# U.S. Department of Energy 

Commercial Buildings Energy Consumption Survey for 1999

## BUILDING QUESTIONNAIRE

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## ABOUT THIS QUESTIONNAIRE

## Background

The 1999 Commercial Buildings Energy Consumption Survey (CBECS) was administered as a computer-assisted telephone interview (CATI) that was programmed using Blaise software. Past CBECS interviews have been administered in-person, and relied heavily on the use of "hand cards," which listed response categories for certain questions to make it easier for the respondent to choose an answer. Since these proved to be valuable, an attempt was made in 1999 to mail each respondent a "Question Reference Guide" and a set of worksheets. The "Question Reference Guide" was similar to the "hand cards" and the worksheets contained questions for which some research might be necessary, such as the square footage of the building, types of equipment, and energy consumption. Before entering the main questionnaire, the respondent was asked which of these materials they had completed, and questions in the main questionnaire were then worded accordingly, based on which materials were completed.

## How to Use This Document

If there is no arrow on a response choice and no routing instructions immediately following the question, go to the next question.

Boxes contain routing information or re-coding information that was done automatically by the Blaise program and was transparent to the interviewer. When you come to a box, follow the instructions for routing. Do not skip over boxes!

Boxes with double-line borders are termination boxes. The interview is complete when one of these is reached.
Questions in a dashed-line box are questions that are grouped together (unfolding questions or follow-up percentage questions, for example).
\{Words in brackets\} are text that was automatically substituted in the question by Blaise. Brackets did not appear on the screen. The substitution text may be either an answer from a previous question (such as the square footage figure) or data from an external file (such as 1995 data) or alternate phrasing for a question. In this latter case, more than one phrase appears in brackets, separated by "/". Blaise automatically chose the most appropriate phrase for the question in these cases. Because of the limitations of this paper document, the conditions for each of these fills are not given.

Words in italics are text that may or may not have appeared for the question. The Blaise program displayed this text when appropriate (for example, text referencing the worksheets and/or "Question Reference Guide" would only appear when the respondent had those materials in front of them).

SAS VARIABLES appear as white on black. For questions for which there could be only one answer (mutually exclusive categories), these appear next to the question number and the codes for the answer categories are shown in the body of the question.

Verification Questions and "Check All That Apply" questions are shown as black on grey. Verification questions are questions that were just used as a check and were not used in the final database. "Check All That Apply" questions contain the SAS variables within the body of the question, and in these cases, each SAS variable has response categories of "Yes" or "No."

In the routing instructions, if square brackets follow a box number ( $\rightarrow$ BOX 21 [01]), this is the line number to go to in the box. In many cases, this shows which category a variable was automatically coded into by Blaise.

DK stands for either "Don't Know" or "Refused." If there are no specific routing instructions given for DK, the path was the same as if an answer was given.

Instructions that say, for example, "Enter a numeric value between 1 and 999 " were not seen on the screen. This instruction appears in this document just to indicate what the acceptable ranges were.

## Other Screen Conventions

TEXT IN UPPERCASE was not intended to be read aloud to the respondent.
[WORDS IN SQUARE BRACKETS] are interviewer notes or optional text that appeared on the question screen.
There was a header on each question screen which included the building name, address, and description. When [READ FROM ABOVE] appears within a question, the interviewers were instructed to insert enough information from this header to clearly identify the building.

On screens that the instruction [** PROBE **] appeared, interviewers were instructed to probe for an answer if the respondent was unsure or did not know the answer. If this instruction did not appear on the screen, it was important that they not probe, because in these cases there were follow-up questions designed to guide the respondent to an approximate answer.

## SECTION A. BUILDING SIZE AND AGE

## A-1. SQFT7

Please refer to Worksheet 1, that's the green worksheet, for some of the next questions.
What is the gross or total square footage of all the space in this building, both finished and unfinished, including: basements, indoor parking levels, hallways, lobbies, stairways, and elevator shafts? This number is found in Box 1.

## [** VERIFY NUMBER DIGIT BY DIGIT **]

[IF ASKED: Total square footage $=$ Length of building multiplied by width of building.]
Enter a numeric value between 1 and 999999999: $\qquad$

```
1-999999999 }\quad->\mathrm{ BOX 1
DK and have "Question Reference Guide" }->\mathrm{ A-2
DK and don't have "Question Reference Guide" }\boldsymbol{->}\mathrm{ A-3
```


## BOX 1

Is the square footage greater than 1,000 ?

```
Yes }->\mathrm{ BOX 2
No }->\mathrm{ BOX 5
```


## A-2. SQFTC7

I understand that it may be difficult to give an exact figure for square footage. However, the size of your building is very important in helping understand the building's use of energy.

Please turn to Reference 1 in the bright orange Question Reference Guide, which has ten categories ranging from "one thousand square feet or less" to "over one million square feet". Which category best describes the total gross square footage in this building? There are tips provided to help you estimate your building's size.
[IF RESPONDENT GIVES THE CATEGORY CODE, VERIFY THE RESPONSE BY READING THE FULL ANSWER.]

|  | 01 ............ 1,000 SQ FT OR LESS $\quad \rightarrow$ BOX 5 |  |
| :---: | :---: | :---: |
|  | ............1,001 TO 5,000 SQ FT |  |
| 03 ........... 5,001 TO 10,000 SQ FT |  |  |
| 04 ........... 10,001 TO 25,000 SQ FT |  |  |
| 05 ...........25,001 TO 50,000 SQ FT |  |  |
| 07 ...........50,001 100 100,000 SQ FT $\quad \rightarrow$ BOX 3 |  |  |
|  |  |  |
| 08 ............200,001 TO 500,000 SQ FT |  |  |
|  |  |  |
| 10 ............. OVER 1 MILLION SQ FT |  |  |
|  | - A-17 |  |

## "UNFOLDING SQUARE FOOTAGE CATEGORY"

I understand that it may be difficult to give an exact figure for square footage. However, the size of your building is very important in helping understand the building's use of energy.

Thinking of a book or music superstore, which is about twenty-five thousand square feet, would you say that your building is smaller than, about the same as, or larger than twenty-five thousand square feet?

| $1 \ldots \ldots \ldots . .$. SMALLER | $\rightarrow$ A-4 |
| :--- | :--- |
| $2 \ldots \ldots \ldots .$. SAME SIZE | $\rightarrow$ BOX $2[04]$ |
| $3 \ldots \ldots \ldots .$. LARGER $\rightarrow$ A-7 |  |

## A-4. SQFT107

Thinking of a large family restaurant, which is about ten thousand square feet, would you say that your building is smaller than, about the same as, or larger than ten thousand square feet?

```
1 .......SMALLER -> A-5
2 .......SAME SIZE }->\mathrm{ BOX 2 [03]
3 .......LARGER }->\mathrm{ BOX 2[04]
```


## A-5. SQFT57

Thinking of a fast food restaurant, which is about five thousand square feet, would you say that your building is smaller than, about the same as, or larger than five thousand square feet?

```
1 .......SMALLER -> A-6
2 .......SAME SIZE -> BOX 2 [02]
3 .......LARGER }->\mathrm{ BOX 2[03]
```


## A-6. SQFTONE7

Thinking of a building twice the size of a two car garage, which is about one thousand square feet, would you say that your building is smaller than, about the same as, or larger than one thousand square feet?

| $1 \ldots \ldots .$. SMALLER | $\rightarrow$ BOX 5 |
| :--- | :--- |
| $2 \ldots \ldots$. SAME SIZE | $\rightarrow$ BOX 5 |
| $3 \ldots \ldots .$. LARGER | $\rightarrow$ BOX 2 [02] |

DK TO ANY ONE OF THESE UNFOLDING QUESTIONS $\rightarrow$ A-17

## A-7. SQFT507

Thinking of a supermarket, which is about fifty thousand square feet, would you say that your building is smaller than, about the same as, or larger than fifty thousand square feet?

```
1 .......SMALLER }->\mathrm{ BOX 2 [05]
2 .......SAME SIZE -> BOX 2 [05]
3 .......LARGER }->\mathrm{ A-8
```


## A-8. SQFT1007

Thinking of a large discount department store, which is about one hundred thousand square feet, would you say that your building is smaller than, about the same as, or larger than one hundred thousand square feet?

```
1 .......SMALLER -> BOX 2 [06]
2 .......SAME SIZE -> BOX 2 [06]
3 .......LARGER }->\mathrm{ A-9
```


## A-9. SQFT2007

Thinking of a three level department store, which is about two hundred thousand square feet, would you say that your building is smaller than, about the same as, or larger than two hundred thousand square feet?

```
1 .......SMALLER }->\mathrm{ BOX 2 [07]
2 .......SAME SIZE }->\mathrm{ BOX 2 [07]
3 .......LARGER }->\mathrm{ A-10
```


## A-10. SQFT5007

Thinking of a professional basketball arena, which is about five hundred thousand square feet, would you say that your building is smaller than, about the same as, or larger than five hundred thousand square feet?

```
1 .......SMALLER -> BOX 2 [08]
2 ......SAME SIZE }->\mathrm{ BOX 2 [08]
3 .......LARGER }->\mathrm{ A-11
```


## A-11. SQFTMIL7

Thinking of a skyscraper, which is about one million square feet, would you say that your building is smaller than, about the same as, or larger than one million square feet?
$1 \ldots . . .$. SMALLER $\rightarrow$ BOX $2[09]$
$2 \ldots \ldots$. SAME SIZE $\rightarrow$ BOX $2[09]$
$3 \ldots \ldots .$. LARGER $\rightarrow$ BOX $2[10]$

## BOX 2

## SQFTC7

Auto-code square footage category. If the previous question was part of the "unfolding" category, the numeric code that was given in brackets is the autocoded square footage category.

| 01 ............ 1,000 SQ FT OR LESS |  |
| :---: | :---: |
| 02............ 1,001 TO 5,000 SQ FT |  |
| 03 ........... 5,001 TO 10,000 SQ FT |  |
| 04 ........... 10,001 TO 25,000 SQ FT |  |
| 05 ........... 25,001 TO 50,000 SQ FT | $\rightarrow$ BOX 4 |
| 06 ........... 50,001 TO 100,000 SQ FT |  |
| 07 ........... 100,001 TO 200,000 SQ FT |  |
| 08 ............ 200,001 TO 500,000 SQ FT |  |
| 09 ........... 500,001 TO 1 MILLION SQ FT |  |
| 10............ OVER 1 MILLION SQ FT |  |

## BOX 3

Is the building from the longitudinal sample and was the square footage category reported in 1995?

$$
\begin{aligned}
& \mathrm{Yes} \rightarrow \mathrm{BOX} 4 \\
& \mathrm{No} \rightarrow \mathrm{~A}-17 \\
& \hline
\end{aligned}
$$

## BOX 4

Is the building in a larger or smaller square footage category than in 1995, or is it in the same category?

```
Larger }->\textrm{A}-1
Smaller }->\mathrm{ A-14
Same }->\mathrm{ A-17
```


## A-12. ONLYBLD7

It was recorded in 1995 that the square footage was smaller than this. Does this square footage include only the building [READ FROM ABOVE]?

1. $\qquad$ $\mathrm{YES} \rightarrow \mathrm{A}-13$
2 $\qquad$ NO $\rightarrow$ A-16

DK $\rightarrow$ A-13

A-13. ANYADD7
Have there been any additions to this building since $1995 ?$
$1 \ldots . . . . . . . . . . .$. YES $\rightarrow$ A-17
$2 \ldots . . . . . . . . . ~ N O ~$ A-17

## SECTION A

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## A-14. ALLBLD7

It was recorded in 1995 that the square footage was larger than this. Does this square footage include the entire building [READ FROM ABOVE]?

DK $\rightarrow$ A-15

## A-15. ANYDEM7

Was part of this building demolished since 1995?
1 ............... YES $\rightarrow$ A-17
$2 \ldots . . . . . . . . . . . N O B A-17$

## A-16. SQFTREV7

For this study, we are focusing on the building [READ FROM ABOVE]. What is the square footage for this building?

## [** VERIFY NUMBER DIGIT BY DIGIT **]

Enter a numeric value between 1 and 999999999: $\qquad$

```
1000 or less }->\mathrm{ BOX 5
Over 1000 }->\mathrm{ A-17
```

DK $\rightarrow$ A-17

## BOX 5

Since this study is of buildings that are more than one thousand square feet, this interview is complete. Thank you for your time and help.
[CLICK ON FORMS, EXIT]

## A-17. NFLOOR7

How many floors are in the tallest section of the building, including basements, parking levels, or any other floors below ground level? This number is found in Box 2 [on Worksheet 1].
[** PROBE **]
Enter a numeric value between 1 and 999: $\qquad$

## A-18. YRCON7

What year was this building constructed? If there have been major additions, give the year the largest portion was completed. This is found in Box 3 [on Worksheet 1].

Enter a numeric value between 1600 and 2000: $\qquad$

```
1600-1998 }->\mathrm{ SECTION B
1999 樟-20
2000 }\quad->\mathrm{ BOX 6
```

DK $\rightarrow$ A-19

## A-19. YRCONC7

Which of the following ranges best describes when this building was constructed...


## BOX 6

Since this study is of buildings that were open for occupancy before January 2000, this interview is complete. Thank you for your time and help.
[CLICK ON FORMS, EXIT]

A-20. MONCON7
In what month of 1999 was the building first ready for occupancy?

| 01 | $\ldots \ldots \ldots .$. JANUARY |
| :--- | :--- |
| 01 | $\ldots \ldots \ldots .$. FEBRUARY |
| 01 | $\ldots \ldots \ldots$. MARCH |
| 02 | $\ldots \ldots \ldots$. APRIL |
| 02 | $\ldots \ldots \ldots$. MAY |
| $02 \ldots \ldots \ldots$. JUNE |  |
| 03 | $\ldots \ldots \ldots .$. JULY |
| 03 | $\ldots \ldots \ldots$. AUGUST |
| 03 | $\ldots \ldots \ldots .$. SEPTEMBER |
| 04 | $\ldots \ldots \ldots$. OCTOBER |
| 04 | $\ldots \ldots \ldots .$. NOVEMBER |
| 04 | $\ldots \ldots \ldots .$. DECEMBER |

## SECTION B

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## SECTION B. BUILDING ACTIVITY

## BOX 7

Is the building from the longitudinal sample and was the building 75 percent or more of a single activity except for "Other" in 1995?

```
Yes }->\textrm{B}-
No }->\textrm{B}-
```


## B-1. PBA95YN7

It was recorded in 1995 that this building was \{1995 activity\}. Is it still true that 75 percent or more of the floorspace in the building is used for this purpose?
[** PROBE **]
1 $\qquad$ YES $\rightarrow$ BOX 8
2 $\qquad$ $\mathrm{NO} \rightarrow \mathrm{B}-2$

DK $\rightarrow$ B-33

## BOX 8

Assign activity as the one from 1995, then follow path as shown here.

| Office/Professional | $\rightarrow \mathrm{B}-8$ |
| :---: | :---: |
| Warehouse | $\rightarrow \mathrm{B}-19$ |
| Food Sales or Service | $\rightarrow$ B-9 |
| Retail | $\rightarrow \mathrm{B}-10$ |
| Education | $\rightarrow$ B-11 |
| Religious Worship | $\rightarrow$ BOX 13 [12] |
| Public Assembly | $\rightarrow \mathrm{B}-12$ |
| Health Care | $\rightarrow \mathrm{B}-13$ |
| Service | $\rightarrow \mathrm{B}-14$ |
| Lodging | $\rightarrow \mathrm{B}-15$ |
| Public Order and Safety | $\rightarrow \mathrm{B}-16$ |
| Residential | $\rightarrow \mathrm{B}-17$ |
| Industrial/Manufacturing | $\rightarrow \mathrm{B}-18$ |
| Agricultural | $\rightarrow \mathrm{B}-21$ |
| Vacant | $\rightarrow \mathrm{B}-22$ |

## B-2. ONEACT7

The next questions are about how this building is used. Does one single activity account for 75 percent or more of the floorspace in the building [READ FROM ABOVE]?
[** PROBE **]
$\qquad$ YES $\rightarrow B-3$
2 $\qquad$ $\mathrm{NO} \rightarrow \mathrm{B}-4$

DK $\rightarrow$ B-33

## B-3. ACT7

Please turn to Reference 2 [in the bright orange Question Reference Guide]. Which one of the activities listed accounts for 75 percent or more of the floorspace?
[** PROBE **]

| 11 | Office or professional, | $\rightarrow$ B-8 |
| :---: | :---: | :---: |
| 12 | Warehouse, | $\rightarrow \mathrm{B}-19$ |
| 13 | Food sales or service, | $\rightarrow$ B-9 |
| 14 | Retail, | $\rightarrow \mathrm{B}-10$ |
| 15 | Education, | $\rightarrow \mathrm{B}-11$ |
| 16 | Religious worship, | $\rightarrow$ BOX 13 [12] |
| 17 | Public assembly, | $\rightarrow \mathrm{B}-12$ |
| 18 | Health care, | $\rightarrow \mathrm{B}-13$ |
| 19 | Service, | $\rightarrow \mathrm{B}-14$ |
| 20 | Lodging, | $\rightarrow \mathrm{B}-15$ |
| 21 | Public order and safety, | $\rightarrow \mathrm{B}-16$ |
| 22 | Residential, | $\rightarrow \mathrm{B}-17$ |
| 23 | Industrial or manufacturing, $\rightarrow$ | $\rightarrow \mathrm{B}-18$ |
| 24 | Agricultural, | $\rightarrow \mathrm{B}-21$ |
| 25 | Vacant, | $\rightarrow \mathrm{B}-22$ |
| 26 | Or some other activity? | $\rightarrow \mathrm{B}-24$ |
| DK |  |  |

## B-4. ACT17 ACT27 ACT37

Please turn to Reference 2 [in the bright orange Question Reference Guide]. Which activities occupy the most space in this building? Choose up to three...
[** PROBE **]

$$
11
$$

$\qquad$ Office or professional,
12 $\qquad$ Warehouse,
13 ............ Food sales or service,
14 Retail,
15 ............ Education,
16 ............ Religious worship,
17 ............ Public assembly,
18 ............ Health care,
19 ........... Service,
20 ............ Lodging,
21 ............ Public order and safety,
22
Residential
23 ............ Industrial or manufacturing,
24 ............ Agricultural,
25 ............ Vacant,
26 ............ Or some other activity?


DK $\rightarrow$ B-33

## B-5. ACT1PCT7

About what percentage of the total space is \{first activity given\}?
Enter a numeric value between 0 and 100: $\qquad$

## SECTION B

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## B-6. ACT2PCT7

About what percentage of the total space is \{second activity given\}?
Enter a numeric value between 0 and 100: $\qquad$
Three activities given $\rightarrow$ B-7
Only two activities given $\rightarrow$ BOX 9

## B-7. ACT3PCT7

About what percentage of the total space is \{third activity given\}?
Enter a numeric value between 0 and 100 : $\qquad$

## BOX 9

Determine whether there is an activity with a maximum percent. If so, define that as the activity. If there are two or three equal maximum percentages (or if they are all DK), assign the activity as the most energy intensive one (based on intensities from the 1995 CBECS, in this order from most to least intensive: health care, food sales or service, other, lodging, service, public assembly, public order and safety, office, education, retail, warehouse, religious worship, vacant, industrial/ manufacturing, agricultural, residential). Then follow the path as shown here:

| Office/Professional | $\rightarrow$ B-8 |
| :--- | :--- |
| Food Sales or Service | $\rightarrow$ B-9 |
| Retail | $\rightarrow$ B-10 |
| Education | $\rightarrow$ B-11 |
| Public Assembly | $\rightarrow$ |
| B-12 |  |
| Health Care | $\rightarrow$ |
| B-13 |  |
| Service | $\rightarrow$ B-14 |
| Lodging | $\rightarrow$ B-15 |
| Public Order and Safety | $\rightarrow$ B-16 |
| Residential | $\rightarrow$ B-17 |
| Industrial/Manufacturing | $\rightarrow$ B-18 |
| Wareuse | $\rightarrow$ B-19 |
| Agricultural | $\rightarrow$ B-21 |
| Vacant | $\rightarrow$ B-22 |
| Other | B-24 |
| Religious Worship | $\rightarrow$ BOX 13 [12] |

## B-8. OFFCSP7

For the purposes of this survey, I will include your building in the general category of office.
More specifically, what type of office building is this? Is it...
[** PROBE **]


DK $\rightarrow$ B-33

B-9. FOODSP7
For the purposes of this survey, I will include your building in the general category of food sales or service.

More specifically, what type of food sales or service building is this? Is it...
[** PROBE **]

|  | a restaurant, bar, fast food chain, or cafeteria, | $\rightarrow$ BOX 13 [15] |
| :---: | :---: | :---: |
| 2 | a grocery store or food market, | $\rightarrow$ BOX 13 [06] |
| 3 | . a gas station with a convenience store, | $\rightarrow$ BOX 13 [06] |
| $4$ | a convenience store, | $\rightarrow$ BOX 13 [06] |
|  | an alcoholic beverage store, | $\rightarrow$ BOX 13 [25] |
|  | . or some other type of food sales or servic |  |

DK $\rightarrow$ B-33

## SECTION B

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## B-10. RETLSP7

For the purposes of this survey, I will include your building in the general category of retail.
More specifically, what type of retail building is this? Is it...
[** PROBE **]


DK $\rightarrow$ B-33

## B-11. EDUCSP7

For the purposes of this survey, I will include your building in the general category of education.
More specifically, what type of education building is this? Is it...

## [** PROBE **]

| ycare, | $\rightarrow$ BOX 13 [14] |
| :---: | :---: |
| $2 \ldots . . . . . . . .$. an elementary, middle school, or high school, | $\rightarrow$ BOX 13 [14] |
| $3 \ldots . . . . . . . .$. a college or university, | $\rightarrow$ BOX 13 [14] |
| 4 ............. a laboratory, | $\rightarrow$ BOX 13 [04] |
| 5 ............. a library or museum, | $\rightarrow$ BOX 13 [13] |
| or some other type of education building? | $\rightarrow \mathrm{B}-25$ |

DK $\rightarrow \mathrm{B}-33$

## B-12. ASSMSP7

For the purposes of this survey, I will include your building in the general category of public assembly.
More specifically, what type of public assembly building is this? Is it...
[** PROBE **]
01 .. a theater, cinema, sports arena, casino, or night club, $\quad \rightarrow$ BOX 13 [13]
02 .. a gymnasium, health club, bowling alley, or other recreational sports facility, $\rightarrow$ BOX 13 [13]
03 .. a social meeting center, meeting hall, or convention center,
04 .. a library or museum,
$\rightarrow$ BOX 13 [13]
05 .. a transportation terminal,
$\rightarrow$ BOX 13 [13]
06 .. a funeral home,
$\rightarrow$ BOX 13 [13]
07 .. a restaurant, bar, fast food chain, or cafeteria,
$\rightarrow$ BOX 13 [15]
08 .. a broadcasting studio,
$\rightarrow$ BOX 13 [13]
09 .. or some other type of public assembly building?
$\rightarrow \mathrm{B}-25$
DK $\rightarrow$ B-33

## B-13. HLTHSP7

For the purposes of this survey, I will include your building in the general category of health care.
More specifically, what type of health care building is this? Is it...
[** PROBE **]

|  | a hospital or other inpatient health care building, | BOX 13 [16] |
| :---: | :---: | :---: |
|  | . a doctor's or dentist's office, | $\rightarrow$ BOX 13 [02] |
| 03 | . a clinic or other outpatient health care building, | $\rightarrow$ BOX 13 [08] |
|  | . a nursing home, assisted living center, or other residential care building, | $\rightarrow$ BOX 13 [17] |
|  | a mental health institution, | $\rightarrow$ BOX 13 [16] |
|  | an inpatient rehabilitation center, | $\rightarrow$ BOX 13 [16] |
|  | ....... an outpatient rehabilitation center, | $\rightarrow$ BOX 13 [08] |
|  | ....... a veterinarian's office, | $\rightarrow$ BOX 13 [08] |
|  | ....... a laboratory, | $\rightarrow$ BOX 13 [04] |
|  | ....... or some other type of health care building? | $\rightarrow \mathrm{B}-25$ |

DK $\rightarrow$ B-33

## SECTION B

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## B-14. SERVSP7

For the purposes of this survey, I will include your building in the general category of service.
More specifically, what type of service building is this? Is it...
[** PROBE **]

|  | .. an auto service or auto repair shop, | $\rightarrow$ BOX 13 [26] |
| :---: | :---: | :---: |
| 02 | ....... a bank or other financial institution, | $\rightarrow$ BOX 13 [02] |
| 03 | ....... a beauty parlor or barber shop, | $\rightarrow$ BOX 13 [26] |
| 04 | ....... a car wash, | $\rightarrow$ BOX 13 [26] |
| 05 | .... a copy center, | $\rightarrow$ BOX 13 [26] |
| 06 | ..... a dry cleaner or laundromat, | $\rightarrow$ BOX 13 [26] |
| 07 | $\ldots . .$. a gas station with a convenience store, | $\rightarrow$ BOX 13 [06] |
| 08 | ....... a gas station, | $\rightarrow$ BOX 13 [26] |
| 09 | ....... a kennel, | $\rightarrow$ BOX 13 [26] |
| 10 | ... a photo processing shop, | $\rightarrow$ BOX 13 [26] |
| 11 | ... a post office or postal center, | $\rightarrow$ BOX 13 [26] |
| 12 | ..... a store that rents items such as videos, equipment, or vehicles, | $\rightarrow$ BOX 13 [25] |
| 13 | ....... a repair shop, | $\rightarrow$ BOX 13 [26] |
| 14 | ....... a gymnasium, health club, bowling alley, or other recreational sports facility, | $\rightarrow$ BOX 13 [13] |
| 15 | .... a restaurant, bar, fast food chain, or cafeteria, | $\rightarrow$ BOX 13 [15] |
| 16 | $\ldots .$. an indoor parking garage | $\rightarrow$ BOX 11 |
|  | ....... or some other type of service building? | $\rightarrow \mathrm{B}-25$ |

DK $\rightarrow$ B-33

## B-15. LODGSP7

For the purposes of this survey, I will include your building in the general category of lodging.
More specifically, what type of lodging building is this? Is it...

