE → D39 [Reduce cooling]	

<b>D36</b>	<b>Heat pump cooling system</b>	<i>see below</i>									
<b>ASK</b>	All Structures IF Heat pumps IN D33 [Cooling equipment types] & Heat pumps NOT IN D21 [Heating equipment types]										
<b>FILL</b>	{Structure} IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common & D29 [Responsible cooling] = Whole mall OR DK/RF = "this mall" IF Common & D29 [Responsible cooling] = Only common area = "the common area" IF Common & D29 [Responsible cooling] = Common area and some establishments = "the common area and establishments"										
 SHOW CARD D4		HELP <F1>									
<p>Please look at the first list on this card and tell me which heat pump systems are used for cooling in {Structure}.</p> <p>◆ ENTER all that apply</p> <table> <tr> <td>1</td> <td>Packaged unit</td> <td><i>PKGCP8</i></td> </tr> <tr> <td>2</td> <td>Residential-type split system</td> <td><i>SPLCP8</i></td> </tr> <tr> <td>3</td> <td>Individual room heat pump</td> <td><i>RMCP8</i></td> </tr> </table>			1	Packaged unit	<i>PKGCP8</i>	2	Residential-type split system	<i>SPLCP8</i>	3	Individual room heat pump	<i>RMCP8</i>
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<b>NEXT</b>	➔ D37 [Heat pump cooling type]										

<b>D37</b>	<b>Heat pump cooling type</b>	<i>see below</i>									
<b>ASK</b>	All Structures IF Heat pumps in D33 [Cooling equipment types] & Heat pumps NOT IN D21 [Heating equipment types]										
 SHOW CARD D4		HELP <F1>									
<p>Looking at the second list on this card, which types of heat pumps are these?</p> <p>◆ ENTER all that apply</p> <table> <tr> <td>1</td> <td>Air source heat pump</td> <td><i>AIRCPT8</i></td> </tr> <tr> <td>2</td> <td>Ground source or ground water heat pump</td> <td><i>GRDCPT8</i></td> </tr> <tr> <td>3</td> <td>Water loop heat pump</td> <td><i>WTRCPT8</i></td> </tr> </table>			1	Air source heat pump	<i>AIRCPT8</i>	2	Ground source or ground water heat pump	<i>GRDCPT8</i>	3	Water loop heat pump	<i>WTRCPT8</i>
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<b>NEXT</b>	IF (Main equipment NOT District chilled water OR DK/RF) & (Main cooling equipment NOT Packaged cooling if the Main heating equipment was Packaged heating) & (Main cooling equipment NOT Heat pump if the main heating equipment was Heat pump) & (A18 [Year of construction] < 1990 OR A19 [Year of construction category] ≠ 2000 to 2003) ➔ D38 [Main cooling replaced] OTHERWISE ➔ D39 [Reduce cooling]										

<b>D38</b>	<b>Main cooling replaced</b>	<i>NWMNCL8</i>
<b>ASK</b>	All Structures IF Main cooling equipment known & NOT District chilled water & (A18 [Year of construction] < 1990 OR A19 [Year of construction category] ≠ 2000 to 2003)	
<b>FILL</b>	<b>{MainCoolEquip}</b> IF Main cooling equipment = Packaged cooling = “Has the packaged air conditioning unit” IF Main cooling equipment = Central air conditioner = “Has the central air conditioner” IF Main cooling equipment = Room air conditioner = “Have any of the room air conditioners” IF Main cooling equipment = Heat pump = “Has the heat pump” IF Main cooling equipment = Central chiller = “Has the central chiller” IF Main cooling equipment = Swamp coolers = “Has the swamp cooler” IF Main cooling equipment = Other cooling equipment = “Has the other type of cooling equipment”	
{MainCoolEquip} been replaced since 1990?  ◆ EXP: [If there is more than one of this equipment type and at least one has been replaced, the answer is "Yes."]  1 Yes 2 No		
<b>NEXT</b>	➔ D39 [Reduce cooling]	

<b>D39</b>	<b>Reduce cooling</b>	<i>RDCLNF8</i>
<b>ASK</b>	All Structures IF D32 [Percent cooled] > 0	
<b>FILL</b>	<p><b>{IsWhen}</b> IF C14 [Open 24 hours a day] = Yes OR C18 [Total hours open per week] = 168 OR C19 [Weekly hours category] = 168 = "In" OTHERWISE = "When"</p> <p><b>{Structure}</b> IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common &amp; D29 [Responsible cooling] = Whole mall OR DK/RF = "this mall" IF Common &amp; D29 [Responsible cooling] = Only common area = "the common area" IF Common &amp; D29 [Responsible cooling] = Common area and some establishments = "the common area and establishments"</p> <p><b>{Is}</b> IF C14 [Open 24 hours a day] = Yes OR C18 [Total hours open per week] = 168 OR C19 [Weekly hours category] = 168 = BLANK IF Common &amp; D29 [Responsible cooling] = Common area and some establishments = "are" OTHERWISE = "is"</p> <p><b>{Period}</b> IF C14 [Open 24 hours a day] = Yes OR C18 [Total hours open per week] = 168 OR C19 [Weekly hours category] = 168 = ", are there any periods during a normal 24 hour day when there is" OTHERWISE = "not in full use, is there"</p>	
		HELP <F1>
<p>{IsWhen} {Structure} {Is} {Period} a change in the temperature setting for cooling?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	<p>IF Yes → D40 [How reduce cooling] IF No OR DK/RF: IF D33 [Cooling equipment types] NOT JUST Room air conditioners OR ((D19 [Percent heated] &gt; 0 OR D20 [Heated to less than 50 degrees] = Yes) &amp; D21 [Heating equipment types] NOT JUST Individual space heaters) → D41 [VAV system] IF Water heating IN D1 [Uses of energy] &amp; Common → D44 [Responsible water heating] IF Water heating IN D1 [Uses of energy] &amp; NOT Common → D45 [Sources for water heating] IF Cooking IN D1 [Uses of energy] &amp; Common → D49 [Responsible cooking] IF Cooking IN D1 [Uses of energy] &amp; NOT Common → D50 [Sources for cooking] IF Manufacturing IN D1 [Uses of energy] → D52 [Sources for manufacturing] IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] OTHERWISE → D60 [Any other sources]</p>	

<b>D40</b>	<b>How reduce cooling</b>	<i>HWRDCL8 &amp; see below</i>
<b>ASK</b>	All Structures IF D39 [Reduce cooling] = Yes	
 SHOW CARD D5  Looking at this card, which of these best describes how the temperature for cooling is usually changed?  1 Time-clock thermostat 2 Thermostat is manually reset 3 Part of "Energy Management and Control System (EMCS)" <span style="float: right;"><i>EMCS8</i></span>		
<b>NEXT</b>	IF D33 [Cooling equipment types] NOT JUST Room air conditioners OR ((D19 [Percent heated] > 0 OR D20 [Heated to less than 50 degrees] = Yes) & D21 [Heating equipment types] NOT JUST Individual space heaters) → D41 [VAV system] IF Water heating IN D1 [Uses of energy] & Common → D44 [Responsible water heating] IF Water heating IN D1 [Uses of energy] & NOT Common → D45 [Sources for water heating] IF Cooking IN D1 [Uses of energy] & Common → D49 [Responsible cooking] IF Cooking IN D1 [Uses of energy] & NOT Common → D50 [Sources for cooking] IF Manufacturing IN D1 [Uses of energy] → D52 [Sources for manufacturing] IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] OTHERWISE → D60 [Any other sources]	

<b>D41</b>	<b>VAV system</b>	<i>VAV8</i>
<b>ASK</b>	All Structures IF ((D19 [Percent heated] > 0 OR D20 [Heated less than 50 degrees] = Yes) OR D32 [Percent cooled] > 0) & Heating or cooling equipment used other than just Space heater and/or Room air conditioner	
<b>FILL</b>	<b>{Structure}</b> IF Building = "Does this building" IF Establishment OR Anchor = "Does this establishment" IF Common & D13 [Responsible heating] = Whole mall OR DK/RF = "Does this mall" IF Common & D13 [Responsible heating] = Only common area = "Does the common area" IF Common & D13 [Responsible heating] = Common area and some establishments = "Do the common area and establishments"	
{Structure} have a variable air volume (VAV) system?  1 Yes 2 No		HELP <F1>
<b>NEXT</b>	IF D32 [Percent cooled] > 0 & Cooling equipment used other than just Room air conditioner → D42 [Economizer cycle] OTHERWISE → D43 [Regular HVAC maintenance]	

<b>D42</b>	<b>Economizer cycle</b>	<i>ECN8</i>
<b>ASK</b>	All Structures IF D32 [Percent cooled] > 0 & Cooling equipment used other than just Room air conditioner	
<b>FILL</b>	<b>{Structure}</b> IF Building = "Does this building" IF Establishment OR Anchor = "Does this establishment" IF Common & D29 [Responsible cooling] = Whole mall OR DK/RF = "Does this mall" IF Common & D29 [Responsible cooling] = Only common area = "Does the common area" IF Common & D29 [Responsible cooling] = Common area and some establishments = "Do the common area and establishments"	
		HELP <F1>
<p>{Structure} have any equipment that uses outside air for cooling, often called an "economizer cycle"?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	→ D43 [Regular HVAC maintenance]	

<b>D43</b>	<b>Regular HVAC maintenance</b>	<i>MAINT8</i>
<b>ASK</b>	All Structures IF ((D19 [Percent heated > 0 OR D20 [Heated less than 50 degrees] = Yes) OR D32 [Percent cooled] > 0 & Heating or cooling equipment used other than just Space heater and/or Room air conditioner	
<b>FILL</b>	<b>{HeatCool}</b> IF Heating only = "heating" IF Cooling only = "cooling" IF Heating & Cooling = "heating and cooling"	
		HELP <F1>
<p>Is there any regularly scheduled maintenance and repair for the {HeatCool} system?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Water heating IN D1 [Uses of energy] & Common → D44 [Responsible water heating] IF Water heating IN D1 [Uses of energy] & NOT Common → D45 [Sources for water heating] IF Cooking IN D1 [Uses of energy] & Common → D49 [Responsible cooking] IF Cooking IN D1 [Uses of energy] & NOT Common → D50 [Sources for cooking] IF Manufacturing IN D1 [Uses of energy] → D52 [Sources for manufacturing] IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] OTHERWISE → D60 [Any other sources]	

<b>D44</b>	<b>Responsible water heating</b>	<i>RESPWT8</i>
<b>ASK</b>	IF Common IF Water heating IN D1 [Uses of energy]	
<p>To what extent is the management of the mall responsible for the operation and maintenance of the water heating equipment...</p> <p>Are they responsible for the whole mall, including the common area and all the individual establishments, responsible for only the common area, or are they responsible for the common area and some, but not all, of the establishments?</p> <ol style="list-style-type: none"> <li>1 Whole mall (common area and all establishments)</li> <li>2 Only common area</li> <li>3 Common area and some establishments</li> </ol>		
<b>NEXT</b>	➔ D45 [Sources for water heating]	

<b>D45</b>	<b>Sources for water heating</b>	<i>see below</i>																																							
<b>ASK</b>	All Structures IF Water heating IN D1 [Uses of energy]																																								
<b>FILL</b>	<p><b>{WatrSourcesList}</b> = List of all energy sources used  <b>{Electricity}</b> – <b>{Other3}</b> = If a source is used, it appears in this list; if not, the line is blank  <b>{FuelOilType}</b> = Type or types specified in D6 [Fuel oil, diesel, or kerosene]  <b>{Other1}</b> – <b>{Other3}</b> = Sources specified in D8 [Other energy source 1] – D10 [Other energy source 3]</p>																																								
<p>Which energy sources were used for water heating? [ {WatrSourcesList} ]</p> <ul style="list-style-type: none"> <li>◆ Only sources already selected are shown here</li> <li>◆ PROBE for any others</li> <li>◆ ENTER all that apply</li> </ul> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">11</td> <td style="width: 65%;">{Electricity}</td> <td style="width: 20%;"><i>ELWATR8</i></td> </tr> <tr> <td>12</td> <td>{Natural gas}</td> <td><i>NGWATR8</i></td> </tr> <tr> <td>13</td> <td>{FuelOilType}</td> <td><i>FKWATR8</i></td> </tr> <tr> <td>14</td> <td>{Bottled gas}</td> <td><i>PRWATR8</i></td> </tr> <tr> <td>15</td> <td>{District steam}</td> <td><i>STWATR8</i></td> </tr> <tr> <td>16</td> <td>{District hot water}</td> <td><i>HWWATR8</i></td> </tr> <tr> <td>18</td> <td>{Wood}</td> <td><i>WOWATR8</i></td> </tr> <tr> <td>19</td> <td>{Coal}</td> <td><i>COWATR8</i></td> </tr> <tr> <td>20</td> <td>{Solar}</td> <td><i>SOWATR8</i></td> </tr> <tr> <td>21</td> <td>{Other1}</td> <td><i>OTWATR8</i></td> </tr> <tr> <td>22</td> <td>{Other2}</td> <td><i>OTWATR8</i></td> </tr> <tr> <td>23</td> <td>{Other3}</td> <td><i>OTWATR8</i></td> </tr> <tr> <td>24</td> <td>Some other energy source</td> <td></td> </tr> </table>			11	{Electricity}	<i>ELWATR8</i>	12	{Natural gas}	<i>NGWATR8</i>	13	{FuelOilType}	<i>FKWATR8</i>	14	{Bottled gas}	<i>PRWATR8</i>	15	{District steam}	<i>STWATR8</i>	16	{District hot water}	<i>HWWATR8</i>	18	{Wood}	<i>WOWATR8</i>	19	{Coal}	<i>COWATR8</i>	20	{Solar}	<i>SOWATR8</i>	21	{Other1}	<i>OTWATR8</i>	22	{Other2}	<i>OTWATR8</i>	23	{Other3}	<i>OTWATR8</i>	24	Some other energy source	
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<b>NEXT</b>	IF Some other energy source (24) selected ➔ D46 [Other water heating source] OTHERWISE ➔ D47 [Water heating equipment]																																								

<b>D46</b>	<b>Other water heating source</b>	<i>see below</i>																														
<b>ASK</b>	All Structures IF Some other energy source IN D45 [Sources for water heating]																															
<p>What was the other energy source used for water heating?</p> <table> <tr> <td>11</td> <td>Electricity</td> <td><i>ELWATR8</i></td> </tr> <tr> <td>12</td> <td>Natural gas</td> <td><i>NGWATR8</i></td> </tr> <tr> <td>13</td> <td>Fuel oil/Diesel/Kerosene</td> <td><i>FKWATR8</i></td> </tr> <tr> <td>14</td> <td>Bottled gas</td> <td><i>PRWATR8</i></td> </tr> <tr> <td>15</td> <td>District steam</td> <td><i>STWATR8</i></td> </tr> <tr> <td>16</td> <td>District hot water</td> <td><i>HWWATR8</i></td> </tr> <tr> <td>18</td> <td>Wood</td> <td><i>WOWATR8</i></td> </tr> <tr> <td>19</td> <td>Coal</td> <td><i>COWATR8</i></td> </tr> <tr> <td>20</td> <td>Solar</td> <td><i>SOWATR8</i></td> </tr> <tr> <td>24</td> <td>Some other energy source</td> <td><i>OTWATR8</i></td> </tr> </table>			11	Electricity	<i>ELWATR8</i>	12	Natural gas	<i>NGWATR8</i>	13	Fuel oil/Diesel/Kerosene	<i>FKWATR8</i>	14	Bottled gas	<i>PRWATR8</i>	15	District steam	<i>STWATR8</i>	16	District hot water	<i>HWWATR8</i>	18	Wood	<i>WOWATR8</i>	19	Coal	<i>COWATR8</i>	20	Solar	<i>SOWATR8</i>	24	Some other energy source	<i>OTWATR8</i>
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<b>NEXT</b>	➔ D47 [Water heating equipment]																															

<b>D47</b>	<b>Water heating equipment</b>	<i>WTHTEQ8</i>
<b>ASK</b>	All Structures	
<b>FILL</b>	<p><b>{Structure}</b>  IF Building = "Does this building"  IF Establishment OR Anchor = "Does this establishment"  IF Common &amp; D44 [Responsible water heating] = Whole mall OR DK/RF = "Does this mall"  IF Common &amp; D44 [Responsible water heating] = Only common area = "Does the common area"  IF Common &amp; D44 [Responsible water heating] = Common area and some establishments  = "Do the common area and establishments"</p>	
HELP <F1>		
<p>{Structure} have one or more centralized water heaters, one or more "point-of-use" water heaters, or both of these types [of water heaters]?</p> <ol style="list-style-type: none"> <li>1 One or more centralized water heaters</li> <li>2 One or more "point-of-use" water heaters</li> <li>3 Both types</li> </ol>		
<b>NEXT</b>	IF CBECS Activity = Lodging ➔ D48 [Instant hot water] OTHERWISE: IF Cooking IN D1 [Uses of energy] & Common ➔ D49 [Responsible cooking] IF Cooking IN D1 [Uses of energy] & NOT Common ➔ D50 [Sources for cooking] IF Manufacturing IN D1 [Uses of energy] ➔ D52 [Sources for manufacturing] IF D4 [Electricity generation capability] = Yes ➔ D54 [Energy for generation] OTHERWISE ➔ D60 [Any other sources]	

<b>D48</b>	<b>Instant hot water</b>	<i>INSTWT8</i>
<b>ASK</b>	All Structures IF Water heating IN D1 [Uses of energy] & CBECS Activity = Lodging	
<p>Is the water hot <u>as soon as</u> you turn on the faucet?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Cooking IN D1 [Uses of energy] & Common → D49 [Responsible cooking] IF Cooking IN D1 [Uses of energy] & NOT Common → D50 [Sources for cooking] IF Manufacturing IN D1 [Uses of energy] → D52 [Sources for manufacturing] IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] OTHERWISE → D60 [Any other sources]	

<b>D49</b>	<b>Responsible cooking</b>	<i>RESPCK8</i>
<b>ASK</b>	All Structures IF Cooking IN D1 [Uses of energy]	
<p>To what extent is the management of the mall responsible for the operation and maintenance of the cooking equipment...</p> <p>Are they responsible for the whole mall, including the common area and all the individual establishments, responsible for only the common area, or are they responsible for the common area and some, but not all, of the establishments?</p> <ol style="list-style-type: none"> <li>1 Whole mall (common area and all establishments)</li> <li>2 Only common area</li> <li>3 Common area and some establishments</li> </ol>		
<b>NEXT</b>	➔ D50 [Sources for cooking]	

<b>D50</b>	<b>Sources for cooking</b>	<i>see below</i>																																							
<b>ASK</b>	All Structures IF Cooking IN D1 [Uses of energy]																																								
<b>FILL</b>	<p><b>{CookSourcesList}</b> = List of all energy sources used  <b>{Electricity}</b> – <b>{Other3}</b> = If a source is used, it appears in this list; if not, the line is blank  <b>{FuelOilType}</b> = Type or types specified in D6 [Fuel oil, diesel, or kerosene]  <b>{Other1}</b> – <b>{Other3}</b> = Sources specified in D8 [Other energy source 1] – D10 [Other energy source 3]</p>																																								
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<b>NEXT</b>	<p>IF Some other energy source (24) selected ➔ D51 [Other cooking source]  OTHERWISE:  IF Manufacturing IN D1 [Uses of energy] ➔ D52 [Sources for manufacturing]  IF D4 [Electricity generation capability] = Yes ➔ D54 [Energy for generation]  OTHERWISE ➔ D60 [Any other sources]</p>																																								

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<b>ASK</b>	All Structures IF Some other energy source IN D50 [Sources for cooking]																														
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<b>D52</b>	<b>Sources for manufacturing</b>	<i>see below</i>																																							
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20	{Solar}	<i>SOMANU8</i>																																							
21	{Other1}	<i>OTMANU8</i>																																							
22	{Other2}	<i>OTMANU8</i>																																							
23	{Other3}	<i>OTMANU8</i>																																							
24	Some other energy source																																								
<b>NEXT</b>	IF Some other energy source (24) selected → D53 [Other manufacturing source] OTHERWISE: IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] IF D4 [Electricity generation capability] ≠ Yes → D60 [Any other sources]																																								

<b>D53</b>	<b>Other manufacturing source</b>	<i>see below</i>																														
<b>ASK</b>	All Structures IF Some other energy source IN D52 [Sources for manufacturing]																															
<p>What was the other energy source used for manufacturing?</p> <table> <tr> <td>11</td> <td>Electricity</td> <td><i>ELMANU8</i></td> </tr> <tr> <td>12</td> <td>Natural gas</td> <td><i>NGMANU8</i></td> </tr> <tr> <td>13</td> <td>Fuel oil/Diesel/Kerosene</td> <td><i>FKMANU8</i></td> </tr> <tr> <td>14</td> <td>Bottled gas</td> <td><i>PRMANU8</i></td> </tr> <tr> <td>15</td> <td>District steam</td> <td><i>STMANU8</i></td> </tr> <tr> <td>16</td> <td>District hot water</td> <td><i>HWMANU8</i></td> </tr> <tr> <td>18</td> <td>Wood</td> <td><i>WOMANU8</i></td> </tr> <tr> <td>19</td> <td>Coal</td> <td><i>COMANU8</i></td> </tr> <tr> <td>20</td> <td>Solar</td> <td><i>SOMANU8</i></td> </tr> <tr> <td>24</td> <td>Some other energy source</td> <td><i>OTMANU8</i></td> </tr> </table>			11	Electricity	<i>ELMANU8</i>	12	Natural gas	<i>NGMANU8</i>	13	Fuel oil/Diesel/Kerosene	<i>FKMANU8</i>	14	Bottled gas	<i>PRMANU8</i>	15	District steam	<i>STMANU8</i>	16	District hot water	<i>HWMANU8</i>	18	Wood	<i>WOMANU8</i>	19	Coal	<i>COMANU8</i>	20	Solar	<i>SOMANU8</i>	24	Some other energy source	<i>OTMANU8</i>
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<b>NEXT</b>	IF D4 [Electricity generation capability] = Yes → D54 [Energy for generation] IF D4 [Electricity generation capability] ≠ Yes → D60 [Any other sources]																															

<b>D54</b>	<b>Energy for generation</b>	<i>GENR8</i>
<b>ASK</b>	All Structures IF D4 [Electricity generation capability] = Yes	
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole"	
<p>Was any energy actually <u>used</u> for generating electricity in this {Structure} during the past 12 months?</p> <p>◆ EXP: [If energy is used to run regular tests of the emergency generators, answer "Yes."]</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → D55 [Sources for electricity generation] IF No OR DK/RF → D60 [Any other sources]	

<b>D55</b>	<b>Sources for electricity generation</b>	<i>see below</i>																														
<b>ASK</b>	All Structures IF D54 [Energy for generation] = Yes																															
<b>FILL</b>	<b>{Other1} – {Other3}</b> = Sources specified in D8 [Other energy source 1] – D10 [Other energy source 3]																															
 SHOW CARD D8  Looking at this first list, please tell me which energy sources were used for electricity generation. <ul style="list-style-type: none"> <li>◆ PROBE for any others</li> <li>◆ ENTER all that apply</li> </ul> <table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">12</td> <td style="width: 70%;">Natural gas</td> <td style="width: 20%; text-align: right;"><i>NGGENR8</i></td> </tr> <tr> <td>13</td> <td>Fuel oil/Diesel/Kerosene</td> <td style="text-align: right;"><i>FKGENR8</i></td> </tr> <tr> <td>14</td> <td>Bottled gas/LPG/Propane</td> <td style="text-align: right;"><i>PRGENR8</i></td> </tr> <tr> <td>18</td> <td>Wood</td> <td style="text-align: right;"><i>WOGENR8</i></td> </tr> <tr> <td>19</td> <td>Coal</td> <td style="text-align: right;"><i>COGENR8</i></td> </tr> <tr> <td>20</td> <td>Solar thermal panels</td> <td style="text-align: right;"><i>SOGENR8</i></td> </tr> <tr> <td>21</td> <td>{Other1}</td> <td style="text-align: right;"><i>OTGENR8</i></td> </tr> <tr> <td>22</td> <td>{Other2}</td> <td style="text-align: right;"><i>OTGENR8</i></td> </tr> <tr> <td>23</td> <td>{Other3}</td> <td style="text-align: right;"><i>OTGENR8</i></td> </tr> <tr> <td>24</td> <td>Some other energy source</td> <td style="text-align: right;"><i>OTGENR8</i></td> </tr> </table>			12	Natural gas	<i>NGGENR8</i>	13	Fuel oil/Diesel/Kerosene	<i>FKGENR8</i>	14	Bottled gas/LPG/Propane	<i>PRGENR8</i>	18	Wood	<i>WOGENR8</i>	19	Coal	<i>COGENR8</i>	20	Solar thermal panels	<i>SOGENR8</i>	21	{Other1}	<i>OTGENR8</i>	22	{Other2}	<i>OTGENR8</i>	23	{Other3}	<i>OTGENR8</i>	24	Some other energy source	<i>OTGENR8</i>
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<b>NEXT</b>	➔ D56 [Generation technologies]																															

<b>D56</b>	<b>Generation technologies</b>	<i>see below</i>												
<b>ASK</b>	All Structures IF D54 [Energy for generation] = Yes													
 SHOW CARD D8  Looking again at this card, were any of the technologies on this second list used for generating electricity? <ul style="list-style-type: none"> <li>◆ PROBE for any others</li> <li>◆ ENTER all that apply</li> </ul> <table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">1</td> <td style="width: 70%;">Photovoltaic cells</td> <td style="width: 20%; text-align: right;"><i>PHOTVL8</i></td> </tr> <tr> <td>2</td> <td>Fuel cells</td> <td style="text-align: right;"><i>FUELCL8</i></td> </tr> <tr> <td>3</td> <td>Microturbines</td> <td style="text-align: right;"><i>MCROTB8</i></td> </tr> <tr> <td>4</td> <td>IF VOLUNTEERED: None of these</td> <td></td> </tr> </table>			1	Photovoltaic cells	<i>PHOTVL8</i>	2	Fuel cells	<i>FUELCL8</i>	3	Microturbines	<i>MCROTB8</i>	4	IF VOLUNTEERED: None of these	
1	Photovoltaic cells	<i>PHOTVL8</i>												
2	Fuel cells	<i>FUELCL8</i>												
3	Microturbines	<i>MCROTB8</i>												
4	IF VOLUNTEERED: None of these													
<b>NEXT</b>	➔ D57 [Use of generated electricity]													

<b>D57</b>	<b>Use of generated electricity</b>	<i>GENUSE8</i>
<b>ASK</b>	All Structures IF D54 [Energy for generation] = Yes	
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole"	
		HELP <F1>
<p>During the past 12 months, was the electricity generated in this {Structure} used: primarily for emergency back-up, during periods of high electricity demand, or whenever electricity was used?</p> <ol style="list-style-type: none"> <li>1 Primarily for emergency back-up</li> <li>2 During periods of high electricity demand</li> <li>3 Whenever electricity was used</li> </ol>		
<b>NEXT</b>	IF Primarily for emergency back-up (1) OR DK/RF → D60 [Any other sources] IF During periods of high electricity demand (2) OR Whenever electricity was used (3) → D58 [Cogeneration system]	

<b>D58</b>	<b>Cogeneration system</b>	<i>COGEN8</i>
<b>ASK</b>	All Structures IF D57 [Use of generated electricity] = During periods of high electricity demand OR Whenever electricity was used	
		HELP <F1>
<p>Is the electric power generating system also a cogeneration system? That is, in addition to producing electric power, does the same system simultaneously produce heat that <u>is used</u> in this or another building for space heating, water heating, or industrial processes?</p> <ol style="list-style-type: none"> <li>1 Yes</li> <li>2 No</li> </ol>		
<b>NEXT</b>	IF Yes → D59 [Deliver electricity to grid] IF No OR DK/RF → D60 [Any other sources]	

<b>D59</b>	<b>Deliver electricity to grid</b>	<i>GRID8</i>
<b>ASK</b>	All Structures IF D58 [Cogeneration system] =Yes	
<p>Is the cogeneration or generation system interconnected with an electric utility so that it is able to deliver or sell electricity <u>to the grid</u>?</p> <ol style="list-style-type: none"> <li>1 Yes</li> <li>2 No</li> </ol>		
<b>NEXT</b>	→ D60 [Any other sources]	

<b>D60</b>	<b>Any other sources</b>
<b>ASK</b>	All Structures IF D5 [Energy sources used] was answered
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole" <b>{SourcesList}</b> = List of all energy sources used
As a final check, were there any energy sources used in this {Structure} other than {Sources List} ?	
1 Yes 2 No	
<b>NEXT</b>	IF Yes → D61 [Other sources] IF No OR DK/RF: Check that every energy source given in D5 [Energy sources used] (other than electricity or district chilled water) was assigned an end use. THEN: IF Yes: IF Electricity used → D64 [How purchase electricity] IF Natural gas used → D66 [How purchase natural gas] IF Bottled gas used → D67 [Bottled gas amount] IF Wood used → D69 [Amount wood burned] OTHERWISE → E1 [Section E Routing] IF No → D63 [{Energy source} use]

<b>D61</b>	<b>Other sources</b>	<i>see below</i>
<b>ASK</b>	All Structures IF D61 [Other energy sources] =Yes	
<b>FILL</b>	<b>{Electricity} – {Solar}</b> = If a source has NOT been mentioned, it appears in this list; if it has, the line is blank	
What other sources were used?		
◆ PROBE for any others		
◆ ENTER all that apply		
11	{Electricity}	<i>ELUSED8</i>
12	{Natural gas}	<i>NGUSED8</i>
13	{Fuel/Diesel/Kerosene}	<i>FKUSED8</i>
14	{Bottled gas}	<i>PRUSED8</i>
15	{District steam}	<i>STUSED8</i>
16	{District hot water}	<i>HWUSED8</i>
17	{District chilled water}	<i>CWUSED8</i>
18	{Wood}	<i>WOUSED8</i>
19	{Coal}	<i>COUSED8</i>
20	{Solar}	<i>SOUSED8</i>
24	Other	<i>OTUSED8</i>
<b>NEXT</b>	→ D62 [{Energy source} use]	

<b>D62</b>	<b>{Energy source} use</b> <i>see below where {XX} is the energy source abbreviation</i>																
<b>ASK</b>	All Structures For each source selected in D61 [Other sources]																
<b>FILL</b>	<p><b>{EnergySource}</b>  IF Electricity IN D61 [Other sources] = "electricity"  IF Natural gas IN D61 [Other sources] = "natural gas"  IF Fuel oil/Diesel/Kerosene IN D61 [Other sources] = "fuel oil/diesel/kerosene"  IF Bottled gas IN D61 [Other sources] = "bottled gas"  IF District steam IN D61 [Other sources] = "district steam"  IF District hot water IN D61 [Other sources] = "district hot water"  IF Wood IN D61 [Other sources] = "wood"  IF Coal IN D61 [Other sources] = "coal"  IF Solar IN D61 [Other sources] = "solar"  IF Other IN D61 [Other sources] = "other fuel"</p> <p><b>{Cooling}</b>  Does not appear as a choice for Wood use, Coal use, OR Solar use</p> <p><b>{Electricity generation}</b>  Does not appear as a choice for Electricity use, District steam use, OR District hot water use</p>																
<p>What was the {EnergySource} used for?</p> <table> <tr> <td>1 Heating</td> <td>{XX}HT18/HT28</td> </tr> <tr> <td>2 {Cooling}</td> <td>{XX}COOL8</td> </tr> <tr> <td>3 Water heating</td> <td>{XX}WATR8</td> </tr> <tr> <td>4 Cooking</td> <td>{XX}COOK8</td> </tr> <tr> <td>5 Manufacturing</td> <td>{XX}MANU8</td> </tr> <tr> <td>6 {Electricity generation}</td> <td>{XX}GENR8</td> </tr> <tr> <td>7 Some other use</td> <td>{XX}OTH8</td> </tr> <tr> <td>8 Incorrectly recorded--source not used</td> <td></td> </tr> </table>		1 Heating	{XX}HT18/HT28	2 {Cooling}	{XX}COOL8	3 Water heating	{XX}WATR8	4 Cooking	{XX}COOK8	5 Manufacturing	{XX}MANU8	6 {Electricity generation}	{XX}GENR8	7 Some other use	{XX}OTH8	8 Incorrectly recorded--source not used	
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<b>NEXT</b>	Check that every energy source given in D5 [Energy sources used] (other than electricity or district chilled water) was assigned an end use: IF Yes: IF Electricity used → D64 [How purchase electricity] IF Natural gas used → D66 [How purchase natural gas] IF Bottled gas used → D67 [Bottled gas amount] IF Wood used → D69 [Amount wood burned] OTHERWISE → E1 [Section E Routing] IF No → D63 [{Energy source} use]																

<b>D63</b>	<b>{Energy source} use</b> <i>see below where {XX} is the energy source abbreviation</i>																
<b>ASK</b>	All Structures For every energy source given in D5 [Energy sources used] that was not assigned an end use (other than electricity or district chilled water)																
<b>FILL</b>	<p><b>{EnergySource}</b>  IF No end use for Natural gas = "natural gas"  IF No end use for Fuel oil = Type or types specified in D6 [Fuel oil, diesel, or kerosene]  IF No end use for Bottled gas = "bottled gas"  IF No end use for District steam = "district steam"  IF No end use for District hot water = "district hot water"  IF No end use for Wood = "wood"  IF No end use for Coal = "coal"  IF No end use for Solar = "solar"  IF No end use for Other = "another energy source" (second fill = "other energy source")</p> <p><b>{Structure}</b>  IF Building = "building"  IF Establishment OR Anchor = "establishment"  IF Common = "mall as a whole"</p> <p><b>{Cooling}</b>  Does not appear as a choice for Wood use, Coal use, OR Solar use</p> <p><b>{Electricity generation}</b>  Does not appear as a choice for District steam use OR District hot water use</p>																
<p>I have recorded that {EnergySource} was used in this {Structure} but not how it was used. What was the {EnergySource} used for?</p> <table> <tr> <td>1 Heating</td> <td>{XX}HT18/HT28</td> </tr> <tr> <td>2 {Cooling}</td> <td>{XX}COOL8</td> </tr> <tr> <td>3 Water heating</td> <td>{XX}WATR8</td> </tr> <tr> <td>4 Cooking</td> <td>{XX}COOK8</td> </tr> <tr> <td>5 Manufacturing</td> <td>{XX}MANU8</td> </tr> <tr> <td>6 {Electricity generation}</td> <td>{XX}GENR8</td> </tr> <tr> <td>7 Some other use</td> <td>{XX}OTH8</td> </tr> <tr> <td>8 Incorrectly recorded--source not used</td> <td></td> </tr> </table>		1 Heating	{XX}HT18/HT28	2 {Cooling}	{XX}COOL8	3 Water heating	{XX}WATR8	4 Cooking	{XX}COOK8	5 Manufacturing	{XX}MANU8	6 {Electricity generation}	{XX}GENR8	7 Some other use	{XX}OTH8	8 Incorrectly recorded--source not used	
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<b>NEXT</b>	IF Electricity used → D64 [How purchase electricity] IF Natural gas used → D66 [How purchase natural gas] IF Bottled gas used → D67 [Bottled gas amount] IF Wood used → D69 [Amount wood burned] OTHERWISE → E1 [Section E Routing]																

**NOTE ON USES OF ENERGY:**

In addition to the end uses given in D1 [Uses of energy], it is now possible that an end use was added in D63 OR D63 [{Energy source} use]. For the rest of this questionnaire, instead of referring to D1 [Uses of energy], end uses will just simply be stated, for example: "IF Cooking" would mean IF Cooking IN D1 [Uses of energy] OR Added as an end use in D63 OR D63 [Energy source use].