## [** PROBE **]

|  | . a hotel, | $\rightarrow$ BOX 13 [18] |
| :---: | :---: | :---: |
|  | ... a motel, inn, or resort | $\rightarrow$ BOX 13 [18] |
| 03 | ..... a retirement home, | $\rightarrow$ BOX 13 [18] |
| 04 | ... a shelter, orphanage, or children's home, | $\rightarrow$ BOX 13 [18] |
| 05 | .. a convent or monastery, | $\rightarrow$ BOX 13 [18] |
| 06 | .... a dormitory, fraternity, or sorority, | $\rightarrow$ BOX 13 [18] |
| 07 | .... a nursing home, assisted living center, or other residential care building, | $\rightarrow$ BOX 13 [17] |
| 08 | ... a half-way house, | $\rightarrow$ BOX 13 [18] |
| 09 | .. a prison, | $\rightarrow$ BOX 13 [07] |
|  | ....... or some other type of lodging? | $\rightarrow \mathrm{B}-25$ |

DK $\rightarrow$ B-33

## B-16. ORDRSP7

For the purposes of this survey, I will include your building in the general category of public order and safety.

More specifically, what type of public order and safety building is this? Is it...
[** PROBE **]


DK $\rightarrow$ B-33

B-17. RESDSP7
For the purposes of this survey, I will include your building in the general category of residential.
More specifically, what type of residential building is this? Is it...
[** PROBE **]


DK $\rightarrow$ BOX 10

## B-18. WARECHK7

Is this building used primarily as a warehouse or distribution center?
[** PROBE **]
1 $\qquad$ YES $\rightarrow \mathrm{B}-19$
2 $\qquad$ $\mathrm{NO} \rightarrow \mathrm{B}-20$

DK $\rightarrow$ B-20

## SECTION B

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## B-19. WARESP7

For the purposes of this survey, I will include your building in the general category of warehouse.
Is this a refrigerated or non-refrigerated warehouse?
[** PROBE **]
1 .............. REFRIGERATED WAREHOUSE $\quad \rightarrow$ BOX 13 [11]
2 NON-REFRIGERATED WAREHOUSE

DK $\rightarrow$ B-33

## B-20. INDRET7

Is any of the space in this building used for retail sales of the products that are made here?
[** PROBE **]
1 $\qquad$ YES $\rightarrow$ BOX 13 [91]
2 NO $\rightarrow$ BOX 10

DK $\rightarrow$ BOX 10

## B-21. AGRRET7

Is any of the space in this building used for retail sales of the products that are grown here?

## [** PROBE **]

1 .............. YES $\rightarrow$ BOX 13 [91]
2 NO $\rightarrow$ BOX 10

DK $\rightarrow$ BOX 10

## B-22. VACUSE7

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 }->\mathrm{ BOX 12
2
``` \(\qquad\)
``` \(\mathrm{NO} \rightarrow \mathrm{B}-23\)
```

DK $\rightarrow$ B-23

## B-23. ALLVAC7

Is this building completely vacant?
$\qquad$ $\mathrm{YES}] \rightarrow$ BOX 13 [01] 2 NO

B-24. OTHRSP7
For the purposes of this survey, I will include your building in the general category of other types of buildings.

More specifically, what type of other building is this? Is it...
[** PROBE **]
01 ............ an airplane hangar, $\rightarrow$ BOX 13 [91]
02 ............ a crematorium,
$\rightarrow$ BOX 13 [91]
03 ............ a funeral home,
$\rightarrow$ BOX 13 [13]
04 ............ a laboratory,
$\rightarrow$ BOX 13 [04]
05 ............ an indoor parking garage,
$\rightarrow$ BOX 11
06 ............ a transportation terminal,
$\rightarrow$ BOX 13 [13]
07 ............ a veterinarian's office, $\rightarrow$ BOX 13 [08]
08 ............ a broadcasting studio,
$\rightarrow$ BOX 13 [13]
09 ............ a gymnasium, health club, bowling alley, or other recreational sports facility, $\quad \rightarrow$ BOX 13 [13]
10 ............ a theater, cinema, sports arena, casino, or night club, $\quad \rightarrow$ BOX 13 [13]
11 ............ an agricultural building with some retail space, $\rightarrow$ BOX 13 [91]
12 ............ a manufacturing or industrial building with some retail space, $\rightarrow$ BOX 13 [91]
13 ............ or some other type of building?
$\rightarrow \mathrm{B}-25$
14 ............ FIFTY PERCENT COMMERCIAL $\rightarrow$ BOX 13 [91]
DK $\rightarrow$ B-33

## B-25. Open-Ended Question

Please describe this other type of activity.
OPEN ANSWER BOX: $\qquad$

IF PREVIOUS
QUESTION WAS: GO TO:

| B-8 (OFFCSP7) | $\rightarrow$ BOX 13 [02] |
| :--- | :--- |
| -10 (RETLSP7) | $\rightarrow$ BOX 13[25] |
| B-11 (EDUCSP7) | $\rightarrow$ BOX 13[14] |
| B-12 (ASSMSP7) | $\rightarrow$ BOX 13 [13] |
| B-13 (HLTHSP7) | $\rightarrow$ BOX 13 [08] |
| B-14 (SERVSP7) | $\rightarrow$ BOX 13 [26] |
| B-15 (LODGSP7) | $\rightarrow$ BOX 13 [18] |

## BOX 10

Since this survey is of commercial buildings only, this interview is complete.
Thank you very much for your time and help.
[CLICK ON FORMS, EXIT]

## SECTION B

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## BOX 11

Since this survey does not cover parking garages, this interview is complete. Thank you very much for your time and help.
[CLICK ON FORMS, EXIT]

## BOX 12

Since this survey does not include these types of buildings [agricultural, industrial, manufacturing, or parking garages] this interview is complete. Thank you very much for your time and help.
[CLICK ON FORMS, EXIT]

## BOX 13

## PBA7

Go to the numeric code that was given in brackets in the preceding question. This is the Principal Building Activity by CBECS definition. Then go to the next question as specified.

| 01 | ... Vacant | $\rightarrow$ B-33 |
| :---: | :---: | :---: |
| 02 | ... Office/Professional | $\rightarrow \mathrm{B}-33$ |
| 04 | Laboratory | $\rightarrow \mathrm{B}-33$ |
| 05 | Warehouse (nonrefrig.) | $\rightarrow \mathrm{B}-33$ |
| 06 | Food sales | $\rightarrow \mathrm{B}-33$ |
| 07 | Public order and safety | $\rightarrow \mathrm{B}-33$ |
| 08. | Health care (outpatient) | $\rightarrow$ B-33 |
| 11 | Warehouse (refrig.) | $\rightarrow \mathrm{B}-33$ |
| 12 | Religious worship | $\rightarrow \mathrm{B}-26$ |
| 13 | Public assembly | $\rightarrow \mathrm{B}-27$ |
| 14. | Education | $\rightarrow \mathrm{B}-28$ |
| 15 | Food service | $\rightarrow \mathrm{B}-29$ |
| 16 | Health care (inpatient) | $\rightarrow \mathrm{B}-30$ |
| 17 | Skilled nursing | $\rightarrow$ B-31 |
| 18 | Lodging | $\rightarrow \mathrm{B}-32$ |
| 23 | Strip shopping mall | $\rightarrow \mathrm{B}-33$ |
| 24. | Enclosed mall | $\rightarrow$ B-33 |
| 25 | Retail (excl. mall) | $\rightarrow$ B-33 |
| 26 | Service | $\rightarrow$ B-33 |
| 91 | Other | $\rightarrow$ B-33 |

## B-26. RWSEAT7

What is the total seating capacity of the religious worship areas of the building?
[** PROBE **]
Enter a numeric value between 0 and 99999: $\qquad$ $\rightarrow$ B-33

## B-27. PBSEAT7

What is the fixed seating capacity of public assembly areas of the building?
[** PROBE **]
Enter a numeric value between 0 and 99999: $\qquad$ $\rightarrow$ B-33

## B-28. EDSEAT7

How many students can be seated in all of the classrooms in the building at one time?
[** PROBE **]
Enter a numeric value between 0 and 99999: $\qquad$ $\rightarrow$ B-33

## B-29. FDSEAT7

What is the total seating capacity of the food service areas of the building?
[** PROBE **]
Enter a numeric value between 0 and 99999: $\qquad$ $\rightarrow$ B-33

## B-30. HCBED7

What is the inpatient licensed bed capacity of the building?
[** PROBE **]
Enter a numeric value between 0 and 99999: $\qquad$ $\rightarrow$ B-33

## B-31. NRSBED7

What is the skilled or residential care licensed bed capacity of the building?
[** PROBE **]
Enter a numeric value between 0 and 99999: $\qquad$ $\rightarrow$ B-33

B-32. LODGRM7
How many guest rooms or occupant rooms are there in the building?
[** PROBE **]
Enter a numeric value between 0 and 99999: $\qquad$ $\rightarrow$ B-33

## SECTION B

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## B-33. FACIL7

Is the building part of a multibuilding campus or complex?
[IF ASKED: A campus or complex is a group of two or more buildings on the same site that is owned or operated by a single organization or individual. It may also be referred to as a multibuilding facility.]
1 $\qquad$ YES $\rightarrow$ B-34
2 NO $\rightarrow$ SECTION C

DK $\rightarrow$ SECTION C

## B-34. FEDFAC7

Is this campus or complex owned by the Federal government?
1
.............. YES
2 $\qquad$ NO

## B-35. FACACT7

What is the primary business or function of this group of buildings as a whole? Is it ...

| 01 | A college, university, or junior college, |
| :---: | :---: |
| 02 | A primary or secondary school [GRADES K-12], |
| 03 | Some other type of school, |
| 04 | An office complex, |
| 05 | A retail complex, |
| 06 | A religious campus or complex, |
| 07 | A hospital or other health care complex, |
| 08 | A post office, |
| 09 | Some other type of government complex, |
| 10 | An industrial complex, |
| 11 | A transportation complex such as a terminal, depot, or airport, |
|  | Or some other type of campus or complex? |

Anything other than "An industrial complex" $\rightarrow B-38$
"An industrial complex" $\quad \rightarrow$ B-36
DK $\rightarrow$ B-38

## B-36. MANIND7

Is it manufacturing industrial?

```
1
``` \(\qquad\)
``` YES \(\rightarrow \mathrm{B}-37\)
2 .............. NO \(\rightarrow\) B-38
```

DK $\rightarrow$ B-38

## B-37. MANFAC7

Does this building have the same owner and operator as the manufacturing campus or complex?

```
1
```

$\qquad$

```
        YES }->\mathrm{ BOX 14
2 ............. NO > B-38
```


## BOX 14

Since this survey does not include buildings on manufacturing facilities, this interview is complete. Thank you very much for your time and help.
[CLICK ON FORMS, EXIT]

## B-38. PLANT7

Does this campus or complex have a central physical plant that produces district hot water, district steam, district chilled water, or electricity?

1 $\qquad$ YES $\rightarrow$ B-39
2 $\qquad$ NO $\rightarrow$ SECTIONC

DK $\rightarrow$ SECTION C

## B-39. FACDST7

Does the central physical plant produce...
District steam?
1 $\qquad$ YES
2 $\qquad$ NO

## B-40. FACDHW7

[Does the central physical plant produce...]
District hot water?
1 $\qquad$ YES
2 $\qquad$ NO

## B-41. FACDCW7

[Does the central physical plant produce...]
District chilled water?

1 $\qquad$ YES

2 $\qquad$ NO

B-42. FACELC7
[Does the central physical plant produce...]
Electricity?
1 $\qquad$ YES
2 NO

## SECTION B

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## B-43. BLDPLT7

Is the central physical plant for this campus or complex located in the building [READ FROM ABOVE]?
1 .............. YES
$2 \ldots \ldots \ldots . . . . . . . . . . . . ~$

## SECTION C. OCCUPANCY AND OPERATING HOURS

## C-1. GOVOWN7

For the rest of this survey, I will be asking you only about the building [READ FROM ABOVE], not the entire campus or complex.

Is this building owned by a government agency?

1 $\qquad$ $\mathrm{YES} \rightarrow \mathrm{C}-2$
2 $\qquad$ $\mathrm{NO} \rightarrow$ BOX 15

DK $\rightarrow$ BOX 15

## C-2. GOVTYP7

Is it owned by...
1 $\qquad$ the Federal government,

2 $\qquad$ a State government,
3 .............. or a local government?

## BOX 15

Is the building completely vacant?

$$
\begin{aligned}
& \text { Yes } \rightarrow \text { SECTION D } \\
& \text { No } \rightarrow \mathrm{C}-3
\end{aligned}
$$

## C-3. NOCC7

How many businesses or organizations are there in the building [READ FROM ABOVE]? This number is found in Box 4 [on Worksheet 1].

Enter a numeric value between 0 and 9999: $\qquad$

```
Zero }->\textrm{C}-
1-9999 -> BOX 16
DK }\quad->\mathrm{ C-6
```


## C-4. Verification Question

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?
1 $\qquad$ YES $\rightarrow$ C-5
2 $\qquad$ $\mathrm{NO} \rightarrow$ SECTION D

## SECTION C

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## C-5. NOCC7

How many businesses or organizations are there?
Enter a numeric value between 1 and 9999: $\qquad$

```
1-9999 -> BOX 16
DK }->\mathrm{ C-6
```



## C-7. OCC107

Would you say that there are less than 10, about 10, or more than 10 businesses or organizations?

```
1 ....... LESS
    C-8
2 ....... ABOUT THAT MANY }->\mathrm{ BOX 16 [04]
3 ....... MORE }->\mathrm{ BOX 16 [05]
```


## C-8. OCC57

Would you say that there are less than 5 , about 5 , or more than 5 businesses or organizations?
$\begin{array}{lll}1 & \ldots . . . . . \text { LESS } & \rightarrow \text { BOX } 16[03] \\ 2 & \ldots \ldots . . \text { ABOUT THAT MANY } & \rightarrow \text { BOX } 16[03] \\ 3 & \ldots & \text { MORE }\end{array}$

## C-9. OCC507

Would you say that there are less than 50 , about 50 , or more than 50 businesses or organizations?

```
1 ....... LESS
    -> BOX 16 [06]
2 ....... ABOUT THAT MANY }->\mathrm{ BOX 16 [06]
3 ....... MORE }\quad->\mathrm{ C-10
```


## C-10. OCC1007

Would you say that there are less than 100, about 100, or more than 100 businesses or organizations?

| $1 \ldots . . . .$. LESS | $\rightarrow$ BOX $16[07]$ |  |
| :--- | :--- | :--- |
| $2 \ldots \ldots .$. ABOUT THAT MANY | $\rightarrow$ BOX $16[07]$ |  |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ | BOX $16[08]$ |

DK TO ANY ONE OF THESE UNFOLDING QUESTIONS $\boldsymbol{\rightarrow} \mathbf{C - 1 1}$

## BOX 16

## NOCCAT7

Auto-code number of occupants category. If the previous question was part of the "unfolding" category, the numeric code that was given in brackets is the auto-coded number of occupants category.

|  | Zero |  |
| :---: | :---: | :---: |
| 02 | One |  |
| 03 | 2 to 5 |  |
| 04 | 6 to 10 | $\rightarrow \mathrm{C}-11$ |
| 05 | 11 to 20 |  |
| 06 | 21 to 50 |  |
| 07 | 51 to 100 |  |
| 08 | More than 100 |  |

## C-11. OWNOCC7

Does \{this business or organization / one of these businesses or organizations\} own the building?

```
1 ............. YES }->\mathrm{ C-13
2 ............. NO -> C-12
```

DK $\rightarrow$ C-13

## C-12. OWNREP7

Does the owner of this building employ anyone who works on-site in the building?
[IF ASKED: This might include: a building engineer, building manager, property management company or an energy service company that maintains office space in the building.]
1YES
2 $\qquad$ NO

## C-13. MONUSE7

Thinking of calendar year 1999, for how many months was this building in use?
Enter a numeric value between 0 and 12: $\qquad$
$0 \rightarrow$ SECTION D
1-3 $\rightarrow$ C-15
$4-12 \rightarrow \mathrm{C}-14$
DK $\rightarrow \mathrm{C}-15$

## C-14. PORVAC7

Was any space in the building vacant or unoccupied for at least 3 consecutive months during 1999 ?
1 $\qquad$ YES
2 $\qquad$ NO

## C-15. OPEN247

Now I have some questions about the hours that this building is normally open.
"Normally open" means the hours when the usual building activities occur. Do not consider the building to be open if only maintenance, housekeeping, or security personnel are present.

Is this building normally open 24 hours a day, seven days a week?
1 $\qquad$ YES $\rightarrow$ BOX 18 [7]

2 $\qquad$ $\mathrm{NO} \rightarrow \mathrm{C}-16$

DK $\rightarrow$ C-16

## SECTION C

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## C-16. OPNMF7

Thinking of Monday through Friday, is this building...
1
Open all five days,
2
$\qquad$ Open some of these days,
$\qquad$ Or is it not open at all Monday through Friday?

## C-17. OPNWE7

Is this building normally open at all on the weekend?
[IF ONLY OPEN ONE DAY OF THE WEEKEND, SELECT "YES."]
1 $\qquad$ YES
2 NO

BOX 17
Is the building not open at all Monday through Friday or on the weekend?
$\begin{array}{lll}\text { Yes } & \rightarrow \mathrm{C}-18 \\ \text { No } & \rightarrow & \mathrm{C}-19\end{array}$

## C-18. Verification Question

I would just like to confirm that this building does not have any normal operating hours?
1 $\qquad$ TRUE, NO OPERATING HOURS $\rightarrow$ BOX 18 [1]
2 FALSE, THERE ARE OPERATING HOURS $\rightarrow \mathrm{C}-19$

DK $\rightarrow \mathrm{C}-19$

## C-19. WKHRS7

How many total hours per week is the building normally open? This number is found in Box 5 [on Worksheet 1].
[IF ASKED: "Normally open" means the hours when the usual building activities occur.]
Enter a numeric value between 0 and 168: $\qquad$
0-168 $\rightarrow$ BOX 18
DK $\rightarrow$ C-20

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## C-20. HRS607 "UNFOLDING OPERATING HOURS CATEGORY"

The number of hours that a building is open is very important in helping us understand energy use in buildings. Would you estimate that this building is open less than 60 hours per week, about 60, or more than 60 hours per week?

| $1 \ldots \ldots . . . . .$. LESS | $\rightarrow \mathrm{C}-21$ |
| :--- | :--- |
| $2 \ldots \ldots \ldots .$. ABOUT THAT MANY | $\rightarrow$ BOX $18[4]$ |
| $3 \ldots \ldots . . . .$. MORE | $\rightarrow \mathrm{C}-23$ |

## C-21. HRS487

Is this building open less than 48 , about 48 , or more than 48 hours per week?

| $1 \ldots$...... LESS | $\rightarrow$ C-22 |
| :--- | :--- |
| $2 \ldots \ldots$ ABOUT THAT LONG | $\rightarrow$ BOX 18 [3] |
| $3 \ldots \ldots$ MORE | $\rightarrow$ BOX 18 [4] |

## C-22. HRS407

Is this building open less than 40, about 40, or more than 40 hours per week?

```
1 ....... LESS
-> BOX 18 [2]
2 ...... ABOUT THAT LONG }->\mathrm{ BOX 18 [3]
3 ....... MORE }->\mathrm{ BOX 18[3]
```


## C-23. HRS847

Is this building open less than 84 , about 84 , or more than 84 hours per week?

```
1 ...... LESS }->\mathrm{ BOX 18 [5]
2 ...... ABOUT THAT LONG }->\mathrm{ BOX 18 [5]
3 ...... MORE }->\mathrm{ C-24
```


## C-24. HRS1677

Is this building open continuously?
1 .......
YES $\rightarrow$ BOX 18 [7]
$\mathrm{NO} \rightarrow$ BOX 18 [6]

DK TO ANY ONE OF THESE UNFOLDING QUESTIONS $\rightarrow \mathbf{C - 2 5}$

## BOX 18

WKHRSC7
Auto-code number of operating hours category. If the previous question was part of the "unfolding" category, the numeric code that was given in brackets is the auto-coded number of operating hours category.
$\left.\begin{array}{l}1 \ldots \ldots \ldots \ldots . . \text { Zero } \\ 2 \ldots \ldots \ldots \ldots .1 \text { to } 39 \\ 3 \ldots \ldots \ldots \ldots .40 \text { to } 48 \\ 4 \ldots \ldots \ldots . .49 \text { to } 60 \\ 5 \ldots \ldots \ldots .61 \text { to } 84 \\ 6 \ldots \ldots \ldots \ldots .85 \text { to } 167 \\ 7 \ldots \ldots \ldots . . \text { Always open }\end{array}\right) \rightarrow$ C-25

## C-25. NWKER7

How many employees work in the building during its main shift, that is, when most employees are in the building. This number is found in Box 6 [on Worksheet 1].

Enter a numeric value between 0 and 99999: $\qquad$

```
0-99999 }->\mathrm{ SECTION D
DK }\quad->\mathrm{ C-26
```


## SECTION C

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## C-26. EMP1007

## "UNFOLDING NUMBER OF EMPLOYEES CATEGORY"

Would you estimate that there are less than 100 employees, about 100 , or more than 100 employees?

```
1 ...... LESS }\quad->\mathrm{ C-27
2 ...... ABOUT THAT MANY }->\mathrm{ BOX 19 [07]
3 ..... MORE }->\mathrm{ C-32
```


## C-27. EMP507

Would you say that there are less than 50 , about 50 , or more than 50 employees?

|  | ESS | $\rightarrow \mathrm{C}-28$ |
| :---: | :---: | :---: |
| 2 | ABOUT THAT MANY | $\rightarrow$ BOX 19 [06] |
| 3 | MORE | $\rightarrow$ BOX 19 [06] |

## C-28. EMP207

Would you say that there are less than 20, about 20, or more than 20 employees?

| $1 . . . . . .$. LESS | $\rightarrow$ C-29 |
| :--- | :--- |
| $2 \ldots \ldots .$. ABOUT THAT MANY | $\rightarrow$ BOX $19[05]$ |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ BOX 19 [05] |

## C-29. EMP107

Would you say that there are less than 10, about 10, or more than 10 employees?

| 1 ....... LESS | $\rightarrow$ C-30 |
| :--- | :--- |
| $2 \ldots \ldots .$. ABOUT THAT MANY | $\rightarrow$ BOX $19[04]$ |
| $3 \ldots . . . .$. MORE | $\rightarrow$ BOX $19[04]$ |

## C-30. EMP57

Would you say that there are less than 5 , about 5 , or more than 5 employees?