<b>D64</b>	<b>How purchase electricity</b>	<i>see below</i>						
<b>ASK</b>	All Structures IF Electricity used							
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole"							
 SHOW CARD D9		HELP <F1>						
<p>In some areas of the country, consumers may purchase their electricity from more than one supplier. Looking at the list, please tell me all the ways that electricity is purchased for this {Structure}.</p> <ul style="list-style-type: none"> <li>◆ EXP: [If electricity is bought from the city, that is considered to be the local utility.]</li> <li>◆ PROBE for any others</li> <li>◆ ENTER all that apply</li> </ul> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">1 Bought from the local utility</td> <td style="text-align: right;"><i>ELLOCUT8</i></td> </tr> <tr> <td>2 Contracted or bought from an independent power producer or non-local utility</td> <td style="text-align: right;"><i>ELNONLU8</i></td> </tr> <tr> <td>3 Bought from someone else, such as a broker</td> <td style="text-align: right;"><i>ELOTSRC8</i></td> </tr> </table>			1 Bought from the local utility	<i>ELLOCUT8</i>	2 Contracted or bought from an independent power producer or non-local utility	<i>ELNONLU8</i>	3 Bought from someone else, such as a broker	<i>ELOTSRC8</i>
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3 Bought from someone else, such as a broker	<i>ELOTSRC8</i>							
<b>NEXT</b>	IF more than one selected, including Bought from the local utility (1) → D65 [Percent from local utility] OTHERWISE: IF Natural gas used → D66 [How purchase natural gas] IF Bottled gas used → D67 [Bottled gas amount] IF Wood used → D69 [Amount wood burned] OTHERWISE → E1 [Section E Routing]							

<b>D65</b>	<b>Percent from local utility</b>	<i>ELLUPCT8</i>
<b>ASK</b>	All Structures IF More than one response selected in D64 [How purchase electricity], including Bought from the local utility	
About what percent of the electricity would you estimate was obtained from the local utility?		
<b>RANGE</b>	1 to 100	
<b>NEXT</b>	IF Natural gas used → D66 [How purchase natural gas] IF Bottled gas used → D67 [Bottled gas amount] IF Wood used → D69 [Amount wood burned] OTHERWISE → E1 [Section E Routing]	

<b>D66</b>	<b>How purchase natural gas</b>	<i>NGSRC8 &amp; see below</i>
<b>ASK</b>	All Structures IF Natural gas used	
<b>FILL</b>	<p><b>{Introduction}</b> IF Electricity used = "Consumers may also be able to purchase their natural gas from more than one supplier." IF Electricity not used = "In some areas of the country, consumers may purchase their natural gas from more than one supplier."</p> <p><b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole"</p>	
HELP <F1>		
<p>{Introduction} Was the natural gas in this {Structure} bought from the local utility, bought from someone else, such as a non-utility or a broker, or bought both of these ways?</p> <p>1 Bought from the local utility <span style="float: right;"><i>NGLOCUT8</i></span>  2 Bought from someone else, such as a non-utility or a broker <span style="float: right;"><i>NGOTSRC8</i></span>  3 Bought both ways</p>		
<b>NEXT</b>	IF Bottled gas used → D67 [Bottled gas amount] IF Wood used → D69 [Amount wood burned] OTHERWISE → E1 [Section E Routing]	

<b>D67</b>	<b>Bottled gas amount</b>	<i>PRAMTC8</i>
<b>ASK</b>	IF Bottled gas used	
<p> SHOW CARD D10</p> <p>You mentioned that bottled gas is used in this building. Looking at this list, which range best describes the amount of bottled gas used in the past 12 months?</p> <p>1 Less than 100  2 100 to 499  3 500 to 999  4 1,000 or more</p>		
<b>NEXT</b>	IF Amount given → D68 [Bottled gas units] IF DK/RF: IF Wood used → D69 [Amount wood burned] OTHERWISE → E1 [Section E Routing]	

<b>D68</b>	<b>Bottled gas units</b>	<i>PRUNIT8</i>
<b>ASK</b>	All Structures IF D67 [Bottled gas amount] was answered	
	<p>◆ VERIFY if volunteered in previous question</p> <p>Is that in gallons or pounds?</p> <p>1 Gallons 2 Pounds</p>	
<b>NEXT</b>	IF Wood used → D69 [Amount wood burned] OTHERWISE → E1 [Section E Routing]	

<b>D69</b>	<b>Amount wood burned</b>	<i>WOAMT8</i>
<b>ASK</b>	All Structures IF Wood used	
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole"	
	<p> SHOW CARD D11</p> <p>Looking at this card, which range best describes how much wood has been burned in this {Structure} in the past 12 months?</p> <p>1 Less than 1 cord 2 1 to 9 cords 3 10 to 20 cords 4 More than 20 cords</p>	
<b>NEXT</b>	→ D70 [How obtain wood]	

<b>D70</b>	<b>How obtain wood</b>	<i>WOSRC8</i>
<b>ASK</b>	All Structures IF Wood used	
	<p>Did you purchase all the wood, obtain it all free of charge, or was some purchased and some free?</p> <p>1 Purchased all the wood 2 Obtained it all free of charge 3 Some purchased and some free</p>	
<b>NEXT</b>	IF Purchased all the wood (1) OR Some purchased and some free (3) → D71 [Expenditures for wood] IF Obtained it all free of charge (2) OR DK/RF → E1 [Section E Routing]	

<b>D71</b>	<b>Expenditures for wood</b>	<i>WOEXP8</i>
<b>ASK</b>	All Structures IF D70 [How obtain wood] = Purchase all the wood OR Some purchase and some free	
Please give me an estimate of the total amount spent for the wood used in the past 12 months.		
<ul style="list-style-type: none"> <li>◆ Do not enter cents</li> <li>◆ VERIFY number digit by digit</li> </ul>		
<b>RANGE</b>	1 to 99,999	
<b>NEXT</b>	IF DK/RF → D72 [Wood expenditures category] IF Amount given → E1 [Section E Routing]	

<b>D72</b>	<b>Wood expenditures category</b>	<i>WOEXPC8</i>
<b>ASK</b>	All Structures IF D71 [Expenditures for wood] = DK/RF	
 SHOW CARD D12		
Looking at this list, which range best describes the total amount spent for the wood used in the past 12 months?		
<ul style="list-style-type: none"> <li>1 \$1 to \$100</li> <li>2 \$101 to \$500</li> <li>3 \$501 to \$1,000</li> <li>4 \$1,001 to \$2,000</li> <li>5 Over \$2,000</li> </ul>		
<b>NEXT</b>	→ E1 [Section E Routing]	

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## SECTION E. MISCELLANEOUS EQUIPMENT

<b>E1</b>	<b>Section E Routing</b>
<b>NEXT</b>	<p>IF Cooking → E2 [Commercial food prep]            IF Water heating → E5 [Large amounts of hot water]            IF CBECS Activity = Lodging; Inpatient health care; OR Nursing → E6 [Laundry onsite]            IF B5 [Office type] = Doctor's or dentist's office OR B16 [Health care type] = Doctor's or dentist's office; Clinic or other outpatient health care; Outpatient rehabilitation center → E7 [Medical equipment]            IF CBECS Activity = Education; Laboratory; Office; Outpatient health care; Public assembly; Retail; OR Service → E8 [Laboratory equipment]            IF CBECS Activity = Nonrefrigerated OR Refrigerated warehouse → E9 [Machine equipment]            IF Common → E13 [Indoor ice rink]            OTHERWISE:            IF Electricity NOT used → E14 [Verify no electricity]            OTHERWISE → E15 [Refrigeration]</p>

<b>E2</b>	<b>Commercial food prep</b>	<i>FDRM8</i>
<b>ASK</b>	All Structures IF Cooking	
<b>FILL</b>	<p><b>{Structure}</b>            IF Building = "building"            IF Establishment OR Anchor = "establishment"            IF Common = "mall as a whole"</p>	
<p>Now I have some questions about uses of space and equipment in this {Structure}.</p> <p>Is any space used for institutional or commercial food preparation and serving, such as kitchens, restaurants, snack bars, cafeterias, steam tables, or warming areas?</p> <p>Do not include lounge areas with only a microwave or other small food preparation equipment or vending machines.</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	<p>IF Yes → E3 [Type of food area]            IF No OR DK/RF:            IF Water heating → E5 [Large amounts of hot water]            IF CBECS Activity = Lodging; Inpatient health care; OR Nursing → E6 [Laundry onsite]            IF B5 [Office type] = Doctor's or dentist's office OR B16 [Health care type] = Doctor's or dentist's office; Clinic or other outpatient health care; Outpatient rehabilitation center → E7 [Medical equipment]            IF CBECS Activity = Education; Laboratory; Office; Outpatient health care; Public assembly; Retail; OR Service → E8 [Laboratory equipment]            IF CBECS Activity = Nonrefrigerated OR Refrigerated warehouse → E9 [Machine equipment]            IF Common → E13 [Indoor ice rink]            OTHERWISE:            IF Electricity NOT used → E14 [Verify no electricity]            OTHERWISE → E15 [Refrigeration]</p>	

<b>E3</b>	<b>Type of food area</b>	<i>see below</i>												
<b>ASK</b>	All Structures IF E2 [Commercial food prep] = Yes													
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "mall as a whole"													
 SHOW CARD E1  Which of these types best describes the food preparation or serving areas in this {Structure}?  ◆ PROBE for any others  ◆ ENTER all that apply  <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">1 Snack bar</td> <td style="width: 20%; text-align: right;"><i>SNACK8</i></td> </tr> <tr> <td>2 Fast food/Small restaurant</td> <td style="text-align: right;"><i>FASTFD8</i></td> </tr> <tr> <td>3 Cafeteria/Large restaurant</td> <td style="text-align: right;"><i>CAF8</i></td> </tr> <tr> <td>4 Food preparation area</td> <td style="text-align: right;"><i>FDPREP8</i></td> </tr> <tr> <td>5 Small kitchen area</td> <td style="text-align: right;"><i>KITCHN8</i></td> </tr> <tr> <td>6 Some other type of food preparation area</td> <td style="text-align: right;"><i>OTFDRM8</i></td> </tr> </table>			1 Snack bar	<i>SNACK8</i>	2 Fast food/Small restaurant	<i>FASTFD8</i>	3 Cafeteria/Large restaurant	<i>CAF8</i>	4 Food preparation area	<i>FDPREP8</i>	5 Small kitchen area	<i>KITCHN8</i>	6 Some other type of food preparation area	<i>OTFDRM8</i>
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5 Small kitchen area	<i>KITCHN8</i>													
6 Some other type of food preparation area	<i>OTFDRM8</i>													
<b>NEXT</b>	IF Some other type (6) selected → E4 [Other food area] OTHERWISE: IF Water heating → E5 [Large amounts of hot water] IF CBECs Activity = Lodging; Inpatient health care; OR Nursing → E6 [Laundry onsite] IF B5 [Office type] = Doctor's or dentist's office OR B16 [Health care type] = Doctor's or dentist's office; Clinic or other outpatient health care; Outpatient rehabilitation center → E7 [Medical equipment] IF CBECs Activity = Education; Laboratory; Office; Outpatient health care; Public assembly; Retail; OR Service → E8 [Laboratory equipment] IF CBECs Activity = Nonrefrigerated OR Refrigerated warehouse → E9 [Machine equipment] IF Common → E13 [Indoor ice rink] OTHERWISE: IF Electricity NOT used → E14 [Verify no electricity] OTHERWISE → E15 [Refrigeration]													

<b>E4</b>	<b>Other food area</b>
<b>ASK</b>	All Structures IF Some other type IN E3 [Type of food area]
<p>Please describe this other type of food preparation or serving area.</p> <p>◆ RECORD in open box</p>	
<b>NEXT</b>	<p>IF Water heating → E5 [Large amounts of hot water]  IF CBCECS Activity = Lodging; Inpatient health care; OR Nursing → E6 [Laundry onsite]  IF B5 [Office type] = Doctor's or dentist's office OR B16 [Health care type] = Doctor's or dentist's office; Clinic or other outpatient health care; Outpatient rehabilitation center → E7 [Medical equipment]  IF CBCECS Activity = Education; Laboratory; Office; Outpatient health care; Public assembly; Retail; OR Service → E8 [Laboratory equipment]  IF CBCECS Activity = Nonrefrigerated OR Refrigerated warehouse → E9 [Machine equipment]  IF Common → E13 [Indoor ice rink]  OTHERWISE:  IF Electricity NOT used → E14 [Verify no electricity]  OTHERWISE → E15 [Refrigeration]</p>

<b>E5</b>	<b>Large amounts of hot water</b>	<i>HWTRM8</i>
<b>ASK</b>	All Structures IF Water heating	
<b>FILL</b>	<p><b>{Introduction}</b>  IF E2 [Commercial food prep] was asked = "Now I have some questions about energy-related space uses and equipment that may be used in this {Structure}."  OTHERWISE = BLANK  <b>{Structure}</b>  IF Building = "building"  IF Establishment OR Anchor = "establishment"  IF Common = "mall as a whole"</p>	
		HELP <F1>
<p>{Introduction}</p> <p>Is any space in this {Structure} used for any activities requiring large amounts of hot water, such as a commercial dishwasher, laundry room, heated pool, steam room, whirlpool, or showers?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	<p>IF CBCECS Activity = Lodging; Inpatient health care; OR Nursing → E6 [Laundry onsite]  IF B5 [Office type] = Doctor's or dentist's office OR B16 [Health care type] = Doctor's or dentist's office; Clinic or other outpatient health care; Outpatient rehabilitation center → E7 [Medical equipment]  IF CBCECS Activity = Education; Laboratory; Office; Outpatient health care; Public assembly; Retail; OR Service → E8 [Laboratory equipment]  IF CBCECS Activity = Nonrefrigerated OR Refrigerated warehouse → E9 [Machine equipment]  IF Common → E13 [Indoor ice rink]  OTHERWISE:  IF Electricity NOT used → E14 [Verify no electricity]  OTHERWISE → E15 [Refrigeration]</p>	

<b>E6</b>	<b>Laundry onsite</b>	<i>LAUNDR8</i>
<b>ASK</b>	All Structures IF D1 [Uses of energy] ≠ No energy used & CBECS Activity = Lodging; Inpatient health care; OR Nursing	
<b>FILL</b>	<b>{Structure}</b> IF Building = “building” IF Establishment OR Anchor = “establishment” IF Common = “mall as a whole”	
<p>Are the linens primarily laundered in this {Structure}, in another building on-site, or by an off-site laundry service?</p> <ol style="list-style-type: none"> <li>1 In this building</li> <li>2 In another building on-site</li> <li>3 By an off-site laundry service</li> </ol>		
<b>NEXT</b>	IF B16 [Health care type] = Inpatient rehabilitation center → E7 [Medical equipment] IF CBECS Activity = Inpatient health care → E8 [Laboratory equipment] IF Building & (CBECS Activity = Lodging → E10 [Indoor pool] <b>OTHERWISE:</b> IF Electricity NOT used → E14 [Verify no electricity] <b>OTHERWISE → E15 [Refrigeration]</b>	

<b>E7</b>	<b>Medical equipment</b>	<i>MEDEQP8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF D1 [Uses of energy] ≠ No energy used & (B5 [Office type] = Doctor’s or dentist’s office OR B14 [Health care type] = Doctor’s or dentist’s office; Clinic or other outpatient health care; Outpatient rehabilitation center; OR Inpatient rehabilitation center)	
<b>FILL</b>	<b>{Structure}</b> IF Building = “building” IF Establishment OR Anchor = “establishment”	
<p style="text-align: right;">HELP &lt;F1&gt;</p> <p>Does this {Structure} have any equipment for medical diagnosis or treatment, such as X-ray, CAT scan, MRI, dialysis, or ultrasound machines?</p> <ol style="list-style-type: none"> <li>1 Yes</li> <li>2 No</li> </ol>		
<b>NEXT</b>	IF CBECS Activity = Outpatient health care → E8 [Laboratory equipment] IF B16 [Health care type] = Inpatient rehabilitation center → E10 [Indoor pool] <b>OTHERWISE:</b> IF Electricity NOT used → E14 [Verify no electricity] <b>OTHERWISE → E15 [Refrigeration]</b>	

<b>E8</b>	<b>Laboratory equipment</b>	<i>LABEQP8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF D1 [Uses of energy] ≠ No energy used & CBECS Activity = Education; Inpatient health care; Laboratory; Office; Outpatient health care; Public assembly; Retail; OR Service	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
<p>Does this {Structure} have any specialized laboratory equipment that requires extra energy consumption?</p> <p>◆ EXP: [Some examples are fume hoods, gas chromatographs, centrifuges, spectrometers, and analysis equipment.]</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF CBECS Activity = Education; Laboratory; OR Service → E9 [Machine equipment] IF Building & CBECS Activity = Public Assembly OR B16 [Health care type] = Outpatient rehabilitation center OR Inpatient rehabilitation center → E10 [Indoor pool] OTHERWISE: IF Electricity NOT used → E14 [Verify no electricity] OTHERWISE → E15 [Refrigeration]	

<b>E9</b>	<b>Machine equipment</b>	<i>MCHEQP8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF D1 [Uses of energy] ≠ No energy used & CBECS Activity = Education; Laboratory; Nonrefrigerated warehouse; Refrigerated warehouse; OR Service	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
<p>Does this {Structure} have any machine or shop equipment such as woodworking tools, metalworking tools, arc welders, or any other types of power tools?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Building & CBECS Activity = Education → E10 [Indoor pool] OTHERWISE: IF Electricity NOT used → E14 [Verify no electricity] OTHERWISE → E15 [Refrigeration]	

<b>E10</b>	<b>Indoor pool</b>	<i>POOL8</i>
<b>ASK</b>	IF Building IF D1 [Uses of energy] ≠ No energy used & (CBECS Activity = Education; Lodging; OR Public Assembly OR B16 [Health care type] = Outpatient rehabilitation center OR Inpatient rehabilitation center)	
Is there an indoor swimming pool in this building?  1 Yes 2 No		
<b>NEXT</b>	IF Yes → E11 [Heated pool] IF No OR DK/RF: IF CBECS Activity = Education; Lodging; OR Public assembly → E13 [Indoor ice rink] IF Electricity NOT used → E14 [Verify no electricity] OTHERWISE → E15 [Refrigeration]	

<b>E11</b>	<b>Heated pool</b>	<i>HTPOOL8</i>
<b>ASK</b>	IF Building IF E10 [Indoor pool] =Yes	
Is it a heated pool?  1 Yes 2 No		
<b>NEXT</b>	IF Yes → E12 [Pool energy source] IF No OR DK/RF: IF CBECS Activity = Education; Lodging; OR Public assembly → E13 [Indoor ice rink] IF Electricity NOT used → E14 [Verify no electricity] OTHERWISE → E15 [Refrigeration]	

<b>E12</b>	<b>Pool energy source</b>	<i>PLSRC8</i>
<b>ASK</b>	IF Building IF E10 [Indoor pool] =Yes	
What energy source is used to heat the pool?  ◆ Read choices if necessary  1 Electricity 2 Natural gas 3 Fuel oil/Diesel/Kerosene 4 Bottled gas/LPG/Propane 5 Solar 6 Some other energy source		
<b>NEXT</b>	IF CBECS Activity = Education; Lodging; OR Public assembly) → E13 [Indoor ice rink] OTHERWISE: IF Electricity NOT used → E14 [Verify no electricity] OTHERWISE → E15 [Refrigeration]	

<b>E13</b>	<b>Indoor ice rink</b>	<i>RINK8</i>
<b>ASK</b>	IF Building OR Common IF D1 [Uses of energy] ≠ No energy used & (Common OR CBECS Activity = Education; Lodging; OR Public assembly)	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Common = "mall as a whole"	
<p>Does this {Structure} contain an indoor ice skating rink?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Electricity NOT used → E14 [Verify no electricity] OTHERWISE → E15 [Refrigeration]	

<b>E14</b>	<b>Verify no electricity</b>	<i>NOELEC8</i>
<b>ASK</b>	All Structures IF D1 [Uses of energy] ≠ No energy used & Electricity not used & D54 [Energy for generation] ≠ Yes	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
<p>I do not have electricity recorded as being used in this {Structure}. Is it true that there is not any electricity used in this {Structure}?</p> <p>1 True, electricity is <u>not</u> used 2 False, electricity is used</p>		
<b>NEXT</b>	IF True, electricity is not used OR DK/RF → E51 [Window glass type] IF False, electricity is used → E15 [Refrigeration]	

<b>E15</b>	<b>Refrigeration</b>	<i>RFGEQP8</i>
<b>ASK</b>	All Structures IF Electricity used OR D54 [Energy for generation] = Yes OR E14 [Verify no electricity] = False, electricity is used	
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
HELP <F1>		
Is there any refrigeration or freezer equipment used in this {Structure}, including vending machines?		
1 Yes 2 No		
<b>NEXT</b>	IF Yes → E16 [Refrigeration types] IF No OR DK/RF → E22 [Computers used]	

<b>E16</b>	<b>Refrigeration types</b>	<i>see below</i>										
<b>ASK</b>	All Structures IF E15 [Refrigeration] = Yes											
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"											
HELP <F1>												
 SHOW CARD E2												
Looking at this card, please tell me which types of refrigeration or freezer equipment are found in this {Structure}.												
<ul style="list-style-type: none"> <li>◆ PROBE for any others</li> <li>◆ ENTER all that apply</li> </ul>												
<table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">1 Walk-in refrigeration/freezer units</td> <td style="text-align: right;"><i>RFGWI8</i></td> </tr> <tr> <td>2 Open refrigerated/freezer cases or cabinets</td> <td style="text-align: right;"><i>RFGOP8</i></td> </tr> <tr> <td>3 Residential-type refrigerators/freezers</td> <td style="text-align: right;"><i>RFGCL8</i></td> </tr> <tr> <td>4 Closed refrigerated/freezer cases or cabinets</td> <td style="text-align: right;"><i>RFGRES8</i></td> </tr> <tr> <td>5 Refrigerated vending machines</td> <td style="text-align: right;"><i>RFGVEN8</i></td> </tr> </table>			1 Walk-in refrigeration/freezer units	<i>RFGWI8</i>	2 Open refrigerated/freezer cases or cabinets	<i>RFGOP8</i>	3 Residential-type refrigerators/freezers	<i>RFGCL8</i>	4 Closed refrigerated/freezer cases or cabinets	<i>RFGRES8</i>	5 Refrigerated vending machines	<i>RFGVEN8</i>
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5 Refrigerated vending machines	<i>RFGVEN8</i>											
<b>NEXT</b>	IF Walk-in units (1) selected → E17 [Number walk-in units] IF Open cases or cabinets (2) selected → E18 [Number open cases] IF Residential-type (3) selected → E19 [Number residential refrigerators] IF Closed cases or cabinets (4) selected → E20 [Number closed cases] IF Refrigerated vending machines (5) selected → E21 [Number vending] IF DK/RF → E22 [Computers used]											

<b>E17</b>	<b>Number walk-in units</b>	<i>RFWIN8</i>
<b>ASK</b>	All Structures IF Walk-in units IN E16 [Refrigeration types]	
<p>How many walk-in refrigeration or freezer units are there?</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	1 to 999	
<b>NEXT</b>	IF Open cases or cabinets (2) selected → E18 [Number open cases] IF Residential-type (3) selected → E19 [Number residential refrigerators] IF Closed cases or cabinets (4) selected → E20 [Number closed cases] IF Refrigerated vending machines (5) selected → E21 [Number vending] OTHERWISE → E22 [Computers used]	

<b>E18</b>	<b>Number open cases</b>	<i>RFGOPN8</i>
<b>ASK</b>	All Structures IF Open cases or cabinets IN E16 [Refrigeration types]	
<p>How many open refrigerated or freezer cases or cabinets are there?</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	1 to 999	
<b>NEXT</b>	IF Residential-type (3) selected → E19 [Number residential refrigerators] IF Closed cases or cabinets (4) selected → E20 [Number closed cases] IF Refrigerated vending machines (5) selected → E21 [Number vending] OTHERWISE → E22 [Computers used]	

<b>E19</b>	<b>Number residential refrigerators</b>	<i>RFGRSN8</i>
<b>ASK</b>	All Structures IF Residential-type IN E16 [Refrigeration types]	
<p>How many residential-type refrigerators or freezers are there?</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	1 to 999	
<b>NEXT</b>	IF Closed cases or cabinets (4) selected → E20 [Number closed cases] IF Refrigerated vending machines (5) selected → E21 [Number vending] OTHERWISE → E22 [Computers used]	

<b>E20</b>	<b>Number closed cases</b>	<i>RFGLN8</i>
<b>ASK</b>	All Structures IF Closed cases or cabinets IN E16 [Refrigeration types]	
<p>How many closed refrigerated or freezer cases or cabinets are there?</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	1 to 999	
<b>NEXT</b>	IF Refrigerated vending machines (5) selected → E21 [Number vending] OTHERWISE → E22 [Computers used]	

<b>E21</b>	<b>Number vending</b>	<i>RFVNN8</i>
<b>ASK</b>	All Structures IF Refrigerated vending machines IN E16 [Refrigeration types]	
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
<p>How many refrigerated vending machines are there inside the {Structure}?</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	1 to 999	
<b>NEXT</b>	→ E22 [Computers used]	

<b>E22</b>	<b>Computers used</b>	<i>PCTERM8</i>
<b>ASK</b>	All Structures IF Electricity used OR D54 [Energy for generation] = Yes OR E14 [Verify no electricity] = False, electricity is used	
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
<p>Are there any computers used in this {Structure}?</p> <p>◆ EXP: [Do not include inventory, such as in retail stores.]</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → E23 [Dedicated servers] IF No OR DK/RF: IF CBECs Activity = Retail; Food sales OR Food service → E36 [Number of cash registers] OTHERWISE → E37 [Photocopiers]	

<b>E23</b>	<b>Dedicated servers</b>	<i>SERVER8</i>
<b>ASK</b>	All Structures IF E22 [Computers used] = Yes	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
<p>Are there any dedicated computer servers used in this {Structure}?</p> <ul style="list-style-type: none"> <li>◆ DEF: [A server is usually just the CPU, or "case," portion of a computer that manages network resources such as computer files, printers, databases, or network traffic; servers do not require much human operation, so most do not have keyboards or monitors.]</li> <li>◆ DEF: [Dedicated means that the server performs no other tasks besides server tasks.]</li> </ul> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Building → E24 [Separate computer areas] IF Establishment OR Anchor OR Common: IF Yes → E27 [Number of servers] IF No OR DK/RF → E29 [Number of computers]	

<b>WARNING E1</b>	
<b>FAIL</b>	IF CBECS Activity = Data center & E23 [Dedicated servers] = No
<p>I have recorded that this is a data center but that there are no dedicated servers. By definition, data centers usually have dedicated servers. Please let me verify what I have recorded.</p>	

<b>E24</b>	<b>Separate computer areas</b>	<i>see below</i>																		
<b>ASK</b>	IF Building IF E22 [Computers used] = Yes																			
 <b>SHOW CARD E3</b>  Please look at this card and tell me if any of these types of separate computer areas are found in this building.																				
<ul style="list-style-type: none"> <li>◆ PROBE for any others</li> <li>◆ ENTER all that apply</li> </ul>																				
<table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">1</td> <td>Mainframe computer room</td> <td style="text-align: right;"><i>MNFRM8</i></td> </tr> <tr> <td>2</td> <td>"Server farm"</td> <td style="text-align: right;"><i>SRVFRM8</i></td> </tr> <tr> <td>3</td> <td>Computer-based training room</td> <td style="text-align: right;"><i>TRNGRM8</i></td> </tr> <tr> <td>4</td> <td>Student or public computer center</td> <td style="text-align: right;"><i>STDNRM8</i></td> </tr> <tr> <td>5</td> <td>Other type of specialized computer area</td> <td style="text-align: right;"><i>OTPCRM8</i></td> </tr> <tr> <td>6</td> <td colspan="2">IF VOLUNTEERED: None of these types of areas</td> </tr> </table>			1	Mainframe computer room	<i>MNFRM8</i>	2	"Server farm"	<i>SRVFRM8</i>	3	Computer-based training room	<i>TRNGRM8</i>	4	Student or public computer center	<i>STDNRM8</i>	5	Other type of specialized computer area	<i>OTPCRM8</i>	6	IF VOLUNTEERED: None of these types of areas	
1	Mainframe computer room	<i>MNFRM8</i>																		
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3	Computer-based training room	<i>TRNGRM8</i>																		
4	Student or public computer center	<i>STDNRM8</i>																		
5	Other type of specialized computer area	<i>OTPCRM8</i>																		
6	IF VOLUNTEERED: None of these types of areas																			
<b>NEXT</b>	IF Other type of specialized computer area (5) selected → E25 [Other computer area] IF Any other type (1-4) selected → E26 [Computer area percent] IF None of these types of areas (6) OR DK/RF: IF E23 [Dedicated servers] = Yes → E27 [Number of servers] OTHERWISE → E29 [Number of computers]																			

<b>WARNING E2</b>	
<b>FAIL</b>	IF CBECS Activity = Data center & "Server farm" NOT IN E24 [Separate computer areas]
I have recorded that this is a data center but that there are no areas used as a server farm, which is another term for data center. Please let me verify what I have recorded.	