```
1 ....... LESS }\quad->\mathrm{ C-31
2 ....... ABOUT THAT MANY }->\mathrm{ BOX 19 [03]
3 ....... MORE }\quad->\mathrm{ BOX 19 [03]
```


## C-31. EMP17

Are there any employees that work in this building?
1 …....YES $\rightarrow$ BOX 19 [02]
$\qquad$ NO $\rightarrow$ BOX 19 [01]

## C-32. EMP2507

Would you say that there are less than 250, about 250, or more than 250 employees?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX $19[07]$ |
| :--- | :--- |
| $2 \ldots . .$. ABOUT THAT MANY | $\rightarrow$ BOX $19[08]$ |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ C-33 |

## C-33. EMP5007

Would you say that there are less than 500 , about 500 , or more than 500 employees?

| $1 \ldots \ldots .$. LESS | $\rightarrow$ BOX $19[08]$ |
| :--- | :--- |
| $2 \ldots \ldots .$. ABOUT THAT MANY | $\rightarrow$ BOX $19[09]$ |
| $3 \ldots . .$. MORE | $\rightarrow$ C-34 |

## C-34. EMP10007

Would you say that there are less than 1,000, about 1,000, or more than 1,000 employees?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX $19[09]$ |
| :--- | :--- |
| $2 \ldots \ldots$. ABOUT THAT MANY | $\rightarrow$ BOX $19[10]$ |
| $3 \ldots \ldots$. MORE | $\rightarrow$ C-35 |

## C-35. EMP25007

Would you say that there are less than 2,500, about 2,500, or more than 2,500 employees?

```
1 ....... LESS
    -> BOX 19 [10]
2 ....... ABOUT THAT MANY
3 ....... MORE
-> BOX 19 [11]
```


## C-36. EMP50007

Would you say that there are less than 5,000, about 5,000, or more than 5,000 employees?

| $1 \ldots \ldots .$. LESS | $\rightarrow$ BOX 19 [11] |
| :--- | :--- |
| $2 \ldots \ldots .$. ABOUT THAT MANY | $\rightarrow$ BOX 19[12] |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ BOX $19[12]$ |

DK TO ANY ONE OF THESE UNFOLDING QUESTIONS $\rightarrow$ SECTION D

## BOX 19

## NWKERC7

Go to the numeric code given in brackets in the previous question. This is the auto-coded number of workers category.

| 01............ N | None |  |
| :---: | :---: | :---: |
| 02............ 1 | 1 to 4 |  |
| 03 ........... 5 | 5 to 9 |  |
| 04 ........... 10 | 10 to 19 |  |
| 05 ........... 20 | 20 to 49 |  |
| 06............ 50 | 50 to 99 | $\rightarrow$ SECTION D |
| 07............ 100 | 100 to 249 |  |
| 08............ 250 | 250 to 499 |  |
| 09............ 5 | 500 to 999 |  |
| 10........... 1 | 1,000 to 2,499 |  |
| $11 . . . . . . . . . . .2,50$ | 2,500 to 4,999 |  |
| 12............ 5 | 5,000 or More |  |

## SECTION D

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## SECTION D. ENERGY SOURCES, END USES, AND EQUIPMENT

## D-1. End Uses

The next questions are about the uses of energy and equipment in this building. Please refer to Worksheet 2, that's the blue one, for the next questions.

While you are looking at Box 7 [on Worksheet 2], I'm going to quickly read you a list of ways that energy may be used. For each one, please tell me if there was any energy used for this purpose in this building during calendar year 1999. Did this building use any energy for...
[CHECK ALL THAT APPLY.]
[** PROBE **]
HT17....... Heating the building?
COOL7 $\ldots .$. Air conditioning
WATR7 $\ldots$. Domestic hot water heating?
COOK7 $\ldots$. Commercial or institutional cooking or food serving?
MANU7 $\ldots$. Manufacturing?
$\ldots \ldots . . . . . . . .$. [IF VOLUNTEERED] NONE OF THESE USES, BUT SOME ENERGY USED
$\ldots . . . . . . . . .$. [IF VOLUNTEERED] NO ENERGY USED IN $1999 ~$
$\rightarrow$ D-2
DK $\rightarrow$ D-4

## D-2. ANYENGY7

I just need to double check, is it correct that no energy was used in this building in $1999 ?$
1 ..............TRUE, NO ENERGY USED $\rightarrow$ E-38
$2 \ldots . . . . . . . . .$. FALSE, SOME ENERGY WAS USED IN $1999 \rightarrow$ D-3

## D-3. Verification Question

If there was any energy used in this building, then it must have been used for some purpose. I need to re-read the question about how energy was used.
[ENTER "1" TO CONTINUE.] $\quad \rightarrow$ Go back to D-1

## D-4. Energy Sources

While you are looking at Box 8 [on Worksheet 2], I'm going to quickly read you a list of energy sources. For each one, please tell me if it was used in this building for any purpose in 1999...
[INCLUDE FUEL OIL, DIESEL, OR KEROSENE IF IT WAS PURCHASED OR DELIVERED TO THE BUILDING IN 1999. IT IS NOT NECESSARY FOR IT TO HAVE BEEN USED.]
[DO NOT INCLUDE ANY FUELS USED IN VEHICLES OUTSIDE THE BUILDING.]
[CHECK ALL THAT APPLY.]

| ELUSED7 | Electricity? |
| :---: | :---: |
| NGUSED7 | Natural gas? |
| FKUSED7 | Fuel oil, diesel, or kerosene? $\rightarrow$ D-5 |
| PRUSED7 | Bottled gas, also known as LPG or propane? |
| STUSED7 | District steam piped in from a separate building or utility? |
| HWUSED7 | District hot water piped in from a separate building or utility? |
| CWUSED7 | District chilled water piped in from a separate building or utility? |
|  | Wood, coal, or solar thermal panels? $\rightarrow$ D-6 |
| OTUSED7 | Some other source or sources? $\rightarrow$ D-7 |

Neither "Fuel oil, diesel, or kerosene" nor "Wood, coal, or solar thermal panels" nor "Some other source or sources" selected $\rightarrow \mathrm{D}$-10

DK $\rightarrow \mathrm{D}-10$

## D-5. Specify Fuel Oil, Diesel, or Kerosene

[ASK IF NOT VOLUNTEERED] You mentioned fuel oil, diesel, or kerosene. Which of these were used [in this building in 1999]?
[CHECK ALL THAT APPLY.]
FKTYPFO7 ........... FUEL OIL
FKTYPDS7 DIESEL
FKTYPKR7 ........... KEROSENE
"Wood, coal, or solar thermal panels" selected in D-4 $\boldsymbol{\rightarrow}$ D-6
"Some other source or sources" selected in D-4 $\rightarrow$ D-7
Neither of these selected in D-4 $\quad \rightarrow$ D-10

## D-6. Specify Wood, Coal, or Solar

[ASK IF NOT VOLUNTEERED] You mentioned wood, coal, or solar thermal panels. Which of these were used [in this building in 1999]?
[CHECK ALL THAT APPLY.]
WOUSED7 WOOD
coused7
COAL
SOUSED7 ............ SOLAR THERMAL PANELS
"Some other source or sources" selected in D-4 $\rightarrow$ D-7
"Some other source or sources" not selected in D-4 $\rightarrow$ D-10

## SECTION D

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## D-7. OTUSDX17

What was the first other energy source used [in this building in 1999]?
[ENTER THE FIRST ENERGY SOURCE USED.]:

## D-8. OTUSDX27

Were there any other energy sources used [in this building in 1999]?
[ENTER THE NEXT ENERGY SOURCE. IF NO OTHERS, PRESS ENTER.]:
$\qquad$
No other sources given $\rightarrow$ D-10

## D-9. OTUSDX37

Were there any other energy sources used [in this building in 1999]?
[IF THERE IS ANOTHER ENERGY SOURCE, ENTER HERE. IF NOT, PRESS ENTER.]:

## D-10. ABLEGEN7

Does this building have the capability to generate electricity, including for emergency backup?

```
1 ............. YES -> D-11
2 .............NO }->\mathrm{ BOX 20
DK }->\mathrm{ BOX 20
```


## D-11. GENR7

Was any energy actually used for generating electricity in this building during calendar year 1999?


2 NO

| BOX 20 |
| :--- | :--- |
| Is the building heated and at least one energy source known? |
| Yes $\quad \rightarrow$ D-12 |
| No $\quad \rightarrow$ BOX 27 |

## D-12. Main Energy Source for Heating

What was the main energy source for heating? [Was it \{list of sources used in the building\}?]
[IF ASKED: The main energy source for heating is the energy source used to heat most of the square footage in this building most of the time.]
[IF ASKED: Do not include electricity if it is used only to run fan motors.]
[ONLY SOURCES ALREADY SELECTED ARE SHOWN HERE.]

| ELHT17 | ELECTRICITY |  |
| :---: | :---: | :---: |
| NGHT17 | NATURAL GAS |  |
| FKHT17. | FUEL OIL/DIESEL/KEROSENE |  |
| PRHT17 | BOTTLED GAS/LPG/PROPANE |  |
| STHT17. | DISTRICT STEAM |  |
| HWHT17 | DISTRICT HOT WATER | $\rightarrow$ BOX 21 |
| WOHT17 | WOOD |  |
| COHT17 | COAL |  |
| SOHT17 | SOLAR |  |
| OTHT17 | \{FIRST SOURCE SPECIFIED\} |  |
| OTHT17 | \{SECOND SOURCE SPECIFIED\} |  |
| OTHT17 | \{THIRD SOURCE SPECIFIED\} |  |
|  | SOME OTHER ENERGY SOURCE | $\rightarrow$ D-13 |

## D-13. Main Energy Source for Heating (Add a Source That Was Not Already Given)

What was the other energy source used for main space heating?
ELHT17................ ELECTRICITY
NGHT17........... NATURAL GAS
FKHT17............ FUEL OILIDIESEL/KEROSENE
PRHT17.............$~ B O T T E D ~ G A S ~$
STHT17........... DISTRICT STEAM
HWHT17 ............ DISTRICT HOT WATER
WOHT17............ WOOD
COHT17........... COAL
SOHT17 ............. SOLAR
OTHT17 ........... SOME OTHER ENERGY SOURCE

BOX 21
Was there more than one energy source used in the building?
Yes $\quad \rightarrow \mathrm{D}-14$
No $\rightarrow \mathrm{D}-15$

## SECTION D

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D-14. Secondary Energy Source for Heating

HT27

Which other energy sources, if any, were used for heating? [... \{list of sources used in building\}?]
[ONLY SOURCES ALREADY SELECTED ARE SHOWN HERE. CHECK ALL THAT APPLY.]
[IF ASKED: Do not include electricity if it is used only to run fan motors.]

## D-15. Secondary Energy Source for Heating

## HT27

Were there any other energy sources used for heating?

| $1 \ldots$. | YES $\rightarrow$ | $D-16$ |
| :--- | :--- | :--- |
| $2 \ldots$. | NO $\rightarrow D-17$ |  |

ELHT27
ELECTRICITY
NGHT27
NATURAL GAS
FKHT27 ............. FUEL OIL/DIESEL/KEROSENE
PRHT27 ............. BOTTLED GAS/LPG/PROPANE
STHT27 ............. DISTRICT STEAM
HWHT27 ............ DISTRICT HOT WATER
WOHT27 ........... WOOD
COHT27
COAL
SOHT27
SOLAR
OTHT27
\{FIRST SOURCE SPECIFIED\}
OTHT27 \{SECOND SOURCE SPECIFIED\}
OTHT27
\{THIRD SOURCE SPECIFIED\}
SOME OTHER ENERGY SOURCE $\rightarrow$ D-16
NO OTHER SOURCES FOR HEATING $\rightarrow$ D-17
Any source(s) other than "SOME OTHER ENERGY SOURCE"
$\rightarrow$ D-17

## D-16. Secondary Energy Source for Heating (Add a Source That Was Not Already Given)

What was the other energy source used for secondary space heating?

| ELHT27 | ELECTRICITY |
| :---: | :---: |
| NGHT27 | NATURAL GAS |
| FKHT27 | FUEL OIL/DIESEL/KEROSENE |
| PRHT27 | BOTTLED GAS |
| STHT27 | DISTRICT STEAM |
| HWHT27 | DISTRICT HOT WATER |
| WOHT27 | WOOD |
| COHT27 | COAL |
| SOHT27 | SOLAR |
| OTHT27 | SOME OTHER ENERGY SOURCE |

## D-17. HEATP7

What percentage of the \{square footage\} square feet in this building was heated to at least 50 degrees Fahrenheit in 1999, including basements and enclosed garages if they were heated to at least 50 degrees?
[IF HEATED SQUARE FOOTAGE IS KNOWN BUT NOT THE PERCENT, RECORD SQUARE FOOTAGE IN COMMENTS.]
[** PROBE **]
Enter a numeric value between 0 and 100 : $\qquad$

```
Zero ->D-18
1-100 }->\mathrm{ D-19
DK }->\mathrm{ D-19
```

D-18. HTLS507
Was any of the building heated to less than 50 degrees Fahrenheit?

```
1 ............. YES }->\mathrm{ D-19
2 ............. NO -> BOX 27
```


## D-19. Heating Equipment Types

Please refer to Box 9 on Worksheet 2 and to Reference 3. Which types of heating equipment are used in this building? Please listen to the entire list before making your selections.
[RECORD IN COMMENTS ANY EXTRA INFORMATION ABOUT THE HEATING SYSTEM THAT IS VOLUNTEERED BY THE RESPONDENT.]
[READ LIST AND CHECK ALL THAT APPLY. THERE MUST BE AT LEAST ONE TYPE OF HEATING EQUIPMENT.]


## BOX 22

Is there more than one type of heating equipment?
Yes $\rightarrow$ D-20
No $\quad \rightarrow$ Auto-code MAINHT7 as type given in D-19 $\rightarrow$ BOX 24

## SECTION D

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## D-20. Percent Heated by Each Heating Equipment

The next questions are about the percent of floorspace heated by the equipment you just mentioned. Please keep in mind:

One, we are talking only about the heated portion of the building and, two, more than one type of equipment can heat the same area, so these percents can add up to more than 100.

FOR EACH TYPE OF HEATING EQUIPMENT GIVEN IN D-19, GO TO CORRESPONDING QUESTION D-20a THROUGH D-20g

D-20a. PKGHP7
What percent of the heated area in this building is heated by the packaged heating?
[** PROBE **]
Enter a numeric value between 0 and 100: $\qquad$
D-20b. HTPHP7
What percent of the heated area in this building is heated by the heat pump?
[** PROBE **]
Enter a numeric value between 0 and 100 : $\qquad$
D-20c. FURNP7
What percent of the heated area in this building is heated by the furnace?
[** PROBE **]
Enter a numeric value between 0 and 100: $\qquad$

## D-20d. SLFCNP7

What percent of the heated area in this building is heated by the space heater?
[** PROBE **]
Enter a numeric value between 0 and 100 : $\qquad$
D-20e. STHWP7
What percent of the heated area in this building is heated by the district steam or hot water?
[** PROBE **]
Enter a numeric value between 0 and 100: $\qquad$

## D-20f. BOILP7

What percent of the heated area in this building is heated by the boiler?
[** PROBE **]
Enter a numeric value between 0 and 100:

## D-20g. OTHTP7

What percent of the heated area in this building is heated by the other heating equipment?
[** PROBE **]
Enter a numeric value between 0 and 100: $\qquad$

PERCENTS GIVEN $\rightarrow$ BOX 23
ALL PERCENTS DK $\rightarrow$ D-21

## BOX 23

Is there a single maximum percent?
Yes $\quad \rightarrow$ Auto-code MAINHT7 as the type with the maximum percent $\boldsymbol{\rightarrow}$ BOX 24
No $\quad \rightarrow$ D-21

## D-21. MAINHT7

Which do you consider to be your main heating equipment -- \{list of equipments with equal percentages\}?
[ONLY EQUIPMENTS WITH EQUAL PERCENTAGES ARE SHOWN HERE.]
01 ....... PACKAGED HEATING
02 ....... HEAT PUMP
03 ....... FURNACE
04 ....... SPACE HEATER
05 ....... DISTRICT STEAM OR HOT WATER
06 ....... BOILER
07 ....... OTHER HEATING EQUIPMENT

| BOX 24 |
| :--- | :--- |
| Was the building constructed since $1995 ?$ |
| Yes $\quad \rightarrow$ BOX 26 |
| No $\rightarrow$ BOX 25 |

## BOX 25

Is the main heating equipment known and not district steam or hot water?
Yes $\rightarrow \mathrm{D}-22$
No $\quad \rightarrow$ BOX 26

## D-22. NWHTEQ7

Has the \{main heating equipment\} been replaced since 1995 ?
1 $\qquad$ YES
2 $\qquad$ NO

## SECTION D

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## BOX 26

Is the building open 24 hours?
Yes $\rightarrow$ BOX 27
No $\rightarrow$ D-23

## D-23. RDHTNF7

Is there a change in the temperature setting for heating when the building is not in full use?
1 YES
2 NO

| BOX 27 |
| :--- | :--- |
| Is the building cooled and at least one energy source known? |
| Yes $\quad \rightarrow$ D-24 |
| No $\rightarrow$ BOX 35 |

## D-24. Energy Sources for Cooling

Which energy sources were used for air conditioning? [...\{list of sources used in building\}?]
[ONLY SOURCES ALREADY SELECTED ARE SHOWN HERE. CHECK ALL THAT APPLY.]

ELCOOL7
NGCOOL7
FKCOOL7 ............ FUEL OIL/DIESEL/KEROSENE
PRCOOL7 ............ BOTTLED GAS/LPG/PROPANE
STCOOL7 DISTRICT STEAM
HWCOOL7 ........... DISTRICT HOT WATER
CWCOOL7 ........... DISTRICT CHILLED WATER
OTCOOL7 ............ \{FIRST SOURCE SPECIFIED\}
OTCOOL7 ............ \{SECOND SOURCE SPECIFIED\}
OTCOOL7 \{THIRD SOURCE SPECIFIED\} SOME OTHER ENERGY SOURCE $\rightarrow$ D-25

Any source(s) other than "SOME OTHER ENERGY SOURCE" $\boldsymbol{\rightarrow}$ D-26

## D-25. Energy Source for Cooling (Add a Source That Was Not Already Given)

What was the other energy source used for air conditioning?

```
ELCOOL7
```

$\qquad$

```
        ELECTRICITY
NGCOOL7 ...........NATURAL GAS
FKCOOL7............ FUEL OIL/DIESEL/KEROSENE
PRCOOL7 ........... BOTTLED GAS
STCOOL7............ DISTRICT STEAM
HWCOOL7........... DISTRICT HOT WATER
CWCOOL7............ DISTRICT CHILLED WATER
OTCOOL7............ SOME OTHER ENERGY SOURCE
```


## D-26. COOLP7

What percentage of the \{square footage\} square feet in this building was cooled by air conditioning equipment in 1999 ?
[IF COOLED SQUARE FOOTAGE IS KNOWN BUT NOT THE PERCENT, RECORD SQUARE FOOTAGE IN COMMENTS.]
[** PROBE **]
Enter a numeric value between 0 and 100: $\qquad$

```
Zero -> BOX 33
1-100 }->\mathrm{ D-27
DK }->\mathrm{ D-27
```


## D-27. Cooling Equipment Types

Please refer to Box 10 on Worksheet 2 and to Reference 4. Which types of air conditioning equipment are used in this building? Please listen to the entire list before making your selections.

## [READ LIST AND CHECK ALL THAT APPLY. THERE MUST BE AT LEAST ONE TYPE OF COOLING

 EQUIPMENT.]
## [RECORD IN COMMENTS ANY EXTRA INFORMATION ABOUT THE COOLING SYSTEM THAT IS VOLUNTEERED BY THE RESPONDENT.]



DK $\rightarrow$ BOX 32

## BOX 28

Is there more than one type of cooling equipment?
Yes $\rightarrow \mathrm{D}-28$
No $\quad \rightarrow$ Auto-code MAINCL7 as type given in D-27 $\rightarrow$ BOX 30

## SECTION D

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## D-28. Percent Cooled by Each Cooling Equipment

The next questions are about the percent of floorspace cooled by the equipment you just mentioned. Please keep in mind:

One, we are talking only about the cooled portion of the building and, two, more than one type of equipment can cool the same area, so these percents can add up to more than 100.

FOR EACH TYPE OF COOLING EQUIPMENT GIVEN IN D-27, GO TO CORRESPONDING QUESTION D-28a THROUGH D-28h

## D-28a. PKGCP7

What percent of the cooled area in this building is cooled by the packaged cooling?
[** PROBE **]
Enter a numeric value between 0 and 100: $\qquad$
D-28b. HTPCP7
What percent of the cooled area in this building is cooled by the heat pump?
[** PROBE **]
Enter a numeric value between 0 and 100: $\qquad$
D-28c. RCACP7
What percent of the cooled area in this building is cooled by the central air conditioner?
[** PROBE **]
Enter a numeric value between 0 and 100: $\qquad$

## D-28d. ACWNWP7

What percent of the cooled area in this building is cooled by the room air conditioner?
[** PROBE **]
Enter a numeric value between 0 and 100 : $\qquad$
D-28e. CHWTP7
What percent of the cooled area in this building is cooled by the district chilled water?
[** PROBE **]
Enter a numeric value between 0 and 100: $\qquad$
D-28f. CHILP7
What percent of the cooled area in this building is cooled by the central chiller?
[** PROBE **]
Enter a numeric value between 0 and 100:

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## D-28g. EVAPP7

What percent of the cooled area in this building is cooled by the swamp cooler?
[** PROBE **]
Enter a numeric value between 0 and 100: $\qquad$

## D-28h. OTCLP7

What percent of the cooled area in this building is cooled by the other cooling equipment?
[** PROBE **]
Enter a numeric value between 0 and 100: $\qquad$
PERCENTS GIVEN $\rightarrow$ BOX 29
ALL PERCENTS DK $\rightarrow$ D-29

## BOX 29

Is there a single maximum percent?

```
Yes }\boldsymbol{->}\mathrm{ Auto-code MAINCL7 as the type with the maximum percent }\boldsymbol{->}\mathrm{ BOX 30
```

No $\rightarrow$ D-29

D-29. MAINCL7
Which do you consider to be your main cooling equipment -- \{list of equipments with equal percentages\}?
[ONLY EQUIPMENTS WITH EQUAL PERCENTAGES ARE SHOWN HERE.]
01 ....... PACKAGED COOLING
02 ....... HEAT PUMP
03 ....... CENTRAL AIR CONDITIONER
04 ....... ROOM AIR CONDITIONER
05 ....... DISTRICT CHILLED WATER
06 ....... CHILLERS
07 ....... SWAMP COOLERS
08 ....... OTHER COOLING EQUIPMENT

## BOX 30

Was the building constructed since 1995 ?

```
Yes }->\mathrm{ BOX 32
```

No $\quad \rightarrow$ BOX 31

## SECTION D

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## BOX 31

Is the main cooling equipment known and not district chilled water and not the same as the heating equipment (packaged or heat pump could be the same)?

Yes $\quad \rightarrow$ D-30
No $\quad \rightarrow$ BOX 32

## D-30. NWCLEQ7

Has the \{main cooling equipment\} been replaced since $1995 ?$
1 $\qquad$ YES
2 NO

## BOX 32

Is the building open 24 hours?
$\begin{array}{ll}\text { Yes } & \rightarrow \text { BOX } 33 \\ \text { No } & \rightarrow \text { D-31 }\end{array}$

## D-31. RDCLNF7

Is there a change in the temperature setting for cooling when the building is not in full use?

```
1
``` \(\qquad\)
``` YES
2
``` \(\qquad\)
``` NO
```


## BOX 33

Is there heating or cooling equipment other than just space heaters and/or window air conditioning units?

```
Yes }->\textrm{D}-3
No }\quad->\mathrm{ BOX 35
```

D-32. VAV7
Does this building have a variable air volume (VAV) system?
[This feature would have a check mark in Box 11 on Worksheet 2.]
1 $\qquad$ YES

2 $\qquad$ NO

## BOX 34

Is there cooling equipment other than just window units?

```
las ll
```

D-33. ECN7
Does this building have any equipment that uses outside air for cooling, often called an "economizer cycle"?
[This feature would have a check mark in Box 11 on Worksheet 2.]
1 $\qquad$ YES
2 $\qquad$ NO

## D-34. MAINT7

Is there any regularly scheduled maintenance and repair for the \{heating and cooling / heating / cooling\} system?
[This feature would have a check mark in Box 11 on Worksheet 2.]
1 $\qquad$ YES
2 $\qquad$ NO

## D-35. EMCS7

Does this building have an energy management and control system (EMCS)?
[This feature would have a check mark in Box 11 on Worksheet 2.]
1YES

2 $\qquad$ NO

## BOX 35

Is there water heating in the building and at least one energy source known?
$\begin{array}{lll}\text { Yes } & \rightarrow \text { D-36 } \\ \text { No } & \rightarrow \text { BOX } 36\end{array}$

## SECTION D

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## D-36. Energy Sources for Water Heating

Which energy sources were used for water heating? [...\{list of sources used in building\}?]
[ONLY SOURCES ALREADY SELECTED ARE SHOWN HERE. CHECK ALL THAT APPLY.]

| ELWATR7 | ELECTRICITY |
| :---: | :---: |
| NGWATR7 | NATURAL GAS |
| FKWATR7 | FUEL OIL/DIESEL/KEROSENE |
| PRWATR7 | BOTTLED GAS/LPG/PROPANE |
| STWATR7 | DISTRICT STEAM |
| HWWATR7 | DISTRICT HOT WATER |
| WOWATR7 | WOOD |
| COWATR7 | COAL |
| SOWATR7 | SOLAR |
| OTWATR7 | \{FIRST SOURCE SPECIFIED\} |
| OTWATR7 | \{SECOND SOURCE SPECIFIED\} |
| OTWATR7 | \{THIRD SOURCE SPECIFIED\} |
|  | SOME OTHER ENERGY SOURCE $\rightarrow$ D-37 |

Any source(s) other than "SOME OTHER ENERGY SOURCE" $\rightarrow$ D-38

## D-37. Energy Source for Water Heating (Add a Source That Was Not Already Given)

What was the other energy source used for water heating?

```
ELWATR7
    ELECTRICITY
NGWATR7 .......... NATURAL GAS
FKWATR7 ............ FUEL OIL/DIESEL/KEROSENE
PRWATR7 .......... BOTTLED GAS
STWATR7 ........... DISTRICT STEAM
HWWATR7 ......... DISTRICT HOT WATER
WOWATR7
    WOOD
COWATR7
    COAL
SOWATR7
    SOLAR
OTWATR7 ........... SOME OTHER ENERGY SOURCE
```


## D-38. WTHTEQ7

Does this building have...
1 ......... One or more centralized water heaters,
2 ......... One or more "point-of-use water heaters",
3 ......... Or both of these types [of water heaters]?

BOX 36
Is there cooking in the building and at least one energy source known?

| Yes | $\rightarrow$ | D-39 |
| :--- | :--- | :--- |
| No | $\rightarrow$ BOX 37 |  |

## D-39. Energy Sources for Cooking

Which energy sources were used for cooking? [...\{list of sources used in building\}?]
[ONLY SOURCES ALREADY SELECTED ARE SHOWN HERE. CHECK ALL THAT APPLY.]

| ELCOOK7 | ELECTRICITY |
| :---: | :---: |
| NGCOOK7 | NATURAL GAS |
| FKCOOK7 | FUEL OIL/DIESEL/KEROSENE |
| PRCOOK7 | BOTTLED GAS/LPG/PROPANE |
| STCOOK7 | DISTRICT STEAM |
| HWCOOK7 | DISTRICT HOT WATER |
| W0COOK7 | WOOD |
| COCOOK7 | COAL |
| SOCOOK7 | SOLAR |
| OTCOOK7 | \{FIRST SOURCE SPECIFIED\} |
| OTCOOK7 | \{SECOND SOURCE SPECIFIED\} |
| OTCOOK7 | \{THIRD SOURCE SPECIFIED\} |
|  | SOME OTHER ENERGY SOURC |

Any source(s) other than "SOME OTHER ENERGY SOURCE" $\boldsymbol{\rightarrow}$ BOX 37

## D-40. Energy Sources for Cooking (Add a Source That Was Not Already Given)

What was the other energy source used for cooking?

```
ELCOOK7
NGCOOK7
FKCOOK7
PRCOOK7
STCOOK7
HWCOOK7 ......... DISTRICT HOT WATER
wOCOOK7
COCOOK7
SOCOOK7 .......... SOLAR
OTCOOK7 .......... SOME OTHER ENERGY SOURCE
ELECTRICITY
NATURAL GAS
PRCOOOK7
FUEL OIL/DIESEL/KEROSENE
BOTTLED GAS
                                WOOD
                                COAL
```

BOX 37
Is there manufacturing in the building and at least one energy source known?

```
Yes }\quad->\mathrm{ D-41
```

No $\quad \rightarrow$ BOX 38

## SECTION D

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## D-41. Energy Sources for Manufacturing

Which energy sources were used for manufacturing? [... \{list of sources used in building\}?]
[ONLY SOURCES ALREADY SELECTED ARE SHOWN HERE. CHECK ALL THAT APPLY.]
ELMANU7 ............ ELECTRICITY
NGMANU7 ........... NATURAL GAS
FKMANU7 ............ FUEL OIL/DIESEL/KEROSENE
PRMANU7 ........... BOTTLED GAS/LPG/PROPANE
STMANU7 ............ DISTRICT STEAM
HWMANU7 .......... DISTRICT HOT WATER
WOMANU7 .......... WOOD
COMANU7 ........... COAL
SOMANU7 ........... SOLAR
OTMANU7 ........... \{FIRST SOURCE SPECIFIED\}
OTMANU7 ........... \{SECOND SOURCE SPECIFIED\}
OTMANU7
\{THIRD SOURCE SPECIFIED\}
SOME OTHER ENERGY SOURCE $\rightarrow$ D-42
Any source(s) other than "SOME OTHER ENERGY SOURCE" $\rightarrow$ BOX 38

## D-42. Energy Source for Manufacturing (Add a Source That Was Not Already Given)

What was the other energy source used for manufacturing?

ELMANU7 $\qquad$ ELECTRICITY
NGMANU7 NATURAL GAS
FKMANU7
PRMANU7
$\qquad$ FUEL OIL/DIESEL/KEROSENE

STMANU7
HWMANU7 WOMANU7 COMANU7 SOMANU7
OTMANU7 BOTTLED GAS DISTRICT STEAM DISTRICT HOT WATER WOOD COAL SOLAR SOME OTHER ENERGY SOURCE

## BOX 38

Was there energy used for electricity generation and were the energy sources known?

Electricity generation and sources known $\quad \rightarrow$ BOX 39
Electricity generation but sources not known $\quad \rightarrow$ D-47
No electricity generation and sources known $\quad \rightarrow$ D-48
No electricity generation and sources not known $\rightarrow$ SECTION E

## BOX 39

Was natural gas, fuel oil, bottled gas, wood, coal, solar, or an "other" energy source used?

| Yes | $\rightarrow \mathrm{D}-43$ |
| :--- | :--- |
| No | $\rightarrow \mathrm{D}-44$ |

D-43. Energy Sources for Electricity Generation
Which energy sources were used for electricity generation? [... \{list of sources used in building\}?]
[ONLY SOURCES ALREADY SELECTED ARE SHOWN HERE. CHECK ALL THAT APPLY.]

| $\begin{aligned} & \text { NGGENR7 } \\ & \text { FKGENR7 } \end{aligned}$ | NATURAL GAS FUEL OIL |
| :---: | :---: |
|  |  |
|  | DIESEL/KEROSENE |
| PRGENR7 | BOTTLED GAS/ |
|  | LPG/PROPANE |
| WOGENR7 | WOOD |
| COGENR7 | COAL |
| SOGENR7 | SOLAR |
| OTGENR7 | \{FIRST SOURCE |
|  | SPECIFIED\} |
| OTGENR7 | \{SECOND SOURCE |
|  | SPECIFIED\} |
| OTGENR7 | \{THIRD SOURCE |
|  | SPECIFIED \} |
|  | SOME OTHER ENERGY |
|  | SOURCE $\rightarrow$ D-45 |

Any source(s) other than "SOME OTHER ENERGY SOURCE" $\rightarrow$ D-47

D-45. Energy Source for Electricity Generation (Add a Source That Was Not Already Given)

What was the other energy source used for electricity generation?


## D-44. Energy Source for Electricity Generation

What energy source was used for electricity generation?

| NGGENR7 FKGENR7 | NATURAL GAS <br> FUEL OIL/ <br> DIESEL/ <br> KEROSENE | $\rightarrow$ D-47 |
| :---: | :---: | :---: |
| PRGENR7 | BOTTLED GAS |  |
| WOGENR7 | WOOD |  |
| COGENR7 | COAL |  |
| SOGENR7 | SOLAR |  |
|  | SOME OTHER EN | NERGY |
|  | SOURCE $\rightarrow$ D-46 |  |

## D-46. Energy Source for Electricity Generation (Add a Source That Was Not Already Given)

What was the other energy source used for electricity generation?
$\qquad$

D-47. GENUSE7
During 1999, was the electricity generated in this building used...
1 ......... Primarily for emergency back-up,
2 ......... Only during periods of high electricity demand,
3 ......... Or whenever electricity was used?

| BOX 40 |
| :--- | :--- |
| Was at least one energy source known? |
| Yes $\rightarrow$ D-48 |
| No $\rightarrow$ SECTION E |

## SECTION D

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## D-48. Verification Question

As a final check, were there any energy sources used in this building other than \{list of sources used in building\}?

```
1
``` \(\qquad\)
``` YES \(\rightarrow\) D-49
2
``` \(\qquad\)
``` NO \(\rightarrow\) BOX 41
```



## SECTION D

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D-49e. Use for District Steam

What was the district steam used for?


D-49g. Use for Wood
What was the wood used for?

| WOHT17 or WOHT27 $\qquad$ HEATING |  |
| :---: | :---: |
| WOWATR7 ....... WATER HEATING |  |
| WOCOOK7 ........ COOKING |  |
| WOMANU7 | . MANUFACTURING |
| WOGENR7 ......... ELECTRICITY |  |
|  | GENERATION |
| WOOTH7 | SOME OTHER USE |
|  | INCORRECTLY |
|  | RECORDED--SOURCE |
|  | NOT USED |

D-49i. Use for Solar Thermal Panels

What was the solar energy used for?

| SOHT17 or SOHT27 | HEATING |
| :---: | :---: |
| SOWATR7 | WATER HEATING |
| SOCOOK7 | COOKING |
| SOMANU7 | MANUFACTURING |
| SOGENR7. | ELECTRICITY |
|  | GENERATION |
| SOOTH7 | SOME OTHER USE |
|  | INCORRECTLY |
|  | RECORDED--SOURCE |
|  | NOT USED |

## D-49f. Use for District Hot Water

What was the district hot water used for?

```
HWHT17 or
HWHT27 ........... HEATING
HWCOOL7 ......... COOLING
HWWATR7 ........WATER HEATING
HWCOOK7 ........ COOKING
HWMANU7 ........ MANUFACTURING
HWOTH7 .......... SOME OTHER USE
INCORRECTLY
                                    RECORDED--SOURCE
NOT USED
```

D-49h. Use for Coal
What was the coal used for?

| COHT17 or COHT27 | HEATING |
| :---: | :---: |
| COWATR7 | WATER HEATING |
| COCOOK7 | COOKING |
| COMANU7 | MANUFACTURING |
| COGENR7 | ELECTRICITY |
|  | GENERATION |
| COOTH7 | SOME OTHER USE |
|  | INCORRECTLY |
|  | RECORDED--SOURCE |
|  | NOT USED |

D-49j. Use for Other Energy Source
What was the other source used for?

| OTHT17 or OTHT27 | HEATING |
| :---: | :---: |
| OTCOOL7 | COOLING |
| OTWATR7 | WATER HEATING |
| OTCOOK7 | COOKING |
| OTMANU7 | MANUFACTURING |
| OTGENR7 | ELECTRICITY |
|  | GENERATION |
| OTOTH7 | SOME OTHER USE |
|  | INCORRECTLY |
|  | RECORDED--SOURCE |
|  | NOT USED |

AFTER ANSWERING EACH APPLICABLE QUESTION (D-49a THROUGH D-49j) $\rightarrow$ BOX 41

## SECTION D

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BOX 41
Are there any energy sources (other than electricity or chilled water) that were not assigned an end use?

| Yes, natural gas | $\rightarrow \mathrm{D}-50 \mathrm{a}$ |
| :--- | :--- |
| Yes, fuel oil/diesel/kerosene | $\rightarrow \mathrm{D}-50 \mathrm{~b}$ |
| Yes, bottled gas/LPG/propane | $\rightarrow \mathrm{D}-50 \mathrm{c}$ |
| Yes, district steam | $\rightarrow \mathrm{D}-50 \mathrm{~d}$ |
| Yes, district hot water | $\rightarrow \mathrm{D}-50 \mathrm{e}$ |
| Yes, wood | $\rightarrow \mathrm{D}-50 \mathrm{f}$ |
| Yes, coal | $\rightarrow \mathrm{D}-50 \mathrm{~g}$ |
| Yes, solar | $\rightarrow \mathrm{D}-50 \mathrm{~h}$ |
| Yes, other | $\rightarrow \mathrm{D}-50 \mathrm{i}$ |
| No | $\rightarrow$ BOX 42 |

D-50. Add End Uses for Sources That Were Given Without an End Use
FOR EACH ENERGY SOURCE GIVEN IN BOX 41, GO TO CORRESPONDING QUESTION D-50a THROUGH D-50i

## D-50a. Use for Natural Gas

I have recorded that natural gas was used in this building but not how it was used. What was the natural gas used for?

| NGHT17 or NGHT27 | HEATING |
| :---: | :---: |
| NGCOOL7 | COOLING |
| NGWATR7 | WATER HEATING |
| NGCOOK7 | COOKING |
| NGMANU7 | MANUFACTURING |
| NGGENR7 | ELECTRICITY |
|  | GENERATION |
| NGOTH7 | SOME OTHER USE |
|  | INCORRECTLY |
|  | RECORDED--SOURCE |
|  | NOT USED |

D-50c. Use for Bottled Gas/LPG/Propane
I have recorded that bottled gas was used in this building but not how it was used. What was it used for?

| PRHT17 or |  |
| :---: | :---: |
| PRHT27.... | HEATING |
| PRCOOL7 | COOLING |
| PRWATR7 | WATER HEATING |
| PRCOOK7 | COOKING |
| PRMANU7 | MANUFACTURING |
| PRGENR7 | ELECTRICITY |
|  | GENERATION |
| PROTH7 | SOME OTHER USE |
|  | INCORRECTLY |
|  | RECORDED--SOU |
|  | NOT USED |

## D-50b. Use for Fuel Oil/Diesel/Kerosene

I have recorded that \{fuel oil/diesel/kerosene\} was used in this building but not how it was used. What was it used for?

| FKHT17 or EKHT27 | HEATING |
| :---: | :---: |
| FKCOOL7 | COOLING |
| FKWATR7 | WATER HEATING |
| FKCOOK7 | COOKING |
| FKMANU7 | MANUFACTURING |
| FKGENR7 | ELECTRICITY |
|  | GENERATION |
| FKOTH7 | SOME OTHER USE |
|  | INCORRECTLY |
|  | RECORDED--SOURCE |
|  | NOT USED |

## D-50d. Use for District Steam

I have recorded that district steam was used in this building but not how it was used. What was it used for?

| STHT17 or |  |
| :---: | :---: |
| STHT27. | HEATING |
| STCOOL7 | COOLING |
| STWATR7 | WATER HEATING |
| STCOOK7 | COOKING |
| STMANU7 | MANUFACTURING |
| STOTH7 | SOME OTHER USE |
|  | INCORRECTLY |
|  | RECORDED--SOURCE |
|  | NOT USED |

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## D-50e. Use for District Hot Water

I have recorded that district hot water was used in this building but not how it was used. What was it used for?

> HWHT17 or
> HWHT27
> HWCOOL7
> HWWATR7
> HWCOOK7
> HWMANU7
> HWOTH7
> ......... HEATING
> COOLING
> WATER HEATING
> COOKING
> MANUFACTURING
> SOME OTHER USE
> INCORRECTLY
> RECORDED--SOURCE NOT USED

D-50g. Use for Coal
I have recorded that coal was used in this building but not how it was used. What was the coal used for?

| COHT17 or |  |
| :---: | :---: |
| COWATR7 ........ WATER HEATING |  |
| COCOOK7 ......... COOKING |  |
| COMANU7 COGENR7 | MANUFACTURING |
|  | ELECTRICITY |
|  | GENERATION |
| COOTH7 | SOME OTHER USE |
|  | INCORRECTLY |
|  | RECORDED--SOURCE |
|  | NOT USED |

## D-50i. Use for Other Energy Source

I have recorded that another energy source was used in this building but how it was used. What was the other energy source used for?

| OTHT17 or OTHT27 | HEATING |
| :---: | :---: |
| OTC00L7. | COOLING |
| OTWATR7 | WATER HEATING |
| OTCOOK7 | COOKING |
| OTMANU7 | MANUFACTURING |
| OTGENR7 | ELECTRICITY |
|  | GENERATION |
| OTOTH7 | SOME OTHER USE |
|  | , |
|  | RECORDED |
|  | NOT USED |

## D-50f. Use for Wood

I have recorded that wood was used in this building but not how it was used. What was the wood used for?

| WOHT17 or WOHT27 | ING |
| :---: | :---: |
| WOWATR7 | WATER HEATING |
| WOCOOK7 | COOKING |
| WOMANU7 | MANUFACTURING |
| WOGENR7 | ELECTRICITY |
|  | GENERATION |
| WOOTH7 | SOME OTHER USE |
|  | INCORRECTLY |
|  | RECORDED--SOURCE |
|  | NOT USED |

D-50h. Use for Solar Thermal Panels
I have recorded that solar panels were used in this building but not how they were used. What were they used for?

| SOHT17 or |
| :--- |
| SOHT27 ............ HEATING |
| SOWATR7 |
| SOW..... WATER HEATING |
| SOCOOK77 |
| SOMANU...... COOKING |
| SOMANUFACTURING |
| SOGENR7 |

AFTER ANSWERING EACH APPLICABLE QUESTION (D-50a THROUGH D-50i) $\rightarrow$ BOX 42

|  | BOX 42 |
| :--- | :--- |
| Was electricity used? |  |
| Yes $\quad \rightarrow$ D-69 |  |
| No $\rightarrow$ BOX 43 |  |

## SECTION D

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## D-69. How Electricity Is Purchased

In some areas of the country, consumers may purchase their electricity from more than one supplier. Was the electricity in this building...
[IF ASKED: If electricity is bought from the city, that is considered to be the local utility.]
[READ LIST AND CHECK ALL THAT APPLY.]
ELLOCUT7 ......... Bought from the local utility?
ELNONLU7 .......... Contracted or bought from an independent power producer or non-local utility?
ELOTSRC7 .......... Bought from someone else, such as a broker?
More than one of these selected, including local utility $\rightarrow$ D-70
Only one selected or local utility not chosen $\quad \rightarrow$ BOX 43
DK $\rightarrow$ BOX 43

## D-70. ELLUPCT7

About what percent of the electricity used in this building would you estimate was obtained from the local utility?

Enter a numeric value between 1 and 100: $\qquad$

|  | BOX 43 |
| :--- | :--- |
| Was natural gas used? |  |
| Yes $\quad \rightarrow$ D-71 |  |
| No $\rightarrow$ BOX 44 |  |

## D-71. How Natural Gas Is Purchased

\{In some areas of the country, consumers may purchase their natural gas from more than one supplier. / Consumers may also be able to purchase their natural gas from more than one supplier.\} Was the natural gas in this building...
[READ LIST AND CHECK ALL THAT APPLY.]

NGLOCUT7
NGOTSRC7
$\qquad$ Bought from the local utility? Bought from someone else, such as a non-utility or a broker?

| BOX 44 |
| :--- | :--- |
| Was bottled gas, LPG, or propane used? |
| Yes $\quad \rightarrow$ D-72 |
| No $\rightarrow$ BOX 45 |

## D-72. PRAMTC7

You mentioned that bottled gas is used in this building. Measured in either gallons or pounds, which range best describes the amount of bottled gas used in 1999...


DK $\rightarrow$ BOX 45

D-73. PRAUNT7
[ASK IF NOT VOLUNTEERED] Is that in gallons or pounds?
1
$\qquad$ POUNDS

2

|  | BOX 45 |
| :--- | :--- |
| Was wood used? |  |
| Yes $\rightarrow$ D-74 |  |
| No $\rightarrow$ SECTION E |  |

## D-74. WOAMT7

Which range best describes how much wood has been burned in this building in 1999...
1
.............. Less than 1 cord,
2 .............. 1 to 9 cords,
3 ............. 10 to 20 cords,
4 .............. Or more than 20 cords?

D-75. WOSRC7
Did you...
1 $\qquad$ Purchase all the wood,
$\rightarrow$ D-76
2 .............. Obtain it all free of charge,
$\rightarrow$ SECTION E
$3 . . . . . . . . . . . .$. Or was some purchased and some free? $\rightarrow$ D-76
DK $\rightarrow$ SECTION E

## SECTION D

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## D-76. WOEXP7

Please give me an estimate of the total amount spent for the wood used in $1999 ?$
[DO NOT ENTER CENTS.]
[** VERIFY NUMBER DIGIT BY DIGIT **]
Enter a numeric value between 1 and 99999: $\qquad$ $\rightarrow$ SECTION E

DK $\rightarrow$ D-77

D-77. WO5007
"UNFOLDING WOOD EXPENDITURES CATEGORY"
Would you say that less than 500 dollars, about 500 dollars, or more than 500 dollars was spent on wood used in 1999?


## D-78. WO1007

Would you estimate that less than 100 dollars, about 100, or more than 100 dollars was spent on wood [used in 1999]?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX $46[1]$ |
| :--- | :--- |
| $2 \ldots \ldots .$. ABOUT THAT MANY | $\rightarrow$ BOX $46[1]$ |
| $3 \ldots \ldots$. MORE | $\rightarrow$ BOX $46[2]$ |

DK TO ANY ONE OF THESE UNFOLDING QUESTIONS $\rightarrow$ SECTION E

## D-79. WO10007

Would you say that less than 1,000 dollars, about 1,000 dollars, or more than 1,000 dollars was spent on wood [used in 1999]?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX $46[3]$ |
| :--- | :--- |
| $2 \ldots \ldots .$. ABOUT THAT MANY | $\rightarrow$ BOX $46[3]$ |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ D-80 |

## D-80. WO20007

Would you say that less than 2,000 dollars, about 2,000 dollars, or more than 2,000 dollars was spent on wood [used in 1999]?

| $1 \ldots \ldots .$. LESS | $\rightarrow$ BOX $46[4]$ |  |
| :--- | :--- | :--- |
| $2 \ldots \ldots .$. ABOUT THAT MANY | $\rightarrow$ BOX $46[4]$ |  |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ | BOX $46[5]$ |

## BOX 46

## WOEXPC7

Go to the numeric code given in brackets in the previous question. This is the auto-coded wood expenditures category.


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## SECTION E. MISCELLANEOUS EQUIPMENT

## BOX 47

Is there cooking in the building?