<b>WARNING E3</b>	
<b>FAIL</b>	IF E23 [Dedicated servers] = No & "Server farm" NOT IN E24 [Separate computer areas]
I have recorded that there are no dedicated servers, but that there is space used as a server farm, which is an area that houses many dedicated servers. Please let me verify what I have recorded.	

<b>E25</b>	<b>Other computer area</b>
<b>ASK</b>	IF Building IF Other type of specialized computer area IN E24 [Separate computer areas]
Please describe this other type of computer area.  ◆ RECORD in open box	
<b>NEXT</b>	→ E26 [Computer area percent]

<b>E26</b>	<b>Computer area percent</b>	<i>PCRMP8</i>
<b>ASK</b>	IF Building IF E24 [Separate computer areas] ≠ None of these types of areas OR DK/RF	
Approximately what percent of the floorspace in this building does all of the computer area you just mentioned comprise?		
<b>RANGE</b>	1 to 100	
<b>NEXT</b>	IF E23 [Dedicated servers] = Yes → E27 [Number of servers] OTHERWISE → E29 [Number of computers]	

<b>E27</b>	<b>Number of servers</b>	<i>SRVNUM8</i>
<b>ASK</b>	All Structures IF E23 [Dedicated servers] = Yes	
<b>FILL</b>	<b>{About}</b> IF E24 [Separate computer areas] ≠ None of these OR DK/RF = "Now, thinking again of the whole building and not just the separate computer area, about" OTHERWISE = "About" <b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
{About} how many dedicated servers are used in this {Structure}?		
<b>RANGE</b>	1 to 9,999,999	
<b>NEXT</b>	IF DK/RF → E28 [Servers category] IF Number given → E29 [Number of computers]	

<b>E28</b>	<b>Servers category</b>	<i>SRVRC8</i>
<b>ASK</b>	All Structures IF E27 [Number of servers] = DK/RF	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
 SHOW CARD E4  Looking at this card, which category best describes the number of servers used in this {Structure}?		
1 1 to 4 2 5 to 9 3 10 to 19 4 20 to 49 5 50 to 99 6 100 to 249 7 250 to 499 8 500 to 999 9 1,000 to 2,499 10 2,500 to 4,999 11 5,000 or more		
<b>NEXT</b>	→ E29 [Number of computers]	

<b>E29</b>	<b>Number of computers</b>	<i>PCNUM8</i>
<b>ASK</b>	All Structures IF E22 [Computers used] = Yes	
<b>FILL</b>	<b>{About}</b> IF E23 [Dedicated servers] = Yes & E24 [Separate computer areas] ≠ None of these OR DK/RF = "Still thinking of the whole building, about" IF E23 [Dedicated servers] ≠ Yes & E24 [Separate computer areas] ≠ None of these OR DK/RF = "Now, thinking again of the whole building and not just the separate computer area, about" OTHERWISE = "About" <b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
{About} how many computers are used in this {Structure}?  ◆ EXP: [Do not include inventory, such as in retail stores.]		
<b>RANGE</b>	1 to 9,999,999	
<b>NEXT</b>	IF DK/RF → E30 [Computers category] IF Number given → E31 [Flat screen]	

WARNING E4	
<b>FAIL</b>	IF E29 [Number of computers] ÷ C20 [Number of employees] ≥ 10
<b>FILL</b>	<p><b>{Structure}</b>  IF Building = "building"  IF Establishment OR Anchor = "establishment"  IF Common = "common area"  <b>{Employees}</b> = "C20 [Number of employees]"  <b>{NumPCs}</b> = "E29 [Number of computers]"  <b>{Remind}</b>  IF CBECS Activity = Religious worship = "Remember that volunteers should have been counted as workers."</p>
<p>I have recorded that this {Structure} has {Employees} employees and {NumPCs} computers. This seems like a lot of computers for this few employees. {Remind} Please let me verify what I have recorded.</p>	

WARNING E5	
<b>FAIL</b>	IF A1 [Square footage] ÷ E29 [Number of computers] ≤ 100
<b>FILL</b>	<p><b>{SqFt}</b> = "A1 [Square footage]"  <b>{Structure}</b>  IF Building = "building"  IF Establishment OR Anchor = "establishment"  IF Common = "common area"  <b>{NumPCs}</b> = "E29 [Number of computers]"</p>
<p>I have recorded that this is a {SqFt} square foot {Structure} with {NumPCs} computers. This seems like a lot of computers for this square footage. Please let me verify what I have recorded.</p>	

<b>E30</b>	<b>Computers category</b>	<i>PCTRMC8</i>
<b>ASK</b>	All Structures IF E29 [Number of computers] = DK/RF	
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
 SHOW CARD E4  Looking at this card, which category best describes the number of computers used in this {Structure}?  1 1 to 4 2 5 to 9 3 10 to 19 4 20 to 49 5 50 to 99 6 100 to 249 7 250 to 499 8 500 to 999 9 1,000 to 2,499 10 2,500 to 4,999 11 5,000 or more		
<b>NEXT</b>	IF Any category (1-11) → E31 [Flat screen] IF DK/RF: IF CBECS Activity = Retail; Food sales; OR Food service → E36 [Number of cash registers] OTHERWISE → E37 [Photocopiers]	

<b>E31</b>	<b>Flat screen</b>	<i>FLAT8</i>
<b>ASK</b>	All Structures IF E29 [Number of computers] ≠ DK/RF OR E30 [Computers category] ≠ DK/RF	
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
 SHOW CARD E5  Please look at this picture of a flat screen monitor. Do any of the computers in this {Structure} have these types of monitors?  ◆ DEF: [A flat screen monitor, also known as a liquid crystal display or LCD, is lightweight and very thin, in contrast to most standard monitors which have bulky backs and take up a lot of desk space.]		
<b>NEXT</b>	Yes → E32 [Flat screen category] No OR DK/RF → E33 [Each PC has printer]	

<b>E32</b>	<b>Flat screen category</b>	<i>FLATC8</i>
<b>ASK</b>	All Structures IF E31 [Flat screen] =Yes	
<p>Would you say that all of the computers have this type of monitor, most of them, some of them, or just a few?</p> <p>1 All 2 Most 3 Some 4 A few</p>		
<b>NEXT</b>	→ E33 [Each PC has printer]	

<b>E33</b>	<b>Each PC has printer</b>	<i>PCEQPR8</i>
<b>ASK</b>	All Structures IF E29 [Number of computers] ≠ DK/RF OR E30 [Computers category] ≠ DK/RF	
<p>Does each computer have a printer attached to it?</p> <p>1 Yes 2 No 3 IF VOLUNTEERED: No printers</p>		
<b>NEXT</b>	IF Yes → E35 [Type of printers] IF No OR DK/RF → E34 [Number of printers] IF No printers (3): IF CBECS Activity = Retail; Food sales; OR Food service → E36 [Number of cash registers] OTHERWISE → E37 [Photocopiers]	

<b>E34</b>	<b>Number of printers</b>	<i>PRNTRN8</i>
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
<b>ASK</b>	All Structures IF E33 [Each PC has printer] = No OR DK/RF	
<p>About how many printers are there in this {Structure}?</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	0 to 9,999,999	
<b>NEXT</b>	IF Number given → E35 [Type of printers] IF DK/RF: IF CBECS Activity = Retail; Food sales; OR Food service → E36 [Number of cash registers] OTHERWISE → E37 [Photocopiers]	

<b>E35</b>	<b>Type of printers</b>	<i>PRNTYP8</i>
<b>ASK</b>	All Structures IF E33 [Each PC has printer] = Yes OR E34 [Number of printers] ≠ (DK/RF OR Zero)	
		HELP <F1>
	Are these mainly inkjet or laser printers?	
	1 Inkjet 2 Laser 3 IF VOLUNTEERED: Some other type 4 IF VOLUNTEERED: Half inkjet, half laser	
<b>NEXT</b>	IF CBECs Activity = Retail; Food sales; OR Food service → E36 [Number of cash registers] OTHERWISE → E37 [Photocopiers]	

<b>E36</b>	<b>Number of cash registers</b>	<i>RGSTRN8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF CBECs Activity = Retail; Food sales; OR Food service AND (Electricity used OR D54 [Energy for generation] = Yes OR E14 [Verify no electricity] = False, electricity is used)	
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment"	
	About how many cash registers are used in this {Structure}?	
	◆ PROBE for estimate if DK	
<b>RANGE</b>	0 to 9,999	
<b>NEXT</b>	→ E37 [Photocopiers]	

<b>E37</b>	<b>Photocopiers</b>	<i>COPIER8</i>
<b>ASK</b>	All Structures IF Electricity used OR D54 [Energy for generation] = Yes OR E14 [Verify no electricity] = False, electricity is used	
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
	Are there any photocopiers, other than small desktop copiers, used in this {Structure}?	
	1 Yes 2 No	
<b>NEXT</b>	IF Yes → E38 [Number of photocopiers] IF No OR DK/RF → E39 [FAX machines]	

<b>E38</b>	<b>Number of photocopiers</b>	<i>COPRN8</i>
<b>ASK</b>	All Structures IF E37 [Photocopiers] = Yes	
<p>About how many photocopiers are there?</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	1 to 9,999	
<b>NEXT</b>	→ E39 [FAX machines]	

<b>WARNING E6</b>	
<b>FAIL</b>	IF E38 [Number of photocopiers] ÷ C20 [Number of employees] ≥ 5
<b>FILL</b>	<p><b>{Structure}</b>  IF Building = "building"  IF Establishment OR Anchor = "establishment"  IF Common = "common area"  <b>{Employees}</b> = "C20 [Number of employees]"  <b>{NumCopier}</b> = "E38 [Number of photocopiers]"  <b>{Remind}</b>  IF CBECS Activity = Religious worship = "Remember that volunteers should have been counted as workers."</p>
<p>I have recorded that this {Structure} has {Employees} employees and {NumCopier} copiers. This seems like a lot of copiers for this few employees. {Remind} Please let me verify what I have recorded.</p>	

<b>WARNING E7</b>	
<b>FAIL</b>	IF A1 [Square footage] ÷ E38 [Number of photocopiers] ≤ 500
<b>FILL</b>	<p><b>{SqFt}</b> = "A1 [Square footage]"  <b>{Structure}</b>  IF Building = "building"  IF Establishment OR Anchor = "establishment"  IF Common = "common area"  <b>{NumCopier}</b> = "E38 [Number of photocopiers]"</p>
<p>I have recorded that this is a {SqFt} square foot {Structure} with {NumCopier} copiers. This seems like a lot of copiers for this square footage. Please let me verify what I have recorded.</p>	

<b>E39</b>	<b>FAX machines</b>	<i>FAX8</i>
<b>ASK</b>	All Structures IF Electricity used OR D54 [Energy for generation] = Yes OR E14 [Verify no electricity] = False, electricity is used	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
<p>Are there any FAX machines used in this {Structure}?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF E22 [Computers used] = Yes & C14 [Open 24 hours a day] ≠ Yes & C18 [Total hours open per week] ≠ 168 & C19 [Weekly hours category] ≠ 168 → E40 [Equipment turned off] OTHERWISE: IF C17 [No operating hours] ≠ True, no operating hours & C18 [Total hours open per week] > Zero → E41 [Percent lit when open] OTHERWISE: IF C14 [Open 24 hours a day] ≠ Yes & C18 [Total hours open per week] ≠ 168 & C17 [Weekly hours category] ≠ 168 → E43 [Percent lit when closed] OTHERWISE → E51 [Window glass type]	

<b>E40</b>	<b>Equipment turned off</b>	<i>RDOFEQ8</i>
<b>ASK</b>	All Structures IF E22 [Computers used] = Yes & C14 [Open 24 hours a day] ≠ Yes & C18 [Total hours open per week] ≠ 168 & C19 [Weekly hours category] ≠ 168	
<b>FILL</b>	<b>{Equipment}</b> IF E33 [Each PC has printer] = Yes OR E34 [Number of printers] number was given OR E36 [Number of cash registers] number was given OR E37 [Photocopiers] = Yes OR E39 [FAX machines] = Yes = "the computers and the office equipment just mentioned" OTHERWISE = "the computers" <b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
HELP <F1>		
How often are the majority of {Equipment} turned off when the {Structure} is not normally open? Would you say that they are always turned off, sometimes turned off, or never turned off when the {Structure} is not normally open?  1 Always turned off 2 Sometimes turned off 3 Never turned off 4 IF VOLUNTEERED: Computers are "powered down"		
<b>NEXT</b>	IF C17 [No operating hours] ≠ True, no operating hours & C18 [Total hours open per week] > Zero → E41 [Percent lit when open] OTHERWISE: IF C14 [Open 24 hours a day] ≠ Yes & C18 [Total hours open per week] ≠ 168 & C19 [Weekly hours category] ≠ 168 → E43 [Percent lit when closed] OTHERWISE → E51 [Window glass type]	

<b>E41</b>	<b>Percent lit when open</b>	<i>LTOHRP8</i>
<b>ASK</b>	All Structures IF C17 [No operating hours] ≠ True, no operating hours & C18 [Total hours open per week] > Zero & (Electricity used OR D54 [Energy for generation] = Yes OR E14 [Verify no electricity] = False, electricity is used)	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area" <b>{SqFt}</b> IF Building OR Establishment OR Anchor & A1 [Square footage] known = "A1 [Square footage] square feet" IF Common & A6 [Common area square footage] known = "A6 [Common area square footage] square feet" OTHERWISE = "square footage"	
		HELP <F1>
<p>The next questions are about the lighting inside the {Structure}.</p> <p>What percentage of the {SqFt} in this {Structure} is lit when the {Structure} is normally open?</p> <ul style="list-style-type: none"> <li>◆ DEF: ["Normally open" means the hours when the usual activities occur.]</li> <li>◆ If lit square footage is known but not the percent, RECORD square footage in comments, then code DK</li> </ul>		
<b>RANGE</b>	0 to 100	
<b>NEXT</b>	IF DK/RF → E42 [Lit when open category] IF Percent given: IF C14 [Open 24 hours a day] ≠ Yes & C18 [Total hours open per week] ≠ 168 & C19 [Weekly hours category] ≠ 168 → E43 [Percent lit when closed] OTHERWISE: IF Percent lit when open > 0 → E45 [Lighting types] IF Percent lit when open = 0 → E51 [Window glass type]	

<b>E42</b>	<b>Lit when open category</b>	<i>LOHRPC8</i>
<b>ASK</b>	All Structures IF E41 [Percent lit when open] = DK/RF	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
 SHOW CARD E6		HELP <F1>
<p>Looking at this list, what is your best estimate of the percent of the square feet in this {Structure} that is lit?</p> <ul style="list-style-type: none"> <li>1 1 to 25 percent</li> <li>2 26 to 50 percent</li> <li>3 51 to 75 percent</li> <li>4 76 to 100 percent</li> <li>5 Not lit at all when it is normally open</li> </ul>		
<b>NEXT</b>	IF C14 [Open 24 hours a day] ≠ Yes & C18 [Total hours open per week] ≠ 168 & C19 [Weekly hours category] ≠ 168 → E43 [Percent lit when closed] OTHERWISE: IF 1 to 100 percent (1-4) → E45 [Lighting types] IF Not lit at all (5) → E51 [Window glass type]	

<b>E43</b>	<b>Percent lit when closed</b>	<i>LTNHRP8</i>
<b>ASK</b>	All Structures IF C14 [Open 24 hours a day] ≠ Yes & C18 [Total hours open per week] ≠ 168 & C19 [Weekly hours category] ≠ 168 & (Electricity used OR D54 [Energy for generation] = Yes OR E14 [Verify no electricity] = False, electricity is used) → E43 [Percent lit when closed]	
<b>FILL</b>	<b>{SqFt}</b> IF Building OR Establishment OR Anchor & A1 [Square footage] known = "A1 [Square footage] square feet" IF Common & A6 [Common area square footage] known = "A6 [Common area square footage] square feet" OTHERWISE = "square footage" <b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
HELP <F1>		
What percentage of the {SqFt} is lit during off hours, that is, hours when the {Structure} is not normally open? Exclude the space lit by emergency lighting.		
<ul style="list-style-type: none"> <li>◆ DEF: ["Normally open" means the hours when the usual activities occur.]</li> <li>◆ If lit square footage is known but not the percent, RECORD square footage in comments, then code DK</li> </ul>		
<b>RANGE</b>	0 to 100	
<b>NEXT</b>	IF DK/RF → E44 [Lit when closed category] IF Percent lit when closed > 0 → E45 [Lighting types] IF Percent lit when closed = 0: IF E41 [Percent lit when open] > 0 OR E42 [Lit when open category] ≠ Not lit → E45 [Lighting types] OTHERWISE → E51 [Window glass type]	

<b>E44</b>	<b>Lit when closed category</b>	<i>LNHRPC8</i>
<b>ASK</b>	All Structures IF E43 [Percent lit when closed] = DK/RF	
 SHOW CARD E6		HELP <F1>
<p>Looking at this list, what is your best estimate of the percent lit during off hours?</p> <ol style="list-style-type: none"> <li>1 1 to 25 percent</li> <li>2 26 to 50 percent</li> <li>3 51 to 75 percent</li> <li>4 76 to 100 percent</li> <li>5 Not lit at all during off hours</li> </ol>		
<b>NEXT</b>	IF 1 to 100 percent (1-4) → E45 [Lighting types] IF Not lit at all (5): IF E41 [Percent lit when open] > 0 OR E42 [Lit when open category] ≠ Not lit → E45 [Lighting types] OTHERWISE → E51 [Window glass type]	

<b>E45</b>	<b>Lighting types</b>	<i>see below</i>												
<b>ASK</b>	All Structures IF E41 [Percent lit when open] > 0 OR E42 [Lit when open category] ≠ Not lit OR E43 [Percent lit when closed] > 0 OR E44 [Lit when closed category] ≠ Not lit													
<b>FILL</b>	{Structure} IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"													
 SHOW CARD E7		HELP <F1>												
<p>Looking at this card, what types of lighting were used to light any of the space in this {Structure}?</p> <ul style="list-style-type: none"> <li>◆ PROBE for any others</li> <li>◆ ENTER all that apply</li> </ul> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">1 Fluorescent lighting other than compact fluorescent bulbs</td> <td style="text-align: right;"><i>FLUOR8</i></td> </tr> <tr> <td>2 Compact fluorescent bulbs</td> <td style="text-align: right;"><i>CFLR8</i></td> </tr> <tr> <td>3 Incandescent light bulbs, other than halogen bulbs</td> <td style="text-align: right;"><i>BULB8</i></td> </tr> <tr> <td>4 Halogen bulbs</td> <td style="text-align: right;"><i>HALO8</i></td> </tr> <tr> <td>5 High intensity discharge (HID) lights such as high pressure sodium, metal halide or mercury vapor</td> <td style="text-align: right;"><i>HID8</i></td> </tr> <tr> <td>6 Other type of lighting</td> <td style="text-align: right;"><i>OTLT8</i></td> </tr> </table>			1 Fluorescent lighting other than compact fluorescent bulbs	<i>FLUOR8</i>	2 Compact fluorescent bulbs	<i>CFLR8</i>	3 Incandescent light bulbs, other than halogen bulbs	<i>BULB8</i>	4 Halogen bulbs	<i>HALO8</i>	5 High intensity discharge (HID) lights such as high pressure sodium, metal halide or mercury vapor	<i>HID8</i>	6 Other type of lighting	<i>OTLT8</i>
1 Fluorescent lighting other than compact fluorescent bulbs	<i>FLUOR8</i>													
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5 High intensity discharge (HID) lights such as high pressure sodium, metal halide or mercury vapor	<i>HID8</i>													
6 Other type of lighting	<i>OTLT8</i>													
<b>NEXT</b>	IF Other (6) selected → E46 [Other bulb type] OTHERWISE: IF More than one type selected → E47 [Percent lit by bulb type] IF Only one type selected: IF Fluorescent (1) selected → E48 [Specular reflectors] IF HID (5) selected → E49 [Electronic ballasts] IF D28 [How reduce heating] = EMCS OR D40 [How reduce cooling] = EMCS → E50 [EMCS controls lighting] OTHERWISE → E51 [Window glass type]													

<b>E46</b>	<b>Other bulb type</b>	<i>OTLTX8</i>
<b>ASK</b>	All Structures IF Other type of lighting IN E45 [Lighting types]	
<p>What type of bulb is the other type of lighting?</p> <ul style="list-style-type: none"> <li>◆ RECORD in space below</li> </ul>		
<b>NEXT</b>	IF More than one type selected in E45 [Lighting types] → E47 [Percent lit by bulb type] IF Only one type selected in E45 [Lighting types]: IF Fluorescent in E45 [Lighting types] → E48 [Specular reflectors] IF HID in E45 [Lighting types] → E49 [Electronic ballasts] IF D28 [How reduce heating] = EMCS OR D40 [How reduce cooling] = EMCS → E50 [EMCS controls lighting] OTHERWISE → E51 [Window glass type]	

<b>E47</b>	<b>Percent lit by bulb type</b> <i>FLUORP8, CFLRP8, BULBP8, HALOP8, HIDP8, OTLTP8</i>
<b>ASK</b>	All Structures For each lighting type given in E45 [Lighting types]
<b>FILL</b>	<p><b>{Introduction}</b> IF First lighting type = “The next questions are about the percent of floorspace lit by the types of lighting you just mentioned. Please keep in mind: “ OTHERWISE = BLANK</p> <p><b>{Explanation}</b> IF First lighting type and E41 [Percent lit when open] <math>\neq</math> 100 = “We are talking only about the <u>lighted portion</u> of the floorspace, so these percents must add up to at least 100, but since more than one type of bulb can light the same area, it is also possible for them to add up to <u>more</u> than 100.” IF First lighting type and E41 [Percent lit when open] = 100 = “These percents must add up to at least 100, but since more than one type of bulb can light the same area, it is also possible for them to add up to <u>more</u> than 100.” OTHERWISE = BLANK</p> <p><b>{Structure}</b> IF Building = “building” IF Establishment OR Anchor = “establishment” IF Common = “common area”</p> <p><b>{BulbType}</b> IF Fluorescent IN E45 [Lighting types] = “fluorescent lighting” IF Compact fluorescent bulbs IN E45 [Lighting types] = “compact fluorescent bulbs” IF Incandescent light bulbs IN E45 [Lighting types] = “incandescent bulbs” IF Halogen bulbs IN E45 [Lighting types] = “halogen lighting” IF High intensity discharge (HID) lights IN E45 [Lighting types] = “high intensity discharge lights” IF Other type of lighting IN E45 [Lighting types] = “other lighting type”</p>
 SHOW CARD E8  {Introduction}  {Explanation}  What percent of the lighted area in this {Structure} is lit by the {BulbType}?  ◆ PROBE for estimate if DK	
<b>RANGE</b>	0 to 100
<b>NEXT</b>	IF Fluorescent in E45 [Lighting types] → E48 [Specular reflectors] IF HID in E45 [Lighting types] → E49 [Electronic ballasts] IF D28 [How reduce heating] = EMCS OR D40 [How reduce cooling] = EMCS → E50 [EMCS controls lighting] OTHERWISE → E51 [Window glass type]

WARNING E8	
<b>FAIL</b>	IF Any percent given in E47 [Percent lit by bulb type] = Zero
<b>FILL</b>	<b>{BulbType}</b> IF Fluorescent = "fluorescent" IF Compact fluorescent bulbs = "compact fluorescent" IF Incandescent light bulbs = "incandescent" IF Halogen bulbs = "halogen" IF High intensity discharge (HID) lights = "high intensity discharge" IF Other type of lighting = "some other type of"
<p>I have recorded that {BulbType} lighting is used, but that zero percent is lit by {BulbType} lighting. Please let me verify what I have recorded.</p>	

ERROR E9	
<b>FAIL</b>	IF The sum of the percents given in E47 [Percent lit by bulb type] < 99
<p>The percents that I have entered do not add up to 100 and they <u>must</u> sum to 100 or more. Please let me verify these percents.</p> <p>&gt; Go to first percent and verify each one with the respondent.</p>	

E48	Specular reflectors	<i>SREF8</i>
<b>ASK</b>	All Structures IF Fluorescent in E45 [Lighting types]	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
<p>Does your {Structure}'s interior lighting system have any specular reflectors, which are designed to increase the amount of light from a fluorescent fixture?</p> <p>◆ DEF: [A specular reflector consists of a reflective surface or panel attached to a fluorescent lamp to direct a greater fraction of the lamp's light to the room.]</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	→ E49 [Electronic ballasts]	

<b>E49</b>	<b>Electronic ballasts</b>	<i>HEB8</i>
<b>ASK</b>	All Structures IF Fluorescent OR HID in E45 [Lighting types]	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
<p>Do any of the {Structure}'s lights have electronic ballasts?</p> <ul style="list-style-type: none"> <li>◆ DEF: [A ballast is the transformer for fluorescent and HID lamps which provides the necessary current, voltage, and wave-form conditions to operate the lamp. Electronic ballasts operate lamps using electronic switching power supply circuits, are lightweight, and start instantly without flickering.]</li> <li>◆ EXP: [Do <u>not</u> include magnetic ballasts.]</li> </ul> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF D28 [How reduce heating] = EMCS OR D40 [How reduce cooling] = EMCS → E50 [EMCS controls lighting] OTHERWISE → E51 [Window glass type]	

<b>E50</b>	<b>EMCS controls lighting</b>	<i>EMCSLT8</i>
<b>ASK</b>	All Structures IF (E41 [Percent lit when open] > 0 OR E42 [Lit when open category] ≠ Not lit OR E43 [Percent lit when closed] > 0 OR E44 [Lit when closed category] ≠ Not lit) & D28 [How reduce heating] = EMCS OR D40 [How reduce cooling] = EMCS	
HELP <F1>		
<p>Does the "Energy Management and Control System (EMCS)" that you mentioned earlier also control the interior lighting system?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	→ E51 [Window glass type]	

<b>E51</b>	<b>Window glass type</b>	<i>WINTYP8</i>
<b>ASK</b>	All Structures	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
 SHOW CARD E9  Looking at the picture on this card, which shows a multi-layer window, do the exterior windows in this {Structure} contain single layer glass, multi-layer glass, or a combination of both of these types?  1 Single layer glass 2 Multi-layer glass 3 Combination of both 4 IF VOLUNTEERED: No windows		
<b>NEXT</b>	IF Single layer, Multi-layer, OR Combination (1-3) → E52 [Daylighting features] IF No windows (4) OR DK/RF → F1 [Section F Routing]	

<b>E52</b>	<b>Daylighting features</b>	<i>see below</i>
<b>ASK</b>	All Structures IF E51 [Window glass type] ≠ (No windows OR DK/RF)	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
 SHOW CARD E9  Looking at the list at the bottom of this same card, please tell me which of these daylighting or conservation features are present in this {Structure}.  ◆ PROBE for any others  ◆ ENTER all that apply  1 Tinted window glass <span style="float: right;"><i>TINT8</i></span> 2 Reflective window glass <span style="float: right;"><i>REFL8</i></span> 3 External overhangs or awnings <span style="float: right;"><i>AWN8</i></span> 4 Skylights or atriums designed to provide light <span style="float: right;"><i>SKYLT8</i></span> 5 Automatic controls or sensors that increase or reduce lighting in response to the level of natural light <span style="float: right;"><i>AUTOLT8</i></span> 6 IF VOLUNTEERED: None of these		
<b>NEXT</b>	→ E53 [Percent daylight]	

<b>E53</b>	<b>Percent daylight</b>	<i>DAYLTP8</i>
<b>ASK</b>	All Structures IF E51 [Window glass type] ≠ (No windows OR DK/RF)	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment" IF Common = "common area"	
What percent of the {Structure} receives enough outside light so that the interior lights do not need to be turned on? <ul style="list-style-type: none"> <li>◆ If none, ENTER "0"</li> <li>◆ PROBE for estimate if DK</li> </ul>		
<b>RANGE</b>	0 to 100	
<b>NEXT</b>	→ F1 [Section F Routing]	

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## SECTION F. ELECTRICITY

<b>F1</b>	<b>Section F Routing</b>
<b>NEXT</b>	IF Electricity used → F2 [WS2 electricity filled out] OTHERWISE → G1 [Section G Routing]

<b>F2</b>	<b>WS2 electricity filled out</b>	<i>WS2ELCE8</i>
<b>ASK</b>	All Structures IF Electricity used	
<p>Do you have Worksheet 2 with you and filled out for electricity?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Establishment OR Anchor → F3 [Billed for electricity] IF Common → F5 [Electricity bill coverage] IF Building: IF No OR DK/RF → F9 [Provide electricity figures] IF Yes → F10 [Electricity consumption]	