```
Yes }\quad->\textrm{E}-
```

No $\quad \rightarrow$ BOX 48

## E-1. FDRM7

Now I have some questions about different types of equipment that may be used in this building [READ FROM ABOVE]. Is any space used...
...for institutional or commercial food preparation and serving, such as kitchens, cafeterias, steam tables, or warming areas?
1 $\qquad$ YES
2 $\qquad$ NO

|  |  |
| :--- | :--- |
| Is there | water heatin |
| Yes | $\rightarrow$ E-2 |
| No | $\rightarrow$ BOX 49 |

## BOX 48

No $\rightarrow$ BOX 49

## E-2. HWTRM7

[ls any space used...]
...for any activities requiring large amounts of hot water, such as a commercial dishwasher, laundry room, heated pool, steam room, whirlpool, or showers?

```
1
```

$\qquad$

``` YES
2
``` \(\qquad\)
``` NO
```


## BOX 49

Is this building either a clinic or outpatient health care, inpatient or outpatient rehabilitation, or a doctor's or dentist's office?

```
Yes }->\textrm{E}-
No }->\mathrm{ BOX51
```


## E-3. MEDEQP7

Does this building have any equipment for medical diagnosis or treatment, such as X-ray, CAT scan, MRI, dialysis, or ultrasound machines?
1 $\qquad$ YES $\rightarrow$ BOX 50
2 $\qquad$ $\mathrm{NO} \rightarrow$ BOX 51

## SECTION E

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## BOX 50

Is this building a doctor's office?
$\begin{array}{ll}\text { Yes } & \rightarrow \text { Change PBA7 to "Outpatient Health Care" } \boldsymbol{\rightarrow} \\ \text { No } & \rightarrow \text { BOX } 51\end{array}$

## BOX 51

Is electricity used or generated in the building?
$\begin{array}{ll}\mathrm{Yes} & \rightarrow \mathrm{E}-5 \\ \mathrm{No} & \rightarrow \mathrm{E}-4\end{array}$

## E-4. Verification Question

I do not have electricity recorded as being used in this building. Is it true that there is not any electricity used in this building?
$1 . . . . . . . . . . . . ~ T R U E, ~ E L E C T R I C I T Y ~ I S ~ N O T ~ U S E D ~$
2 …......... FALSE, ELECTRICITY IS USED
$\rightarrow \mathrm{E}-5$

## RFGEQP7

Is there any commercial refrigeration or freezer equipment used in this building?
1 $\qquad$ YES $\rightarrow$ E-6

2 $\mathrm{NO} \rightarrow \mathrm{E}-13$

DK $\rightarrow$ E-13

E-6. RFGWI7
Are there any walk-in refrigeration units?
1 $\qquad$ $\mathrm{YES} \rightarrow \mathrm{E}-7$
2 $\qquad$ NO $\rightarrow$ E-8

DK $\rightarrow$ E-8

## E-7. RFGWIN7

How many [walk-in refrigeration units] are there?
[** PROBE **]
Enter a numeric value between 1 and 999: $\qquad$

## E-8. RFGOP7

Are there any open refrigerated cases or cabinets?

$\mathrm{DK} \rightarrow \mathrm{E}-10$

E-9. RFGOPN7
How many [open refrigerated cases or cabinets] are there?
[** PROBE **]
Enter a numeric value between 1 and 999: $\qquad$

E-10. RFGCL7
Are there any closed refrigerated cases or cabinets, excluding residential type refrigerators?
1 .............. YES $\rightarrow$ E-11
2 ..............NO $\rightarrow$ BOX 52
DK $\rightarrow$ BOX 52

## E-11. RFGCLN7

How many [closed refrigerated cases or cabinets] are there?
[** PROBE **]
Enter a numeric value between 1 and 999: $\qquad$

## BOX 52

Was at least one type of refrigeration answered "Yes"?
Yes $\rightarrow \mathrm{E}-13$
No $\rightarrow \mathrm{E}-12$

## E-12. RFGOTH7

I have recorded that there is refrigeration in the building but not the type of refrigeration equipment. What type of refrigeration is found in the building?:

OPEN ANSWER BOX:

## SECTION E

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## E-13. PCTERM7

Are there any computers used in this building? This is found in Box 12 [on Worksheet 2].
1 $\qquad$
$\mathrm{YES} \rightarrow \mathrm{E}-14$
2 $\qquad$ $\mathrm{NO} \rightarrow \mathrm{E}-25$

## E-14. PCNUM7

About how many computers are used in this building?
[This is found in Box 12 on Worksheet 2.]
Enter a numeric value between 1 and 9999999: $\qquad$ E-25

DK $\rightarrow$ E-15

## E-15. PC1007

"UNFOLDING NUMBER OF COMPUTERS CATEGORY"
Would you estimate that there are less than 100 computers, about 100, or more than 100 computers?

```
1............ LESS }->\mathrm{ E-16
2 .............. ABOUT THAT MANY }->\mathrm{ BOX 53 [06]
3 ............. MORE }->\mathrm{ E-20
```


## E-16. PC507

Would you say that there are less than 50 , about 50 , or more than 50 computers?

```
1 ....... LESS }->\mathrm{ E-17
2 ....... ABOUT THAT MANY }->\mathrm{ BOX 53 [05]
3 ....... MORE }->\mathrm{ BOX 53 [05]
```


## E-17. PC207

Would you say that there are less than 20 , about 20 , or more than 20 computers?

```
1 ....... LESS
    E-18
2 ....... ABOUT THAT MANY }->\mathrm{ BOX 53 [04]
3 ....... MORE }->\mathrm{ BOX 53 [04]
```


## E-18. PC107

Would you say that there are less than 10 , about 10 , or more than 10 computers?

| $1 \ldots \ldots .$. LESS | $\rightarrow$ | E-19 |
| :--- | :--- | :--- |
| $2 \ldots \ldots .$. ABOUT THAT MANY | $\rightarrow$ BOX $53[03]$ |  |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ | BOX $53[03]$ |

## E-20. PC2507

Would you say that there are less than 250, about 250, or more than 250 computers?

| $1 \ldots \ldots .$. LESS | $\rightarrow$ BOX $53[06]$ |  |
| :--- | :--- | :--- |
| $2 \ldots \ldots .$. ABOUT THAT MANY | $\rightarrow$ BOX $53[07]$ |  |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ | E-21 |

## E-21. PC5007

Would you say that there are less than 500, about 500, or more than 500 computers?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX 53 [07] |
| :--- | :--- |
| $2 \ldots \ldots .$. ABOUT THAT MANY | $\rightarrow$ BOX $53[08]$ |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ E-22 |

## E-22. PC10007

Would you say that there are less than 1,000, about 1,000, or more than 1,000 computers?

| $1 \ldots \ldots .$. LESS | $\rightarrow$ BOX $53[08]$ |
| :--- | :--- |
| $2 \ldots \ldots$. ABOUT THAT MANY | $\rightarrow$ BOX $53[09]$ |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ E-23 |

## SECTION E

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## E-19. PC57

Would you say that there are less than 5, about 5, or more than 5 computers?

```
1 ....... LESS }->\mathrm{ BOX 53 [01]
2 ....... ABOUT THAT MANY }->\mathrm{ BOX 53 [02]
3 ....... MORE }\quad->\mathrm{ BOX 53[02]
```

DK TO ANY ONE OF THESE UNFOLDING QUESTIONS
$\rightarrow$ E-25

## E-23. PC25007

Would you say that there are less than 2,500, about 2,500, or more than 2,500 computers?

```
1 ....... LESS
    -> BOX 53 [09]
2 ....... ABOUT THAT MANY }->\mathrm{ BOX 53 [10]
3 ....... MORE }->\mathrm{ E-24
```


## E-24. PC50007

Would you say that there are less than 5,000 , about 5,000 , or more than 5,000 computers?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX $53[10]$ |
| :--- | :--- |
| $2 \ldots \ldots .$. ABOUT THAT MANY | $\rightarrow$ BOX $53[11]$ |
| $3 \ldots \ldots$. MORE | $\rightarrow$ BOX $53[11]$ |

## BOX 53

## PCTRMC7

Go to the numeric code given in brackets in the previous question. This is the auto-coded number of computers category.
$\left.\begin{array}{l}01 \ldots \ldots \ldots . .1 \text { to } 4 \\ 02 \ldots \ldots \ldots .5 \text { to } 9 \\ 03 \ldots \ldots \ldots .10 \text { to } 19 \\ 04 \ldots \ldots \ldots .20 \text { to } 49 \\ 05 \ldots \ldots \ldots .50 \text { to } 99 \\ 06 \ldots \ldots \ldots .100 \text { to } 249 \\ 07 \ldots \ldots \ldots .250 \text { to } 499 \\ 08 \ldots \ldots \ldots .500 \text { to } 999 \\ 09 \ldots \ldots \ldots . .1,000 \text { to } 2,499 \\ 10 \ldots \ldots \ldots .2,500 \text { to } 4,999 \\ 11 \ldots \ldots \ldots .5,000 \text { or More }\end{array}\right) \rightarrow \mathrm{E}-25$

## E-25. Office Equipment Types

Which of the following types of equipment are used in this building? This is found in Box 12 [on Worksheet 2].
[READ LIST AND CHECK ALL THAT APPLY.]

FAX7 $\qquad$ FAX machines?
PRINTR7 Laser printers?
REGSTR7 $\qquad$ Electronic cash registers?
COPIER7 ............. Photocopiers other than small desktop copiers? NONE OF THESE $\rightarrow$ BOX E-6
"Electronic cash registers" selected $\rightarrow$ E-26
"Photocopiers" selected but "Electronic cash registers" not selected $\rightarrow \mathrm{E}-27$ Neither "Photocopiers" nor "Electronic cash registers" selected $\rightarrow$ BOX 54

## SECTION E

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## E-26. RGSTRN7

About how many cash registers are used in this building?
[This is found in Box 12 on Worksheet 2.]
[** PROBE **]
Enter a numeric value between 1 and 9999: $\qquad$
"Photocopiers" also selected
$\rightarrow$ E-27
"Photocopiers" not selected
$\rightarrow$ BOX 54

## E-27. COPRN7

About how many photocopiers are used in this building?
[This is found in Box 12 on Worksheet 2.]
[** PROBE **]
Enter a numeric value between 1 and 9999: $\qquad$

BOX 54
Are there 20 or more computers and is the building not open 24 hours a day?
Yes $\rightarrow \mathrm{E}-28$
No $\quad \rightarrow$ BOX 55

## E-28. RDOFEQ7

How often are the majority of \{the computers and the office equipment just mentioned / the computers\} turned off when the building is not normally open? Would you say that they are...

1 .............. Always turned off,
2 .............. Sometimes turned off,
3 .............. Or never turned off when the building is not normally open?
4
............. [IF VOLUNTEERED] COMPUTERS ARE "POWERED DOWN"

## BOX 55

Is the building normally open at least one hour per week?

| Yes | $\rightarrow \mathrm{E}-29$ |
| :--- | :--- |
| No | $\rightarrow \mathrm{E}-31$ |

## E-29. LTOHRP7

The next questions are about the lighting inside the building.
What percentage of the \{square footage\} square feet in this building is lit when the building is normally open?
[IF ASKED: "Normally open" means the hours when the usual building activities occur.]
[IF LIT SQUARE FOOTAGE IS KNOWN BUT NOT THE PERCENT, RECORD SQUARE FOOTAGE IN COMMENTS.]

Enter a numeric value between 0 and 100: $\quad \rightarrow$ BOX 56
$\mathrm{DK} \rightarrow \mathrm{E}-30$

## E-30. LOHRPC7

What is your best estimate of the percent of the square feet in this building that is lit? Would you say it is...

```
1 ............. 1 to 25 percent,
2 ............. }26\mathrm{ to }50\mathrm{ percent,
3 ............. }51\mathrm{ to }75\mathrm{ percent,
4 ............. }76\mathrm{ to }100\mathrm{ percent,
5............. Or is it not lit at all when it is normally open?
```

| BOX 56 |
| :--- |
| Is the building open 24 hours a day? |
| Yes $\rightarrow$ BOX 57 |
| No $\quad \rightarrow$ E-31 |

## E-31. LTNHRP7

What percentage of the \{square footage\} square feet is lit during off hours, that is, hours when the building is not normally open? Exclude the space lit by emergency lighting.
[IF LIT SQUARE FOOTAGE IS KNOWN BUT NOT THE PERCENT, RECORD SQUARE FOOTAGE IN COMMENTS.]

Enter a numeric value between 0 and 100: $\qquad$ $\rightarrow$ BOX 57
$\mathrm{DK} \rightarrow \mathrm{E}-32$

## E-32. LNHRPC7

What is your best estimate of the percent lit during off hours? Would you say it is...
1 $\qquad$ 1 to 25 percent,
2 .............. 26 to 50 percent,
3 .............. 51 to 75 percent,
$4 \ldots \ldots . . . . .$.
$5 \ldots \ldots \ldots . .$. Or is it not lit at all during off hours?

## SECTION E

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## BOX 57

Is the percent lit when open or closed greater than zero?

```
Yes }\quad->\textrm{E}-3
No }->\textrm{E}-3
```


## E-33. Light Bulb Types

Please look at Reference 5. Was any of the square footage in this building lit by...
[READ LIST AND CHECK ALL THAT APPLY. THERE MUST BE AT LEAST ONE TYPE OF LIGHTING.]

| FLUOR7 | Fluorescent lighting other than compact fluorescent bulbs? Compact fluorescent bulbs? Incandescent light bulbs, other than halogen bulbs? Halogen bulbs? | $\rightarrow$ BOX 58 |
| :---: | :---: | :---: |
|  |  |  |
| ULE |  |  |
| HALO7 |  |  |
| HID7 | High intensity discharge (HID) lights such as high pressure sodium, metal halide or mercury vapor? |  |
| TLT7 | Some other type of lighting? $\rightarrow$ E-34 |  |

## E-34. OTLTX7

What type of bulb is the other type of lighting?: $\qquad$

## BOX 58

Is there more than one type of lighting?
Yes $\rightarrow \mathrm{E}-35$
No $\rightarrow$ BOX 59

## E-35. Percent Lighted by Each Type of Bulb

The next questions are about the percent of floorspace lit by the types of lighting you just mentioned.
Please keep in mind:
One, we are talking about only the lighted portion of the building and, two, more than one type of bulb can light the same area, so these percents can add up to more than 100.

FOR EACH TYPE OF BULB GIVEN IN E-33, GO TO CORRESPONDING QUESTION E-35a THROUGH E-35f

## E-35a. BULBP7

What percent of the lighted area in this building is lit by the fluorescent lighting?
[** PROBE **]
Enter a numeric value between 0 and 100: $\qquad$

## E-35b. CFLRP7

What percent of the lighted area in this building is lit by the compact fluorescent bulbs?
[** PROBE **]
Enter a numeric value between 0 and 100: $\qquad$
E-35c. BULBP7
What percent of the lighted area in this building is lit by the incandescent bulbs?
[** PROBE **]
Enter a numeric value between 0 and 100 : $\qquad$

## E-35d. HALOP7

What percent of the lighted area in this building is lit by the halogen lighting?
[** PROBE **]
Enter a numeric value between 0 and 100 : $\qquad$
E-35e. HIDP7
What percent of the lighted area in this building is lit by the high intensity discharge lights?
[** PROBE **]
Enter a numeric value between 0 and 100: $\qquad$

## E-35f. OTLTP7

What percent of the lighted area in this building is lit by the other lighting type?
[** PROBE **]
Enter a numeric value between 0 and 100: $\qquad$

Are fluorescent bulbs used?
Yes $\rightarrow \mathrm{E}-36$
No $\quad \rightarrow$ BOX 60

## SECTION E

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## E-36. SREF7

The next three questions are about lighting conservation features. These features would be checked off in Box 11 on Worksheet 2. Does your lighting system have any...

Specular reflectors specifically designed to increase the amount of light from a fluorescent fixture?
[IF ASKED: 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.]

```
    1 ............. YES
2 ............. NO
```

| BOX 60 |  |  |  |  |  |  |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: |
| Are fluorescent or HID bulbs used? |  |  |  |  |  |  |
| Yes $\quad \rightarrow$ E-37 |  |  |  |  |  |  |
| No $\rightarrow$ E-38 |  |  |  |  |  |  |

## E-37. HEB7

The next two questions are about lighting conservation features. These features would be checked off in Box 11 on Worksheet 2. Does your building's interior lighting system have any...

Electronic ballasts?
[IF ASKED: 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.]
1
YES
2 NO

## E-38. SKYLT7

[Does your building have any...]
Skylights or atriums specifically designed for the purpose of providing light?
1 $\qquad$ YES
2 $\qquad$ NO

## E-39. WINTYP7

Does this building have...
1 .............. Single paned windows,
2 ........... Multi-paned windows double or triple paned],
3 ............ Or a combination of both of these types of windows?
4 ........... [IF VOLUNTEERED] NO WINDOWS IN BUILDING $\rightarrow$ SECTION F

## SECTION E

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## E-40. TRG7

Do any of these windows have tinted or reflective glass?
1 .............. YES
2 .............. NO

## SECTION F

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## SECTION F. ELECTRICITY USAGE

## BOX 61

Was electricity used in the building?

```
Yes }->\mathrm{ BOX F2
No }->\mathrm{ SECTION G
```


## BOX 62

Does the respondent have Worksheet \#3?

```
Yes }->\textrm{F}-
No }->\mathrm{ F-1
```


## F-1. ELFIGS7

The next questions are about electricity usage in this building for calendar year 1999. 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 }->\textrm{F}-
2 ............ NO }->\mathrm{ F-6
DK }->\mathrm{ BOX 69
```


## F-2. ELCNS7

The next questions are about the electricity usage, as found on Worksheet 3 [that's the yellow worksheet]. Please give me the \{total / approximate\} number of kilowatthours of electricity used in 1999. This number is found in Box 13, Line A.
[** VERIFY NUMBER DIGIT BY DIGIT **]
Enter a numeric value with a maximum of 14 positions: $\qquad$

## F-3. ELEXP7

Please give me the \{total / approximate\} dollars spent on electricity in 1999. This number is found in Box 13, Line B.
[DO NOT ENTER CENTS.]
[** VERIFY NUMBER DIGIT BY DIGIT **]
Enter a numeric value between 0 and 999999999: $\qquad$
DK either consumption or expenditures and they don't have Worksheet $3 \boldsymbol{\rightarrow}$ BOX 69
DK either consumption or expenditures and they have Worksheet $3 \rightarrow$ F-6
Consumption and/or expenditures given
$\rightarrow$ F-4

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## F-4. ELSTDAT7

What is the starting date for these electricity usage figures? This is found in Box 13, Line C.
[ENTER DATE AS MM-DD-YYYY. IF THE DAY IS NOT KNOWN, ENTER "15."] ..-..-...

## F-5. ELENDAT7

What is the ending date? This is also found in Box 13, Line C.
[ENTER DATE AS MM-DD-YYYY. IF THE DAY IS NOT KNOWN, ENTER "15."] ..-..-... $\rightarrow$ F-18

## F-6. ELX5K7 "UNFOLDING ELECTRICITY EXPENDITURES CATEGORY"

I understand that it may be difficult to give exact figures. However, your consumption can be estimated if you know approximately how much you spent on electricity in 1999.

Would you estimate that the amount of dollars spent on electricity for this building in 1999 was less than 5,000 dollars, about 5,000 , or more than 5,000 dollars?


## F-7. ELX2K7

Would you estimate that the amount of dollars spent on electricity [for this building in 1999] was less than 2,000 dollars, about 2,000 , or more than 2,000 dollars?

```
1 ...... LESS }\quad->\mathrm{ F-8 
3 ...... MORE
\(\rightarrow\) BOX 63 [3]
```


## F-8. ELX5007

Would you estimate that the amount of dollars spent on electricity [for this building in 1999] was less than 500 dollars, about 500 , or more than 500 dollars?

| 1 | LESS | $\rightarrow$ BOX 63 [1] |
| :---: | :---: | :---: |
| 2 | ABOUT | $\rightarrow$ BOX 63 [1] |
| $3$ | MORE | $\rightarrow$ BOX 63 [2] |

## DK TO ANY ONE OF THESE UNFOLDING QUESTIONS $\rightarrow$ F-12

## F-9. ELX20K7

Would you estimate that the amount of dollars spent on electricity [for this building in 1999] was less than 20,000 dollars, about 20,000 , or more than 20,000 dollars?

```
1 ...... LESS }\quad->\mathrm{ BOX 63 [4]
2 ....... ABOUT THAT MUCH }->\mathrm{ BOX 63 [4]
3 ...... MORE }\quad->\textrm{F}-1
```


## F-10. ELX50K7

Would you estimate that the amount of dollars spent on electricity [for this building in 1999] was less than 50,000 dollars, about 50,000 , or more than 50,000 dollars?

| $1 \ldots . .$. LESS | $\rightarrow$ BOX $63[5]$ |
| :--- | :--- |
| $2 \ldots . .$. ABOUT THAT MUCH | $\rightarrow$ BOX $63[5]$ |
| $3 \ldots$ |  |
|  | F-11 |

## F-11. ELX200K7

Would you estimate that the amount of dollars spent on electricity [for this building in 1999] was less than 200,000 dollars, about 200,000, or more than 200,000 dollars?

| $1 \ldots .$. LESS | $\rightarrow$ BOX $63[6]$ |
| :--- | :--- |
| $2 \ldots \ldots$. ABOUT THAT MUCH | $\rightarrow$ BOX $63[6]$ |
| $3 \ldots \ldots$. MORE | $\rightarrow$ |
|  | BOX $63[7]$ |

## SECTION F

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## BOX 63

## ELEXPC7

| 1 | $\$ 1$ to $\$ 500$ |  |
| :--- | :--- | :--- |
| 2 | $\$ 501$ to $\$ 2,000$ |  |
| 3 | $\$ 2,001$ to $\$ 5,000$ |  |
| 4 | $\$ 5,001$ to $\$ 20,000$ | $\rightarrow$ F-1 |
| 5 | $\$ 20,001$ to $\$ 50,000$ |  |
| 6 | $\$ 50,001$ to $\$ 200,000$ |  |
| 7 | Over $\$ 200,000$ |  |

## F-12. ELC100K7 "UNFOLDING ELECTRICITY CONSUMPTION CATEGORY"

Would you estimate that the electricity usage in this building in 1999 was less than 100,000 kilowatthours, about 100,000, or more than 100,000 kilowatthours?

| 1 | $\ldots . . . . . . . .$. LESS | $\rightarrow$ F-13 |
| :--- | :--- | :--- |
| 2 | $\ldots \ldots \ldots . .$. ABOUT THAT MUCH | $\rightarrow$ BOX $64[3]$ |
| 3 | $\ldots \ldots \ldots .$. MORE | $\rightarrow$ |
|  |  | F-15 |

## F-13. ELC50K7

Would you estimate that the electricity usage [in this building in 1999] was less than 50,000 kilowatthours, about 50,000 , or more than 50,000 kilowatthours?

| $1 \ldots . . .$. LESS | $\rightarrow$ F-14 |
| :--- | :--- |
| $2 \ldots \ldots .$. ABOUT THAT MUCH | $\rightarrow$ BOX $64[2]$ |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ |
|  | BOX $64[3]$ |

## F-14. ELC20K7

Would you estimate that the electricity usage [in this building in 1999] was less than 20,000 kilowatthours, about 20,000, or more than 20,000 kilowatthours?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX $64[1]$ |
| :--- | :--- |
| $2 \ldots \ldots$. ABOUT THAT MUCH | $\rightarrow$ BOX $64[1]$ |
| $3 \ldots \ldots$. MORE | $\rightarrow$ |
|  | BOX $64[2]$ |

DK TO ANY ONE OF THESE UNFOLDING QUESTIONS $\rightarrow$ BOX 69

## F-15. ELC200K7

Would you estimate that the electricity usage [in this building in 1999] was less than 200,000 kilowatthours, about 200,000, or more than 200,000 kilowatthours?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX $64[4]$ |
| :--- | :--- |
| $2 \ldots \ldots$. ABOUT THAT MUCH | $\rightarrow$ BOX $64[4]$ |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ |

## F-16. ELC500K7

Would you estimate that the electricity usage [in this building in 1999] was less than 500,000 kilowatthours, about 500,000 , or more than 500,000 kilowatthours?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX $64[5]$ |
| :--- | :--- |
| $2 \ldots . .$. ABOUT THAT MUCH | $\rightarrow$ BOX $64[5]$ |
| $3 \ldots$ | $\rightarrow$ F-17 |

## F-17. ELC2M7

Would you estimate that the electricity usage [in this building in 1999] was less than 2 million kilowatthours, about 2 million, or more than 2 million kilowatthours?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX 64[6] |
| :--- | :--- |
| $2 \ldots \ldots .$. ABOUT THAT MUCH | $\rightarrow$ BOX 64[6] |
| $3 \ldots$ |  |
|  | $\rightarrow$ BOX 64 [7].... MORE |


| BOX 64 |  |  |
| :---: | :---: | :---: |
| ELCNSC7 |  |  |
| 1 | 1 to 20,000 kWh |  |
| 2 | 20,001 to 50,000 kWh |  |
| 3 | 50,001 to 100,000 kWh |  |
| 4 | 100,001 to 200,000 kWh | $\rightarrow \mathrm{F}-18$ |
| 5 | 200,001 to 500,000 kWh |  |
| 6 | 500,001 to 2,000,000 kWh |  |
| 7 | Over 2,000,000 | $\bigcirc$ |

F-18. ELOTBD7
Is any consumption from other buildings included \{in these figures / in this estimate\}?