<b>F3</b>	<b>Billed for electricity</b>	<i>ELESTBL8</i>
<b>ASK</b>	IF Establishment OR Anchor IF Electricity used	
<p>Does this establishment receive a bill for all of the electricity used, for only some of the electricity, or is it not billed for any electricity directly [that is, it is included in the rent]?</p> <p>1 Receives bills for all 2 Receives bills for some 3 Is not billed for any</p>		
<b>NEXT</b>	IF Receives bills for some (2) → F4 [Describe electricity billing] IF Receives bills for all (1) OR DK/RF: IF F2 [WS2 electricity filled out] = No OR DK/RF → F9 [Provide electricity figures] IF F2 [WS2 electricity filled out] = Yes → F10 [Electricity consumption] IF Is not billed for any (3) → G1 [Section G Routing]	

<b>F4</b>	<b>Describe electricity billing</b>
<b>ASK</b>	IF Establishment OR Anchor IF F3 [Billed for electricity] = Receives bills for some
<p>Please describe the electricity billing arrangement for this establishment.</p> <p>◆ RECORD in open box</p>	
<b>NEXT</b>	IF F2 [WS2 electricity filled out] = No OR DK/RF → F9 [Provide electricity figures] IF F2 [WS2 electricity filled out] = Yes → F10 [Electricity consumption]

<b>F5</b>	<b>Electricity bill coverage</b>	<i>ELCOMBL8</i>
<b>ASK</b>	IF Common IF Electricity used	
<p>Do your electricity bills cover just the common area of the mall, the common area and all of the individual establishments, or the common area and only some of the establishments?</p> <ol style="list-style-type: none"> <li>1 Bills cover only common area</li> <li>2 Bills cover common area and all establishments</li> <li>3 Bills cover common area and some establishments</li> <li>4 IF VOLUNTEERED: Some other combination</li> </ol>		
<b>NEXT</b>	IF Common area and some establishments (3) → F6 [Extent electricity coverage] IF Some other combination (4) → F7 [Other electricity coverage] IF Only common area (1) OR Common area and all establishments (2) OR DK/RF: IF A5 [Food court] = Yes & Electricity IN D50 [Sources for cooking] → F8 [Electricity covers food court] OTHERWISE: IF F2 [WS2 electricity filled out] = No OR DK/RF → F9 [Provide electricity figures] IF F2 [WS2 electricity filled out] = Yes → F10 [Electricity consumption]	

<b>F6</b>	<b>Extent electricity coverage</b>
<b>ASK</b>	IF Common IF F5 [Electricity bill coverage] = Bills cover common area and some establishments
<p>To what extent do you pay the electricity for the establishments?</p> <p>◆ RECORD the number or percent of stores, for example, in the open box</p>	
<b>NEXT</b>	IF A5 [Food court] = Yes & Electricity IN D50 [Sources for cooking] → F8 [Electricity covers food court] OTHERWISE: IF F2 [WS2 electricity filled out] = No OR DK/RF → F9 [Provide electricity figures] IF F2 [WS2 electricity filled out] = Yes → F10 [Electricity consumption]

<b>F7</b>	<b>Other electricity coverage</b>
<b>ASK</b>	IF Common IF F5 [Electricity bill coverage] = Some other combination
Please describe what is covered by the electricity bills.  ◆ RECORD in open box	
<b>NEXT</b>	IF A5 [Food court] = Yes & Electricity IN D50 [Sources for cooking] → F8 [Electricity covers food court] OTHERWISE: IF F2 [WS2 electricity filled out] = No OR DK/RF → F9 [Provide electricity figures] IF F2 [WS2 electricity filled out] = Yes → F10 [Electricity consumption]

<b>F8</b>	<b>Electricity covers food court</b>	<i>ELFDCT8</i>
<b>ASK</b>	IF Common IF A5 [Food court] = Yes & Electricity IN D50 [Sources for cooking]	
Do your electricity bills include the energy used for cooking by the establishments in the food court?		
<b>NEXT</b>	IF F2 [WS2 electricity filled out] = No OR DK/RF → F9 [Provide electricity figures] IF F2 [WS2 electricity filled out] = Yes → F10 [Electricity consumption]	

<b>F9</b>	<b>Provide electricity figures</b>	<i>ELFIGS8</i>
<b>ASK</b>	All Structures IF (Building OR Common) & F2 [WS2 electricity filled out] = No OR DK/RF IF (Establishment OR Anchor) & F2 [WS2 electricity filled out] = No OR DK/RF & F3 [Billed for electricity] ≠ Is not billed for any	
<b>FILL</b>	{Structure} IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common: IF F5 [Electricity bill coverage] = Bills cover only common area = "the common area" IF F5 [Electricity bill coverage] = Bills cover common area and some establishments OR Some other combination = "the common area and establishments that you just told me about" IF F5 [Electricity bill coverage] = Bills cover common area and all establishments = "the common area and establishments" IF F5 [Electricity bill coverage] = DK/RF = "this mall"	
The next questions are about electricity usage in {Structure} during the past 12 months. Would you be able to give me an approximate figure of how much electricity was used or how much was spent on it?  1 Yes 2 No		
<b>NEXT</b>	IF Yes → F10 [Electricity consumption] IF No OR DK/RF → F25 [Number electricity suppliers]	

<b>F10</b>	<b>Electricity consumption</b>	<i>ELCNS8</i>
<b>ASK</b>	All Structures IF F2 [WS2 electricity filled out] = Yes OR F9 [Provide electricity figures] = Yes	
		HELP <F1>
	Please give me the total number of kilowatthours of electricity used in the past 12 months.	
	<ul style="list-style-type: none"> <li>◆ EXP: [If part of a multibuilding campus or complex, and the respondent only knows the consumption for the whole campus or complex, ENTER the total consumption for the campus or complex here.]</li> <li>◆ VERIFY number <u>digit by digit</u></li> </ul>	
<b>RANGE</b>	1 to 99,999,999,999,999	
<b>NEXT</b>	→ F11 [Electricity expenditures]	

<b>F11</b>	<b>Electricity expenditures</b>	<i>ELEXP8</i>
<b>ASK</b>	All Structures IF F2 [WS2 electricity filled out] = Yes OR F9 [Provide electricity figures] = Yes	
		HELP <F1>
	Please give me the total dollars spent on electricity in the past 12 months. This should include state and local taxes and the following charges: fuel adjustment, system, distribution, and demand.	
	<ul style="list-style-type: none"> <li>◆ Do <u>not</u> enter cents</li> <li>◆ VERIFY number <u>digit by digit</u></li> </ul>	
<b>RANGE</b>	0 to 999,999,999	
<b>NEXT</b>	IF F10 [Electricity consumption] = DK/RF & F11 [Electricity expenditures] = DK/RF → F25 [Number electricity suppliers] OTHERWISE → F12 [Starting date for electricity figures]	

<b>WARNING F1</b>	
<b>FAIL</b>	IF F11 [Electricity expenditures] ÷ F10 [Electricity consumption] ≤ 0.03
<b>FILL</b>	{Cons} = "F10 [Electricity consumption]" {Exp} = "F11 [Electricity expenditures]" {Cents} = (F11 [Electricity expenditures] ÷ F10 [Electricity consumption]) × 100
I have recorded that the electricity consumption is {Cons} kilowatthours and that the total amount spent on this electricity was \$ {Exp}. This means that the price was {Cents} cents per kilowatthour, which does not seem like very much. Please let me verify what I have recorded.	

WARNING F2	
<b>FAIL</b>	IF F11 [Electricity expenditures] ÷ F10 [Electricity consumption] ≥ 0.20
<b>FILL</b>	{Cons} = "F10 [Electricity consumption]" {Exp} = "F11 [Electricity expenditures]" {Price} = F11 [Electricity expenditures] ÷ F10 [Electricity consumption]
<p>I have recorded that the electricity consumption is {Cons} kilowatthours and that the total amount spent on this electricity was \$ {Exp}. This means that the price was \$ {Price} per kilowatthour, which seems like a lot. Please let me verify what I have recorded.</p>	

<b>F12</b>	<b>Starting date for electricity figures</b>	<i>ELSTDAT8</i>
<b>ASK</b>	All Structures IF F10 [Electricity consumption] given OR F11 [Electricity expenditures] given	
		HELP <F1>
<p>What is the starting date for these electricity usage figures?</p> <ul style="list-style-type: none"> <li>◆ ENTER date as MMDDYYYY</li> <li>◆ If the day is not known, ENTER "15"</li> </ul>		
<b>NEXT</b>	→ F13 [Ending date for electricity figures]	

WARNING F3	
<b>FAIL</b>	IF Year given in F12 [Starting date for electricity figures] is earlier than 2002 OR later than 2004
<b>FILL</b>	{StartDate} = F12 [Starting date for electricity figures] in format MM/DD/YYYY
<p>I have recorded the starting date as {StartDate}. Since we are asking about the past 12 months, the starting year should not be any earlier than 2002 nor later than 2004. Please let me verify what I have recorded.</p>	

<b>F13</b>	<b>Ending date for electricity figures</b>	<i>ELENDAT8</i>
<b>ASK</b>	All Structures IF F10 [Electricity consumption] given OR F11 [Electricity expenditures] given	
		HELP <F1>
	What is the ending date [for these electricity usage figures]?	
	<ul style="list-style-type: none"> <li>◆ ENTER date as MMDDYYYY</li> <li>◆ If the day is not known, ENTER "15"</li> </ul>	
<b>NEXT</b>	IF Building → F14 [Other bldgs use included] IF Common → F16 [Include other major electricity] IF Establishment OR Anchor: IF Independent power producer or non-local utility OR Bought from someone else IN D65 [How purchase electricity] → F17 [Include all non-local electricity] OTHERWISE: IF F2 [WS2 electricity filled out] = Yes → F19 [Monthly electricity included] IF F2 [WS2 electricity filled out] = No OR DK/RF → F20 [Monthly electricity available]	

<b>WARNING F4</b>	
<b>FAIL</b>	IF Year given in F13 [Ending date for electricity figures] is earlier than 2002 OR later than 2004
<b>FILL</b>	{EndDate} = F13 [Ending date for electricity figures] in format MM/DD/YYYY
I have recorded the ending date as {EndDate}. Since we are asking about the past 12 months, the ending year should not be any earlier than 2002 nor later than 2004. Please let me verify what I have recorded.	

<b>WARNING F5</b>	
<b>FAIL</b>	IF F12 [Starting date for electricity figures] is equal to OR later than F13 [Ending date for electricity figures]
<b>FILL</b>	{StartDate} = F12 [Starting date for electricity figures] in format MM/DD/YYYY {EndDate} = F13 [Ending date for electricity figures] in format MM/DD/YYYY
The starting date of {StartDate} is later than or equal to the ending date of {EndDate}. Please let me verify what I have recorded.	

<b>F14</b>	<b>Other bldgs use included</b>	<i>ELOTBD8</i>
<b>ASK</b>	IF Building IF F10 [Electricity consumption] given OR F11 [Electricity expenditures] given	
<p>Is any consumption from other buildings included in these figures?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → F15 [Sq ft of other included] IF No OR DK/RF → F16 [Include other major electricity]	

<b>F15</b>	<b>Sq ft of other included</b>	<i>ELOTSF8</i>
<b>ASK</b>	IF Building IF F14 [Other bldgs use included] = Yes	
<p>What is the approximate square footage of the <u>other</u> buildings that are included in these figures?</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	1 to 999,999,999	
<b>NEXT</b>	→ F16 [Include other major electricity]	

<b>F16</b>	<b>Include other major electricity</b>	<i>ELOTUS8</i>
<b>ASK</b>	IF Building OR Common IF F10 [Electricity consumption] given OR F11 [Electricity expenditures] given	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Common = "mall as a whole"	
<p>Do these figures include charges for any <u>other</u> major electricity usage outside the {Structure}, such as parking lot lights, exterior lights, signs or billboards, large pumps, or swimming pools?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Independent power producer or non-local utility OR Bought from someone else IN D64 [How purchase electricity] → F17 [Include all non-local electricity] <b>OTHERWISE:</b> IF F2 [WS2 electricity filled out] = Yes → F19 [Monthly electricity included] IF F2 [WS2 electricity filled out] = No OR DK/RF → F20 [Monthly electricity available]	

<b>F17</b>	<b>Include all non-local electricity</b>	<i>ELNONU8</i>
<b>ASK</b>	All Structures IF (F10 [Electricity consumption] given OR F11 [Electricity expenditures] given) & (Independent power producer or non-local utility OR Bought from someone else IN D64 [How purchase electricity])	
Do these figures include all the electricity from the independent power producer, non-local utility, or broker?		
1 Yes 2 No		
<b>NEXT</b>	IF No → F18 [What not included] IF Yes OR DK/RF: IF F2 [WS2 electricity filled out] = Yes → F19 [Monthly electricity included] IF F2 [WS2 electricity filled out] = No OR DK/RF → F20 [Monthly electricity available]	

<b>F18</b>	<b>What not included</b>
<b>ASK</b>	All Structures IF F17 [Include all non-local electricity] = No
What was not included?	
◆ RECORD the additional charges in the open box	
<b>NEXT</b>	IF F2 [WS2 electricity filled out] = Yes → F19 [Monthly electricity included] IF F2 [WS2 electricity filled out] = No OR DK/RF → F20 [Monthly electricity available]

<b>F19</b>	<b>Monthly electricity included</b>	<i>ELINC128</i>
<b>ASK</b>	All Structures IF (F10 [Electricity consumption] given OR F11 [Electricity expenditures] given) & F2 [WS2 electricity filled out] = Yes	
Did you include your monthly electricity usage on Worksheet 2?		
1 Yes 2 No		
<b>NEXT</b>	No OR DK/RF → F20 [Monthly electricity available] Yes → F21 [Copy of bill available]	

<b>F20</b>	<b>Monthly electricity available</b>	<i>ELHAV128</i>
<b>ASK</b>	All Structures IF (F10 [Electricity consumption] given OR F11 [Electricity expenditures] given) & (F2 [Worksheet 2 electricity out] = No OR DK/RF OR F18 [Monthly electricity available] = No OR DK/RF)	
Do you have a record of the monthly electricity use that I could have to help us better understand the seasonal patterns of electricity use? <p>◆ If available, you will be prompted again to collect this at the end of the interview, so it is not necessary to stop the interview to collect it here</p> <p>1 Yes, monthly electricity available  2 No, will not be able to provide monthly electricity</p>		
<b>NEXT</b>	→ F21 [Copy of bill available]	

<b>F21</b>	<b>Copy of bill available</b>	<i>ELBILL8</i>
<b>ASK</b>	All Structures IF F10 [Electricity consumption] given OR F11 [Electricity expenditures] given	
Would it be possible for me to have a copy of one electricity bill? There is information on some utility bills that may help energy researchers put these figures together. <p>◆ EXP: [Examples of these items include miscellaneous charges, past months data, and units of measure.]</p> <p>◆ If available, you will be prompted again to collect this at the end of the interview, so it is not necessary to stop the interview to collect it here</p> <p>1 Yes, copy of bill available  2 No, will not be able to provide copy of bill</p>		
<b>NEXT</b>	IF Common OR (A1 [Square footage] = DK/RF & A2 [Square footage category] = DK/RF) OR D1 [Uses of energy] = DK/RF → F25 [Number electricity suppliers] OTHERWISE, Based on various characteristics of the structure, Blaise will use a detailed equation to compute predicted consumption and expenditures estimates. THEN: IF F10 [Electricity consumption] > [Predicted consumption] × 8 OR F11 [Electricity expenditures] > [Predicted expenditures] × 8 → F22 [Anything unusual] IF F10 [Electricity consumption] < [Predicted consumption] ÷ 13 OR F11 [Electricity expenditures] < [Predicted expenditures] ÷ 13 → F23 [Anything unusual] OTHERWISE → G1 [Section G Routing]	

<b>F22</b>	<b>Anything unusual</b>	<i>ELHIGH8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF (A1 [Square footage] known OR A2 [Square footage category] known) & D1 [Uses of energy] known & (F10 [Electricity consumption] > [Predicted consumption] × 8 OR F11 [Electricity expenditures] > [Predicted expenditures] × 8)	
<b>FILL</b>	<b>{Structure}</b> IF Building = “building” IF Establishment OR Anchor = “establishment”	
<p>These usage figures seem high for what you have told me about this {Structure}. Is there anything unusual that might explain this high usage?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → F24 [What is unusual] IF No OR DK/RF → F25 [Number electricity suppliers]	

<b>F23</b>	<b>Anything unusual</b>	<i>ELLOW8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF (A1 [Square footage] known OR A2 [Square footage category] known) & D1 [Uses of energy] known & (F10 [Electricity consumption] < [Predicted consumption] ÷ 13 OR F11 [Electricity expenditures] < [Predicted expenditures] ÷ 13)	
<b>FILL</b>	<b>{Structure}</b> IF Building = “building” IF Establishment OR Anchor = “establishment”	
<p>These usage figures seem low for what you have told me about this {Structure}. Is there anything unusual that might explain this low usage?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → F24 [What is unusual] IF No OR DK/RF → F25 [Number electricity suppliers]	

<b>F24</b>	<b>What is unusual</b>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF F21 OR F22 [Anything unusual] = Yes
<b>FILL</b>	<b>{Structure}</b> IF Building = “building” IF Establishment OR Anchor = “establishment”
<p>Please tell me [what is out of the ordinary about this {Structure}].</p> <p>◆ RECORD in open box</p>	
<b>NEXT</b>	→ G1 [Section G Routing]

<b>F25</b>	<b>Number electricity suppliers</b>	<i>ELNUMSP8</i>
<b>ASK</b>	<p>All Structures  IF F9 [Provide electricity figures] = No OR DK/RF  IF F10 [Electricity consumption] = DK/RF &amp; F11 [Electricity expenditures] = DK/RF  IF F21 OR F23 [Anything unusual] = No OR DK/RF  IF Electricity used &amp; (Common OR (A1 [Square footage] = DK/RF  &amp; A2 [Square footage category] = DK/RF) OR D1 [Uses of energy] = DK/RF)</p>	
<b>FILL</b>	<p><b>{SuppliersIntro}</b>  IF (F9 [Provide electricity figures] = No OR DK/RF) OR (F10 [Electricity consumption] = DK/RF  &amp; F11 [Electricity expenditures] = DK/RF) = "We should be able to obtain this information directly  from your electricity supplier, so I just need to collect some information about your electricity  accounts."  OTHERWISE = "We may need to go to your supplier to verify some information, so I need to ask you  some questions about your electricity supplier or suppliers."  <b>{Structure}</b>  IF Building = "this building"  IF Establishment OR Anchor = "this establishment"  IF Common:  IF F5 [Electricity bill coverage] = Bills cover only common area = "the common area"  IF F5 [Electricity bill coverage] = Bills cover common area and some establishments OR Some other  combination = "the common area and establishments that you just told me about"  IF F5 [Electricity bill coverage] = Bills cover common area and all establishments = "the common  area and establishments"  IF F5 [Electricity bill coverage] = DK/RF = "this mall"</p>	
<p>{SuppliersIntro}</p> <p>In some parts of the country, customers can purchase energy from more than one supplier. How many different  companies supplied electricity to {Structure} during the past 12 months?</p>		
<b>RANGE</b>	1 to 4	
<b>NEXT</b>	Number given → F26 [Electricity suppliers] DK/RF → G1 [Section G Routing]	

<b>F26</b>	<b>Electricity suppliers</b>	<i>EL1LKP8—EL4LKP8</i>
<b>ASK</b>	All Structures IF F25 [Number electricity suppliers] given	
<b>FILL</b>	<b>{FirstNext}</b> IF Only one supplier = BLANK IF First supplier given = "first" OTHERWISE = "next"	
<p>What is the name of the {FirstNext} supplier that provided electricity in the past 12 months?</p> <ul style="list-style-type: none"> <li>◆ Start typing the name of the supplier or use &lt;BACKSPACE&gt; to bring up the look-up table</li> <li>◆ Type in the first few letters of the supplier name, and the look-up table will scroll to the closest match</li> <li>◆ If you find a match, make sure the correct line is highlighted (blue) and press &lt;ENTER&gt;</li> <li>◆ If you don't find a match, use &lt;BACKSPACE&gt; to clear the Search line, which will bring you back to the top of the look-up table where ** NOT ON LIST will be highlighted, then press &lt;ENTER&gt; two times</li> </ul>		
<b>NEXT</b>	IF NOT ON LIST selected → F27 [Supplier name] IF Supplier found in look-up table → F33 [Number electricity accounts] IF DK/RF: IF Only one supplier or last supplier → G1 [Section G Routing] IF More suppliers left to answer for → Ask F26 [Electricity suppliers] again for next supplier	

<b>F27</b>	<b>Supplier name</b>	<i>EL1NEW8—EL4NEW8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in F26 [Electricity suppliers]	
<ul style="list-style-type: none"> <li>◆ ENTER the name of the supplier</li> </ul>		
<b>NEXT</b>	IF Name given → F28 [Street address] IF DK/RF: IF Only one supplier or last supplier → G1 [Section G Routing] IF More suppliers left to answer for → Back to F26 [Electricity suppliers] for next supplier	

<b>F28</b>	<b>Street address</b>	<i>EL1AD18—EL4AD18</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in F26 [Electricity suppliers]	
<b>FILL</b>	<b>{Supplier}</b> = "F27 [Supplier name]"	
<p>What is the address for {Supplier}, beginning with the street?</p>		
<b>NEXT</b>	→ F29 [P.O. Box or Suite]	

<b>F29</b>	<b>P.O. Box or Suite</b>	<i>EL1AD28—EL4AD28</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in F26 [Electricity suppliers]	
Is there a post office box or suite number?  ◆ If not, press <ENTER>		
<b>NEXT</b>	→ F30 [City]	

<b>F30</b>	<b>City</b>	<i>EL1CTY8—EL4CTY8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in F26 [Electricity suppliers]	
What is the city?		
<b>NEXT</b>	→ F31 [State abbreviation]	

<b>F31</b>	<b>State abbreviation</b>	<i>EL1STA8—EL4STA8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in F26 [Electricity suppliers]	
What is the state?  ◆ ENTER the two letter abbreviation		
<b>NEXT</b>	→ F32 [Zip code]	

<b>F32</b>	<b>Zip code</b>	<i>EL1ZIP8—EL4ZIP8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in F26 [Electricity suppliers]	
And what is the zip code?		
<b>NEXT</b>	→ F33 [Number electricity accounts]	

<b>F33</b>	<b>Number electricity accounts</b>	<i>EL1NAC8—EL4NAC8</i>
<b>ASK</b>	All Structures IF Supplier found in F26 [Electricity suppliers] look-up table OR F27 [Supplier name] given	
<b>FILL</b>	<b>{Structure}</b> IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common: IF F5 [Electricity bill coverage] = Bills cover only common area = "the common area" IF F5 [Electricity bill coverage] = Bills cover common area and all establishments OR Bills cover common area and some establishments OR Some other combination = "the common area and establishments" IF F5 [Electricity bill coverage] = DK/RF = "this mall" <b>{Supplier}</b> = Supplier name from F26 [Electricity suppliers] look-up table OR F27 [Supplier name]	
How many different electricity accounts does {Structure} have with {Supplier}?		
<b>RANGE</b>	1 to 999	
<b>NEXT</b>	IF 1 to 10 accounts → F34 [Electricity account number] IF More than 10 accounts OR DK/RF: IF F21 [Copy of bill available] NOT already asked → F39 [Copy of bill available] IF Only one supplier or last supplier → G1 [Section G Routing] IF More suppliers left to answer for → Back to F26 [Electricity suppliers] for next supplier	

<b>F34</b>	<b>Electricity account number</b>	<i>EL1AC18—EL4AC108</i>
<b>ASK</b>	All Structures IF F33 [Number electricity accounts] = 1 to 10 Ask as many times as account numbers given, or until DK/RF	
<b>FILL</b>	<b>{FirstNext}</b> IF Only one account = BLANK IF First account given = "first" OTHERWISE = "next" <b>{Supplier}</b> = Supplier name from F26 [Electricity suppliers] look-up table OR F27 [Supplier name]	
Please give me the {FirstNext} electricity account number for {Supplier}.		
◆ VERIFY number <u>digit by digit</u>		
<b>NEXT</b>	IF Independent power producer or non-local utility OR Bought from someone else IN D64 [How purchase electricity] → F35 [Supplier is non-local utility] OTHERWISE: IF Building → F36 [Bills cover only building] IF Common → F38 [Include other major electricity] IF Establishment OR Anchor: IF F21 [Copy of bill available] NOT already asked → F39 [Copy of bill available] IF Only one supplier or last supplier → G1 [Section G Routing] IF More suppliers left to answer for → Back to F26 [Electricity suppliers] for next supplier	

<b>F35</b>	<b>Supplier is non-local utility</b>	<i>EL1NONU8—EL4NONU8</i>
<b>ASK</b>	All Structures IF (Supplier found in F26 [Electricity suppliers] look-up table OR F27 [Supplier name] given) & (Independent power producer or non-local utility OR Bought from someone else IN D64 [How purchase electricity])	
<b>FILL</b>	<b>{Supplier}</b> = Supplier name from F26 [Electricity suppliers] look-up table OR F27 [Supplier name]	
<p>You mentioned earlier that you purchase electricity from an independent power producer, non-local utility, or broker. Is {Supplier} one of those companies?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Building → F36 [Bills cover only building] IF Common → F38 [Include other major electricity] IF Establishment OR Anchor: IF F21 [Copy of bill available] NOT already asked → F39 [Copy of bill available] IF Only one supplier or last supplier → G1 [Section G Routing] IF More suppliers left to answer for → Back to F26 [Electricity suppliers] for next supplier	

<b>F36</b>	<b>Bills cover only building</b>	<i>EL10TB8—EL40TB8</i>
<b>ASK</b>	IF Building IF Supplier found in F26 [Electricity suppliers] look-up table OR F27 [Supplier name] given	
<b>FILL</b>	<b>{Bills}</b> IF Only one account = “Does the bill or statement” IF 2 to 10 accounts = “Do the bills or statements” <b>{Supplier}</b> = Supplier name from F26 [Electricity suppliers] look-up table OR F27 [Supplier name]	
<p>{Bills} from {Supplier} cover just this building or are other buildings covered as well?</p> <p>1 Just this building 2 Other building(s)</p>		
<b>NEXT</b>	IF Other buildings (2) → F37 [Sq ft of others included] IF Just this building (1) OR DK/RF → F38 [Include other major electricity]	

<b>F37</b>	<b>Sq ft of others included</b>	<i>EL10TS8—EL40TS8</i>
<b>ASK</b>	IF Building IF F36 [Bills cover only building] = Other buildings	
<b>FILL</b>	<b>{Bills}</b> IF Only one account = “bill or statement” IF 2 to 10 accounts = “bills or statements”	
<p>What is the approximate square footage of the <u>other</u> buildings included on the {Bills}?</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	1 to 999,999,999	
<b>NEXT</b>	→ F38 [Include other major electricity]	

<b>F38</b>	<b>Include other major electricity</b>	<i>EL10TU8—EL40TU8</i>
<b>ASK</b>	IF Building OR Common IF Supplier found in F26 [Electricity suppliers] look-up table OR F27 [Supplier name] given	
<b>FILL</b>	<b>{Bills}</b> IF Only one account = “Does the bill or statement” IF 2 to 10 accounts = “Do the bills or statements” <b>{Structure}</b> IF Building = “building” IF Common = “mall as a whole”	
<p>{Bills} include charges for any <u>other</u> major electricity usage outside the {Structure}, such as parking lot lights, exterior lights, signs or billboards, large pumps or swimming pools?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF F21 [Copy of bill available] NOT already asked → F39 [Copy of bill available] OTHERWISE → G1 [Section G Routing]	

<b>F39</b>	<b>Copy of bill available</b>	<i>EL1BILL8—EL4BILL8</i>
<b>ASK</b>	All Structures IF (Supplier found in F26 [Electricity suppliers] look-up table OR F26 [Supplier name given]) & F21[Copy of bill available] NOT already asked	
<b>FILL</b>	<b>{Supplier}</b> = Supplier name from F26 [Electricity suppliers] look-up table OR F27 [Supplier name]	
<p>Would it be possible for me to have a copy of one electricity bill from {Supplier}? There is information on some utility bills that may help energy researchers put these figures together.</p> <ul style="list-style-type: none"> <li>◆ EXP: [Examples of these items include other miscellaneous charges, past months data, and units of measure.]</li> <li>◆ If available, you will be prompted again to collect this at the end of the interview, so it is not necessary to stop the interview to collect it here</li> </ul> <p>1 Yes, copy of bill available 2 No, will not be able to provide copy of bill</p>		
<b>NEXT</b>	→ G1 [Section G Routing]	

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## SECTION G. NATURAL GAS

<b>G1</b>	<b>Section G Routing</b>
<b>NEXT</b>	IF Natural gas used → G2 [WS2 natural gas filled out] OTHERWISE → H1 [Section H Routing]

<b>G2</b>	<b>WS2 natural gas filled out</b>	<i>WS2NGCE8</i>
<b>ASK</b>	All Structures IF Natural gas used	
<p>Do you have Worksheet 2 with you and filled out for natural gas?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Establishment OR Anchor → G3 [Billed for natural gas] IF Common → G5 [Natural gas bill coverage] IF Building: IF No OR DK/RF → G9 [Provide natural gas figures] IF Yes → G10 [Units for natural gas]	

<b>G3</b>	<b>Billed for natural gas</b>	<i>NGESTBL8</i>
<b>ASK</b>	IF Establishment OR Anchor IF Natural gas used	
<p>Does this establishment receive a bill for all of the natural gas used, for only some of the natural gas, or is it not billed for any natural gas directly [that is, it is included in the rent]?</p> <p>1 Receives bills for all 2 Receives bills for some 3 Is not billed for any</p>		
<b>NEXT</b>	IF Receives bills for some (2) → G4 [Describe natural gas billing] IF Receives bills for all (1) OR DK/RF: IF G2 [WS2 natural gas filled out] = No OR DK/RF → G9 [Provide natural gas figures] IF G2 [WS2 natural gas filled out] = Yes → G10 [Units for natural gas] IF Is not billed for any (3) → H1 [Section H Routing]	

<b>G4</b>	<b>Describe natural gas billing</b>
<b>ASK</b>	IF Establishment OR Anchor IF G3 [Billed for natural gas] = Receives bills for some
Please describe the natural gas billing arrangement for this establishment.  ◆ RECORD in open box	
<b>NEXT</b>	IF G2 [WS2 natural gas filled out] = No OR DK/RF → G9 [Provide natural gas figures] IF G2 [WS2 natural gas filled out] = Yes → G10 [Units for natural gas]

<b>G5</b>	<b>Natural gas bill coverage</b>	<i>NGCOMBL8</i>
<b>ASK</b>	IF Common IF Natural gas used	
Do your natural gas bills cover just the common area of the mall, the common area and all of the individual establishments, or the common area and only some of the establishments?  1 Bills cover only common area 2 Bills cover common area and all establishments 3 Bills cover common area and some establishments 4 IF VOLUNTEERED: Some other combination		
<b>NEXT</b>	IF Common area and some establishments (3) → G6 [Extent natural gas coverage] IF Some other combination (4) → G7 [Other natural gas coverage] IF Only common area (1) OR Common area and all establishments (2) OR DK/RF: IF A5 [Food court] = Yes & Natural gas IN D50 [Sources for cooking] → G8 [Natural gas covers food court] OTHERWISE: IF G2 [WS2 natural gas filled out] = No OR DK/RF → G9 [Provide natural gas figures] IF G2 [WS2 natural gas filled out] = Yes → G10 [Units for natural gas]	