1 $\qquad$ YES $\rightarrow$ F-19

2 $\qquad$ $\mathrm{NO} \rightarrow \mathrm{F}-20$

DK $\rightarrow$ F-20

## F-19. ELOTSF7

What is the approximate square footage of the other buildings that are included \{in these figures / in this estimate\}?
[** PROBE **]
Enter a numeric value between 1 and 999999999: $\qquad$

F-20. ELOTUS7
\{Do these figures / Does this estimate\} include charges for any other major electricity usage outside the building, such as parking lot lights, exterior lights, signs or billboards, large pumps, or swimming pools?

1 .............. YES
2 .............. NO

## BOX 65

Was any electricity purchased from a non-local utility or independent power producer?

```
Yes }\boldsymbol{->
No }->\mathrm{ BOX }6
```


## F-21. INCNONU7

\{Do these figures / Does this estimate\} include all the electricity from the independent power producer, non-local utility, or broker?
1 $\qquad$ YES $\rightarrow$ BOX 66
2 $\qquad$ $\mathrm{NO} \rightarrow \mathrm{F}-22$

DK $\rightarrow$ BOX 66

## SECTION F

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## F-22. Open-Ended Question

What was not included?
[DESCRIBE THE ADDITIONAL CHARGES IN THE BOX.]
OPEN ANSWER BOX: $\qquad$

## BOX 66

Were either the exact consumption or expenditures given (or both)?
Yes $\rightarrow$ BOX 67
No $\rightarrow$ BOX 69

## BOX 67

If there is a 1995 regression estimate, are either the consumption or expenditures outside of the specified range of the 1995 regression estimates (less than $1 / 13$ of or more than 8 times the 1995 estimate)?

Yes (fail regression check) $\rightarrow$ BOX 69
No (pass regression check) $\rightarrow$ BOX 68
No 1995 regression estimate $\rightarrow$ SECTION G

## BOX 68

Were both the exact consumption and expenditures given?
Yes $\rightarrow$ SECTION G
No $\rightarrow$ BOX 69

## BOX 69

Is this building from the 1995 sample and did the building have only one electricity supplier in that survey?
$\mathrm{Yes} \rightarrow \mathrm{F}-23$
No $\rightarrow$ F-30

## F-23. EL95SPV7

Does \{1995 supplier name\} still supply electricity to the building [READ FROM ABOVE]?
1 $\qquad$ $\mathrm{YES} \rightarrow \mathrm{F}-24$
2 $\qquad$ $\mathrm{NO} \rightarrow \mathrm{F}-30$

## DK $\rightarrow$ SECTION G

## F-24. EL951SP7

Was \{1995 supplier name\} the only electricity supplier during $1999 ?$
1 $\qquad$ YES
2 $\qquad$ NO

F-25. ELNAC957
How many different electricity accounts does this building have with \{1995 supplier name\}?

Enter a numeric value between 0 and 999: $\qquad$

## F-26. Account Numbers for Accounts With Same Supplier as 1995 <br> FOR EACH ACCOUNT GIVEN IN F-25, ASK:

Please give me the \{first / next\} electricity account number for $\{1995$ supplier name\}.
[** VERIFY NUMBER DIGIT BY DIGIT **]
$1-10$ accounts $\quad \rightarrow \mathrm{F}-26$
More than 10 accounts $\rightarrow$ BOX 71
AFTER EACH ACCOUNT FINISHED $\rightarrow$ BOX 70

BOX 70
Were any consumption or expenditure figures given (exact or categories)?

$$
\begin{aligned}
& \text { Yes } \rightarrow \text { BOX } 71 \\
& \mathrm{No} \rightarrow \mathrm{~F}-27 \\
& \hline
\end{aligned}
$$

## F-27. ELOTB957

\{Does the bill or statement / Do the bills or statements\} from \{1995 supplier name\} cover just this building or are other buildings covered as well?

1 $\qquad$ JUST THIS BUILDING $\rightarrow$ F-29
2 $\qquad$ OTHER BUILDING(S) $\rightarrow$ F-28

DK $\rightarrow$ F-29

F-28. ELOTS957
What is the approximate square footage of the other buildings included on \{the bill or statement / the bills or statements\}?
[** PROBE **]
Enter a numeric value between 1 and 999999999: $\qquad$

## F-29. ELOTU957

\{Does the bill or statement / Do the bills or statements\} include charges for any other major electricity usage outside the building, such as parking lot lights, exterior lights, signs or billboards, large pumps or swimming pools?

1. $\qquad$ YES
2 $\qquad$ NO

## SECTION F

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BOX 71
Was the 1995 supplier the only supplier of electricity?

```
Yes }->\mathrm{ SECTION G
No }->\textrm{F}-3
```


## F-30. ELNUMSP7

In some parts of the country, customers can purchase energy from more than one supplier.
How many \{different / other\} companies supplied electricity to this building in $1999 ?$
Enter a numeric value between 1 and 10:

$$
\text { DK } \rightarrow \text { SECTION G }
$$

## F-31. Electricity Suppliers (Other Than 1995 Supplier)

What is the name of the \{first / next\} supplier that provided electricity to this building in $1999 ?$
[START TYPING THE NAME OF THE ELECTRIC SUPPLIER TO SEE THE LOOK-UP TABLE. IF THE SUPPLIER NAME DOES NOT APPEAR ON THE LIST, ENTER "OTHER".]:
Supplier found in "look-up table" $\underset{\text { F }}{\boldsymbol{\rightarrow}} \mathrm{F}$-38
Supplier not found, "OTHER" entered $\rightarrow \mathrm{F}-32$

F-32. Supplier Name
[ENTER THE NAME OF THE SUPPLIER.]:

F-34. Supplier P.O. Box or Suite Number
Is there a post office box or suite number?
[IF NOT, PRESS ENTER.]: $\qquad$
F-36. Supplier State
What is the state?
[ENTER THE TWO LETTER ABBREVIATION.]:

F-39. Account Numbers for Suppliers Other Than 1995

FOR EACH ACCOUNT GIVEN IN F-38, ASK:
Please give me the \{first / next\} electricity account number for \{name of supplier\}.
[** VERIFY NUMBER DIGIT BY DIGIT **]

AFTER EACH ACCOUNT FINISHED $\rightarrow$ BOX 72
BOX 72

| Was any electricity purchased from a non-local utility or independent power |
| :--- |
| producer? |

Yes $\rightarrow$ F-40
No $\rightarrow$ BOX 73

## F-40. ELNONU17 ELNONU27

You mentioned earlier that you purchase electricity from an independent power producer, non-local utility, or broker. Is \{name of supplier\} one of those companies?
1 $\qquad$ YES
2 NO

## BOX 73

Were any consumption or expenditure figures given (exact or category)?
Yes $\rightarrow$ Back to $\mathrm{F}-31$ for next supplier, or SECTION $G$ if no others No $\rightarrow$ F-41

F-41. ELOTB17 ELOTB27
\{Does the bill or statement / Do the bills or statements\} from \{name of supplier\} cover just this building or are other buildings covered as well?

1 .............. JUST THIS BUILDING $\rightarrow$ F-43
2 .............. OTHER BUILDING(S) $\rightarrow$ F-42
DK $\rightarrow$ F-43

F-42. ELOTS17 ELOTS27
What is the approximate square footage of the other buildings included on the $\{$ the bill or statement / the bills or statements\}?
[** PROBE **]
Enter a numeric value between 1 and 999999999: $\qquad$

F-43. ELOTU17 ELOTU27
\{Does the bill or statement / Do the bills or statements\} include charges for any other major electricity usage outside the building, such as parking lot lights, exterior lights, signs or billboards, large pumps or swimming pools?
1 $\qquad$ YES
2 NO

## SECTION G

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## SECTION G. NATURAL GAS USAGE

## BOX 74

Was natural gas used in the building?
Yes $\rightarrow$ BOX G2
No $\rightarrow$ SECTION H

## BOX 75

Does the respondent have Worksheet \#3?

```
Yes }->\mathrm{ G-2
No }->\textrm{G}-
```


## G-1. NGFIGS7

The next questions are about natural gas usage in this building for calendar year 1999. 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 $\qquad$ YES $\rightarrow$ G-2
2 NO $\rightarrow$ G-8

DK $\rightarrow$ BOX 82

## G-2. NGUNIT7

The next questions are about the natural gas usage, as found on Worksheet 3 [that's the yellow worksheet].

Look at Box 14, Line A. In what units is your natural gas measured? Is it in...

```
1
``` \(\qquad\)
``` Hundred cubic feet (Ccf),
2
``` \(\qquad\)
``` Therms,
3
``` \(\qquad\)
``` Thousand cubic feet (Mcf),
\(\rightarrow\) G-4
4
5 .............. Or cubic feet (cf)?
6 .............. [IF VOLUNTEERED] SOME OTHER UNIT \(\rightarrow\) G-3
```

```
DK \(\rightarrow\) G-4
```


## G-3. NGUNITX7

What are the other units?: $\qquad$

## G-4. NGCNS7

Please give me the \{total / approximate\} amount of natural gas used in 1999. This number is found in Box 14, Line A.
[** VERIFY NUMBER DIGIT BY DIGIT **]
Enter a numeric value with a maximum of 14 positions: $\qquad$

## G-5. NGEXP7

Please give me the \{total / approximate\} dollars spent on natural gas in 1999. This number is found in Box 14, Line B.
[DO NOT ENTER CENTS.]
[** VERIFY NUMBER DIGIT BY DIGIT **]
Enter a numeric value between 1 and 999999999: $\qquad$
DK either consumption or expenditures and they don't have Worksheet $3 \rightarrow$ BOX 82
DK either consumption or expenditures and they have Worksheet 3
$\rightarrow$ G-8
Consumption and/or expenditures given
$\rightarrow$ G-6

G-6. NGSTDAT7
What is the starting date for these natural gas usage figures? This is found in Box 14, Line C.
[ENTER DATE AS MM-DD-YYYY. IF THE DAY IS NOT KNOWN, ENTER "15."] ..-.......

## G-7. NGENDAT7

What is the ending date? This is also found in Box 14, Line C.
[ENTER DATE AS MM-DD-YYYY. IF THE DAY IS NOT KNOWN, ENTER "15."] ..-...... $\rightarrow$ G-20

## SECTION G

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## G-8. NGX5K7 "UNFOLDING NATURAL GAS EXPENDITURES CATEGORY"

I understand that it may be difficult to give exact figures. However, your consumption can be estimated if you know approximately how much you spent on natural gas in 1999.

Would you estimate that the amount of dollars spent on natural gas for this building in 1999 was less than 5,000 dollars, about 5,000 , or more than 5,000 dollars?


## G-9. NGX2K7

Would you estimate that the amount of dollars spent on natural gas [for this building in 1999] was less than 2,000 dollars, about 2,000 , or more than 2,000 dollars?

| $1 \ldots . . . .$. LESS | $\rightarrow$ | G-10 |
| :--- | :--- | :--- |
| $2 \ldots \ldots .$. ABOUT THAT MUCH | $\rightarrow$ BOX $76[2]$ |  |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ | BOX $76[3]$ |

## G-10. NGX5007

Would you estimate that the amount of dollars spent on natural gas [for this building in 1999] was less than 500 dollars, about 500 , or more than 500 dollars?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX $76[1]$ |
| :--- | :--- |
| $2 \ldots . . .$. ABOUT THAT MUCH | $\rightarrow$ BOX $76[1]$ |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ |
|  | BOX $76[2]$ |

DK TO ANY ONE OF THESE UNFOLDING QUESTIONS $\boldsymbol{\rightarrow}$ G-14

## G-11. NGX20K7

Would you estimate that the amount of dollars spent on natural gas [for this building in 1999] was less than 20,000 dollars, about 20,000 , or more than 20,000 dollars?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX $76[4]$ |
| :--- | :--- |
| $2 \ldots \ldots$. ABOUT THAT MUCH | $\rightarrow$ BOX $76[4]$ |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ G-12 |

## G-12. NGX50K7

Would you estimate that the amount of dollars spent on natural gas [for this building in 1999] was less than 50,000 dollars, about 50,000 , or more than 50,000 dollars?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX $76[5]$ |
| :--- | :--- |
| $2 \ldots \ldots$. ABOUT THAT MUCH | $\rightarrow$ BOX $76[5]$ |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ |

## G-13. NGX200K7

Would you estimate that the amount of dollars spent on natural gas [for this building in 1999] was less than 200,000 dollars, about 200,000, or more than 200,000 dollars?

| $1 \ldots . . . .$. LESS | $\rightarrow$ BOX $76[6]$ |
| :--- | :--- |
| $2 \ldots . .$. ABOUT THAT MUCH | $\rightarrow$ BOX $76[6]$ |
| $3 \ldots . . .$. MORE | $\rightarrow$ |
|  |  |

## BOX 76

## NGEXPC7

| 1 | $\$ 1$ to $\$ 500$ |  |
| :--- | :--- | :--- |
| 2 | $\$ 501$ to $\$ 2,000$ |  |
| 3 | $\$ 2,001$ to $\$ 5,000$ |  |
| 4 | $\$ 5,001$ to $\$ 20,000$ | $\rightarrow$ G-2ф |
| 5 | $\$ 20,001$ to $\$ 50,000$ |  |
| 6 | $\$ 50,001$ to $\$ 200,000$ |  |
| 7 | Over $\$ 200,000$ |  |

## G-14. NGC10K7 "UNFOLDING NATURAL GAS CONSUMPTION CATEGORY"

Would you estimate that the natural gas usage in this building in 1999 was less than 10,000 therms, about 10,000 , or more than 10,000 therms?
[IF RESPONDENT HAS THIS ESTIMATE IN A UNIT OTHER THAN THERMS, RECORD THE UNIT IN COMMENTS.]

```
1 ............ LESS }\quad->\mathrm{ G-15
2 ............. ABOUT THAT MUCH }->\mathrm{ BOX 77 [3]
3 ............ MORE }\quad->\mathrm{ G-17
```


## G-15. NGC5K7

Would you estimate that the natural gas usage [in this building in 1999] was less than 5,000 therms, about 5,000, or more than 5,000 therms?

```
1 ...... LESS }\quad->\mathrm{ G-16
2 ...... ABOUT THAT MUCH }->\mathrm{ BOX 77 [2]
3 ...... MORE }\quad->\mathrm{ BOX 77 [3]
```


## G-16. NGC2K7

Would you estimate that the natural gas usage [in this building in 1999] was less than 2,000 therms, about 2,000, or more than 2,000 therms?

```
1 ...... LESS }\quad->\mathrm{ BOX 77 [1]
2 ...... ABOUT THAT MUCH }->\mathrm{ BOX 77 [1]
3 ...... MORE
    BOX 77 [2]
```

DK TO ANY ONE OF THESE UNFOLDING QUESTIONS $\rightarrow$ BOX 82

## G-17. NGC20K7

Would you estimate that the natural gas usage [in this building in 1999] was less than 20,000 therms, about 20,000, or more than 20,000 therms?

```
1 ...... LESS }->\mathrm{ BOX 77 [4]
2 ...... ABOUT THAT MUCH }->\mathrm{ BOX 77 [4]
3 ...... MORE }\quad->\mathrm{ G-18
```


## G-18 NGC50K7

Would you estimate that the natural gas usage [in this building in 1999] was less than 50,000 therms, about 50,000, or more than 50,000 therms?

| $1 \ldots$ | $\rightarrow$ BOX $77[5]$ |
| :--- | :--- |
| $2 \ldots . . . .$. ABSS | $\rightarrow$ BOXT THAT MUCH $77[5]$ |
| $3 \ldots$ | $\rightarrow$ G-19 |

## G-19. NGC1M7

Would you estimate that the natural gas usage [in this building in 1999] was less than one million therms, about one million, or more than one million therms?

| $1 \ldots . .$. LESS | $\rightarrow$ BOX $77[6]$ |  |
| :--- | :--- | :--- |
| $2 \ldots \ldots$. ABOUT THAT MUCH | $\rightarrow$ BOX $77[6]$ |  |
| $3 \ldots$ | $\rightarrow$ | BOX $77[7]$ |


|  | BOX 77 <br> NGCNSC7 |  |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |
| 1 | 1 to $2,000 \mathrm{ccf}$ |  |
| 2 | 2,001 to $5,000 \mathrm{ccf}$ |  |
| 3 | 5,001 to $10,000 \mathrm{ccf}$ |  |
| 4 | 10,001 to $20,000 \mathrm{ccf}$ | $\rightarrow$ G-20 |
| 5 | 20,001 to $50,000 \mathrm{ccf}$ |  |
| 6 | 50,001 to $1,000,000 \mathrm{ccf}$ |  |
| 7 | Over $1,000,000 \mathrm{ccf}$ |  |

## SECTION G

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## G-20. NGOTBD7

Is any consumption from other buildings included \{in these figures / in this estimate\}?
1 $\qquad$ YES $\rightarrow$ G-21
2 $\qquad$ $\mathrm{NO} \rightarrow \mathrm{G}-22$
$\mathrm{DK} \rightarrow$ G-22

## G-21. NGOTSF7

What is the approximate square footage of the other buildings that are included \{in these figures / in this estimate\}?
[** PROBE **]
Enter a numeric value between 1 and 999999999: $\qquad$

## G-22. NGOTUS7

\{Do these figures / Does this estimate\} include charges for any other major natural gas usage outside the building, 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

## BOX 78

Was any natural gas purchased from a non-local utility?
Yes $\rightarrow$ G-23
No $\rightarrow$ BOX 79

## G-23. INCTRGS7

\{Do these figures / Does this estimate\} include all the natural gas from the non-utility or broker?
1 .............. YES $\rightarrow$ BOX 79
2 .............. NO $\rightarrow$ G-24
DK $\rightarrow$ BOX 79

## G-24. Open-Ended Question

What was not included?
[DESCRIBE THE ADDITIONAL CHARGES IN THE BOX.]
OPEN ANSWER BOX: $\qquad$

## BOX 79

Were either the exact consumption or expenditures given (or both)?

```
Yes }->\mathrm{ BOX 80
No }->\mathrm{ BOX 82
```


## BOX 80

If there is a 1995 regression estimate, are either the consumption or expenditures outside of the specified range of the 1995 regression estimates (less than $1 / 13$ of or more than 13 times the 1995 estimate)?

$$
\begin{array}{ll}
\text { Yes (fail regression check) } & \rightarrow \text { BOX } 82 \\
\text { No (pass regression check) } & \rightarrow \\
\text { BOX } 81 \\
\text { No } 1995 \text { regression estimate } \rightarrow \text { SECTION H } \\
\hline
\end{array}
$$

## BOX 81

Were both the exact consumption and expenditures given?

$$
\begin{aligned}
& \text { Yes } \rightarrow \text { SECTION H } \\
& \text { No } \rightarrow \text { BOX } 82
\end{aligned}
$$

## BOX 82

Is this building from the 1995 sample and did the building have only one electricity supplier in that survey?

```
Yes }->\mathrm{ G-25
No }->\mathrm{ G-32
```


## G-25. NG95SPV7

Does $\{1995$ supplier name\} still supply natural gas to the building [READ FROM ABOVE]?
1 $\qquad$ YES $\rightarrow$ G-26
2 $\qquad$ $\mathrm{NO} \rightarrow \mathrm{G}-32$

DK $\rightarrow$ SECTION H

## G-26. NG951SP7

Was $\{1995$ supplier name $\}$ the only natural gas supplier during $1999 ?$
1 $\qquad$ YES

2 $\qquad$ NO

## SECTION G

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G-27. NGNAC957
How many different natural gas accounts does this building have with \{1995 supplier name\}?

Enter a numeric value between 0 and 999: $\qquad$

| 0 accounts | $\rightarrow$ BOX 83 |  |
| :--- | :--- | :--- |
| $1-10$ accounts | $\rightarrow$ | G-28 |
| More than 10 accounts | $\rightarrow$ BOX 84 |  |

DK $\rightarrow$ BOX 83
G-28. Account Numbers for Accounts With Same Supplier as 1995

FOR EACH ACCOUNT GIVEN IN G-27, ASK:

Please give me the \{first/ next\} natural gas account number for \{1995 supplier name\}.
[** VERIFY NUMBER DIGIT BY DIGIT **]

AFTER EACH ACCOUNT FINISHED $\rightarrow$ BOX 83

## BOX 83

Were any consumption or expenditure figures given (exact or categories)?

```
Yes }->\mathrm{ BOX G-8
No }->\textrm{G}-2
```


## G-29. NGOTB957

\{Does the bill or statement / Do the bills or statements\} from \{1995 supplier name\} cover just this building or are other buildings covered as well?

1 $\qquad$ JUST THIS BUILDING $\rightarrow$ G-31
2 $\qquad$ OTHER BUILDING(S) $\rightarrow$ G-30

DK $\rightarrow$ G-31

## G-30. NGOTS957

What is the approximate square footage of the other buildings included on \{the bill or statement / the bills or statements\}?
[** PROBE **]
Enter a numeric value between 1 and 999999999: $\qquad$

## G-31. NGOTU957

\{Does the bill or statement / Do the bills or statements\} include charges for any other major natural gas usage outside the building, such as for kilns, gas space heaters, exterior or decorative lighting, compressed natural gas vehicles, or pumps not used in the building?
1 $\qquad$ YES

2 NO

## BOX 84

Was 1995 supplier the only supplier of natural gas?
$\mathrm{Yes} \rightarrow$ SECTION H
No $\rightarrow$ G-32

## G-32. NGNUMSP7

In some parts of the country, customers can purchase energy from more than one supplier.
How many \{different / other\} companies supplied natural gas to this building in $1999 ?$
Enter a numeric value between 1 and 10 : $\qquad$

$$
\text { DK } \rightarrow \text { SECTION F }
$$

## G-33. Natural Gas Suppliers (Other Than 1995 Supplier)

What is the name of the \{first / next\} supplier that provided electricity to this building in 1999 ?
[START TYPING THE NAME OF THE NATURAL GAS SUPPLIER TO SEE THE LOOK-UP TABLE. IF THE SUPPLIER NAME DOES NOT APPEAR ON THE LIST, ENTER "OTHER".]:

Supplier found in "Look-Up Table" $\boldsymbol{\rightarrow}$ G-40
Supplier not found, "OTHER" entered $\boldsymbol{\rightarrow}$ G-34

G-34. Supplier Name
[ENTER THE NAME OF THE SUPPLIER.]: What is the address for \{name of supplier\},
$\qquad$
G-36. Supplier P.O. Box or Suite Number
Is there a post office box or suite number?
G-37. Supplier City
What is the city?: $\qquad$
[IF NOT, PRESS ENTER.]: $\qquad$
G-38. Supplier State

## G-39. Supplier Zip Code

And what is the zip code?: $\qquad$
[ENTER THE TWO LETTER ABBREVIATION.]:

G-40. NGNAC17 NGNAC27
How many different natural gas accounts does this building have with \{name of supplier\}?