<b>G6</b>	<b>Extent natural gas coverage</b>
<b>ASK</b>	IF Common IF G5 [Natural gas bill coverage] = Bills cover common area and some establishments
To what extent do you pay the natural gas for the establishments?  ◆ RECORD the number or percent of stores, for example, in the open box	
<b>NEXT</b>	IF A5 [Food court] = Yes & Natural gas IN D50 [Sources for cooking] → G8 [Natural gas covers food court] OTHERWISE: IF G2 [WS2 natural gas filled out] = No OR DK/RF → G9 [Provide natural gas figures] IF G2 [WS2 natural gas filled out] = Yes → G10 [Units for natural gas]

<b>G7</b>	<b>Other natural gas coverage</b>
<b>ASK</b>	IF Common IF G6 [Natural gas bill coverage] = Some other combination
Please describe what is covered by the natural gas bills.  ◆ RECORD in open box	
<b>NEXT</b>	IF A5 [Food court] = Yes & Natural gas IN D50 [Sources for cooking] → G8 [Natural gas covers food court] OTHERWISE: IF G2 [WS2 natural gas filled out] = No OR DK/RF → G9 [Provide natural gas figures] IF G2 [WS2 natural gas filled out] = Yes → G10 [Units for natural gas]

<b>G8</b>	<b>Natural gas covers food court</b>	<i>NGFDCT8</i>
<b>ASK</b>	IF Common IF A5 [Food court] = Yes & Natural gas IN D50 [Sources for cooking]	
Do your natural gas bills include the energy used for cooking by the establishments in the food court?		
<b>NEXT</b>	IF G2 [WS2 natural gas filled out] = No OR DK/RF → G9 [Provide natural gas figures] IF G2 [WS2 natural gas filled out] = Yes → G10 [Units for natural gas]	

<b>G9</b>	<b>Provide natural gas figures</b>	<i>NGFIGS8</i>
<b>ASK</b>	All Structures IF (Building OR Common) & G2 [WS2 natural gas filled out] = No OR DK/RF IF (Establishment OR Anchor) & G2 [WS2 natural gas filled out] = No OR DK/RF & G3 [Billed for natural gas] ≠ Is not billed for any	
<b>FILL</b>	{Structure} IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common: IF G5 [Natural gas bill coverage] = Bills cover only common area = "the common area" IF G5 [Natural gas bill coverage] = Bills cover common area and some establishments OR Some other combination = "the common area and establishments that you just told me about" IF G5 [Natural gas bill coverage] = Bills cover common area and all establishments = "the common area and establishments" IF G5 [Natural gas bill coverage] = DK/RF = "this mall"	
The next questions are about natural gas usage in {Structure} during the past 12 months. Would you be able to give me an approximate figure of how much natural gas was used or how much was spent on it?  1 Yes 2 No		
<b>NEXT</b>	IF Yes → G10 [Units for natural gas] IF No OR DK/RF → G27 [Number natural gas suppliers]	

<b>G10</b>	<b>Units for natural gas</b>	<i>NGUNIT8</i>
<b>ASK</b>	All Structures IF G2 [WS2 natural gas filled out] = Yes OR G9 [Provide natural gas figures] = Yes	
 SHOW CARD G1  Please look at this card and tell me the units in which your natural gas is measured. <ol style="list-style-type: none"> <li>1 Hundred cubic feet (Ccf)</li> <li>2 Therms</li> <li>3 Thousand cubic feet (Mcf)</li> <li>4 Dekatherms</li> <li>5 Cubic feet (cf)</li> <li>6 IF VOLUNTEERED: Some other unit</li> </ol>		
<b>NEXT</b>	IF Some other unit (6) → G11 [Other natural gas units] IF Anything else (1-6) OR DK/RF → G12 [Natural gas consumption]	

<b>G11</b>	<b>Other natural gas units</b>	<i>NGUNITX8</i>
<b>ASK</b>	All Structures IF G10 [Units for natural gas] = Some other unit	
What are the other units?		
<b>NEXT</b>	→ G12 [Natural gas consumption]	

<b>G12</b>	<b>Natural gas consumption</b>	<i>NGCNS8</i>
<b>ASK</b>	All Structures IF G2 [WS2 natural gas filled out] = Yes OR G9 [Provide natural gas figures] = Yes	
<div style="text-align: right;">HELP &lt;F1&gt;</div> Please give me the total amount of natural gas used in the past 12 months. <ul style="list-style-type: none"> <li>◆ EXP: [If part of a multibuilding campus or complex, and the respondent only knows the consumption for the whole campus or complex, ENTER the total consumption for the campus or complex here.]</li> <li>◆ VERIFY number <u>digit by digit</u></li> </ul>		
<b>RANGE</b>	1 to 99,999,999,999,999	
<b>NEXT</b>	→ G13 [Natural gas expenditures]	

<b>G13</b>	<b>Natural gas expenditures</b>	NGEXP8
<b>ASK</b>	All Structures IF G2 [WS2 natural gas filled out] = Yes OR G9 [Provide natural gas figures] = Yes	
HELP <F1>		
Please give me the total dollars spent on natural gas in the past 12 months. This should include state and local taxes and the following charges: fuel adjustment, system, demand, and distribution.		
<ul style="list-style-type: none"> <li>◆ Do <u>not</u> enter cents</li> <li>◆ VERIFY number <u>digit by digit</u></li> </ul>		
<b>RANGE</b>	0 to 999,999,999	
<b>NEXT</b>	IF G12 [Natural gas consumption] = DK/RF & G13 [Natural gas expenditures] = DK/RF → G27 [Number natural gas suppliers] OTHERWISE → G14 [Starting date for natural gas figures]	

<b>WARNING G1</b>	
<b>FAIL</b>	<p>IF NGPrice (see following) <math>\leq 0.20</math></p> <p>IF G10 [Units for natural gas] = Hundred cubic feet  <math>NGPrice = G13 [Natural\ gas\ expenditures] \div F9 [Natural\ gas\ consumption]</math></p> <p>IF G10 [Units for natural gas] = Therms  <math>NGPrice = G13 [Natural\ gas\ expenditures] \div F9 [Natural\ gas\ consumption]</math></p> <p>IF G10 [Units for natural gas] = Thousand cubic feet  <math>NGPrice = G13 [Natural\ gas\ expenditures] \div (F9 [Natural\ gas\ consumption] \times 10)</math></p> <p>IF G10 [Units for natural gas] = Dekatherms  <math>NGPrice = G13 [Natural\ gas\ expenditures] \div (F9 [Natural\ gas\ consumption] \times 10)</math></p> <p>IF G10 [Units for natural gas] = Cubic feet  <math>NGPrice = G13 [Natural\ gas\ expenditures] \div (F9 [Natural\ gas\ consumption] \div 100)</math></p>
<b>FILL</b>	<p><b>{Cons}</b> = "G12 [Natural gas consumption]"</p> <p><b>{Units}</b></p> <p>IF G10 [Units for natural gas] = Hundred cubic feet = "hundred cubic feet"</p> <p>IF G10 [Units for natural gas] = Therms = "therms"</p> <p>IF G10 [Units for natural gas] = Thousand cubic feet = "thousand cubic feet"</p> <p>IF G10 [Units for natural gas] = Dekatherms = "Dekatherms"</p> <p>IF G10 [Units for natural gas] = Cubic feet = "cubic feet"</p> <p><b>{Exp}</b> = "G13 [Natural gas expenditures]"</p> <p><b>{Price}</b> = NGPrice (see above)</p> <p><b>{PerUnit}</b></p> <p>IF G10 [Units for natural gas] = Hundred cubic feet OR Thousand cubic feet OR Cubic feet = "hundred cubic foot"</p> <p>IF G10 [Units for natural gas] = Therms OR Dekatherms = "therm"</p>
I have recorded that the natural gas consumption is {Cons} {Units} and that the total amount spent on this natural gas was \$ {Exp}. This means that the price was \$ {Price} per {PerUnit}, which does not seem like very much. Please let me verify what I have recorded.	

**WARNING G2**

<b>FAIL</b>	<p>IF NGPrice (see following) <math>\geq 3.00</math></p> <p>IF G10 [Units for natural gas] = Hundred cubic feet  <math>NGPrice = G13 [Natural\ gas\ expenditures] \div F9 [Natural\ gas\ consumption]</math></p> <p>IF G10 [Units for natural gas] = Therms  <math>NGPrice = G13 [Natural\ gas\ expenditures] \div F9 [Natural\ gas\ consumption]</math></p> <p>IF G10 [Units for natural gas] = Thousand cubic feet  <math>NGPrice = G13 [Natural\ gas\ expenditures] \div (F9 [Natural\ gas\ consumption] \times 10)</math></p> <p>IF G10 [Units for natural gas] = Dekatherms  <math>NGPrice = G13 [Natural\ gas\ expenditures] \div (F9 [Natural\ gas\ consumption] \times 10)</math></p> <p>IF G10 [Units for natural gas] = Cubic feet  <math>NGPrice = G13 [Natural\ gas\ expenditures] \div (F9 [Natural\ gas\ consumption] \div 100)</math></p>
<b>FILL</b>	<p><b>{Cons}</b> = "G12 [Natural gas consumption]"</p> <p><b>{Units}</b></p> <p>IF G10 [Units for natural gas] = Hundred cubic feet = "hundred cubic feet"</p> <p>IF G10 [Units for natural gas] = Therms = "therms"</p> <p>IF G10 [Units for natural gas] = Thousand cubic feet = "thousand cubic feet"</p> <p>IF G10 [Units for natural gas] = Dekatherms = "Dekatherms"</p> <p>IF G10 [Units for natural gas] = Cubic feet = "cubic feet"</p> <p><b>{Exp}</b> = "G13 [Natural gas expenditures]"</p> <p><b>{Price}</b> = NGPrice (see above)</p> <p><b>{PerUnit}</b></p> <p>IF G10 [Units for natural gas] = Hundred cubic feet OR Thousand cubic feet OR Cubic feet = "hundred cubic foot"</p> <p>IF G10 [Units for natural gas] = Therms OR Dekatherms = "therm"</p>
<p>I have recorded that the natural gas consumption is {Cons} {Units} and that the total amount spent on this natural gas was \$ {Exp}. This means that the price was \$ {Price} per {PerUnit}, which seems like a lot. Please let me verify what I have recorded.</p>	

<b>G14</b>	<b>Starting date for natural gas figures</b>	<i>NGSTDAT8</i>
<b>ASK</b>	<p>All Structures          IF G12 [Natural gas consumption] given OR G13 [Natural gas expenditures] given</p>	
<p>What is the starting date for these natural gas usage figures?</p> <ul style="list-style-type: none"> <li>◆ ENTER date as MMDDYYYY</li> <li>◆ If the day is not known, ENTER "15"</li> </ul>		<p>HELP &lt;F1&gt;</p>
<b>NEXT</b>	<p>➔ G15 [Ending date for natural gas figures]</p>	

WARNING G3	
<b>FAIL</b>	IF Year given in G14 [Starting date for natural gas figures] is earlier than 2002 OR later than 2004
<b>FILL</b>	{StartDate} = G14 [Starting date for natural gas figures] in format MM/DD/YYYY
I have recorded the starting date as {StartDate}. Since we are asking about the past 12 months, the starting year should not be any earlier than 2002 nor later than 2004. Please let me verify what I have recorded.	

<b>G15</b>	Ending date for natural gas figures	NGENDAT8
<b>ASK</b>	All Structures IF G12 [Natural gas consumption] given OR G13 [Natural gas expenditures] given	
		HELP <F1>
What is the ending date [for these natural gas usage figures]?		
<ul style="list-style-type: none"> <li>◆ ENTER date as MMDDYYYY</li> <li>◆ If the day is not known, ENTER "15"</li> </ul>		
<b>NEXT</b>	IF Building → G16 [Other bldgs use included] IF Common → G18 [Include other major natural gas] IF Establishment OR Anchor: IF D66 [How purchase natural gas] = Bought from someone else OR Bought both ways → G19 [Include all non-local natural gas] OTHERWISE: IF G2 [WS2 natural gas filled out] = Yes → G21 [Monthly natural gas included] IF G2 [WS2 natural gas filled out] = No OR DK/RF → G22 [Monthly natural gas available]	

WARNING G4	
<b>FAIL</b>	IF Year given in G15 [Ending date for natural gas figures] is earlier than 2002 OR later than 2004
<b>FILL</b>	{EndDate} = G15 [Ending date for natural gas figures] in format MM/DD/YYYY
I have recorded the ending date as {EndDate}. Since we are asking about the past 12 months, the ending year should not be any earlier than 2002 nor later than 2004. Please let me verify what I have recorded.	

WARNING G5	
<b>FAIL</b>	IF G14 [Starting date for natural gas figures] is equal to OR later than G15 [Ending date for natural gas figures]
<b>FILL</b>	{StartDate} = G14 [Starting date for natural gas figures] in format MM/DD/YYYY {EndDate} = G15 [Ending date for natural gas figures] in format MM/DD/YYYY
The starting date of {StartDate} is later than or equal to the ending date of {EndDate}. Please let me verify what I have recorded.	

<b>G16</b>	<b>Other bldgs use included</b>	<i>NGOTBD8</i>
<b>ASK</b>	IF Building IF G12 [Natural gas consumption] given OR G13 [Natural gas expenditures] given	
Is any consumption from other buildings included in these figures?  1 Yes 2 No		
<b>NEXT</b>	IF Yes → G17 [Sq ft of other included] IF No OR DK/RF → G18 [Include other major natural gas]	

<b>G17</b>	<b>Sq ft of other included</b>	<i>NGOTSF8</i>
<b>ASK</b>	IF Building IF G16 [Other bldgs use included] = Yes	
What is the approximate square footage of the <u>other</u> buildings that are included in these figures?  ◆ PROBE for estimate if DK		
<b>RANGE</b>	1 to 999,999,999	
<b>NEXT</b>	→ G18 [Include other major natural gas]	

<b>G18</b>	<b>Include other major natural gas</b>	<i>NGOTUS8</i>
<b>ASK</b>	IF Building OR Common IF G12 [Natural gas consumption] given OR G13 [Natural gas expenditures] given	
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Common = "mall as a whole"	
Do these figures include charges for any <u>other</u> major natural gas usage outside the {Structure}, such as for kilns, gas space heaters, exterior or decorative lighting, compressed natural gas vehicles, or pumps not used in the building?  1 Yes 2 No		
<b>NEXT</b>	IF D66 [How purchase natural gas] = Bought from someone else OR Bought both ways → G19 [Include all non-local natural gas] OTHERWISE: IF G2 [WS2 natural gas filled out] = Yes → G21 [Monthly natural gas included] IF G2 [WS2 natural gas filled out] = No OR DK/RF → G22 [Monthly natural gas available]	

<b>G19</b>	<b>Include all non-local natural gas</b>	<i>NGNONU8</i>
<b>ASK</b>	All Structures IF (G12 [Natural gas consumption] given OR G13 [Natural gas expenditures] given) & (D66 [How purchase natural gas] = Bought from someone else OR Bought both ways)	
Do these figures include all the natural gas from the non-utility or broker?		
1 Yes 2 No		
<b>NEXT</b>	IF No → G20 [What not included] IF Yes OR DK/RF: IF G2 [WS2 natural gas filled out] = Yes → G21 [Monthly natural gas included] IF G2 [WS2 natural gas filled out] = No OR DK/RF → G22 [Monthly natural gas available]	

<b>G20</b>	<b>What not included</b>
<b>ASK</b>	All Structures IF G19 [Include all non-local natural gas] = No
What was not included?	
◆ RECORD the additional charges in the open box	
<b>NEXT</b>	IF G2 [WS2 natural gas filled out] = Yes → G21 [Monthly natural gas included] IF G2 [WS2 natural gas filled out] = No OR DK/RF → G22 [Monthly natural gas available]

<b>G21</b>	<b>Monthly natural gas included</b>	<i>NGINC128</i>
<b>ASK</b>	All Structures IF (G12 [Natural gas consumption] given OR G13 [Natural gas expenditures] given) & G2 [WS2 natural gas filled out] = Yes	
Did you include your monthly natural gas usage on Worksheet 2?		
1 Yes 2 No		
<b>NEXT</b>	No OR DK/RF → G22 [Monthly natural gas available] Yes → G23 [Copy of bill available]	

<b>G22</b>	<b>Monthly natural gas available</b>	<i>NGHAV128</i>
<b>ASK</b>	All Structures IF (G12 [Natural gas consumption] given OR G13 [Natural gas expenditures] given) & (G2 [WS2 natural gas filled out] = No OR DK/RF OR G20 [Monthly natural gas available] = No OR DK/RF)	
Do you have a record of the monthly natural gas use that I could have to help us better understand the seasonal patterns of natural gas use?		
<ul style="list-style-type: none"> <li>◆ If available, you will be prompted again to collect this at the end of the interview, so it is not necessary to stop the interview to collect it here</li> </ul>		
<ol style="list-style-type: none"> <li>1 Yes, monthly natural gas available</li> <li>2 No, will not be able to provide monthly natural gas</li> </ol>		
<b>NEXT</b>	→ G23 [Copy of bill available]	

<b>G23</b>	<b>Copy of bill available</b>	<i>NGBILL8</i>
<b>ASK</b>	All Structures IF G12 [Natural gas consumption] given OR G13 [Natural gas expenditures] given	
Would it be possible for me to have a copy of one natural gas bill? There is information on some utility bills that may help energy researchers put these figures together.		
<ul style="list-style-type: none"> <li>◆ EXP: [Examples of these items include miscellaneous charges, past months data, and units of measure.]</li> <li>◆ If available, you will be prompted again to collect this at the end of the interview, so it is not necessary to stop the interview to collect it here</li> </ul>		
<ol style="list-style-type: none"> <li>1 Yes, copy of bill available</li> <li>2 No, will not be able to provide copy of bill</li> </ol>		
<b>NEXT</b>	IF Common OR (A1 [Square footage] = DK/RF & A2 [Square footage category] = DK/RF) OR D1 [Uses of energy] = DK/RF OR D14 [Source for main heating] = DK/RF OR D45 [Sources for water heating] = DK/RF → G27 [Number natural gas suppliers] OTHERWISE, Based on various characteristics of the structure, Blaise will use a detailed equation to compute predicted consumption and expenditures estimates. THEN: IF G12 [Natural gas consumption] > [Predicted consumption] × 8 OR G13 [Natural gas expenditures] > [Predicted expenditures] × 8 → G24 [Anything unusual] IF G12 [Natural gas consumption] < [Predicted consumption] ÷ 13 OR G13 [Natural gas expenditures] < [Predicted expenditures] ÷ 13 → G25 [Anything unusual] OTHERWISE → H1 [Section H Routing]	

<b>G24</b>	<b>Anything unusual</b>	<i>NGHIGH8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF (A1 [Square footage] known OR A2 [Square footage category] known) & D1 [Uses of energy] known & D14 [Source for main heating] known & D45 [Sources for water heating] known & (G12 [Natural gas consumption] > [Predicted consumption] × 8 OR G13 [Natural gas expenditures] > [Predicted expenditures] × 8)	
<b>FILL</b>	<b>{Structure}</b> IF Building = “building” IF Establishment OR Anchor = “establishment”	
<p>These usage figures seem high for what you have told me about this {Structure}. Is there anything unusual that might explain this high usage?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → G26 [What is unusual] IF No OR DK/RF → G27 [Number natural gas suppliers]	

<b>G25</b>	<b>Anything unusual</b>	<i>NGLOW8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF (A1 [Square footage] known OR A2 [Square footage category] known) & D1 [Uses of energy] known & D14 [Source for main heating] known & D45 [Sources for water heating] known & (G12 [Natural gas consumption] < [Predicted consumption] ÷ 13 OR G13 [Natural gas expenditures] < [Predicted expenditures] ÷ 13)	
<b>FILL</b>	<b>{Structure}</b> IF Building = “building” IF Establishment OR Anchor = “establishment”	
<p>These usage figures seem low for what you have told me about this {Structure}. Is there anything unusual that might explain this low usage?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → G26 [What is unusual] IF No OR DK/RF → G27 [Number natural gas suppliers]	

<b>G26</b>	<b>What is unusual</b>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF G24 OR G25 [Anything unusual] = Yes
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"
Please tell me [what is out of the ordinary about this {Structure}].	
◆ RECORD in open box	
<b>NEXT</b>	➔ H1 [Section H Routing]

<b>G27</b>	<b>Number natural gas suppliers</b>	<i>NGNUMSP8</i>
<b>ASK</b>	All Structures IF G9 [Provide natural gas figures] = No OR DK/RF IF G12 [Natural gas consumption] = DK/RF & G13 [Natural gas expenditures] = DK/RF IF G24 OR G25 [Anything unusual] = No OR DK/RF IF Natural gas used & (Common OR (A1 [Square footage] = DK/RF & A2 [Square footage category] = DK/RF) OR D1 [Uses of energy] = DK/RF OR D14 [Source for main heating] = DK/RF OR D45 [Sources for water heating] = DK/RF)	
<b>FILL</b>	<b>{SuppliersIntro}</b> IF (G9 [Provide natural gas figures] = No OR DK/RF) OR (G12 [Natural gas consumption] = DK/RF & G13 [Natural gas expenditures] = DK/RF) = "We should be able to obtain this information directly from your natural gas supplier, so I just need to collect some information about your natural gas accounts." OTHERWISE = "We may need to go to your supplier to verify some information, so I need to ask you some questions about your natural gas supplier or suppliers." <b>{Structure}</b> IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common: IF G5 [Natural gas bill coverage] = Bills cover only common area = "the common area" IF G5 [Natural gas bill coverage] = Bills cover common area and some establishments OR Some other combination = "the common area and establishments that you just told me about" IF G5 [Natural gas bill coverage] = Bills cover common area and all establishments = "the common area and establishments" IF G5 [Natural gas bill coverage] = DK/RF = "this mall"	
{SuppliersIntro}		
In some parts of the country, customers can purchase energy from more than one supplier. How many different companies supplied natural gas to {Structure} during the past 12 months?		
<b>RANGE</b>	1 to 4	
<b>NEXT</b>	Number given ➔ G28 [Natural gas suppliers] DK/RF ➔ H1 [Section H Routing]	

<b>G28</b>	<b>Natural gas suppliers</b>	<i>NG1LKP8—NG2LKP8</i>
<b>ASK</b>	All Structures IF G27 [Number natural gas suppliers] given	
<b>FILL</b>	<b>{FirstNext}</b> IF Only one supplier = BLANK IF First supplier given = "first" OTHERWISE = "next"	
<p>What is the name of the {FirstNext} supplier that provided natural gas in the past 12 months?</p> <ul style="list-style-type: none"> <li>◆ Start typing the name of the supplier or use &lt;BACKSPACE&gt; to bring up the look-up table</li> <li>◆ Type in the first few letters of the supplier name, and the look-up table will scroll to the closest match</li> <li>◆ If you find a match, make sure the correct line is highlighted (blue) and press &lt;ENTER&gt;</li> <li>◆ If you don't find a match, use &lt;BACKSPACE&gt; to clear the Search line, which will bring you back to the top of the look-up table where ** NOT ON LIST will be highlighted, then press &lt;ENTER&gt; two times</li> </ul>		
<b>NEXT</b>	IF NOT ON LIST selected → G29 [Supplier name] IF Supplier found in look-up table → G35 [Number natural gas accounts] IF DK/RF: IF Only one supplier or last supplier → H1 [Section H Routing] IF More suppliers left to answer for → Ask G28 [Natural gas suppliers] again for next supplier	

<b>G29</b>	<b>Supplier name</b>	<i>NG1NEW8—NG4NEW8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in G28 [Natural gas suppliers]	
<ul style="list-style-type: none"> <li>◆ ENTER the name of the supplier</li> </ul>		
<b>NEXT</b>	IF Name given → G30 [Street address] IF DK/RF: IF Only one supplier or last supplier → H1 [Section H Routing] IF More suppliers left to answer for → Back to G28 [Natural gas suppliers] for next supplier	

<b>G30</b>	<b>Street address</b>	<i>NG1AD18—NG4AD18</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in G28 [Natural gas suppliers]	
<b>FILL</b>	<b>{Supplier}</b> = "G29 [Supplier name]"	
<p>What is the address for {Supplier}, beginning with the street?</p>		
<b>NEXT</b>	→ G31 [P.O. Box or Suite]	

<b>G31</b>	<b>P.O. Box or Suite</b>	<i>NG1AD28—NG4AD28</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in G28 [Natural gas suppliers]	
Is there a post office box or suite number?  ◆ If not, press <ENTER>		
<b>NEXT</b>	➔ G32 [City]	

<b>G32</b>	<b>City</b>	<i>NG1CTY8—NG4CTY8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in G28 [Natural gas suppliers]	
What is the city?		
<b>NEXT</b>	➔ G33 [State abbreviation]	

<b>G33</b>	<b>State abbreviation</b>	<i>NG1STA8—NG4STA8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in G28 [Natural gas suppliers]	
What is the state?  ◆ ENTER the two letter abbreviation		
<b>NEXT</b>	➔ G34 [Zip code]	

<b>G34</b>	<b>Zip code</b>	<i>NG1ZIP8—NG4ZIP8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in G28 [Natural gas suppliers]	
And what is the zip code?		
<b>NEXT</b>	➔ G35 [Number natural gas accounts]	

<b>G35</b>	<b>Number natural gas accounts</b>	<i>NG1NAC8—NG4NAC8</i>
<b>ASK</b>	All Structures IF Supplier found in G28 [Natural gas suppliers] look-up table OR G29 [Supplier name] given	
<b>FILL</b>	<b>{Structure}</b> IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common: IF Common: IF G5 [Natural gas bill coverage] = Bills cover only common area = "the common area" IF G5 [Natural gas bill coverage] = Bills cover common area and some establishments OR Some other combination = "the common area and establishments that you just told me about" IF G5 [Natural gas bill coverage] = Bills cover common area and all establishments = "the common area and establishments" IF G5 [Natural gas bill coverage] = DK/RF = "this mall" <b>{Supplier}</b> = Supplier name from G28 [Natural gas suppliers] look-up table OR G29 [Supplier name]	
How many different natural gas accounts does {Structure} have with {Supplier}?		
<b>RANGE</b>	1 to 999	
<b>NEXT</b>	IF 1 to 10 accounts → G36 [Natural gas account number] IF More than 10 accounts OR DK/RF: IF G23 [Copy of bill available] NOT already asked → G41 [Copy of bill available] IF Only one supplier or last supplier → H1 [Section H Routing] IF More suppliers left to answer for → Back to G28 [Natural gas suppliers] for next supplier	

<b>G36</b>	<b>Natural gas account number</b>	<i>NG1AC18—NG4AC108</i>
<b>ASK</b>	All Structures IF G35 [Number natural gas accounts] = 1 to 10 Ask as many times as account numbers given, or until DK/RF	
<b>FILL</b>	<b>{FirstNext}</b> IF Only one account = BLANK IF First account given = "first" OTHERWISE = "next" <b>{Supplier}</b> = Supplier name from G28 [Natural gas suppliers] look-up table OR G29 [Supplier name]	
Please give me the {FirstNext} natural gas account number for {Supplier}.		
◆ VERIFY number <u>digit by digit</u>		
<b>NEXT</b>	IF D66 [How purchase natural gas] = Bought from someone else OR Bought both ways → G37 [Supplier is non-local utility] OTHERWISE: IF Building → G38 [Bills cover only building] IF Common → G40 [Include other major natural gas] IF Establishment OR Anchor: IF G23 [Copy of bill available] NOT already asked → G41 [Copy of bill available] IF Only one supplier or last supplier → H1 [Section H Routing] IF More suppliers left to answer for → Back to G28 [Natural gas suppliers] for next supplier	

<b>G37</b>	<b>Supplier is non-local utility</b>	<i>NG1NONU8—NG4NONU8</i>
<b>ASK</b>	All Structures IF (Supplier found in G28 [Natural gas suppliers] look-up table OR G29 [Supplier name] given) & (D66 [How purchase natural gas] = Bought from someone else OR Bought both ways)	
<b>FILL</b>	<b>{Supplier}</b> = Supplier name from G28 [Natural gas suppliers] look-up table OR G29 [Supplier name]	
<p>You mentioned earlier that you purchase natural gas from a non-utility or broker. Is {Supplier} one of those companies?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Building → G38 [Bills cover only building] IF Common → G40 [Include other major natural gas] IF Establishment OR Anchor: IF G23 [Copy of bill available] NOT already asked → G41 [Copy of bill available] IF Only one supplier or last supplier → H1 [Section H Routing] IF More suppliers left to answer for → Back to G28 [Natural gas suppliers] for next supplier	

<b>G38</b>	<b>Bills cover only building</b>	<i>NG10TB8—NG40TB8</i>
<b>ASK</b>	IF Building IF Supplier found in G28 [Natural gas suppliers] look-up table OR G29 [Supplier name] given	
<b>FILL</b>	<b>{Bills}</b> IF Only one account = “Does the bill or statement” IF 2 to 10 accounts = “Do the bills or statements” <b>{Supplier}</b> = Supplier name from G28 [Natural gas suppliers] look-up table OR G29 [Supplier name]	
<p>{Bills} from {Supplier} cover just this building or are other buildings covered as well?</p> <p>1 Just this building 2 Other building(s)</p>		
<b>NEXT</b>	IF Other buildings (2) → G39 [Sq ft of others included] IF Just this building (1) OR DK/RF → G40 [Include other major natural gas]	

<b>G39</b>	<b>Sq ft of others included</b>	<i>NG10TS8—NG40TS8</i>
<b>ASK</b>	IF Building IF G38 [Bills cover only building] = Other buildings	
<b>FILL</b>	<b>{Bills}</b> IF Only one account = “bill or statement” IF 2 to 10 accounts = “bills or statements”	
<p>What is the approximate square footage of the <u>other</u> buildings included on the {Bills}?</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	1 to 999,999,999	
<b>NEXT</b>	→ G40 [Include other major natural gas]	

<b>G40</b>	<b>Include other major natural gas</b>	<i>NG10TU8—NG40TU8</i>
<b>ASK</b>	IF Building OR Common IF Supplier found in G28 [Natural gas suppliers] look-up table OR G29 [Supplier name] given	
<b>FILL</b>	<b>{Bills}</b> IF Only one account = “Does the bill or statement” IF 2 to 10 accounts = “Do the bills or statements” <b>{Structure}</b> IF Building = “building” IF Common = “mall as a whole”	
<p>{Bills} include charges for any <u>other</u> major natural gas usage outside the {Structure}, such as for kilns, gas space heaters, exterior or decorative lighting, compressed natural gas vehicles, or pumps not used in the building?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF G23 [Copy of bill available] NOT already asked → G41 [Copy of bill available] OTHERWISE → H1 [Section H Routing]	