Enter a numeric value between 0 and 999: $\qquad$

| 0 accounts |  |
| :--- | :--- |
| $1-10$ accounts |  |
|  | $\rightarrow$ GOX 41 |

More than 10 accounts $\rightarrow$ Back to G-33 if more suppliers, or SECTION H if no others

DK $\rightarrow$ BOX 85

G-41. Account Numbers for Suppliers Other Than 1995

FOR EACH ACCOUNT GIVEN IN F-38, ASK:
Please give me the \{first / next\} natural gas account number for \{name of supplier\}.
[** VERIFY NUMBER DIGIT BY DIGIT **]

AFTER EACH ACCOUNT FINISHED $\rightarrow$ BOX 85

## BOX 85

Was any natural gas purchased from a non-local utility?

```
Yes }->\mathrm{ G-42
No }->\mathrm{ BOX 86
```


## SECTION G

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## G-42. NGTG17 NGTG27

You mentioned earlier that you purchase natural gas from a non-local utility or a broker. Is \{name of supplier\} one of those companies?

1 .............. YES
3. NO

## BOX 86

Were any consumption or expenditure figures given (exact or category)?
Yes $\rightarrow$ Back to G-33 for next supplier, or SECTION H if no others No $\rightarrow$ G-43

## G-43. NGOTB17 NGOTB27

\{Does the bill or statement / Do the bills or statements\} from \{name of supplier\} cover just this building or are other buildings covered as well?

1 ............. JUST THIS BUILDING $\rightarrow$ G-45
2 .............. OTHER BUILDING(S) $\rightarrow$ G-44
DK $\rightarrow$ G-45

G-44. NGOTS17 NGOTS27
What is the approximate square footage of the other buildings included on the \{the bill or statement / the bills or statements\}?
[** PROBE **]
Enter a numeric value between 1 and 999999999: $\qquad$

G-45. NGOTU17 NGOTU27
\{Does the bill or statement / Do the bills or statements\} include charges for any other major natural gas usage outside the building, 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

GO BACK TO G-33 IF MORE SUPPLIERS, OR TO SECTION H IF NO MORE SUPPLIERS

## SECTION H. FUEL OIL / DIESEL / KEROSENE USAGE

## BOX 87

Was fuel oil/diesel/kerosene used in the building?
$\mathrm{Yes} \rightarrow \mathrm{BOXH} 2$
No $\rightarrow$ SECTION I

## BOX 88

Does the respondent have Worksheet \#3?
$\mathrm{Yes} \rightarrow \mathrm{H}-2$
$\mathrm{No} \rightarrow \mathrm{H}-1$

## H-1. FKFIGS7

The next questions are about \{fuel oil / diesel / kerosene\} usage in this building for calendar year 1999. Would you be able to give me an approximate figure of how much \{fuel oil / diesel / kerosene\} was used or how much was spent on it?

1 ............. YES $\rightarrow$ H-2
2 $\mathrm{NO} \rightarrow \mathrm{H}-7$

DK $\rightarrow$ BOX 93

H-2. FKCNS7
The next questions are about the fuel oil, diesel, or kerosene usage, as found on Worksheet 3 [that's the yellow worksheet].

Please give me the \{total / approximate\} number of gallons of \{fuel oil / diesel / kerosene\} purchased in 1999. This number is found in Box 15, Line A.
[** VERIFY NUMBER DIGIT BY DIGIT **]
Enter a numeric value with a maximum of 14 positions: $\qquad$

## SECTION H

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## H-3. FKEXP7

Please give me the \{total / approximate\} dollars spent on \{fuel oil / diesel / kerosene\} in 1999. This number is found in Box 15, Line B.

## [DO NOT ENTER CENTS.]

[** VERIFY NUMBER DIGIT BY DIGIT **]
Enter a numeric value between 0 and 999999999: $\qquad$
DK either consumption or expenditures and they don't have Worksheet $3 \boldsymbol{\rightarrow}$ BOX 93
DK either consumption or expenditures and they have Worksheet $3 \rightarrow \mathrm{H}-7$
Consumption and/or expenditures answered greater than zero $\quad \rightarrow \mathrm{H}-4$
Both consumption and expenditures zero or one zero and one DK $\quad \boldsymbol{H}$ H-6

## H-4. FKSTDAT7

What is the first delivery date for these \{fuel oil / diesel / kerosene\} purchases? This is found in Box 15, Line C.
[ENTER DATE AS MM-DD-YYYY. IF THE DAY IS NOT KNOWN, ENTER "15."] ..-......

## H-5. FKENDAT7

What is the last delivery date? This is also found in Box 15, Line C.
[ENTER DATE AS MM-DD-YYYY. IF THE DAY IS NOT KNOWN, ENTER "15."] ..-...... $\rightarrow \mathrm{H}-19$

## H-6. FKPRE997

Was any fuel oil purchased or delivered earlier than 1999?

$$
\left.\begin{array}{l}
1 \mathrm{YES} \\
2 \mathrm{NO}
\end{array}\right] \rightarrow \text { SECTION I }
$$

## H-7. FKX5K7 "UNFOLDING FUEL OIL EXPENDITURES CATEGORY"

I understand that it may be difficult to give exact figures. However, your consumption can be estimated if you know approximately how much you spent on \{fuel oil / diesel / kerosene\} in 1999.

Would you estimate that the amount of dollars spent on \{fuel oil / diesel / kerosene\} for this building in 1999 was less than 5,000 dollars, about 5,000 , or more than 5,000 dollars?

```
1 ............ LESS }->\mathrm{ H-8
2 ............. ABOUT THAT MUCH }->\mathrm{ BOX 89 [3]
3 ............. MORE }\boldsymbol{->
```


## H-8. FKX2K7

Would you estimate that the amount of dollars spent on \{fuel oil / diesel / kerosene\} [for this building in 1999] was less than 2,000 dollars, about 2,000 , or more than 2,000 dollars?

| 1 | LESS | $\rightarrow \mathrm{H}-9$ |
| :---: | :---: | :---: |
| 2 | ABOUT | $\rightarrow$ BOX 89 [2] |
|  | MORE | $\rightarrow$ BOX 89 [3] |

## H-9. FKX5007

Would you estimate that the amount of dollars spent on \{fuel oil / diesel / kerosene\} [for this building in 1999] was less than 500 dollars, about 500 , or more than 500 dollars?


DK TO ANY ONE OF THESE UNFOLDING QUESTIONS $\boldsymbol{\rightarrow} \mathbf{H - 1 3}$

## H-10. FKX20K7

Would you estimate that the amount of dollars spent on \{fuel oil / diesel / kerosene\} [for this building in 1999] was less than 20,000 dollars, about 20,000 , or more than 20,000 dollars?

```
1 ....... LESS }\quad->\mathrm{ BOX 89 [4]
2 ....... ABOUT THAT MUCH }->\mathrm{ BOX 89 [4]
3 ....... MORE }->\textrm{H}-1
```


## H-11. FKX50K7

Would you estimate that the amount of dollars spent on \{fuel oil / diesel / kerosene\} [for this building in 1999] was less than 50,000 dollars, about 50,000 , or more than 50,000 dollars?

```
1 ....... LESS }->\mathrm{ BOX 89 [5]
2 ....... ABOUT THAT MUCH }->\mathrm{ BOX 89 [5]
3 ........ MORE }->\textrm{H}-1
```


## H-12. FKX200K7

Would you estimate that the amount of dollars spent on \{fuel oil / diesel / kerosene\} [for this building in 1999] was less than 200,000 dollars, about 200,000 , or more than 200,000 dollars?

| 1 | LESS | $\rightarrow$ BOX 89 [6] |
| :---: | :---: | :---: |
| 2 | ABOUT | $\rightarrow$ BOX 89 [6] |
| 3 | MORE | $\rightarrow$ BOX 89 [7] |

## BOX 89

## FKEXPC7

## \$1 to \$500

\$501 to \$2,000
\$2,001 to \$5,000
\$5,001 to \$20,000
\$20,001 to $\$ 50,000$
\$50,001 to \$200,000
Over \$200,000

## SECTION H

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H-13. FKC2K7 "UNFOLDING FUEL OIL CONSUMPTION CATEGORY"
Would you estimate that the amount of \{fuel oil / diesel / kerosene\} purchased for this building in 1999 was less than 2,000 gallons, about 2,000, or more than 2,000 gallons?

| $1 \ldots \ldots . . . . .$. LESS | $\rightarrow \mathrm{H}-14$ |
| :--- | :--- |
| $2 \ldots \ldots \ldots .$. ABOUT THAT MUCH | $\rightarrow$ BOX $90[3]$ |
| 3 |  |
|  | $\rightarrow \mathrm{H}-16$ |

## H-14. FKC1K7

Would you estimate that the amount of \{fuel oil / diesel / kerosene\} purchased [for this building in 1999] was less than 1,000 gallons, about 1,000 , or more than 1,000 gallons?

```
1 ....... LESS }\quad->\textrm{H}-1
2 ........ ABOUT THAT MUCH }->\mathrm{ BOX 90 [2]
3 ....... MORE }\quad->\mathrm{ BOX 90 [3]
```


## H-15. FKC5007

Would you estimate that the amount of \{fuel oil / diesel / kerosene\} purchased [for this building in 1999] was less than 500 gallons, about 500 , or more than 500 gallons?

| $1 \ldots$ | $\rightarrow$ BOX $90[1]$ |
| :--- | :--- |
| $2 \ldots \ldots .$. LESS | ABOUT THAT MUCH |
| $\mathbf{\rightarrow}$ BOX $90[1]$ |  |
| 3 | $\rightarrow$ BOX $90[2]$ |

DK TO ANY ONE OF THESE UNFOLDING QUESTIONS $\rightarrow$ BOX 93

## H-16. FKC5K7

Would you estimate that the amount of \{fuel oil / diesel / kerosene\} purchased [for this building in 1999] was less than 5,000 gallons, about 5,000 , or more than 5,000 gallons?

```
1 ....... LESS }\quad->\mathrm{ BOX 90 [4]
2 ........ ABOUT THAT MUCH }->\mathrm{ BOX 90 [4]
3 ....... MORE }->\textrm{H}-1
```


## H-17. FKC10K7

Would you estimate that the amount of \{fuel oil / diesel / kerosene\} purchased [for this building in 1999] was less than 10,000 gallons, about 10,000 , or more than 10,000 gallons?

| $1 \ldots . . . .$. LESS | $\rightarrow$ BOX $90[5]$ |
| :--- | :--- |
| $2 \ldots . . .$. ABOUT THAT MUCH | $\rightarrow$ BOX $90[5]$ |
| $3 \ldots$ |  |
|  |  |

## H-18. FKC20K7

Would you estimate that the amount of [fuel oil / diesel / kerosene\} purchased [for this building in 1999] was less than 20,000 gallons, about 20,000 , or more than 20,000 gallons?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX $90[6]$ |
| :--- | :--- |
| $2 \ldots . . .$. ABOUT THAT MUCH | $\rightarrow$ BOX $90[6]$ |
| $3 \ldots$ | $\rightarrow$ BOX $90[7]$ |


| BOX 90 |  |  |
| :---: | :---: | :---: |
| FKCNSC7 |  |  |
| 1 | 1 to 500 gallons |  |
| 2 | 501 to 1,000 gallons |  |
| 3 | 1,001 to 2,000 gallons |  |
| 4 | 2,001 to 5,000 gallons | $\rightarrow \mathrm{H}-19$ |
| 5 | 5,001 to 10,000 gallons |  |
| 6 | 10,001 to 20,000 gallons |  |
| 7 | Over 20,000 gallons |  |

## H-19. FKOTBD7

Is any consumption from other buildings included \{in these figures / in this estimate\}?
$1 \ldots \ldots . . . . .$. YES $\rightarrow \mathrm{H}-20$
$2 \ldots \mathrm{H}-21$
$\mathrm{DK} \rightarrow \mathrm{H}-21$

## H-20. FKOTSF7

What is the approximate square footage of the other buildings that are included \{in these figures / in this estimate\}?
[** PROBE **]
Enter a numeric value between 1 and 999999999: $\qquad$

H-21. FKOTUS7
\{Do these figures / Does this estimate\} include charges for any other major \{fuel oil / diesel / kerosene\} usage outside the building, such as for kilns, weldings, pumps, or motors?

1 $\qquad$ YES
2 NO

## BOX 91

Were either the exact consumption or expenditures given (or both)?
Yes $\rightarrow$ BOX 92
No $\rightarrow$ BOX 93

## BOX 92

If there is a 1995 regression estimate, are either the consumption or expenditures outside of the specified range of the 1995 regression estimates (less than $1 / 20$ of or more than 10 times the 1995 estimate)?

> | Yes (fail regression check) | $\rightarrow$ BOX 93 |
| :--- | :--- |
| No (pass regression check) | $\rightarrow$ SECTION I |
| No 1995 regression estimate $\rightarrow$ SECTION I |  |

## BOX 93

Is this building from the 1995 sample and did the building have only one fuel oil supplier in that survey?

Yes $\rightarrow \mathrm{H}-22$
$\mathrm{No} \rightarrow \mathrm{H}-29$

## SECTION H

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## H-22. FK95SPV7

Does \{1995 supplier name\} still supply \{fuel oil / diesel / kerosene\} to the building [READ FROM ABOVE]?

```
1
``` \(\qquad\)
``` YES \(\rightarrow \mathrm{H}-23\)
2
``` \(\qquad\)
``` \(\mathrm{NO} \rightarrow \mathrm{H}-29\)
```


## DK $\rightarrow$ SECTION I

## H-23. FK951SP7

Was $\{1995$ supplier name\} the only \{fuel oil / diesel / kerosene\} supplier during $1999 ?$
1 $\qquad$ YES
2 $\qquad$ NO

H-24. FKNAC957
How many different \{fuel oil / diesel / kerosene\} accounts does this building have with $\{1995$ supplier name\}?

Enter a numeric value between 0 and 999: $\qquad$
0 accounts $\quad \rightarrow$ BOX 94
1-10 accounts $\quad \rightarrow \mathrm{H}-28$
More than 10 accounts $\rightarrow$ BOX 95
DK $\rightarrow$ BOX 94

H-25. Account Numbers for Accounts With Same Supplier as 1995

FOR EACH ACCOUNT GIVEN IN H-24, ASK:
Please give me the \{first / next\} \{fuel oil / diesel / kerosene\} account number for $\{1995$ supplier name \}.
[** VERIFY NUMBER DIGIT BY DIGIT **]

AFTER EACH ACCOUNT FINISHED $\rightarrow$ BOX 94

## BOX 94

Were any consumption or expenditure figures given (exact or categories)?

```
Yes }->\mathrm{ BOX 95
No }->\textrm{H}-2
```


## H-26. FKOTB957

\{Does the bill or statement / Do the bills or statements\} from \{1995 supplier name\} cover just this building or are other buildings covered as well?

1 ............. JUST THIS BUILDING $\rightarrow \mathrm{H}-28$
2 .............. OTHER BUILDING(S) $\rightarrow \mathrm{H}-27$
DK $\rightarrow \mathrm{H}-28$

## H-27. FKOTS957

What is the approximate square footage of the other buildings included on \{the bill or statement / the bills or statements\}?
[** PROBE **]
Enter a numeric value between 1 and 999999999: $\qquad$

## H-28. FKOTU957

\{Does the bill or statement / Do the bills or statements\} include charges for any other major \{fuel oil / diesel / kerosene\} usage outside the building, such as for kilns, weldings, pumps, or motors?

```
1
``` \(\qquad\)
``` YES
2 NO
```


## BOX 95

Was 1995 supplier the only supplier of fuel oil?

```
Yes \(\rightarrow\) SECTION I
```

$\mathrm{No} \rightarrow \mathrm{H}-29$

H-29. FKNUMSP7
How many \{different / other\} companies supplied \{fuel oil / diesel / kerosene\} to this building in 1999 ?
Enter a numeric value between 1 and 10: $\qquad$

$$
\text { DK } \rightarrow \text { SECTION I }
$$

## H-30. Fuei Öil Suppliers (Other Ťhan 1995 Supplier)

What is the name of the \{first / next\} supplier that provided \{fuel oil / diesel / kerosene\} to this building in 1999?
[START TYPING THE NAME OF THE SUPPLIER TO SEE THE LOOK-UP TABLE. IF THE SUPPLIER NAME DOES NOT APPEAR ON THE LIST, ENTER "OTHER".]:

> Supplier found in "Look-Up Table" $\underset{\text { H-37 }}{\rightarrow} \mathrm{H}-37$
> Supplier not found, "OTHER" entered $\boldsymbol{\rightarrow} \mathrm{H}-31$

H-31. Supplier Name
[ENTER THE NAME OF THE SUPPLIER.]:
$\qquad$
H-33. Supplier P.O. Box or Suite Number
Is there a post office box or suite number? [IF NOT, PRESS ENTER.]:

## H-32. Supplier Street Address

What is the address for \{name of supplier\}, beginning with the street?:

## H-34. Supplier City

What is the city?: $\qquad$

## SECTION H

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## BOX 96

Were any consumption or expenditure figures given (exact or categories)?
Yes $\rightarrow$ Back to $\mathrm{H}-30$ for next supplier, or SECTION I if no others $\mathrm{No} \rightarrow \mathrm{H}-39$

## H-39. FKOTB17

\{Does the bill or statement / Do the bills or statements\} from \{name of supplier\} cover just this building or are other buildings covered as well?
1 $\qquad$ JUST THIS BUILDING $\rightarrow \mathrm{H}-41$
2 $\qquad$ OTHER BUILDING(S) $\rightarrow \mathrm{H}-40$
DK $\rightarrow$ H-41

## H-40. FKOTS17

What is the approximate square footage of the other buildings included on the $\{$ the bill or statement / the bills or statements\}?
[** PROBE **]
Enter a numeric value between 1 and 999999999: $\qquad$
H-41. FKOTU17
\{Does the bill or statement / Do the bills or statements\} include charges for any other major \{fuel oil / diesel / kerosene\} usage outside the building, such as for kilns, weldings, pumps, or motors?

1 $\qquad$ YES
2 $\qquad$ NO

## SECTION I. DISTRICT STEAM

## BOX 97

Was district steam used in the building?

```
Yes }->\mathrm{ BOX I2
No }->\mathrm{ SECTION J
```


## BOX 98

Does the respondent have Worksheet \#3?

```
Yes }->\textrm{I}-
No }->\mathrm{ I-1
```


## I-1. STFIGS7

The next questions are about district steam usage in this building for calendar year 1999. 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 }->\textrm{I}-
2
```

$\qquad$

``` \(\mathrm{NO} \rightarrow \mathrm{I}-8\)
DK \(\rightarrow\) BOX 103
```


## I-2. STUNIT7

The next questions are about the district steam usage, as found on Worksheet 3 [that's the yellow worksheet].

Look at Box 16, Line A. In what units is your district steam measured? Is it in...
1


4 .............. [IF VOLUNTEERED] SOME OTHER UNIT $\rightarrow$ I-3
DK $\rightarrow$ I-4

I-3. STUNITX7
What are the other units?: $\qquad$

## SECTION I

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## I-4. STCNS7

Please give me the \{total / approximate\} amount of district steam used in 1999. This number is also found in Box 16, Line A.
[** VERIFY NUMBER DIGIT BY DIGIT **]
Enter a numeric value with a maximum of 14 positions: $\qquad$

I-5. STEXP7
Please give me the \{total / approximate\} dollars spent on district steam in 1999. This number is found in Box 16, Line B.
[** VERIFY NUMBER DIGIT BY DIGIT **]
Enter a numeric value between 0 and 999999999: $\qquad$
DK either consumption or expenditures and they don't have Worksheet $3 \boldsymbol{\rightarrow}$ BOX 103
DK either consumption or expenditures and they have Worksheet $3 \rightarrow \mathrm{I}-8$
Consumption and/or expenditures answered $\rightarrow$ I-6

## I-6. STSTDAT7

What is the starting date for these district steam usage figures? This is found in Box 16, Line C.
[ENTER DATE AS MM-DD-YYYY. IF THE DAY IS NOT KNOWN, ENTER "15."] ..-......

## I-7. STENDAT7

What is the ending date? This is also found in Box 16, Line C.
[ENTER DATE AS MM-DD-YYYY. IF THE DAY IS NOT KNOWN, ENTER "15."] ..-..-... $\boldsymbol{\rightarrow}$ I-20

## I-8. STX5K7 $\quad$ "UNFOLDING DISTRICT STEAM EXPENDITURES CATEGORY"

I understand that it may be difficult to give exact figures. However, your consumption can be estimated if you know approximately how much you spent on district steam in 1999.

Would you estimate that the amount of dollars spent on district steam for this building in 1999 was less than 5,000 dollars, about 5,000 , or more than 5,000 dollars?


## I-9. STX2K7

Would you estimate that the amount of dollars spent on district steam [for this building in 1999] was less than 2,000 dollars, about 2,000 , or more than 2,000 dollars?

|  | LESS | $\rightarrow \mathrm{I}-10$ |
| :---: | :---: | :---: |
| 2 | ABOUT | $\rightarrow$ BOX 99 [2] |
| 3 | MORE | $\rightarrow$ BOX 99 [3] |

## I-10. STX5007

Would you estimate that the amount of dollars spent on district steam [for this building in 1999] was less than 500 dollars, about 500 , or more than 500 dollars?

```
1 ...... LESS }->\mathrm{ BOX 99 [1]
2 ...... ABOUT THAT MUCH }->\mathrm{ BOX 99 [1]
3 ...... MORE }\quad->\mathrm{ BOX 99 [2]
```


## DK TO ANY ONE OF THESE

 UNFOLDING QUESTIONS $\boldsymbol{\rightarrow} \mathrm{I}-14$
## I-11. STX20K7

Would you estimate that the amount of dollars spent on district steam [for this building in 1999] was less than 20,000 dollars, about 20,000 , or more than 20,000 dollars?


## I-12. STX50K7

Would you estimate that the amount of dollars spent on district steam [for this building in 1999] was less than 50,000 dollars, about 50,000 , or more than 50,000 dollars?

| 1 | LESS | $\rightarrow$ BOX 99 [5] |
| :---: | :---: | :---: |
| 2 | ABOUT | $\rightarrow$ BOX 99 [5] |
| 3 | MORE | $\rightarrow \mathrm{l}-13$ |

## I-13. STX200K7

Would you estimate that the amount of dollars spent on district steam [for this building in 1999] was less than 200,000 dollars, about 200,000, or more than 200,000 dollars?

|  | LESS | $\rightarrow$ BOX 99 [6] |
| :---: | :---: | :---: |
| 2 | ABOUT | $\rightarrow$ BOX 99 [6] |
| 3 | MORE | $\rightarrow$ BOX $99[7]$ |


| BOX 99 <br> STEXPC7 <br> STM |  |  |
| :--- | :--- | :--- |
|  |  |  |
| 1 | $\$ 1$ to $\$ 500$ |  |
| 2 | $\$ 501$ to $\$ 2,000$ |  |
| 3 | $\$ 2,001$ to $\$ 5,000$ |  |
| 4 | $\$ 5,001$ to $\$ 20,000$ | $\rightarrow$ I-20 |
| 5 | $\$ 20,001$ to $\$ 50,000$ |  |
| 6 | $\$ 50,001$ to $\$ 200,000$ |  |
| 7 | Over $\$ 200,000$ |  |

## SECTION I

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I-14. STC5K7 $\quad$ "UNFOLDING DISTRICT STEAM CONSUMPTION CATEGORY"
Would you estimate that the district steam usage in this building in 1999 was less than 5,000 thousand pounds, about 5,000 , or more than 5,000 thousand pounds?
[IF RESPONDENT HAS THIS ESTIMATE IN A UNIT OTHER THAN THOUSANDS POUNDS, RECORD THE UNIT IN COMMENTS.]

| $1 \ldots \ldots . . . .$. LESS | $\rightarrow \mathrm{I}-15$ |
| :--- | :--- |
| $2 \ldots \ldots \ldots .$. ABOUT THAT MUCH | $\rightarrow$ BOX $100[3]$ |
| $3 \ldots \ldots \ldots .$. MORE | $\rightarrow \mathrm{I}-17$ |

I-15. STC2K7
Would you estimate that the district steam usage [in this building in 1999] was less than 2,000 thousand pounds, about 2,000 , or more than 2,000 thousand pounds?

| $1 \ldots . . .$. LESS | $\rightarrow$ I-16 |
| :--- | :--- |
| $2 \ldots \ldots$. ABOUT THAT MUCH | $\rightarrow$ BOX $100[2]$ |
| $3 \ldots . . . .$. MORE |  |
|  | BOX $100[3]$ |

## I-16. STC1K7

Would you estimate that the district steam usage [in this building in 1999] was less than 1,000 thousand pounds, about 1,000 , or more than 1,000 thousand pounds?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX $100[1]$ |
| :--- | :--- |
| $2 \ldots \ldots .$. ABOUT THAT MUCH | $\rightarrow$ BOX $100[1]$ |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ BOX $100[2]$ |

DK TO ANY ONE OF THESE UNFOLDING QUESTIONS $\rightarrow$ BOX 103

## I-17. STC10K7

Would you estimate that the district steam usage [in this building in 1999] was less than 10,000 thousand pounds, about 10,000 , or more than 10,000 thousand pounds?

| $1 \ldots \ldots .$. LESS | $\rightarrow$ BOX $100[4]$ |
| :--- | :--- |
| $2 \ldots$ | BOX $100[4]$ |
| $3 \ldots \ldots .$. MBOUT THAT MUCH | $\rightarrow$ |

## I-18. STC20K7

Would you estimate that the district steam usage [in this building in 1999] was less than 20,000 thousand pounds, about 20,000, or more than 20,000 thousand pounds?