<b>G41</b>	<b>Copy of bill available</b>	<i>NG1BILL8—NG4BILL8</i>
<b>ASK</b>	All Structures IF (Supplier found in G28 [Natural gas suppliers] look-up table OR G28 [Supplier name given]) & G23 [Copy of bill available] NOT already asked	
<b>FILL</b>	<b>{Supplier}</b> = Supplier name from G28 [Natural gas suppliers] look-up table OR G29 [Supplier name]	
<p>Would it be possible for me to have a copy of one natural gas bill from {Supplier}? There is information on some utility bills that may help energy researchers put these figures together.</p> <ul style="list-style-type: none"> <li>◆ EXP: [Examples of these items include miscellaneous charges, past months data, and units of measure.]</li> <li>◆ If available, you will be prompted again to collect this at the end of the interview, so it is not necessary to stop the interview to collect it here</li> </ul> <p>1 Yes, copy of bill available 2 No, will not be able to provide copy of bill</p>		
<b>NEXT</b>	→ H1 [Section H Routing]	

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## SECTION H. FUEL OIL/DIESEL/KEROSENE

**NOTE:** In ASK and NEXT instructions in this section, "Fuel oil" refers to fuel oil, diesel, or kerosene.

<b>H1</b>	<b>Section H Routing</b>
<b>NEXT</b>	IF Fuel oil used → H2 [WS2 fuel oil filled out] OTHERWISE → I1 [Section I Routing]

<b>H2</b>	<b>WS2 fuel oil filled out</b>	<i>WS2FKCE8</i>
<b>ASK</b>	All Structures IF Fuel oil used	
<b>FILL</b>	{FuelOilType} = Type or types specified in D6 [Fuel oil, diesel, or kerosene]	
<p>Do you have Worksheet 2 with you and filled out for {FuelOilType}?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Establishment OR Anchor → H3 [Billed for fuel oil] IF Common → H5 [Fuel oil bill coverage] IF Building: IF No OR DK/RF → H8 [Provide fuel oil figures] IF Yes → H9 [Fuel oil consumption]	

<b>H3</b>	<b>Billed for fuel oil</b>	<i>FKESTBL8</i>
<b>ASK</b>	IF Establishment OR Anchor IF Fuel oil used	
<b>FILL</b>	{FuelOilType} = Type or types specified in D6 [Fuel oil, diesel, or kerosene]	
<p>Does this establishment receive a bill for all of the {FuelOilType} used, for only some of the {FuelOilType}, or is it not billed for any {FuelOilType} directly [that is, it is included in the rent]?</p> <p>1 Receives bills for all 2 Receives bills for some 3 Is not billed for any</p>		
<b>NEXT</b>	IF Receives bills for some (2) → H4 [Describe fuel oil billing] IF Receives bills for all (1) OR DK/RF: IF H2 [WS2 fuel oil filled out] = No OR DK/RF → H8 [Provide fuel oil figures] IF H2 [WS2 fuel oil filled out] = Yes → H9 [Fuel oil consumption] IF Is not billed for any (3) → I1 [Section G Routing]	

<b>H4</b>	<b>Describe fuel oil billing</b>
<b>ASK</b>	IF Establishment OR Anchor IF H3 [Billed for fuel oil] = Receives bills for some
<b>FILL</b>	{FuelOilType} = Type or types specified in D6 [Fuel oil, diesel, or kerosene]
<p>Please describe the {FuelOilType} billing arrangement for this establishment.</p> <p>◆ RECORD in open box</p>	
<b>NEXT</b>	IF H2 [WS2 fuel oil filled out] = No OR DK/RF → H8 [Provide fuel oil figures] IF H2 [WS2 fuel oil filled out] = Yes → H9 [Fuel oil consumption]

<b>H5</b>	<b>Fuel oil bill coverage</b>	<i>FKCOMBL8</i>
<b>ASK</b>	IF Common IF Fuel oil used	
<b>FILL</b>	{FuelOilType} = Type or types specified in D6 [Fuel oil, diesel, or kerosene]	
<p>Do your {FuelOilType} bills cover just the common area of the mall, the common area and all of the individual establishments, or the common area and only some of the establishments?</p> <ol style="list-style-type: none"> <li>1 Bills cover only common area</li> <li>2 Bills cover common area and all establishments</li> <li>3 Bills cover common area and some establishments</li> <li>4 IF VOLUNTEERED: Some other combination</li> </ol>		
<b>NEXT</b>	IF Common area and some establishments (3) → H6 [Extent fuel oil coverage] IF Some other combination (4) → H7 [Other fuel oil coverage] IF Only common area (1) OR Common area and all establishments (2) OR DK/RF: IF H2 [WS2 fuel oil filled out] = No OR DK/RF → H8 [Provide fuel oil figures] IF H2 [WS2 fuel oil filled out] = Yes → H9 [Fuel oil consumption]	

<b>H6</b>	<b>Extent fuel oil coverage</b>
<b>ASK</b>	IF Common IF H5 [Fuel oil bill coverage] = Bills cover common area and some establishments
<b>FILL</b>	{FuelOilType} = Type or types specified in D6 [Fuel oil, diesel, or kerosene]
<p>To what extent do you pay the {FuelOilType} for the establishments?</p> <p>◆ RECORD the number or percent of stores, for example, in the open box</p>	
<b>NEXT</b>	IF H2 [WS2 fuel oil filled out] = No OR DK/RF → H8 [Provide fuel oil figures] IF H2 [WS2 fuel oil filled out] = Yes → H9 [Fuel oil consumption]

<b>H7</b>	<b>Other fuel oil coverage</b>
<b>ASK</b>	IF Common IF H5 [Fuel oil bill coverage] = Some other combination
<b>FILL</b>	{FuelOilType} = Type or types specified in D6 [Fuel oil, diesel, or kerosene]
<p>Please describe what is covered by the {FuelOilType} bills.</p> <p>◆ RECORD in open box</p>	
<b>NEXT</b>	IF H2 [WS2 fuel oil filled out] = No OR DK/RF → H8 [Provide fuel oil figures] IF H2 [WS2 fuel oil filled out] = Yes → H9 [Fuel oil consumption]

<b>H8</b>	<b>Provide fuel oil figures</b>	<i>FKFIGS8</i>
<b>ASK</b>	All Structures IF (Building OR Common) & H2 [WS2 fuel oil filled out] = No OR DK/RF IF (Establishment OR Anchor) & H2 [WS2 fuel oil filled out] = No OR DK/RF & H3 [Billed for fuel oil] ≠ Is not billed for any	
<b>FILL</b>	{FuelOilType} = Type or types specified in D6 [Fuel oil, diesel, or kerosene] {Structure} IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common: IF H5 [Fuel oil bill coverage] = Bills cover only common area = "the common area" IF H5 [Fuel oil bill coverage] = Bills cover common area and some establishments OR Some other combination = "the common area and establishments that you just told me about" IF H5 [Fuel oil bill coverage] = Bills cover common area and all establishments = "the common area and establishments" IF H5 [Fuel oil bill coverage] = DK/RF = "this mall"	
<p>The next questions are about {FuelOilType} usage in {Structure} during the past 12 months. Would you be able to give me an approximate figure of how much {FuelOilType} was used or how much was spent on it?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → H9 [Fuel oil consumption] IF No OR DK/RF → H20 [Number fuel oil suppliers]	

<b>H9</b>	<b>Fuel oil consumption</b>	<i>FKCNS8</i>
<b>ASK</b>	All Structures IF H2 [WS2 fuel oil filled out] = Yes OR H8 [Provide fuel oil figures] = Yes	
<b>FILL</b>	{FuelOilType} = Type or types specified in D6 [Fuel oil, diesel, or kerosene]	
		HELP <F1>
Please give me the total number of gallons of {FuelOilType} used in the past 12 months.		
<ul style="list-style-type: none"> <li>◆ EXP: [If part of a multibuilding campus or complex, and the respondent only knows the consumption for the whole campus or complex, ENTER the total consumption for the campus or complex here.]</li> <li>◆ VERIFY number <u>digit by digit</u></li> </ul>		
<b>RANGE</b>	0 to 99,999,999,999,999	
<b>NEXT</b>	➔ H10 [Fuel oil expenditures]	

<b>H10</b>	<b>Fuel oil expenditures</b>	<i>FKEXP8</i>
<b>ASK</b>	All Structures IF H2 [WS2 fuel oil filled out] = Yes OR H8 [Provide fuel oil figures] = Yes	
<b>FILL</b>	{FuelOilType} = Type or types specified in D6 [Fuel oil, diesel, or kerosene]	
		HELP <F1>
Please give me the total dollars spent on {FuelOilType} in the past 12 months, including state and local taxes.		
<ul style="list-style-type: none"> <li>◆ Do <u>not</u> enter cents</li> <li>◆ VERIFY number <u>digit by digit</u></li> </ul>		
<b>RANGE</b>	0 to 999,999,999	
<b>NEXT</b>	IF H9 [Fuel oil consumption] = Zero & H10 [Fuel oil expenditures] = Zero ➔ H11 [Purchased over 12 months ago] IF H9 [Fuel oil consumption] = DK/RF & H10 [Fuel oil expenditures] = DK/RF ➔ H20 [Number fuel oil suppliers] OTHERWISE ➔ H12 [Starting date for fuel oil figures]	

<b>WARNING H1</b>		
<b>FAIL</b>	IF H10 [Fuel oil expenditures] ÷ H9 [Fuel oil consumption] ≤ 0.45	
<b>FILL</b>	{FuelOilType} = Type or types specified in D6 [Fuel oil, diesel, or kerosene] {Cons} = "H9 [Fuel oil consumption]" {Exp} = "H10 [Fuel oil expenditures]" {Price} = H10 [Fuel oil expenditures] ÷ H9 [Fuel oil consumption]	
I have recorded that the {FuelOilType} consumption is {Cons} gallons and that the total amount spent on this {FuelOilType} was \$ {Exp}. This means that the price was \$ {Price} per gallon, which does not seem like very much. Please let me verify what I have recorded.		

WARNING H2	
<b>FAIL</b>	IF H10 [Fuel oil expenditures] > 200 & (H10 [Fuel oil expenditures] ÷ H9 [Fuel oil consumption] ≥ 1.50)
<b>FILL</b>	{FuelOilType} = Type or types specified in D6 [Fuel oil, diesel, or kerosene] {Cons} = "H9 [Fuel oil consumption]" {Exp} = "H10 [Fuel oil expenditures]" {Price} = H10 [Fuel oil expenditures] ÷ H9 [Fuel oil consumption]
<p>I have recorded that the {FuelOilType} consumption is {Cons} gallons and that the total amount spent on this {FuelOilType} was \$ {Exp}. This means that the price was \$ {Price} per gallon, which seems like a lot. Please let me verify what I have recorded.</p>	

<b>H11</b>	<b>Purchased over 12 months ago</b>	<i>FKSTORD8</i>
<b>ASK</b>	All Structures IF H9 [Fuel oil consumption] = Zero & H10 [Fuel oil expenditures] = Zero	
<b>FILL</b>	{FuelOilType} = Type or types specified in D6 [Fuel oil, diesel, or kerosene]	
<p>Was any {FuelOilType} purchased or delivered earlier than the past 12 months?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	➔ I1 [Section I Routing]	

<b>H12</b>	<b>Starting date for fuel oil figures</b>	<i>FKSTDAT8</i>
<b>ASK</b>	All Structures IF (H9 [Fuel oil consumption] given OR H10 [Fuel oil expenditures] given) & Not both zero	
<b>FILL</b>	{FuelOilType} = Type or types specified in D6 [Fuel oil, diesel, or kerosene]	
HELP <F1>		
<p>What is the first delivery date for these {FuelOilType} purchases?</p> <ul style="list-style-type: none"> <li>◆ ENTER date as MMDDYYYY</li> <li>◆ If the day is not known, ENTER "15"</li> </ul>		
<b>NEXT</b>	➔ H13 [Ending date for fuel oil figures]	

WARNING H3	
<b>FAIL</b>	IF Year given in H12 [Starting date for fuel oil figures] is earlier than 2002 OR later than 2004
<b>FILL</b>	{StartDate} = H12 [Starting date for fuel oil figures] in format MM/DD/YYYY
<p>I have recorded the first delivery as {StartDate}. Since we are asking about the past 12 months, the starting year should not be any earlier than 2002 nor later than 2004. Please let me verify what I have recorded.</p>	

H13	Ending date for fuel oil figures <span style="float: right;"><i>FKENDAT8</i></span>
<b>ASK</b>	All Structures IF (H9 [Fuel oil consumption] given OR H10 [Fuel oil expenditures] given) & Not both zero
<b>FILL</b>	{FuelOilType} = Type or types specified in D6 [Fuel oil, diesel, or kerosene]
HELP <F1>	
<p>What is the last delivery date [for these {FuelOilType} purchases]?</p> <ul style="list-style-type: none"> <li>◆ ENTER date as MMDDYYYY</li> <li>◆ If the day is not known, ENTER "15"</li> </ul>	
<b>NEXT</b>	IF Building → H14 [Other bldgs use included] IF Common → H16 [Include other major fuel oil] IF Establishment OR Anchor: IF (A1 [Square footage] = DK/RF & A2 [Square footage category] = DK/RF) OR D1 [Uses of energy] = DK/RF → H20 [Number fuel oil suppliers] OTHERWISE, Based on various characteristics of the structure, Blaise will use a detailed equation to compute predicted consumption and expenditures estimates. THEN: IF H9 [Fuel oil consumption] > [Predicted consumption] × 10 OR F10 [Fuel oil expenditures] > [Predicted expenditures] × 10 → H17 [Anything unusual] IF H9 [Fuel oil consumption] < [Predicted consumption] ÷ 20 OR H10 [Fuel oil expenditures] < [Predicted expenditures] ÷ 20 → H18 [Anything unusual] OTHERWISE → I1 [Section I Routing]

WARNING H4	
<b>FAIL</b>	IF Year given in H13 [Ending date for fuel oil figures] is earlier than 2002 OR later than 2004
<b>FILL</b>	{EndDate} = H13 [Ending date for fuel oil figures] in format MM/DD/YYYY
<p>I have recorded the last delivery as {EndDate}. Since we are asking about the past 12 months, the starting year should not be any earlier than 2002 nor later than 2004. Please let me verify what I have recorded.</p>	

<b>H14</b>	<b>Other bldgs use included</b>	<i>FKOTBD8</i>
<b>ASK</b>	IF Building IF (H9 [Fuel oil consumption] given OR H10 [Fuel oil expenditures] given) & Not both zero	
<p>Is any consumption from other buildings included in these figures?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → H15 [Sq ft of other included] IF No OR DK/RF → H16 [Include other major fuel oil]	

<b>H15</b>	<b>Sq ft of other included</b>	<i>FKOTSF8</i>
<b>ASK</b>	IF Building IF H14 [Other bldgs use included] = Yes	
<p>What is the approximate square footage of the <u>other</u> buildings that are included in these figures?</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	1 to 999,999,999	
<b>NEXT</b>	→ H16 [Include other major fuel oil]	

<b>H16</b>	<b>Include other major fuel oil</b>	<i>FKOTUS8</i>
<b>ASK</b>	IF Building OR Common IF (H9 [Fuel oil consumption] given OR H10 [Fuel oil expenditures] given) & Not both zero	
<b>FILL</b>	{FuelOilType} = Type or types specified in D6 [Fuel oil, diesel, or kerosene]	
<p>Do these figures include charges for any <u>other</u> major {FuelOilType} usage outside the {Structure}, such as for kilns, welding, pumps, or motors?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	<p>IF Common OR (A1 [Square footage] = DK/RF &amp; A2 [Square footage category] = DK/RF) OR D1 [Uses of energy] = DK/RF → H20 [Number fuel oil suppliers] OTHERWISE, Based on various characteristics of the structure, Blaise will use a detailed equation to compute predicted consumption and expenditures estimates. THEN: IF H9 [Fuel oil consumption] &gt; [Predicted consumption] × 10 OR H10 [Fuel oil expenditures] &gt; [Predicted expenditures] × 10 → H17 [Anything unusual] IF H9 [Fuel oil consumption] &lt; [Predicted consumption] ÷ 20 OR H10 [Fuel oil expenditures] &lt; [Predicted expenditures] ÷ 20 → H18 [Anything unusual] OTHERWISE → I1 [Section I Routing]</p>	

<b>H17</b>	<b>Anything unusual</b>	<i>FKHIGH8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF (A1 [Square footage] known OR A2 [Square footage category] known) & D1 [Uses of energy] known & (H9 [Fuel oil consumption] > [Predicted consumption] × 10 OR H10 [Fuel oil expenditures] > [Predicted expenditures] × 10)	
<b>FILL</b>	<b>{FuelOilType}</b> = Type or types specified in D6 [Fuel oil, diesel, or kerosene] <b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
<p>These {FuelOilType} usage figures seem high for what you have told me about this {Structure}. Is there anything unusual that might explain this high usage?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → H19 [What is unusual] IF No OR DK/RF → H20 [Number fuel oil suppliers]	

<b>H18</b>	<b>Anything unusual</b>	<i>FKLOW8</i>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF (A1 [Square footage] known OR A2 [Square footage category] known) & D1 [Uses of energy] known & (H9 [Fuel oil consumption] < [Predicted consumption] ÷ 20 OR H10 [Fuel oil expenditures] < [Predicted expenditures] ÷ 20)	
<b>FILL</b>	<b>{FuelOilType}</b> = Type or types specified in D6 [Fuel oil, diesel, or kerosene] <b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"	
<p>These {FuelOilType} usage figures seem low for what you have told me about this {Structure}. Is there anything unusual that might explain this low usage?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	IF Yes → H19 [What is unusual] IF No OR DK/RF → H20 [Number fuel oil suppliers]	

<b>H19</b>	<b>What is unusual</b>
<b>ASK</b>	IF Building OR Establishment OR Anchor IF H17 OR H18 [Anything unusual] = Yes
<b>FILL</b>	<b>{Structure}</b> IF Building = "building" IF Establishment OR Anchor = "establishment"
<p>Please tell me [what is out of the ordinary about this {Structure}].</p> <p>◆ RECORD in open box</p>	
<b>NEXT</b>	→ I1 [Section I Routing]

<b>H20</b>	<b>Number fuel oil suppliers</b>	<i>FKNUMSP8</i>
<b>ASK</b>	All Structures IF H8 [Provide fuel oil figures] = No OR DK/RF IF H9 [Fuel oil consumption] = DK/RF & H10 [Fuel oil expenditures] = DK/RF IF H17 OR H18 [Anything unusual] = No OR DK/RF IF Fuel oil used & (Common OR (A1 [Square footage] = DK/RF & A2 [Square footage category] = DK/RF) OR D1 [Uses of energy] = DK/RF)	
<b>FILL</b>	<b>{SuppliersIntro}</b> IF H8 [Provide fuel oil figures] = No OR DK/RF OR (H9 [Fuel oil consumption]=DK/RF) & H10 [Fuel oil expenditures]=DK/RF) = "We should be able to obtain this information directly from your supplier, so I just need to collect some information about your accounts." OTHERWISE = "We may need to go to your supplier to verify some information, so I need to ask you some questions about your supplier or suppliers." <b>{FuelOilType}</b> = Type or types specified in D6 [Fuel oil, diesel, or kerosene] <b>{Structure}</b> IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common: IF H5 [Fuel oil bill coverage] = Bills cover only common area = "the common area" IF H5 [Fuel oil bill coverage] = Bills cover common area and some establishments OR Some other combination = "the common area and establishments that you just told me about" IF H5 [Fuel oil bill coverage] = Bills cover common area and all establishments = "the common area and establishments" IF H5 [Fuel oil bill coverage] = DK/RF = "this mall"	
{SuppliersIntro}  How many different companies supplied {FuelOilType} to {Structure} during the past 12 months?		
<b>RANGE</b>	1 to 4	
<b>NEXT</b>	Number given → H21 [Fuel oil suppliers] DK/RF → I1 [Section I Routing]	

<b>H21</b>	<b>Fuel oil suppliers</b>	<i>FK1LKP8—FK4LKP8</i>
<b>ASK</b>	All Structures IF H20 [Number fuel oil suppliers] given	
<b>FILL</b>	<b>{FirstNext}</b> IF Only one supplier = BLANK IF First supplier given = "first" OTHERWISE = "next" <b>{FuelOilType}</b> = Type or types specified in D6 [Fuel oil, diesel, or kerosene]	
<p>What is the name of the {FirstNext} supplier that provided {FuelOilType} in the past 12 months?</p> <ul style="list-style-type: none"> <li>◆ Start typing the name of the supplier or use &lt;BACKSPACE&gt; to bring up the look-up table</li> <li>◆ Type in the first few letters of the supplier name, and the look-up table will scroll to the closest match</li> <li>◆ If you find a match, make sure the correct line is highlighted (blue) and press &lt;ENTER&gt;</li> <li>◆ If you don't find a match, use &lt;BACKSPACE&gt; to clear the Search line, which will bring you back to the top of the look-up table where ** NOT ON LIST will be highlighted, then press &lt;ENTER&gt; two times</li> </ul>		
<b>NEXT</b>	IF NOT ON LIST selected → H22 [Supplier name] IF Supplier found in look-up table → H28 [Number fuel oil accounts] IF DK/RF: IF Only one supplier or last supplier → I1 [Section I Routing] IF More suppliers left to answer for → Ask H21 [Fuel oil suppliers] again for next supplier	

<b>H22</b>	<b>Supplier name</b>	<i>FK1NEW8—FK4NEW8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in H21 [Fuel oil suppliers]	
<ul style="list-style-type: none"> <li>◆ ENTER the name of the supplier</li> </ul>		
<b>NEXT</b>	IF Name given → H23 [Street address] IF DK/RF: IF Only one supplier or last supplier → I1 [Section I Routing] IF More suppliers left to answer for → Back to H21 [Fuel oil suppliers] for next supplier	

<b>H23</b>	<b>Street address</b>	<i>FK1AD18—FK4AD18</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in H21 [Fuel oil suppliers]	
<b>FILL</b>	{Supplier} = "H22 [Supplier name]"	
What is the address for {Supplier}, beginning with the street?		
<b>NEXT</b>	➔ H24 [P.O. Box or Suite]	

<b>H24</b>	<b>P.O. Box or Suite</b>	<i>FK1AD28—FK4AD28</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in H21 [Fuel oil suppliers]	
Is there a post office box or suite number?  ◆ If not, press <ENTER>		
<b>NEXT</b>	➔ H25 [City]	

<b>H25</b>	<b>City</b>	<i>FK1CTY8—FK4CTY8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in H21 [Fuel oil suppliers]	
What is the city?		
<b>NEXT</b>	➔ H26 [State abbreviation]	

<b>H26</b>	<b>State abbreviation</b>	<i>FK1STA8—FK4STA8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in H21 [Fuel oil suppliers]	
What is the state?  ◆ ENTER the two letter abbreviation		
<b>NEXT</b>	➔ H27 [Zip code]	

<b>H27</b>	<b>Zip code</b>	<i>FK1ZIP8—FK4ZIP8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in H21 [Fuel oil suppliers]	
And what is the zip code?		
<b>NEXT</b>	➔ H28 [Number fuel oil accounts]	

<b>H28</b>	<b>Number fuel oil accounts</b>	<i>FK1NAC8—FK4NAC8</i>
<b>ASK</b>	All Structures IF Supplier found in H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name] given	
<b>FILL</b>	<b>{FuelOilType}</b> = Type or types specified in D6 [Fuel oil, diesel, or kerosene] <b>{Structure}</b> IF Building = “this building” IF Establishment OR Anchor = “this establishment” IF Common: IF H5 [Fuel oil bill coverage] = Bills cover only common area = “the common area” IF H5 [Fuel oil bill coverage] = Bills cover common area and some establishments OR Some other combination = “the common area and establishments that you just told me about” IF H5 [Fuel oil bill coverage] = Bills cover common area and all establishments = “the common area and establishments” IF H5 [Fuel oil bill coverage] = DK/RF = “this mall” <b>{Supplier}</b> = Supplier name from H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name]	
How many different {FuelOilType} accounts does {Structure} have with {Supplier}?		
<b>NEXT</b>	IF 1 to 10 accounts ➔ H29 [Fuel oil account number] IF More than 10 accounts OR DK/RF: IF Only one supplier or last supplier ➔ I1 [Section I Routing] IF More suppliers left to answer for ➔ Back to H21 [Fuel oil suppliers] for next supplier	

<b>H29</b>	<b>Fuel oil account number</b>	<i>FK1AC18—FK4AC108</i>
<b>ASK</b>	All Structures IF H28 [Number fuel oil accounts] = 1 to 10 Ask as many times as account numbers given, or until DK/RF	
<b>FILL</b>	<b>{FirstNext}</b> IF Only one account = BLANK IF First account given = "first" OTHERWISE = "next" <b>{FuelOilType}</b> = Type or types specified in D6 [Fuel oil, diesel, or kerosene] <b>{Supplier}</b> = Supplier name from H20 [Fuel oil suppliers] look-up table OR H22 [Supplier name]	
Please give me the {FirstNext} {FuelOilType} account number for {Supplier}.  ◆ VERIFY number <u>digit by digit</u>		
<b>NEXT</b>	IF Building → H30 [Bills cover only building] IF Common → H32 [Include other major fuel oil] IF Establishment OR Anchor: IF Only one supplier or last supplier → I1 [Section I Routing] IF More suppliers left to answer for → Back to H21 [Fuel oil suppliers] for next supplier	

<b>H30</b>	<b>Bills cover only building</b>	<i>FK10TB8—FK40TB8</i>
<b>ASK</b>	IF Building IF Supplier found in H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name] given	
<b>FILL</b>	<b>{Bills}</b> IF Only one account = "Does the bill or statement" IF 2 to 10 accounts = "Do the bills or statements" <b>{Supplier}</b> = Supplier name from H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name]	
{Bills} from {Supplier} cover just this building or are other buildings covered as well?  1 Just this building 2 Other building(s)		
<b>NEXT</b>	IF Other buildings (2) → H31 [Sq ft of others included] IF Just this building (1) OR DK/RF → H32 [Include other major fuel oil]	

<b>H31</b>	<b>Sq ft of others included</b>	<i>FK10TS8—FK40TS8</i>
<b>ASK</b>	IF Building IF H30 [Bills cover only building] = Other buildings	
<b>FILL</b>	<b>{Bills}</b> IF Only one account = “bill or statement” IF 2 to 10 accounts = “bills or statements”	
<p>What is the approximate square footage of the <u>other</u> buildings included on the {Bills}?</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	1 to 999,999,999	
<b>NEXT</b>	➔ H32 [Include other major fuel oil]	

<b>H32</b>	<b>Include other major fuel oil</b>	<i>FK10TU8—FK40TU8</i>
<b>ASK</b>	IF Building OR Common IF Supplier found in H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name] given	
<b>FILL</b>	<b>{Bills}</b> IF Only one account = “Does the bill or statement” IF 2 to 10 accounts = “Do the bills or statements” <b>{Structure}</b> IF Building = “building” IF Common = “mall as a whole”	
<p>{Bills} include charges for any <u>other</u> major fuel oil usage outside the {Structure}, such as for kilns, welding, pumps, or motors?</p> <p>1 Yes 2 No</p>		
<b>NEXT</b>	➔ I1 [Section I Routing]	

## SECTION I. DISTRICT STEAM

<b>I1</b>	<b>Section I Routing</b>
<b>NEXT</b>	IF Special facility & (D11 [From central plant] = Yes OR D12 [Purchase from offsite = No]) → J1 [Section J Routing] IF District steam used → I2 [WS2 district steam filled out] OTHERWISE → J1 [Section J Routing]

<b>I2</b>	<b>WS2 district steam filled out</b>	<i>WS2STCE8</i>
<b>ASK</b>	All Structures IF District steam used & (NOT Special facility OR (D11 [From central plant] = No OR DK/RF & D12 [Purchase from offsite = Yes OR DK/RF])	
Do you have Worksheet 2 with you and filled out for district steam?		
1 Yes 2 No		
<b>NEXT</b>	IF Establishment OR Anchor → I3 [Billed for district steam] IF Common → I5 [District steam bill coverage] IF Building: IF No OR DK/RF → I8 [Provide district steam figures] IF Yes → I9 [Units for district steam]	

<b>I3</b>	<b>Billed for district steam</b>	<i>STESTBL8</i>
<b>ASK</b>	IF Establishment OR Anchor IF District steam used & (NOT Special facility OR (D11 [From central plant] = No OR DK/RF & D12 [Purchase from offsite = Yes OR DK/RF])	
Does this establishment receive a bill for all of the district steam used, for only some of the district steam, or is it not billed for any district steam directly [that is, it is included in the rent]?		
1 Receives bills for all 2 Receives bills for some 3 Is not billed for any		
<b>NEXT</b>	IF Receives bills for some (2) → I4 [Describe district steam billing] IF Receives bills for all (1) OR DK/RF: IF I2 [WS2 district steam filled out] = No OR DK/RF → I8 [Provide district steam figures] IF I2 [WS2 district steam filled out] = Yes → I9 [Units for district steam] IF Is not billed for any (3) → J1 [Section J Routing]	

<b>I4</b>	<b>Describe district steam billing</b>
<b>ASK</b>	IF Establishment OR Anchor IF I3 [Billed for district steam] = Receives bills for some
<p>Please describe the district steam billing arrangement for this establishment.</p> <p>◆ RECORD in open box</p>	
<b>NEXT</b>	IF I2 [WS2 district steam filled out] = No OR DK/RF → I8 [Provide district steam figures] IF I2 [WS2 district steam filled out] = Yes → I9 [Units for district steam]

<b>I5</b>	<b>District steam bill coverage</b>	<i>STCOMBL8</i>
<b>ASK</b>	IF Common IF District steam used & (NOT Special facility OR (D11 [From central plant] = No OR DK/RF & D12 [Purchase from offsite = Yes OR DK/RF])	
<p>Do your district steam bills cover just the common area of the mall, the common area and all of the individual establishments, or the common area and only some of the establishments?</p> <ol style="list-style-type: none"> <li>1 Bills cover only common area</li> <li>2 Bills cover common area and all establishments</li> <li>3 Bills cover common area and some establishments</li> <li>4 IF VOLUNTEERED: Some other combination</li> </ol>		
<b>NEXT</b>	IF Common area and some establishments (3) → I6 [Extent district steam coverage] IF Some other combination (4) → I7 [Other district steam coverage] IF Only common area (1) OR Common area and all establishments (2) OR DK/RF: IF I2 [WS2 district steam filled out] = No OR DK/RF → I8 [Provide district steam figures] IF I2 [WS2 district steam filled out] = Yes → I9 [Units for district steam]	

<b>I6</b>	<b>Extent district steam coverage</b>
<b>ASK</b>	IF Common IF I5 [District steam bill coverage] = Bills cover common area and some establishments
<p>To what extent do you pay the district steam for the establishments?</p> <p>◆ RECORD the number or percent of stores, for example, in the open box</p>	
<b>NEXT</b>	IF I2 [WS2 district steam filled out] = No OR DK/RF → I8 [Provide district steam figures] IF I2 [WS2 district steam filled out] = Yes → I9 [Units for district steam]

<b>I7</b>	<b>Other district steam coverage</b>
<b>ASK</b>	IF Common IF I5 [District steam bill coverage] = Some other combination
Please describe what is covered by the district steam bills.  ◆ RECORD in open box	
<b>NEXT</b>	IF I2 [WS2 district steam filled out] = No OR DK/RF → I8 [Provide district steam figures] IF I2 [WS2 district steam filled out] = Yes → I9 [Units for district steam]

<b>I8</b>	<b>Provide district steam figures</b>	<i>STFIGS8</i>
<b>ASK</b>	All Structures IF (Building OR Common) & I2 [WS2 district steam filled out] = No OR DK/RF IF (Establishment OR Anchor) & I2 [WS2 district steam filled out] = No OR DK/RF & I3 [Billed for district steam] ≠ Is not billed for any	
<b>FILL</b>	{Structure} IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common: IF I5 [District steam bill coverage] = Bills cover only common area = "the common area" IF I5 [District steam bill coverage] = Bills cover common area and some establishments OR Some other combination = "the common area and establishments that you just told me about" IF I5 [District steam bill coverage] = Bills cover common area and all establishments = "the common area and establishments" IF I5 [District steam bill coverage] = DK/RF = "this mall"	
The next questions are about district steam usage in {Structure} during the past 12 months. Would you be able to give me an approximate figure of how much district steam was used or how much was spent on it?  1 Yes 2 No		
<b>NEXT</b>	IF Yes → I9 [Units for district steam] IF No OR DK/RF → I18 [Number district steam suppliers]	

<b>I9</b>	<b>Units for district steam</b>	<i>STUNIT8</i>
<b>ASK</b>	All Structures IF I2 [WS2 district steam filled out] = Yes OR I8 [Provide district steam figures] = Yes	
 SHOW CARD I1  Please look at this card and tell me the units in which your district steam is measured.  1 Thousand pounds 2 Pounds 3 Million Btu 4 IF VOLUNTEERED: Some other unit		
<b>NEXT</b>	IF Some other unit (4) → I10 [Other district steam units] OTHERWISE → I11 [District steam consumption]	

<b>I10</b>	<b>Other district steam units</b>	<i>STUNITX8</i>
<b>ASK</b>	All Structures IF I9 [Units for district steam] = Some other unit	
What are the other units?		
<b>NEXT</b>	➔ I11 [District steam consumption]	

<b>I11</b>	<b>District steam consumption</b>	<i>STCNS8</i>
<b>ASK</b>	All Structures IF I2 [WS2 district steam filled out] = Yes OR I8 [Provide district steam figures] = Yes	
		HELP <F1>
Please give me the total amount of district steam used in the past 12 months.		
<ul style="list-style-type: none"> <li>◆ EXP: [If part of a multibuilding campus or complex, and the respondent only knows the consumption for the whole campus or complex, ENTER the total consumption for the campus or complex here.]</li> <li>◆ VERIFY number <u>digit by digit</u></li> </ul>		
<b>RANGE</b>	1 to 99,999,999,999,999	
<b>NEXT</b>	➔ I12 [District steam expenditures]	

<b>I12</b>	<b>District steam expenditures</b>	<i>STEXP8</i>
<b>ASK</b>	All Structures IF I2 [WS2 district steam filled out] = Yes OR I8 [Provide district steam figures] = Yes	
		HELP <F1>
Please give me the total dollars spent on district steam in the past 12 months, including state and local taxes.		
<ul style="list-style-type: none"> <li>◆ Do <u>not</u> enter cents</li> <li>◆ VERIFY number <u>digit by digit</u></li> </ul>		
<b>RANGE</b>	1 to 999,999,999	
<b>NEXT</b>	IF I11 [District steam consumption] = DK/RF & I12 [District steam expenditures] = DK/RF ➔ I18 [Number district steam suppliers] OTHERWISE ➔ I13 [Starting date for district steam figures]	

WARNING I1	
<b>FAIL</b>	IF SteamPrice (see following) $\geq 15.00$  IF I9 [Units for district steam] = Thousand pounds OR Million Btu SteamPrice = I12 [District steam expenditures] $\div$ I11 [District steam consumption] IF I9 [Units for district steam] = Pounds SteamPrice = I12 [District steam expenditures] $\div$ (I11 [District steam consumption] $\div$ 1000)
<b>FILL</b>	<b>{Cons}</b> = "I11 [District steam consumption]" <b>{Units}</b> IF I9 [Units for district steam] = Thousand pounds = "thousand pounds" IF I9 [Units for district steam] = Pounds = "pounds" IF I9 [Units for district steam] = Million Btu = "million Btu" <b>{Exp}</b> = "I12 [District steam expenditures]" <b>{Price}</b> = SteamPrice (see above)
<p>I have recorded that the district steam consumption is {Cons} {Units} and that the total amount spent on this district steam was \$ {Exp}. This means that the price was \$ {Price} per thousand pounds, which seems like a lot. Please let me verify what I have recorded.</p>	

<b>I13</b>	<b>Starting date for district steam figures</b>	<i>STSTDAT8</i>
<b>ASK</b>	All Structures IF I11 [District steam consumption] given OR I12 [District steam expenditures] given	
		HELP <F1>
<p>What is the starting date for these district steam usage figures?</p> <ul style="list-style-type: none"> <li>◆ ENTER date as MMDDYYYY</li> <li>◆ If the day is not known, ENTER "15"</li> </ul>		
<b>NEXT</b>	➔ I14 [Ending date for district steam figures]	

WARNING I2	
<b>FAIL</b>	IF Year given in I13 [Starting date for district steam figures] is earlier than 2002 OR later than 2004
<b>FILL</b>	<b>{StartDate}</b> = I13 [Starting date for district steam figures] in format MM/DD/YYYY
<p>I have recorded the starting date as {StartDate}. Since we are asking about the past 12 months, the starting year should not be any earlier than 2002 nor later than 2004. Please let me verify what I have recorded.</p>	

<b>I14</b>	<b>Ending date for district steam figures</b>	<i>STENDAT8</i>
<b>ASK</b>	All Structures IF I11 [District steam consumption] given OR I12 [District steam expenditures] given	
		HELP <F1>
<p>What is the ending date [for these district steam usage figures]?</p> <ul style="list-style-type: none"> <li>◆ ENTER date as MMDDYYYY</li> <li>◆ If the day is not known, ENTER "15"</li> </ul>		
<b>NEXT</b>	IF Building → I15 [Other bldgs use included] OTHERWISE → J1 [Section J Routing]	

<b>WARNING I3</b>	
<b>FAIL</b>	IF Year given in I14 [Ending date for district steam figures] is earlier than 2002 OR later than 2004
<b>FILL</b>	{EndDate} = I14 [Ending date for district steam figures] in format MM/DD/YYYY
<p>I have recorded the ending date as {EndDate}. Since we are asking about the past 12 months, the ending year should not be any earlier than 2002 nor later than 2004. Please let me verify what I have recorded.</p>	

<b>WARNING I4</b>	
<b>FAIL</b>	IF I13 [Starting date for district steam figures] is equal to OR later than I14 [Ending date for district steam figures]
<b>FILL</b>	{StartDate} = I13 [Starting date for district steam figures] in format MM/DD/YYYY {EndDate} = I14 [Ending date for district steam figures] in format MM/DD/YYYY
<p>The starting date of {StartDate} is later than or equal to the ending date of {EndDate}. Please let me verify what I have recorded.</p>	

<b>I15</b>	<b>Other bldgs use included</b>	<i>STOTBD8</i>
<b>ASK</b>	IF Building IF I11 [District steam consumption] given OR I12 [District steam expenditures] given	
<p>Is any consumption from other buildings included in these figures?</p> <ul style="list-style-type: none"> <li>1 Yes</li> <li>2 No</li> </ul>		
<b>NEXT</b>	IF Yes → I16 [Sq ft of other included] IF No OR DK/RF → I17 [District loop square footage]	

<b>I16</b>	<b>Sq ft of other included</b>	<i>STOTSF8</i>
<b>ASK</b>	IF Building IF I15 [Other bldgs use included] = Yes	
<p>What is the approximate square footage of the <u>other</u> buildings that are included in these figures?</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	1 to 999,999,999	
<b>NEXT</b>	➔ J1 [Section J Routing]	

<b>I17</b>	<b>District loop square footage</b>	<i>STLOOP8</i>
<b>ASK</b>	IF Building IF I15 [Other bldgs use included] = DK/RF	
<p>What is the total square footage of all the buildings on the <u>district loop</u> that serves this building?</p> <p>◆ If the building purchases district steam from the local utility and is not on a district loop, ENTER "99"</p> <p>◆ PROBE for estimate if DK</p>		
<b>RANGE</b>	1 to 999,999,999	
<b>NEXT</b>	➔ J1 [Section J Routing]	

<b>I18</b>	<b>Number district steam suppliers</b>	<i>STNUMSP8</i>
<b>ASK</b>	All Structures IF I8 [Provide district steam figures] = No OR DK/RF IF I11 [District steam consumption] = DK/RF & I12 [District steam expenditures] = DK/RF	
<b>FILL</b>	<b>{Structure}</b> IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common: IF I5 [District steam bill coverage] = Bills cover only common area = "the common area" IF I5 [District steam bill coverage] = Bills cover common area and some establishments OR Some other combination = "the common area and establishments that you just told me about" IF I5 [District steam bill coverage] = Bills cover common area and all establishments = "the common area and establishments" IF I5 [District steam bill coverage] = DK/RF = "this mall"	
<p>We should be able to obtain this information directly from your district steam supplier, so I just need to collect some information about your district steam accounts.</p> <p>How many different companies supplied district steam to {Structure} during the past 12 months?</p>		
<b>RANGE</b>	1 to 4	
<b>NEXT</b>	Number given → I19 [District steam suppliers] DK/RF → J1 [Section J Routing]	

<b>I19</b>	<b>District steam suppliers</b>	<i>ST1LKP8—ST4LKP8</i>
<b>ASK</b>	All Structures IF I18 [Number district steam suppliers] given	
<b>FILL</b>	<b>{FirstNext}</b> IF Only one supplier = BLANK IF First supplier given = "first" OTHERWISE = "next"	
<p>What is the name of the {FirstNext} supplier that provided district steam in the past 12 months?</p> <ul style="list-style-type: none"> <li>◆ Start typing the name of the supplier or use &lt;BACKSPACE&gt; to bring up the look-up table</li> <li>◆ Type in the first few letters of the supplier name, and the look-up table will scroll to the closest match</li> <li>◆ If you find a match, make sure the correct line is highlighted (blue) and press &lt;ENTER&gt;</li> <li>◆ If you don't find a match, use &lt;BACKSPACE&gt; to clear the Search line, which will bring you back to the top of the look-up table where ** NOT ON LIST will be highlighted, then press &lt;ENTER&gt; two times</li> </ul>		
<b>NEXT</b>	IF NOT ON LIST selected → I20 [Supplier name] IF Supplier found in look-up table → I26 [Number district steam accounts] IF DK/RF: IF Only one supplier or last supplier → J1 [Section J Routing] IF More suppliers left to answer for → Ask I19 [District steam suppliers] again for next supplier	

<b>I20</b>	<b>Supplier name</b>	<i>ST1NEW8—ST4NEW8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in I19 [District steam suppliers]	
<ul style="list-style-type: none"> <li>◆ ENTER the name of the supplier</li> </ul>		
<b>NEXT</b>	IF Name given → I21 [Street address] IF DK/RF: IF Only one supplier or last supplier → J1 [Section J Routing] IF More suppliers left to answer for → Back to I19 [District steam suppliers] for next supplier	

<b>I21</b>	<b>Street address</b>	<i>ST1AD18—ST4AD18</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in I19 [District steam suppliers]	
<b>FILL</b>	<b>{Supplier}</b> = "I20 [Supplier name]"	
<p>What is the address for {Supplier}, beginning with the street?</p>		
<b>NEXT</b>	→ I22 [P.O. Box or Suite]	

<b>I22</b>	<b>P.O. Box or Suite</b>	<i>ST1AD28—ST4AD28</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in I19 [District steam suppliers]	
Is there a post office box or suite number?  ◆ If not, press <ENTER>		
<b>NEXT</b>	➔ I23 [City]	

<b>I23</b>	<b>City</b>	<i>ST1CTY8—ST4CTY8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in I19 [District steam suppliers]	
What is the city?		
<b>NEXT</b>	➔ I24 [State abbreviation]	

<b>I24</b>	<b>State abbreviation</b>	<i>ST1STA8—ST4STA8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in I19 [District steam suppliers]	
What is the state?  ◆ ENTER the two letter abbreviation		
<b>NEXT</b>	➔ I25 [Zip code]	

<b>I25</b>	<b>Zip code</b>	<i>ST1ZIP8—ST4ZIP8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in I19 [District steam suppliers]	
And what is the zip code?		
<b>NEXT</b>	➔ I26 [Number district steam accounts]	

<b>I26</b>	<b>Number district steam accounts</b>	<i>ST1NAC8—ST4NAC8</i>
<b>ASK</b>	All Structures IF Supplier found in I19 [District steam suppliers] look-up table OR I20 [Supplier name] given	
<b>FILL</b>	<b>{Structure}</b> IF Building = “this building” IF Establishment OR Anchor = “this establishment” IF Common: IF I5 [District steam bill coverage] = Bills cover only common area = “the common area” IF I5 [District steam bill coverage] = Bills cover common area and some establishments OR Some other combination = “the common area and establishments that you just told me about” IF I5 [District steam bill coverage] = Bills cover common area and all establishments = “the common area and establishments” IF I5 [District steam bill coverage] = DK/RF = “this mall” <b>{Supplier}</b> = Supplier name from I19 [District steam suppliers] look-up table OR I20 [Supplier name]	
How many different district steam accounts does {Structure} have with {Supplier}?		
<b>RANGE</b>	1 to 999	
<b>NEXT</b>	IF 1 to 10 accounts → I27 [District steam account number] IF More than 10 accounts OR DK/RF: IF Only one supplier or last supplier → J1 [Section J Routing] IF More suppliers left to answer for → Back to I19 [District steam suppliers] for next supplier	

<b>I27</b>	<b>District steam account number</b>	<i>ST1AC18—ST4AC108</i>
<b>ASK</b>	All Structures IF I26 [Number district steam accounts] = 1 to 10 Ask as many times as account numbers given, or until DK/RF	
<b>FILL</b>	<b>{FirstNext}</b> IF Only one account = BLANK IF First account given = “first” OTHERWISE = “next” <b>{Supplier}</b> = Supplier name from I19 [District steam suppliers] look-up table OR I20 [Supplier name]	
Please give me the {FirstNext} district steam account number for {Supplier}.		
◆ VERIFY number <u>digit by digit</u>		
<b>NEXT</b>	IF Building → I28 [Bills cover only building] OTHERWISE: IF More suppliers left to answer for → Back to I19 [District steam suppliers] for next supplier OTHERWISE → J1 [Section J Routing]	

<b>I28</b>	<b>Bills cover only building</b>	<i>ST10TB8—ST40TB8</i>
<b>ASK</b>	IF Building IF Supplier found in I19 [District steam suppliers] look-up table OR I20 [Supplier name] given	
<b>FILL</b>	<b>{Bills}</b> IF Only one account = "Does the bill or statement" IF 2 to 10 accounts = "Do the bills or statements" <b>{Supplier}</b> = Supplier name from I19 [District steam suppliers] look-up table OR I20 [Supplier name]	
{Bills} from {Supplier} cover just this building or are other buildings covered as well?  1 Just this building 2 Other building(s)		
<b>NEXT</b>	IF Other buildings (2) → I29 [Sq ft of others included] IF Just this building (1) OR DK/RF: IF More suppliers left to answer for → Back to I19 [District steam suppliers] for next supplier OTHERWISE → I30 [District loop square footage]	

<b>I29</b>	<b>Sq ft of others included</b>	<i>ST10TS8—ST40TS8</i>
<b>ASK</b>	IF Building IF I28 [Bills cover only building] = Other buildings	
<b>FILL</b>	<b>{Bills}</b> IF Only one account = "bill or statement" IF 2 to 10 accounts = "bills or statements"	
What is the approximate square footage of the <u>other</u> buildings included on the {Bills}?  ◆ PROBE for estimate if DK		
<b>RANGE</b>	1 to 999,999,999	
<b>NEXT</b>	IF More suppliers left to answer for → Back to I19 [District steam suppliers] for next supplier OTHERWISE → J1 [Section J Routing]	

<b>I30</b>	<b>District loop square footage</b>	<i>STLOOP28</i>
<b>ASK</b>	IF Building IF I28 [Bills cover only building] = Just this building OR DK/RF	
What is the total square footage of all the buildings on the <u>district loop</u> that serves this building?  ◆ If the building purchases district steam from the local utility and is not on a district loop, ENTER "99"  ◆ PROBE for estimate if DK		
<b>RANGE</b>	1 to 999,999,999	
<b>NEXT</b>	→ J1 [Section J Routing]	

## SECTION J. DISTRICT HOT WATER

<b>J1</b>	<b>Section J Routing</b>
<b>NEXT</b>	IF Special facility & (D11 [From central plant] = Yes OR D12 [Purchase from offsite = No]) → K1 [Section K Routing] IF District hot water used → J2 [WS2 district hot water filled out] OTHERWISE → K1 [Section K Routing]

<b>J2</b>	<b>WS2 district hot water filled out</b>	<i>WS2HWCE8</i>
<b>ASK</b>	All Structures IF District hot water used & (NOT Special facility OR (D11 [From central plant] = No OR DK/RF & D12 [Purchase from offsite = Yes OR DK/RF])	
Do you have Worksheet 2 with you and filled out for district hot water?		
1 Yes 2 No		
<b>NEXT</b>	IF Establishment OR Anchor → J3 [Billed for district hot water] IF Common → J5 [District hot water bill coverage] IF Building: IF No OR DK/RF → J8 [Provide district hot water figures] IF Yes → J9 [District hot water consumption]	

<b>J3</b>	<b>Billed for district hot water</b>	<i>HWESTBL8</i>
<b>ASK</b>	IF Establishment OR Anchor IF District hot water used & (NOT Special facility OR (D11 [From central plant] = No OR DK/RF & D12 [Purchase from offsite = Yes OR DK/RF])	
Does this establishment receive a bill for all of the district hot water used, for only some of the district hot water, or is it not billed for any district hot water directly [that is, it is included in the rent]?		
1 Receives bills for all 2 Receives bills for some 3 Is not billed for any		
<b>NEXT</b>	IF Receives bills for some (2) → J4 [Describe district hot water billing] IF Receives bills for all (1) OR DK/RF: IF J2 [WS2 district hot water filled out] = No OR DK/RF → J8 [Provide district hot water figures] IF J2 [WS2 district hot water filled out] = Yes → J9 [District hot water consumption] IF Is not billed for any (3) → K1 [Section K Routing]	

<b>J4</b>	<b>Describe district hot water billing</b>
<b>ASK</b>	IF Establishment OR Anchor IF J3 [Billed for district hot water] = Receives bills for some
<p>Please describe the district hot water billing arrangement for this establishment.</p> <p>◆ RECORD in open box</p>	
<b>NEXT</b>	IF J2 [WS2 district hot water filled out] = No OR DK/RF → J8 [Provide district hot water figures] IF J2 [WS2 district hot water filled out] = Yes → J9 [District hot water consumption]

<b>J5</b>	<b>District hot water bill coverage</b>	<i>HWCMBL8</i>
<b>ASK</b>	IF Common IF District hot water used & (NOT Special facility OR (D11 [From central plant] = No OR DK/RF & D12 [Purchase from offsite = Yes OR DK/RF])	
<p>Do your district hot water bills cover just the common area of the mall, the common area and all of the individual establishments, or the common area and only some of the establishments?</p> <ol style="list-style-type: none"> <li>1 Bills cover only common area</li> <li>2 Bills cover common area and all establishments</li> <li>3 Bills cover common area and some establishments</li> <li>4 IF VOLUNTEERED: Some other combination</li> </ol>		
<b>NEXT</b>	IF Common area and some establishments (3) → J6 [Extent district hot water coverage] IF Some other combination (4) → J7 [Other district hot water coverage] IF Only common area (1) OR Common area and all establishments (2) OR DK/RF: IF J2 [WS2 district hot water filled out] = No OR DK/RF → J8 [Provide district hot water figures] IF J2 [WS2 district hot water filled out] = Yes → J9 [District hot water consumption]	

<b>J6</b>	<b>Extent district hot water coverage</b>
<b>ASK</b>	IF Common IF J5 [District hot water bill coverage] = Bills cover common area and some establishments
<p>To what extent do you pay the district hot water for the establishments?</p> <p>◆ RECORD the number or percent of stores, for example, in the open box</p>	
<b>NEXT</b>	IF J2 [WS2 district hot water filled out] = No OR DK/RF → J8 [Provide district hot water figures] IF J2 [WS2 district hot water filled out] = Yes → J9 [District hot water consumption]

<b>J7</b>	<b>Other district hot water coverage</b>
<b>ASK</b>	IF Common IF J5 [District hot water bill coverage] = Some other combination
Please describe what is covered by the district hot water bills.  ◆ RECORD in open box	
<b>NEXT</b>	IF J2 [WS2 district hot water filled out] = No OR DK/RF → J8 [Provide district hot water figures] IF J2 [WS2 district hot water filled out] = Yes → J9 [District hot water consumption]

<b>J8</b>	<b>Provide district hot water figures</b>	<i>HWFIGS8</i>
<b>ASK</b>	All Structures IF (Building OR Common) & J2 [WS2 district hot water filled out] = No OR DK/RF IF (Establishment OR Anchor) & J2 [WS2 district hot water filled out] = No OR DK/RF & J3 [Billed for district hot water] ≠ Is not billed for any	
<b>FILL</b>	<b>{Structure}</b> IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common: IF J5 [District hot water bill coverage] = Bills cover only common area = "the common area" IF J5 [District hot water bill coverage] = Bills cover common area and some establishments OR Some other combination = "the common area and establishments that you just told me about" IF J5 [District hot water bill coverage] = Bills cover common area and all establishments = "the common area and establishments" IF J5 [District hot water bill coverage] = DK/RF = "this mall"	
The next questions are about district hot water usage in {Structure} during the past 12 months. Would you be able to give me an approximate figure of how much district hot water was used or how much was spent on it?  1 Yes 2 No		
<b>NEXT</b>	IF Yes → J9 [District hot water consumption] IF No OR DK/RF → J16 [Number district hot water suppliers]	

<b>J9</b>	<b>District hot water consumption</b>	<i>HWCNS8</i>
<b>ASK</b>	All Structures IF J2 [WS2 district hot water filled out] = Yes OR J8 [Provide district hot water figures] = Yes	
		HELP <F1>
	Please give me the total amount, in million Btu, of district hot water used in the past 12 months.	
	<ul style="list-style-type: none"> <li>◆ EXP: [If part of a multibuilding campus or complex, and the respondent only knows the consumption for the whole campus or complex, ENTER the total consumption for the campus or complex here.]</li> <li>◆ VERIFY number <u>digit by digit</u></li> </ul>	
<b>RANGE</b>	1 to 99,999,999,999,999	
<b>NEXT</b>	➔ J10 [District hot water expenditures]	

<b>J10</b>	<b>District hot water expenditures</b>	<i>HWEXP8</i>
<b>ASK</b>	All Structures IF J2 [WS2 district hot water filled out] = Yes OR J8 [Provide district hot water figures] = Yes	
		HELP <F1>
	Please give me the total dollars spent on district hot water in the past 12 months, including state and local taxes.	
	<ul style="list-style-type: none"> <li>◆ Do <u>not</u> enter cents</li> <li>◆ VERIFY number <u>digit by digit</u></li> </ul>	
<b>RANGE</b>	1 to 999,999,999	
<b>NEXT</b>	IF J9 [District hot water consumption] = DK/RF & J10 [District hot water expenditures] = DK/RF ➔ J16 [Number district hot water suppliers] OTHERWISE ➔ J11 [Starting date for district hot water figures]	

<b>WARNING J1</b>	
<b>FAIL</b>	IF J10 [District hot water expenditures] ÷ J9 [District hot water consumption] ≥ 15.00
<b>FILL</b>	{Cons} = "J9 [District hot water consumption]" {Exp} = "J10 [District hot water expenditures]" {Price} = J10 [District hot water expenditures] ÷ J9 [District hot water consumption]
I have recorded that the district hot water consumption is {Cons} million Btu and that the total amount spent on this district hot water was \$ {Exp}. This means that the price was \$ {Price} per thousand pounds, which seems like a lot. Please let me verify what I have recorded.	

<b>J11</b>	<b>Starting date for district hot water figures</b>	<i>HWSTDAT8</i>
<b>ASK</b>	All Structures IF J9 [District hot water consumption] given OR J10 [District hot water expenditures] given	
		HELP <F1>
<p>What is the starting date for these district hot water usage figures?</p> <ul style="list-style-type: none"> <li>◆ ENTER date as MMDDYYYY</li> <li>◆ If the day is not known, ENTER "15"</li> </ul>		
<b>NEXT</b>	➔ J12 [Ending date for district hot water figures]	

<b>WARNING J2</b>		
<b>FAIL</b>	IF Year given in J11 [Starting date for district hot water figures] is earlier than 2002 OR later than 2004	
<b>FILL</b>	{StartDate} = J11 [Starting date for district hot water figures] in format MM/DD/YYYY	
<p>I have recorded the starting date as {StartDate}. Since we are asking about the past 12 months, the starting year should not be any earlier than 2002 nor later than 2004. Please let me verify what I have recorded.</p>		

<b>J12</b>	<b>Ending date for district hot water figures</b>	<i>HWENDAT8</i>
<b>ASK</b>	All Structures IF J9 [District hot water consumption] given OR J10 [District hot water expenditures] given	
		HELP <F1>
<p>What is the ending date [for these district hot water usage figures]?</p> <ul style="list-style-type: none"> <li>◆ ENTER date as MMDDYYYY</li> <li>◆ If the day is not known, ENTER "15"</li> </ul>		
<b>NEXT</b>	IF Building ➔ J13 [Other bldgs use included] OTHERWISE ➔ K1 [Section K Routing]	

<b>WARNING J3</b>		
<b>FAIL</b>	IF Year given in J12 [Ending date for district hot water figures] is earlier than 2002 OR later than 2004	
<b>FILL</b>	{EndDate} = J12 [Ending date for district hot water figures] in format MM/DD/YYYY	
<p>I have recorded the ending date as {EndDate}. Since we are asking about the past 12 months, the ending year should not be any earlier than 2002 nor later than 2004. Please let me verify what I have recorded.</p>		

WARNING J4	
<b>FAIL</b>	IF J11 [Starting date for district hot water figures] is equal to OR later than J12 [Ending date for district hot water figures]
<b>FILL</b>	{StartDate} = J11 [Starting date for district hot water figures] in format MM/DD/YYYY {EndDate} = J12 [Ending date for district hot water figures] in format MM/DD/YYYY
The starting date of {StartDate} is later than or equal to the ending date of {EndDate}. Please let me verify what I have recorded.	

J13	Other bldgs use included <span style="float: right;"><i>HWOTBD8</i></span>
<b>ASK</b>	IF Building IF J9 [District hot water consumption] given OR J10 [District hot water expenditures] given
Is any consumption from other buildings included in these figures?  1 Yes 2 No	
<b>NEXT</b>	IF Yes → J14 [Sq ft of other included] IF No OR DK/RF → J15 [District loop square footage]

J14	Sq ft of other included <span style="float: right;"><i>HWOTSF8</i></span>
<b>ASK</b>	IF Building IF J13 [Other bldgs use included] = Yes
What is the approximate square footage of the <u>other</u> buildings that are included in these figures?  ◆ PROBE for estimate if DK	
<b>RANGE</b>	1 to 999,999,999
<b>NEXT</b>	→ K1 [Section K Routing]

<b>J15</b>	<b>District loop square footage</b>	<i>HWLOOP8</i>
<b>ASK</b>	IF Building IF J13 [Other bldgs use included] = DK/RF	
<p>What is the total square footage of all the buildings on the <u>district loop</u> that serves this building?</p> <ul style="list-style-type: none"> <li>◆ If the building purchases district hot water from the local utility and is not on a district loop, ENTER "99"</li> <li>◆ PROBE for estimate if DK</li> </ul>		
<b>RANGE</b>	1 to 999,999,999	
<b>NEXT</b>	➔ K1 [Section K Routing]	

<b>J16</b>	<b>Number district hot water suppliers</b>	<i>HWNUMSP8</i>
<b>ASK</b>	All Structures IF J8 [Provide district hot water figures] = No OR DK/RF IF J9 [District hot water consumption] = DK/RF & J10 [District hot water expenditures] = DK/RF	
<b>FILL</b>	<b>{Structure}</b> IF Building = "this building" IF Establishment OR Anchor = "this establishment" IF Common: IF J5 [District hot water bill coverage] = Bills cover only common area = "the common area" IF J5 [District hot water bill coverage] = Bills cover common area and some establishments OR Some other combination = "the common area and establishments that you just told me about" IF J5 [District hot water bill coverage] = Bills cover common area and all establishments = "the common area and establishments" IF J15 [District hot water bill coverage] = DK/RF = "this mall"	
<p>We should be able to obtain this information directly from your district hot water supplier, so I just need to collect some information about your district hot water accounts.</p> <p>How many different companies supplied district hot water to {Structure} during the past 12 months?</p>		
<b>RANGE</b>	1 to 4	
<b>NEXT</b>	Number given ➔ J17 [District hot water suppliers] DK/RF ➔ K1 [Section K Routing]	

<b>J17</b>	<b>District hot water suppliers</b>	<i>HW1LKP8—HW4LKP8</i>
<b>ASK</b>	All Structures IF J16 [Number district hot water suppliers] given	
<b>FILL</b>	<b>{FirstNext}</b> IF Only one supplier = BLANK IF First supplier given = "first" OTHERWISE = "next"	
<p>What is the name of the {FirstNext} supplier that provided district hot water in the past 12 months?</p> <ul style="list-style-type: none"> <li>◆ Start typing the name of the supplier or use &lt;BACKSPACE&gt; to bring up the look-up table</li> <li>◆ Type in the first few letters of the supplier name, and the look-up table will scroll to the closest match</li> <li>◆ If you find a match, make sure the correct line is highlighted (blue) and press &lt;ENTER&gt;</li> <li>◆ If you don't find a match, use &lt;BACKSPACE&gt; to clear the Search line, which will bring you back to the top of the look-up table where ** NOT ON LIST will be highlighted, then press &lt;ENTER&gt; two times</li> </ul>		
<b>NEXT</b>	IF NOT ON LIST selected → J18 [Supplier name] IF Supplier found in look-up table → J24 [Number district hot water accounts] IF DK/RF: IF Only one supplier or last supplier → K1 [Section K Routing] IF More suppliers left to answer for → Ask J17 [District hot water suppliers] again for next supplier	

<b>J18</b>	<b>Supplier name</b>	<i>HW1NEW8—HW4NEW8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in J17 [District hot water suppliers]	
<ul style="list-style-type: none"> <li>◆ ENTER the name of the supplier</li> </ul>		
<b>NEXT</b>	IF Name given → J19 [Street address] IF DK/RF: IF Only one supplier or last supplier → K1 [Section K Routing] IF More suppliers left to answer for → Back to J17 [District hot water suppliers] for next supplier	

<b>J19</b>	<b>Street address</b>	<i>HW1AD18—HW4AD18</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in J17 [District hot water suppliers]	
<b>FILL</b>	<b>{Supplier}</b> = "J18 [Supplier name]"	
<p>What is the address for {Supplier}, beginning with the street?</p>		
<b>NEXT</b>	→ J20 [P.O. Box or Suite]	

<b>J20</b>	<b>P.O. Box or Suite</b>	<i>HW1AD28—HW4AD28</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in J17 [District hot water suppliers]	
Is there a post office box or suite number?  ◆ If not, press <ENTER>		
<b>NEXT</b>	→ J21 [City]	