```
1 ....... LESS }->\mathrm{ BOX 100 [5]
2 ........ ABOUT THAT MUCH }->\mathrm{ BOX 100 [5]
3 ....... MORE }\quad->\mathrm{ I-19
```


## I-19. STC50K7

Would you estimate that the district steam usage [in this building in 1999] was less than 50,000 thousand pounds, about 50,000 , or more than 50,000 thousand pounds?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX $100[6]$ |
| :--- | :--- |
| $2 \ldots$ ABOUT THAT MUCH | $\rightarrow$ BOX $100[6]$ |
| $3 \ldots . . .$. MORE | $\rightarrow$ |

## BOX 100

STCNSC7

1

2
3
4
5
6
7

1 to 1,000 thousand pounds 1,001 to 2,000 thousand pounds 2,001 to 5,000 thousand pounds 5,001 to 10,000 thousand pounds $\rightarrow \mathrm{I}-20$ 10,001 to 20,000 thousand pounds 20,001 to 50,000 thousand pounds Over 50,000 thousand pounds

I-20. STOTBD7
Is any consumption from other buildings included \{in these figures / in this estimate\}?
1 $\qquad$ YES $\rightarrow$ I-21
2 $\qquad$ NO $\rightarrow$ I-22

DK $\rightarrow$ I-22

I-21. STOTSF7
What is the approximate square footage of the other buildings that are included \{in these figures / in this estimate\}?
[** PROBE **]
Enter a numeric value between 1 and 999999999: $\qquad$ $\rightarrow$ BOX 101

I-22. STLOOP7
What is the total square footage of all the buildings on the district loop that serves this building?
[IF THE BUILDING PURCHASES DISTRICT STEAM FROM THE LOCAL UTILITY AND IS NOT ON A DISTRICT LOOP, ENTER "99"]
[** PROBE **]
Enter a numeric value between 1 and 999999999: $\qquad$

BOX 101
Were either the exact consumption or expenditures given (or both)?
Yes $\rightarrow$ BOX 102
No $\rightarrow$ BOX 103

## BOX 102

Was consumption unknown and expenditures zero?
Yes $\rightarrow$ BOX 103
No $\rightarrow$ SECTION J

## BOX 103

Is this building from the 1995 sample and did the building have only one district steam supplier in that survey?

```
Yes }->\textrm{I}-2
No }->\textrm{I}-2
```


## SECTION I

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## I-23. ST95SPV7

Does $\{1995$ supplier name still supply district steam to the building [READ FROM ABOVE]?
1 $\qquad$ YES $\rightarrow$ I-24
2 $\qquad$ $\mathrm{NO} \rightarrow \mathrm{I}-29$

DK $\rightarrow$ SECTION J

## I-24. ST951SP7

Was $\{1995$ supplier name $\}$ the only district steam supplier during $1999 ?$
1 $\qquad$ YES
2 $\qquad$ NO

1-25. STNAC957
How many different district steam accounts does this building have with $\{1995$ supplier name\}?

Enter a numeric value between 0 and 999: $\qquad$

| 0 accounts | $\rightarrow$ BOX 104 |  |
| :--- | :--- | :--- |
| $1-10$ accounts | $\rightarrow$ | I-26 |
| More than 10 accounts | $\rightarrow$ | BOX 106 |

DK $\rightarrow$ BOX 104

I-26. Account Numbers for Accounts With Same Supplier as 1995

FOR EACH ACCOUNT GIVEN IN I-25, ASK:
Please give me the \{first / next\} district steam account number for $\{1995$ supplier name $\}$.
[** VERIFY NUMBER DIGIT BY DIGIT **]

AFTER EACH ACCOUNT FINISHED $\rightarrow$ BOX 104

## BOX 104

Were any consumption or expenditure figures given (exact or categories)?

$$
\begin{aligned}
& \text { Yes } \rightarrow \text { BOX } 106 \\
& \text { No } \rightarrow 1-27
\end{aligned}
$$

## I-27. STOTB957

\{Does the bill or statement / Do the bills or statements\} from \{1995 supplier name\} cover just this building or are other buildings covered as well?

1 $\qquad$ JUST THIS BUILDING $\rightarrow$ BOX 105

2 $\qquad$ OTHER BUILDING(S) $\rightarrow$ I-28

DK $\rightarrow$ BOX 105

## I-28. STOTS957

What is the approximate square footage of the other buildings included on \{the bill or statement / the bills or statements\}?
[** PROBE **]
Enter a numeric value between 1 and 999999999: $\qquad$ $\rightarrow$ BOX 106

## BOX 105

Was 1995 supplier the only supplier of district steam?
Yes $\rightarrow$ I-41
No $\rightarrow$ I-29

## BOX 106

Was 1995 supplier the only supplier of district steam?
Yes $\rightarrow$ SECTION J
No $\rightarrow \mathrm{I}-29$

I-29. STNUMSP7
How many \{different / other\} companies supplied district steam to this building in 1999 ?
Enter a numeric value between 1 and 10: $\qquad$
DK $\rightarrow$ SECTION J

## i-30. District Steam Suppliers (Öther Than 1995 Supplier)

What is the name of the \{first / next\} supplier that provided district steam to this building in $1999 ?$
[START TYPING THE NAME OF THE DISTRICT STEAM SUPPLIER TO SEE THE LOOK-UP TABLE. IF the supplier name does not appear on the list, enter "OTHER".]:

Supplier found in "Look-Up Table" $\quad \rightarrow$ I-37
Supplier not found, "OTHER" entered $\boldsymbol{\rightarrow}$ I-31

1-31. Supplier Name
[ENTER THE NAME OF THE SUPPLIER.]:

I-33. Supplier P.O. Box or Suite Number
Is there a post office box or suite number?
[IF NOT, PRESS ENTER.]:

## I-32. Supplier Street Address

What is the address for \{name of supplier\}, beginning with the street?:

## I-34. Supplier City

What is the city?: $\qquad$

## SECTION I

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I-35. Supplier State
What is the state?
[ENTER THE TWO LETTER ABBREVIATION.]:

I-36. Supplier Zip Code
And what is the zip code?: $\qquad$

I-38. Account Numbers for Suppliers Other Than 1995

FOR EACH ACCOUNT GIVEN IN I-37, ASK:
Please give me the \{first / next\} district steam account number for \{name of supplier\}.
[** VERIFY NUMBER DIGIT BY DIGIT **]

AFTER EACH ACCOUNT FINISHED $\rightarrow$ BOX 107

## BOX 107

Were any consumption or expenditure figures given (exact or categories)?
Yes $\rightarrow$ Back to $\mathrm{I}-30$ for next supplier, or SECTION J if no others
No $\rightarrow$ I-39

## I-39. STOTB17

\{Does the bill or statement / Do the bills or statements\} from \{name of supplier\} cover just this building or are other buildings covered as well?
1
JUST THIS BUILDING $\rightarrow$ BOX 108
2 $\qquad$ OTHER BUILDING(S) $\rightarrow \mathrm{I}-40$
DK $\rightarrow$ BOX 108

I-40. STOTS17
What is the approximate square footage of the other buildings included on the $\{$ the bill or statement / the bills or statements\}?
[** PROBE **]
Enter a numeric value between 1 and 999999999: $\qquad$ $\rightarrow$ BOX 109

## BOX 108

Is this the last supplier?
Yes $\rightarrow \mathrm{I}-41$
No $\rightarrow$ Back to l-30 for next supplier

## BOX 109

Is this the last supplier?
Yes $\rightarrow$ SECTION J
No $\rightarrow$ Back to l-30 for next supplier

1-41. STLOOP2
What is the total square footage of all the buildings on the district loop that serves this building?
[IF THE BUILDING PURCHASES DISTRICT STEAM FROM THE LOCAL UTILITY AND IS NOT ON A DISTRICT LOOP, ENTER "99"]
[** PROBE **]
Enter a numeric value between 1 and 999999999: $\qquad$

## SECTION J

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## SECTION J. DISTRICT HOT WATER

```
                    BOX }11
Was district hot water used in the building?
    Yes }->\mathrm{ BOX J2
    No }->\mathrm{ INTERVIEW COMPLETE
```


## BOX 111

Does the respondent have Worksheet \#3?

```
Yes }->\textrm{J}-
No }->\textrm{J}-
```


## J-1. HWFIGS7

The next questions are about district hot water usage in this building for calendar year 1999. 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 \(\rightarrow\) J-2
2 ..............NO \(\rightarrow\) J-6
```

DK $\rightarrow$ BOX 116

## J-2. HWCNS7

The next questions are about the district hot water usage, as found on Worksheet 3 [that's the yellow worksheet].

Please give me the \{total / approximate\} amount, in million Btu, of district hot water used in 1999. This number is found in Box 17, Line A.
[** VERIFY NUMBER DIGIT BY DIGIT **]
Enter a numeric value with a maximum of 14 positions: $\qquad$

J-3. HWEXP7
Please give me the \{total / approximate\} dollars spent on district hot water in 1999. This number is found in Box 17, Line B.

## [** VERIFY NUMBER DIGIT BY DIGIT **]

Enter a numeric value between 0 and 999999999: $\qquad$
DK either consumption or expenditures and they don't have Worksheet $3 \boldsymbol{\rightarrow}$ BOX 116
DK either consumption or expenditures and they have Worksheet $3 \rightarrow$ J-6
Consumption and/or expenditures given $\quad \rightarrow$ J-4

## J-4. HWSTDAT7

What is the starting date for these district hot water usage figures? This is found in Box 17, Line C.
[ENTER DATE AS MM-DD-YYYY. IF THE DAY IS NOT KNOWN, ENTER "15."] ..-..-....

## J-5. HWENDAT7

What is the ending date? This is also found in Box 17, Line C.
[ENTER DATE AS MM-DD-YYYY. IF THE DAY IS NOT KNOWN, ENTER "15."] ..-..-... $\boldsymbol{\rightarrow}$ J-18

## J-6.

HWX5K7
"UNFOLDING DISTRICT HOT WATER EXPENDITURES CATEGORY"
I understand that it may be difficult to give exact figures. However, your consumption can be estimated if you know approximately how much you spent on district hot water in 1999.

Would you estimate that the amount of dollars spent on district hot water for this building in 1999 was less than 5,000 dollars, about 5,000 , or more than 5,000 dollars?

| $1 \ldots \ldots . . . . .$. LESS | $\rightarrow \mathrm{J}-7$ |
| :--- | :--- |
| $2 \ldots \ldots \ldots .$. ABOUT THAT MUCH | $\rightarrow$ BOX $112[3]$ |
| $3 \ldots \ldots \ldots .$. MORE | $\rightarrow \mathrm{J}-9$ |

## J-7. HWX2K7

Would you estimate that the amount of dollars spent on district hot water [for this building in 1999] was less than 2,000 dollars, about 2,000 , or more than 2,000 dollars?


## J-8. HWX5007

Would you estimate that the amount of dollars spent on district hot water [for this building in 1999] was less than 500 dollars, about 500 , or more than 500 dollars?

| 1 | $\ldots . . .$. LESS | $\rightarrow$ |
| :--- | :--- | :--- |
| 2 | BOX $112[1]$ |  |
| 3 | $\ldots . . . .$. | ABOUT THAT MUCH |

## DK TO ANY ONE OF THESE UNFOLDING QUESTIONS $\rightarrow \mathbf{J}-12$

## J-9. HWX20K7

Would you estimate that the amount of dollars spent on district hot water [for this building in 1999] was less than 20,000 dollars, about 20,000, or more than 20,000 dollars?

```
1 ...... LESS }\quad->\mathrm{ BOX 112 [4]
2 ....... ABOUT THAT MUCH }->\mathrm{ BOX 112 [4]
3 ...... MORE }\quad->\mathrm{ J-10
```


## J-10. HWX50K7

Would you estimate that the amount of dollars spent on district hot water [for this building in 1999] was less than 50,000 dollars, about 50,000 , or more than 50,000 dollars?

|  | LESS | $\rightarrow$ BOX 112 [5] |
| :---: | :---: | :---: |
| 2 | ABOUT | $\rightarrow$ BOX 112 [5] |
| 3 | MORE | $\rightarrow \mathrm{J}-11$ |

## J-11. HWX200K7

Would you estimate that the amount of dollars spent on district hot water [for this building in 1999] was less than 200,000 dollars, about 200,000, or more than 200,000 dollars?

| $1 \ldots \ldots .$. LESS | $\rightarrow$ BOX $112[6]$ |
| :--- | :--- |
| $2 \ldots \ldots$. ABOUT THAT MUCH | $\rightarrow$ BOX $112[6]$ |
| 3 |  |
|  | $\rightarrow$ |
|  | BOX $112[7]$ |

OX 112 [6]
3 ...... MORE $\quad \rightarrow$ BOX 112 [7]

## SECTION J

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BOX 112

## HWEXPC7

| 1 | $\$ 1$ to $\$ 500$ |  |
| :--- | :--- | :--- |
| 2 | $\$ 501$ to $\$ 2,000$ |  |
| 3 | $\$ 5,001$ to $\$ 5,000$ |  |
| 4 | $\$, 001$ to $\$ 20,000$ | $\rightarrow \mathrm{~J}-18$ |
| 5 | $\$ 20,001$ to $\$ 50,000$ |  |
| 6 | $\$ 50,001$ to $\$ 200,000$ |  |
| 7 | Over $\$ 200,000$ |  |

## J-12. HWC5K7 "UNFOLDING DISTRICT HOT WATER CONSUMPTION CATEGORY"

Would you estimate that the district hot water usage in this building in 1999 was less than 5,000 million Btu, about 5,000 , or more than 5,000 million Btu?

```
1 ............ LESS }\quad->\textrm{J}-1
2 ............. ABOUT THAT MUCH }->\mathrm{ BOX 113 [3]
3 ............ MORE }\quad->\textrm{J}-1
```


## J-13. HWC2K7

Would you estimate that the district hot water usage [in this building in 1999] was less than 2,000 million Btu, about 2,000 , or more than 2,000 million Btu?

| $1 \ldots . . .$. LESS | $\rightarrow \mathrm{J}-14$ |
| :--- | :--- |
| $2 \ldots \ldots$. ABOUT THAT MUCH | $\rightarrow$ BOX $113[2]$ |
| $3 \ldots \ldots$. MORE |  |
|  |  |

## J-14. HWC1K7

Would you estimate that the district hot water usage [in this building in 1999] was less than 1,000 million Btu, about 1,000 , or more than 1,000 million Btu?

| $1 \ldots \ldots .$. LESS | $\rightarrow$ BOX $113[1]$ |
| :--- | :--- |
| $2 \ldots \ldots$. ABOUT THAT MUCH | $\rightarrow$ BOX $113[1]$ |
| $3 \ldots \ldots .$. MORE | $\rightarrow$ |
|  | BOX $113[2]$ |

DK TO ANY ONE OF THESE UNFOLDING QUESTIONS $\rightarrow$ BOX 116

## J-15. HWC10K7

Would you estimate that the district hot water usage [in this building in 1999] was less than 10,000 million Btu, about 10,000 , or more than 10,000 million Btu?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX 113 [4] |
| :--- | :--- |
| $2 \ldots \ldots$. ABOUT THAT MUCH | $\rightarrow$ BOX 113 [4] |
| $3 \ldots \ldots$. MORE |  |
|  |  |

## J-16. HWC20K7

Would you estimate that the district hot water usage in this building [in this building in 1999] was less than 20,000 million Btu, about 20,000, or more than 20,000 million Btu?

|  | LESS | $\rightarrow$ BOX 113 [5] |
| :---: | :---: | :---: |
|  | ABOU | $\rightarrow$ BOX 113 [5] |
|  | MORE | $\rightarrow \mathrm{J}-17$ |

## J-17. HWC50K7

Would you estimate that the district hot water usage [in this building in 1999] was less than 50,000 million Btu, about 50,000 , or more than 50,000 million Btu?

| $1 \ldots . . .$. LESS | $\rightarrow$ BOX $113[6]$ |
| :--- | :--- |
| $2 \ldots . . .$. ABOUT THAT MUCH | $\rightarrow$ BOX $113[6]$ |
| $3 \ldots . . .$. MORE | $\rightarrow$ |

## BOX 113

## HWCNSC7

| 1 | 1 to 1,000 million Btu |  |
| :--- | :--- | :--- |
| 2 | 1,001 to 2,000 million Btu |  |
| 3 | 2,00 to 5,000 million Btu |  |
| 4 | 5,001 to 10,000 million Btu | $\rightarrow \mathrm{J}-1 \&$ |
| 5 | 10,001 to 20,000 million Btu |  |
| 6 | 20,001 to 50,000 million Btu |  |
| 7 | Over 50,000 million Btu |  |

## J-18. HWOTBD7

Is any consumption from other buildings included \{in these figures / in this estimate\}?

```
1 ............. YES }->\mathrm{ J-19
2 .............NO -> J-20
DK \ J-20
```


## J-19. HWOTSF7

What is the approximate square footage of the other buildings that are included \{in these figures / in this estimate\}?
[** PROBE **]
Enter a numeric value between 1 and 999999999: $\qquad$ $\rightarrow$ BOX 114

## J-20. HWLOOP7

What is the total square footage of all the buildings on the district loop 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 **]
Enter a numeric value between 1 and 999999999: $\qquad$

## BOX 114

Were either the exact consumption or expenditures given (or both)?

```
Yes \(\rightarrow\) BOX 115
No \(\rightarrow\) BOX 116
```


## BOX 115

Was consumption unknown and expenditures zero?
Yes $\rightarrow$ BOX 116
No $\rightarrow$ INTERVIEW COMPLETE

## SECTION J

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## BOX 116

Is this building from the 1995 sample and did the building have only one district hot water supplier in that survey?

```
Yes }->\textrm{J}-2
No }->\textrm{J}-2
```


## J-21. HW95SPV7

Does \{1995 supplier name\} still supply district hot water to the building [READ FROM ABOVE]?
1 $\qquad$ YES $\rightarrow \mathrm{J}-22$
2 $\qquad$ $\mathrm{NO} \rightarrow \mathrm{J}-27$

## DK $\rightarrow$ INTERVIEW COMPLETE

J-22. HW951SP7
Was $\{1995$ supplier name\} the only district hot water supplier during $1999 ?$
1YES
2 $\qquad$ NO

J-23. HWNAC957
How many different district hot water accounts does this building have with \{1995 supplier name\}?

Enter a numeric value between 0 and 999: $\qquad$

J-24. Account Numbers for Accounts With Same Supplier as 1995

FOR EACH ACCOUNT GIVEN IN J-23, ASK:
Please give me the \{first / next\} district hot water account number for $\{1995$ supplier name $\}$.
[** VERIFY NUMBER DIGIT BY DIGIT **]
-
AFTER EACH ACCOUNT FINISHED $\rightarrow$ BOX 117

BOX 117
Were any consumption or expenditure figures given (exact or categories)?

```
Yes }->\mathrm{ BOX 119
No }->\textrm{J}-2
```


## J-25. HWOTB957

\{Does the bill or statement / Do the bills or statements\} from \{1995 supplier name\} cover just this building or are other buildings covered as well?

1 .............. JUST THIS BUILDING $\rightarrow$ BOX 118
2 .............. OTHER BUILDING(S) $\boldsymbol{\rightarrow}$ J-26
DK $\rightarrow$ BOX 118

## J-26. HWOTS957

What is the approximate square footage of the other buildings included on the \{the bill or statement / the bills or statements\}?
[** PROBE **]
Enter a numeric value between 1 and 999999999: $\qquad$ $\rightarrow$ BOX 119

## BOX 118

Was 1995 supplier the only supplier of district hot water?
Yes $\rightarrow$ J-39
No $\rightarrow \mathrm{J}-27$

## BOX 119

Was 1995 supplier the only supplier of district hot water?
Yes $\rightarrow$ INTERVIEW COMPLETE
No $\rightarrow$ J-27

J-27. HWNUMSP7
How many \{different / other\} companies supplied district hot water to this building in $1999 ?$
Enter a numeric value between 1 and 10: $\qquad$
DK $\rightarrow$ INTERVIEW COMPLETE

## J-28. District Hot Water Suppliers (Other Than 1995 Supplier)

What is the name of the \{first / next\} supplier that provided district hot water to this building in $1999 ?$
[START TYPING THE NAME OF THE DISTRICT HOT WATER SUPPLIER TO SEE THE LOOK-UP TABLE. IF THE SUPPLIER NAME DOES NOT APPEAR ON THE LIST, ENTER "OTHER".]:

```
Supplier found in "Look-Up Table" \(\boldsymbol{\rightarrow}\) J-35
```

Supplier not found, "OTHER" entered $\boldsymbol{\rightarrow} \mathrm{J}$-29

J-29. Supplier Name
[ENTER THE NAME OF THE SUPPLIER.]:
$\qquad$
J-31. Supplier P.O. Box or Suite Number
Is there a post office box or suite number?
[IF NOT, PRESS ENTER.]:

## J-30. Supplier Street Address

What is the address for \{name of supplier\}, beginning with the street?:

## J-32. Supplier City

What is the city?: $\qquad$

## SECTION J

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J-33. Supplier State
What is the state?
[ENTER THE TWO LETTER ABBREVIATION.]:

J-35. HWNAC17
How many different district hot water accounts does this building have with \{name of supplier\}?

Enter a numeric value between 0 and 999: $\qquad$
0 accounts $\quad \rightarrow$ BOX 120
1-10 accounts $\quad \rightarrow$ J-36
More than 10 accounts $\rightarrow$ Back to J-28 if more
suppliers, or INTERVIEW COMPLETE if no others
DK $\rightarrow$ BOX 120

J-34. Supplier Zip Code
And what is the zip code?: $\qquad$

J6. Account Numbers for Suppliers Other Than 1995

FOR EACH ACCOUNT GIVEN IN J-35, ASK:
Please give me the \{first / next\} district hot water account number for \{name of supplier\}.
[** VERIFY NUMBER DIGIT BY DIGIT **]

AFTER EACH ACCOUNT FINISHED $\rightarrow$ BOX 120

## BOX 120

Were any consumption or expenditure figures given (exact or categories)?
Yes $\rightarrow$ Back to J-28 for next supplier, or INTERVIEW COMPLETE if no others No $\rightarrow \mathrm{J}$-37

J-37. HWOTB17
\{Does the bill or statement / Do the bills or statements\} from \{name of supplier\} cover just this building or are other buildings covered as well?

1 ............... JUST THIS BUILDING $\rightarrow$ BOX 121
2 .............. OTHER BUILDING(S) $\rightarrow$ J-38
DK $\rightarrow$ BOX 121

J-38. HWOTS17
What is the approximate square footage of the other buildings included on \{the bill or statement / the bills or statements\}?
[** PROBE **]
Enter a numeric value between 1 and 999999999: $\qquad$ $\rightarrow$ BOX 122

## BOX 121

Is this the last supplier?
$\mathrm{Yes} \rightarrow$ J-39
No $\rightarrow$ Back to J-28 for next supplier


J-39. HWLOOP27
What is the total square footage of all the buildings on the district loop 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 **]
Enter a numeric value between 1 and 999999999: $\qquad$