<b>J21</b>	<b>City</b>	<i>HW1CTY8—HW4CTY8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in J17 [District hot water suppliers]	
What is the city?		
<b>NEXT</b>	→ J22 [State abbreviation]	

<b>J22</b>	<b>State abbreviation</b>	<i>HW1STA8—HW4STA8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in J17 [District hot water suppliers]	
What is the state?  ◆ ENTER the two letter abbreviation		
<b>NEXT</b>	→ J23 [Zip code]	

<b>J23</b>	<b>Zip code</b>	<i>HW1ZIP8—HW4ZIP8</i>
<b>ASK</b>	All Structures IF NOT ON LIST selected in J17 [District hot water suppliers]	
And what is the zip code?		
<b>NEXT</b>	→ J24 [Number district hot water accounts]	

<b>J24</b>	<b>Number district hot water accounts</b>	<i>HW1NAC8—HW4NAC8</i>
<b>ASK</b>	All Structures IF Supplier found in J17 [District hot water suppliers] look-up table OR J18 [Supplier name] given	
<b>FILL</b>	<b>{Structure}</b> IF Building = “this building” IF Establishment OR Anchor = “this establishment” IF Common: IF J5 [District hot water bill coverage] = Bills cover only common area = “the common area” IF J5 [District hot water bill coverage] = Bills cover common area and some establishments OR Some other combination = “the common area and establishments that you just told me about” IF J5 [District hot water bill coverage] = Bills cover common area and all establishments = “the common area and establishments” IF J5 [District hot water bill coverage] = DK/RF = “this mall” <b>{Supplier}</b> = Supplier name from J17 [District hot water suppliers] look-up table OR J18 [Supplier name]	
How many different district hot water accounts does {Structure} have with {Supplier}?		
<b>RANGE</b>	1 to 999	
<b>NEXT</b>	IF 1 to 10 accounts → J25 [District hot water account number] IF More than 10 accounts OR DK/RF: IF Only one supplier or last supplier → K1 [Section K Routing] IF More suppliers left to answer for → Back to J17 [District hot water suppliers] for next supplier	

<b>J25</b>	<b>District hot water account number</b>	<i>HW1AC18—HW4AC108</i>
<b>ASK</b>	All Structures IF J24 [Number district hot water accounts] = 1 to 10 Ask as many times as account numbers given, or until DK/RF	
<b>FILL</b>	<b>{FirstNext}</b> IF Only one account = BLANK IF First account given = “first” OTHERWISE = “next” <b>{Supplier}</b> = Supplier name from J17 [District hot water suppliers] look-up table OR J18 [Supplier name]	
Please give me the {FirstNext} district hot water account number for {Supplier}.		
◆ VERIFY number <u>digit by digit</u>		
<b>NEXT</b>	IF Building → J26 [Bills cover only building] OTHERWISE: IF More suppliers left to answer for → Back to J17 [District hot water suppliers] for next supplier OTHERWISE → K1 [Section K Routing]	

<b>J26</b>	<b>Bills cover only building</b>	<i>HW10TB8—HW40TB8</i>
<b>ASK</b>	IF Building IF Supplier found in J17 [District hot water suppliers] look-up table OR J18 [Supplier name] given	
<b>FILL</b>	<b>{Bills}</b> IF Only one account = "Does the bill or statement" IF 2 to 10 accounts = "Do the bills or statements" <b>{Supplier}</b> = Supplier name from J17 [District hot water suppliers] look-up table OR J18 [Supplier name]	
{Bills} from {Supplier} cover just this building or are other buildings covered as well?  1 Just this building 2 Other building(s)		
<b>NEXT</b>	IF Other buildings (2) → J27 [Sq ft of others included] IF Just this building (1) OR DK/RF: IF More suppliers left to answer for → Back to J17 [District hot water suppliers] for next supplier OTHERWISE → J28 [District loop square footage]	

<b>J27</b>	<b>Sq ft of others included</b>	<i>HW10TS8—HW40TS8</i>
<b>ASK</b>	IF Building IF J26 [Bills cover only building] = Other buildings	
<b>FILL</b>	<b>{Bills}</b> IF Only one account = "bill or statement" IF 2 to 10 accounts = "bills or statements"	
What is the approximate square footage of the <u>other</u> buildings included on the {Bills}?  ◆ PROBE for estimate if DK		
<b>RANGE</b>	1 to 999,999,999	
<b>NEXT</b>	IF More suppliers left to answer for → Back to J17 [District hot water suppliers] for next supplier OTHERWISE → K1 [Section K Routing]	

<b>J28</b>	<b>District loop square footage</b>	<i>HWLOOP28</i>
<b>ASK</b>	IF Building IF J26 [Bills cover only building] = Just this building OR DK/RF	
What is the total square footage of all the buildings on the <u>district loop</u> that serves this building?  ◆ If the building purchases district hot water from the local utility and is not on a district loop, ENTER "99"  ◆ PROBE for estimate if DK		
<b>RANGE</b>	1 to 999,999,999	
<b>NEXT</b>	→ K1 [Section K Routing]	

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## SECTION K. COLLECT MATERIALS

K1	Section K Routing
NEXT	<p>IF Special facility  OR  ((F2 [WS2 electricity filled out] &amp; (F10 [Electricity consumption] given  OR F11 [Electricity expenditures] given)  OR (G2 [WS2 natural gas filled out] &amp; G12 [Natural gas consumption] given  OR G13 [Natural gas expenditures] given)  OR (H2 [WS2 fuel oil filled out] &amp; H9 [Fuel oil consumption] given  OR H10 [Fuel oil expenditures] given)  OR (I2 [WS2 district steam filled out] &amp; I11 [District steam consumption] given  OR I12 [District steam expenditures] given)  OR (J2 [WS2 district hot water filled out] &amp; J9 [District hot water consumption] given  OR J10 [District hot water expenditures] given))  OR  (F20 [Monthly electricity available] = Yes OR G22 [Monthly natural gas available] = Yes)  OR  (F21 [Copy of bill available] = Yes OR G23 [Copy of bill available] = Yes)  OR  ((Supplier found in F26 [Electricity suppliers] look-up table OR F27 [Supplier name] given)  (Supplier found in G28 [Natural gas suppliers] look-up table OR G29 [Supplier name] given)  (Supplier found in H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name] given)  (Supplier found in I19 [District steam suppliers] look-up table OR I20 [Supplier name] given)  (Supplier found in J17 [District hot water suppliers] look-up table OR J18 [Supplier name] given))  → K2 [Collect materials]  OTHERWISE → K16 [Interview complete]</p>

<b>K2</b>	<b>Collect materials</b>
<b>ASK</b>	<p>All Structures  IF Special facility  OR  ((F2 [WS2 electricity filled out] &amp; (F10 [Electricity consumption] given  OR F11 [Electricity expenditures] given)  OR (G2 [WS2 natural gas filled out] &amp; G12 [Natural gas consumption] given  OR G13 [Natural gas expenditures] given)  OR (H2 [WS2 fuel oil filled out] &amp; H9 [Fuel oil consumption] given  OR H10 [Fuel oil expenditures] given)  OR (I2 [WS2 district steam filled out] &amp; I11 [District steam consumption] given  OR I12 [District steam expenditures] given)  OR (J2 [WS2 district hot water filled out] &amp; J9 [District hot water consumption] given  OR J10 [District hot water expenditures] given))  OR  (F20 [Monthly electricity available] = Yes OR G22 [Monthly natural gas available] = Yes)  OR  (F21 [Copy of bill available] = Yes OR G23 [Copy of bill available] = Yes)  OR  ((Supplier found in F26 [Electricity suppliers] look-up table OR F27 [Supplier name] given)  (Supplier found in G28 [Natural gas suppliers] look-up table OR G29 [Supplier name] given)  (Supplier found in H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name] given)  (Supplier found in I19 [District steam suppliers] look-up table OR I20 [Supplier name] given)  (Supplier found in J17 [District hot water suppliers] look-up table OR J18 [Supplier name] given))</p>
<p>Now, I just need to collect some of the forms that you filled out ahead of time or that we talked about during this interview.</p> <p>◆ ENTER "1" to continue</p>	
<b>NEXT</b>	<p>IF Special facility → K3 [Collect Campus Summary]  IF ((F2 [WS2 electricity filled out] &amp; (F10 [Electricity consumption] given  OR F11 [Electricity expenditures] given)  OR (G2 [WS2 natural gas filled out] &amp; G12 [Natural gas consumption] given  OR G13 [Natural gas expenditures] given)  OR (H2 [WS2 fuel oil filled out] &amp; H9 [Fuel oil consumption] given  OR H10 [Fuel oil expenditures] given)  OR (I2 [WS2 district steam filled out] &amp; I11 [District steam consumption] given  OR I12 [District steam expenditures] given)  OR (J2 [WS2 district hot water filled out] &amp; J9 [District hot water consumption] given  OR J10 [District hot water expenditures] given)) → K4 [Collect Worksheet 2]  IF (F20 [Monthly electricity available] = Yes OR G22 [Monthly natural gas available] = Yes)  → K5 [Collect monthly records]  IF (F21 [Copy of bill available] = Yes OR G23 [Copy of bill available] = Yes) → K6 [Collect energy bills]  IF ((Supplier found in F26 [Electricity suppliers] look-up table OR F27 [Supplier name] given)  (Supplier found in G28 [Natural gas suppliers] look-up table OR G29 [Supplier name] given)  (Supplier found in H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name] given)  (Supplier found in I19 [District steam suppliers] look-up table OR I20 [Supplier name] given)  (Supplier found in J17 [District hot water suppliers] look-up table OR J18 [Supplier name] given))  → K7 [Who signs authorization]</p>

<b>K3</b>	<b>Collect Campus Summary</b>	<i>GETCUH8</i>
<b>ASK</b>	All Structures IF Special facility	
<p>◆ If you have already collected the “College/University/Hospital Energy Summary” from another building on this same complex, ENTER "4"</p> <p>May I please have the completed “College/University/Hospital Energy Summary”? That’s the form that provides information for this campus or complex as a whole.</p> <p>◆ If respondent has this information in a different format, such as a spreadsheet, you may accept this in place of the “College/Univ/Hosp Energy Summary”</p> <ol style="list-style-type: none"> <li>1 Collected “College/Univ/Hosp Energy Summary”</li> <li>2 Did not collect</li> <li>3 Respondent will FAX, mail, or e-mail</li> <li>4 Already collected at a different building</li> </ol>		
<b>NEXT</b>	<p>IF ((F2 [WS2 electricity filled out] &amp; (F10 [Electricity consumption] given OR F11 [Electricity expenditures] given) OR (G2 [WS2 natural gas filled out] &amp; G12 [Natural gas consumption] given OR G13 [Natural gas expenditures] given) OR (H2 [WS2 fuel oil filled out] &amp; H9 [Fuel oil consumption] given OR H10 [Fuel oil expenditures] given) OR (I2 [WS2 district steam filled out] &amp; I11 [District steam consumption] given OR I12 [District steam expenditures] given) OR (J2 [WS2 district hot water filled out] &amp; J9 [District hot water consumption] given OR J10 [District hot water expenditures] given)) → K4 [Collect Worksheet 2] IF (F20 [Monthly electricity available] = Yes OR G22 [Monthly natural gas available] = Yes) → K5 [Collect monthly records] IF (F21 [Copy of bill available] = Yes OR G23 [Copy of bill available] = Yes) → K6 [Collect energy bills] IF ((Supplier found in F26 [Electricity suppliers] look-up table OR F27 [Supplier name] given) (Supplier found in G28 [Natural gas suppliers] look-up table OR G29 [Supplier name] given) (Supplier found in H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name] given) (Supplier found in I19 [District steam suppliers] look-up table OR I20 [Supplier name] given) (Supplier found in J17 [District hot water suppliers] look-up table OR J18 [Supplier name] given)) → K7 [Who signs authorization] OTHERWISE → K16 [Interview complete]</p>	

<b>K4</b>	<b>Collect Worksheet 2</b>	<i>GETWS28</i>
<b>ASK</b>	<p>All Structures  IF ((F2 [WS2 electricity filled out] &amp; (F10 [Electricity consumption] given  OR F11 [Electricity expenditures] given)  OR (G2 [WS2 natural gas filled out] &amp; G12 [Natural gas consumption] given  OR G13 [Natural gas expenditures] given)  OR (H2 [WS2 fuel oil filled out] &amp; H9 [Fuel oil consumption] given  OR H10 [Fuel oil expenditures] given)  OR (I2 [WS2 district steam filled out] &amp; I11 [District steam consumption] given  OR I12 [District steam expenditures] given)  OR (J2 [WS2 district hot water filled out] &amp; J9 [District hot water consumption] given  OR J10 [District hot water expenditures] given))</p>	
<p>May I please have Worksheet 2? [This is the "Energy Amounts Used and Dollars Spent" worksheet that you filled out before this interview.]</p> <ol style="list-style-type: none"> <li>1 Collected Worksheet 2</li> <li>2 Did not collect Worksheet 2</li> <li>3 Respondent will FAX, mail, or e-mail</li> </ol>		
<b>NEXT</b>	<p>IF (F20 [Monthly electricity available] = Yes OR G22 [Monthly natural gas available] = Yes)  → K5 [Collect monthly records]  IF (F21 [Copy of bill available] = Yes OR G23 [Copy of bill available] = Yes) → K6 [Collect energy bills]  IF ((Supplier found in F26 [Electricity suppliers] look-up table OR F27 [Supplier name] given)  (Supplier found in G28 [Natural gas suppliers] look-up table OR G29 [Supplier name] given)  (Supplier found in H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name] given)  (Supplier found in I19 [District steam suppliers] look-up table OR I20 [Supplier name] given)  (Supplier found in J17 [District hot water suppliers] look-up table OR J18 [Supplier name] given))  → K7 [Who signs authorization]  OTHERWISE → K16 [Interview complete]</p>	

<b>K5</b>	<b>Collect monthly records</b>	<i>GETMNT8</i>
<b>ASK</b>	<p>All Structures  IF (F20 [Monthly electricity available] = Yes OR G22 [Monthly natural gas available] = Yes)</p>	
<b>FILL</b>	<p><b>{ElecNG}</b>  IF F20 [Monthly electricity available] = Yes &amp; G22 [Monthly natural gas available] = Yes  = "electricity and natural gas"  IF Only F20 [Monthly electricity available] = Yes = "electricity"  IF Only G22 [Monthly natural gas available] = Yes = "natural gas"</p>	
<p>May I please have the monthly {ElecNG} records that we talked about a few minutes ago?</p> <ol style="list-style-type: none"> <li>1 Collected monthly records</li> <li>2 Did not collect monthly records</li> <li>3 Respondent will FAX, mail, or e-mail</li> </ol>		
<b>NEXT</b>	<p>IF (F21 [Copy of bill available] = Yes OR G23 [Copy of bill available] = Yes) → K6 [Collect energy bills]  IF ((Supplier found in F26 [Electricity suppliers] look-up table OR F27 [Supplier name] given)  (Supplier found in G28 [Natural gas suppliers] look-up table OR G29 [Supplier name] given)  (Supplier found in H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name] given)  (Supplier found in I19 [District steam suppliers] look-up table OR I20 [Supplier name] given)  (Supplier found in J17 [District hot water suppliers] look-up table OR J18 [Supplier name] given))  → K7 [Who signs authorization]  OTHERWISE → K16 [Interview complete]</p>	

<b>K6</b>	<b>Collect energy bills</b>	<i>GETBILS8</i>
<b>ASK</b>	All Structures IF (F21 [Copy of bill available] = Yes OR G23 [Copy of bill available] = Yes)	
<b>FILL</b>	{ElecNGBill} IF (F21 [Copy of bill available] = Yes OR F39 [Copy of bill available] = Yes) & (G23 [Copy of bill available] = Yes OR G41 [Copy of bill available] = Yes) = "copies of the electricity and natural gas bills" IF Only (F21 [Copy of bill available] = Yes OR F39 [Copy of bill available] = Yes) = "copy of the electricity bill" IF Only (G23 [Copy of bill available] = Yes OR G41 [Copy of bill available] = Yes) = "copy of the natural gas bill"	
<p>May I please have the {ElecNGBill} that we talked about a few minutes ago?</p> <ol style="list-style-type: none"> <li>1 Collected energy bill(s)</li> <li>2 Did not collect energy bill(s)</li> <li>3 Respondent will FAX, mail, or e-mail</li> </ol>		
<b>NEXT</b>	IF ((Supplier found in F26 [Electricity suppliers] look-up table OR F27 [Supplier name] given) (Supplier found in G28 [Natural gas suppliers] look-up table OR G29 [Supplier name] given) (Supplier found in H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name] given) (Supplier found in I19 [District steam suppliers] look-up table OR I20 [Supplier name] given) (Supplier found in J17 [District hot water suppliers] look-up table OR J18 [Supplier name] given)) → K7 [Who signs authorization] OTHERWISE → K16 [Interview complete]	

<b>K7</b>	<b>Who signs authorization</b>	<i>WHOAUTH8</i>
<b>ASK</b>	All Structures IF ((Supplier found in F26 [Electricity suppliers] look-up table OR F27 [Supplier name] given) (Supplier found in G28 [Natural gas suppliers] look-up table OR G29 [Supplier name] given) (Supplier found in H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name] given) (Supplier found in I19 [District steam suppliers] look-up table OR I20 [Supplier name] given) (Supplier found in J17 [District hot water suppliers] look-up table OR J18 [Supplier name] given))	
<p>As I mentioned earlier, we may need to contact your energy supplier to obtain the energy consumption. In order for the energy companies to release this information to us, we need to have an authorization form from you, or some other representative of your company.</p> <p>Should the authorization form be signed by you or someone else?</p> <ol style="list-style-type: none"> <li>1 Signed by respondent</li> <li>2 Signed by someone else</li> <li>3 IF VOLUNTEERED: Respondent refuses to sign or have anyone else sign</li> </ol>		
<b>NEXT</b>	IF Signed by respondent (1) OR Signed by someone else (2) → K8 [Prepare authorization form] IF Respondent refuses to sign or have anyone else sign (3) OR DK/RF → K16 [Interview complete]	

<b>K8</b>	<b>Prepare authorization form</b>
<b>ASK</b>	All Structures IF K7 [Who signs authorization] = Signed by respondent OR Signed by someone else
<b>FILL</b>	<p><b>{Structure}</b>  IF Building = "Building"  IF Establishment OR Anchor = "Establishment"  IF Common = "Mall"  <b>{Name}</b> = Name of the building, establishment or mall (from preloaded case information)  <b>{Address}</b> = Address (from preloaded case information)  <b>{City}</b> = City (from preloaded case information)  <b>{State}</b> = State (from preloaded case information)  <b>{Zip}</b> = Zip code (from preloaded case information)  <b>{CaseID}</b> = Case ID (from preloaded case information)</p>
<p>Please give me a moment to fill in the energy supplier names on this form.</p> <ul style="list-style-type: none"> <li>◆ Begin preparing the Authorization Form by recording the information shown below in the box near the top of the form</li> <li>◆ VERIFY with respondent as you record</li> </ul> <p>{Structure} Name: {Name}  {Structure} Address: {Address}  City: {City}  State: {State} ZIP code: {Zip}  Case ID: {CaseID}</p> <ul style="list-style-type: none"> <li>◆ ENTER "1" when finished</li> </ul>	
<b>NEXT</b>	IF (Supplier found in F26 [Electricity suppliers] look-up table OR F27 [Supplier name] given) → K9 [Electricity suppliers] IF (Supplier found in G28 [Natural gas suppliers] look-up table OR G29 [Supplier name] given) → K10 [Natural gas suppliers] IF (Supplier found in H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name] given) → K11 [Fuel oil suppliers] IF (Supplier found in I19 [District steam suppliers] look-up table OR I20 [Supplier name] given) → K12 [District steam suppliers] IF (Supplier found in J17 [District hot water suppliers] look-up table OR J18 [Supplier name] given) → K13 [District hot water suppliers]

<b>K9</b>	<b>Electricity suppliers</b>										
<b>ASK</b>	All Structures IF (K7 [Who signs authorization] = Signed by respondent OR Signed by someone else) & (Supplier found in F26 [Electricity suppliers] look-up table OR F27 [Supplier name] given)										
<b>FILL</b>	{ <b>Electricity</b> } = Shown as many times as electricity suppliers { <b>Supplier</b> } = Supplier name from F26 [Electricity suppliers] look-up table OR F27 [Supplier name]										
<p>◆ Continue preparing the Authorization Form by filling in “Electricity” on the line(s) for “Energy Source” and copying the supplier name(s) shown below in the adjacent box(es)</p> <table border="0"> <thead> <tr> <th><u>Energy Source</u></th> <th><u>Supplier Name</u></th> </tr> </thead> <tbody> <tr> <td>Electricity</td> <td>{Supplier}</td> </tr> <tr> <td>{Electricity}</td> <td>{Supplier}</td> </tr> <tr> <td>{Electricity}</td> <td>{Supplier}</td> </tr> <tr> <td>{Electricity}</td> <td>{Supplier}</td> </tr> </tbody> </table> <p>◆ ENTER “1” when finished</p>		<u>Energy Source</u>	<u>Supplier Name</u>	Electricity	{Supplier}	{Electricity}	{Supplier}	{Electricity}	{Supplier}	{Electricity}	{Supplier}
<u>Energy Source</u>	<u>Supplier Name</u>										
Electricity	{Supplier}										
{Electricity}	{Supplier}										
{Electricity}	{Supplier}										
{Electricity}	{Supplier}										
<b>NEXT</b>	IF (Supplier found in G28 [Natural gas suppliers] look-up table OR G29 [Supplier name] given) → K10 [Natural gas suppliers] IF (Supplier found in H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name] given) → K11 [Fuel oil suppliers] IF (Supplier found in I19 [District steam suppliers] look-up table OR I20 [Supplier name] given) → K12 [District steam suppliers] IF (Supplier found in J17 [District hot water suppliers] look-up table OR J18 [Supplier name] given) → K13 [District hot water suppliers] OTHERWISE: K7 [Who signs authorization] = Signed by respondent → K14 [Authorization form signed] K7 [Who signs authorization] = Signed by someone else → K15 [Contact for authorization]										

<b>K10</b>	<b>Natural gas suppliers</b>										
<b>ASK</b>	All Structures IF (K7 [Who signs authorization] = Signed by respondent OR Signed by someone else) & (Supplier found in G28 [Natural gas suppliers] look-up table OR G29 [Supplier name] given)										
<b>FILL</b>	{Natural Gas} = Shown as many times as natural gas suppliers {Supplier} = Supplier name from G28 [Natural gas suppliers] look-up table OR G29 [Supplier name]										
<p>◆ Continue preparing the Authorization Form by filling in “Natural Gas” on the line(s) for “Energy Source” and copying the supplier name(s) shown below in the adjacent box(es)</p> <table border="0"> <thead> <tr> <th><u>Energy Source</u></th> <th><u>Supplier Name</u></th> </tr> </thead> <tbody> <tr> <td>Natural Gas</td> <td>{Supplier}</td> </tr> <tr> <td>{Natural Gas}</td> <td>{Supplier}</td> </tr> <tr> <td>{Natural Gas}</td> <td>{Supplier}</td> </tr> <tr> <td>{Natural Gas}</td> <td>{Supplier}</td> </tr> </tbody> </table> <p>◆ ENTER “1” when finished</p>		<u>Energy Source</u>	<u>Supplier Name</u>	Natural Gas	{Supplier}	{Natural Gas}	{Supplier}	{Natural Gas}	{Supplier}	{Natural Gas}	{Supplier}
<u>Energy Source</u>	<u>Supplier Name</u>										
Natural Gas	{Supplier}										
{Natural Gas}	{Supplier}										
{Natural Gas}	{Supplier}										
{Natural Gas}	{Supplier}										
<b>NEXT</b>	IF (Supplier found in H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name] given) → K11 [Fuel oil suppliers] IF (Supplier found in I19 [District steam suppliers] look-up table OR I20 [Supplier name] given) → K12 [District steam suppliers] IF (Supplier found in J17 [District hot water suppliers] look-up table OR J18 [Supplier name] given) → K13 [District hot water suppliers] OTHERWISE: K7 [Who signs authorization] = Signed by respondent → K14 [Authorization form signed] K7 [Who signs authorization] = Signed by someone else → K15 [Contact for authorization]										

<b>K11</b>	<b>Fuel oil suppliers</b>										
<b>ASK</b>	All Structures IF (K7 [Who signs authorization] = Signed by respondent OR Signed by someone else) & (Supplier found in H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name] given)										
<b>FILL</b>	<b>{Fuel Oil}</b> = Shown as many times as fuel oil suppliers <b>{Supplier}</b> = Supplier name from H21 [Fuel oil suppliers] look-up table OR H22 [Supplier name]										
	<p>◆ Continue preparing the Authorization Form by filling in “Fuel Oil” on the line(s) for “Energy Source” and copying the supplier name(s) shown below in the adjacent box(es)</p> <table border="0"> <thead> <tr> <th><u>Energy Source</u></th> <th><u>Supplier Name</u></th> </tr> </thead> <tbody> <tr> <td>Fuel Oil</td> <td>{Supplier}</td> </tr> <tr> <td>{Fuel Oil}</td> <td>{Supplier}</td> </tr> <tr> <td>{Fuel Oil}</td> <td>{Supplier}</td> </tr> <tr> <td>{Fuel Oil}</td> <td>{Supplier}</td> </tr> </tbody> </table> <p>◆ ENTER “1” when finished</p>	<u>Energy Source</u>	<u>Supplier Name</u>	Fuel Oil	{Supplier}	{Fuel Oil}	{Supplier}	{Fuel Oil}	{Supplier}	{Fuel Oil}	{Supplier}
<u>Energy Source</u>	<u>Supplier Name</u>										
Fuel Oil	{Supplier}										
{Fuel Oil}	{Supplier}										
{Fuel Oil}	{Supplier}										
{Fuel Oil}	{Supplier}										
<b>NEXT</b>	IF (Supplier found in I19 [District steam suppliers] look-up table OR I20 [Supplier name] given) → K12 [District steam suppliers] IF (Supplier found in J17 [District hot water suppliers] look-up table OR J18 [Supplier name] given) → K13 [District hot water suppliers] OTHERWISE: K7 [Who signs authorization] = Signed by respondent → K14 [Authorization form signed] K7 [Who signs authorization] = Signed by someone else → K15 [Contact for authorization]										

<b>K12</b>	<b>District steam suppliers</b>										
<b>ASK</b>	All Structures IF (K7 [Who signs authorization] = Signed by respondent OR Signed by someone else) & (Supplier found in I19 [District steam suppliers] look-up table OR I20 [Supplier name] given)										
<b>FILL</b>	{ <b>District Steam</b> } = Shown as many times as district steam suppliers { <b>Supplier</b> } = Supplier name from I19 [District steam suppliers] look-up table OR I20 [Supplier name]										
	<p>◆ Continue preparing the Authorization Form by filling in “District Steam” on the line(s) for “Energy Source” and copying the supplier name(s) shown below in the adjacent box(es)</p> <table> <thead> <tr> <th><u>Energy Source</u></th> <th><u>Supplier Name</u></th> </tr> </thead> <tbody> <tr> <td>District Steam</td> <td>{Supplier}</td> </tr> <tr> <td>{District Steam}</td> <td>{Supplier}</td> </tr> <tr> <td>{District Steam}</td> <td>{Supplier}</td> </tr> <tr> <td>{District Steam}</td> <td>{Supplier}</td> </tr> </tbody> </table> <p>◆ ENTER “1” when finished</p>	<u>Energy Source</u>	<u>Supplier Name</u>	District Steam	{Supplier}	{District Steam}	{Supplier}	{District Steam}	{Supplier}	{District Steam}	{Supplier}
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District Steam	{Supplier}										
{District Steam}	{Supplier}										
{District Steam}	{Supplier}										
{District Steam}	{Supplier}										
<b>NEXT</b>	IF (Supplier found in J17 [District hot water suppliers] look-up table OR J18 [Supplier name] given) → K13 [District hot water suppliers] OTHERWISE: K7 [Who signs authorization] = Signed by respondent → K14 [Authorization form signed] K7 [Who signs authorization] = Signed by someone else → K15 [Contact for authorization]										

<b>K13</b>	<b>District hot water suppliers</b>										
<b>ASK</b>	All Structures IF (K7 [Who signs authorization] = Signed by respondent OR Signed by someone else) & (Supplier found in J17 [District hot water suppliers] look-up table OR J18 [Supplier name] given)										
<b>FILL</b>	<b>{District Hot Water}</b> = Shown as many times as district hot water suppliers <b>{Supplier}</b> = Supplier name from J17 [District hot water suppliers] look-up table OR J18 [Supplier name]										
<p>◆ Continue preparing the Authorization Form by filling in “District Hot Water” on the line(s) for “Energy Source” and copying the supplier name(s) shown below in the adjacent box(es)</p> <table border="0"> <thead> <tr> <th><u>Energy Source</u></th> <th><u>Supplier Name</u></th> </tr> </thead> <tbody> <tr> <td>District Hot Water</td> <td>{Supplier}</td> </tr> <tr> <td>{District Hot Water}</td> <td>{Supplier}</td> </tr> <tr> <td>{District Hot Water}</td> <td>{Supplier}</td> </tr> <tr> <td>{District Hot Water}</td> <td>{Supplier}</td> </tr> </tbody> </table> <p>◆ ENTER “1” when finished</p>		<u>Energy Source</u>	<u>Supplier Name</u>	District Hot Water	{Supplier}	{District Hot Water}	{Supplier}	{District Hot Water}	{Supplier}	{District Hot Water}	{Supplier}
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<b>NEXT</b>	K7 [Who signs authorization] = Signed by respondent → K14 [Authorization form signed] K7 [Who signs authorization] = Signed by someone else → K15 [Contact for authorization]										

<b>K14</b>	<b>Authorization form signed</b>	<i>GETAUTH8</i>
<b>ASK</b>	All Structures IF K7 [Who signs authorization] = Signed by respondent	
<p>◆ Give respondent the Authorization Form and have them record their information and signature in the middle portion of the form</p> <p>Please fill out the rest of this information and sign this form.</p> <p>◆ VERIFY that they have signed the form</p> <ol style="list-style-type: none"> <li>1 Collected signed authorization form</li> <li>2 Did not collect signed authorization form</li> <li>3 Respondent will FAX, mail, or e-mail</li> </ol>		
<b>NEXT</b>	→ K16 [Interview complete]	

<b>K15</b>	<b>Contact for authorization</b>
<b>ASK</b>	All Structures IF K7 [Who signs authorization] = Signed by someone else
<p>Please give me the name, address, and telephone number of the person who should sign the authorization form.</p> <ul style="list-style-type: none"> <li>◆ RECORD contact information on the Case Assignment Folder</li> <li>◆ ENTER "1" when completed</li> </ul>	
<b>NEXT</b>	→ K16 [Interview complete]

<b>K16</b>	<b>Interview complete</b>	<i>DONE8</i>
<p>That completes our interview. Thank you so much for your time and help.</p> <ul style="list-style-type: none"> <li>◆ ENTER "1", &lt;ENTER&gt;, then &lt;F10&gt; to Exit</li> </ul>		
<b>NEXT</b>	INTERVIEW COMPLETE!	