

Form Approval OMB No: 1905-0145 Expires: May 31, 1994

U.S. DEPARTMENT OF ENERGY

Commercial Buildings Energy Consumption Survey For 1992 BUILDING QUESTIONNAIRE

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Description of the property of	THE CONTRACTOR OF THE CONTRACT		
BUILDING NAME:	The second secon		_
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INITIAL CONTACT TO DET	ERMINE RESPONDENT	And the second s	
person's name, title and ad	dress at which he or she might	be located?	
in the property of the second	The state of the s		
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LOCATION:		PHONE ()
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Company of the Compan	VIEW - Special and the specia	4.1	
LOCATION: INTRODUCTION TO INTER Hello, I'm for the U.S. Department of	The second secon	FAX # (
LOCATION: INTRODUCTION TO INTER Hello, I'm for the U.S. Department of	from Westat, Inc., a social Energy about energy consum oluntary, we hope you will parti	FAX # (buildings (HAND LETTER).
LOCATION: INTRODUCTION TO INTER Hello, I'm for the U.S. Department of Although your response is to IF ASKED ABOUT CONFID! Any information we collect to and used only for statistical	from Westat, Inc., a social Energy about energy consum oluntary, we hope you will parti	FAX # (buildings (HAND LETTER). study of energy use. puildings will be confidential espondents will not be

BOX 1

	INTERVIEWER OBSERVATION OF BUILDING
1	-1. IS BUILDING A SHOPPING CENTER/MALL, SERIES OF ATTACHED STORAGE UNITS, A BLOCK OF CLASSROOMS OR MOTEL ROOMS?
	YES
	NO2
1	-2. CAN YOU DETERMINE FROM THE LISTING, THE BUILDING TO INTERVIEW?
	YES, THE LISTED STRUCTURE IS CLEARLY IDENTIFIABLE AND SEPARATE FROM ANY OTHER STRUCTURE
	NO2
1	3. FROM YOUR OBSERVATION, THE LISTED STRUCTURE,
	APPEARS TO BE ATTACHED TO ANOTHER LISTED STRUCTURE(S) (RECORD ADDRESS OF OBSERVED ATTACHED STRUCTURE): 1 (A-2)
	APPEARS TO BE ATTACHED TO ANOTHER UNLISTED STRUCTURE(S) (RECORD ADDRESS OF OBSERVED ATTACHED STRUCTURE):
	APPEARS TO BE TWO OR MORE ATTACHED STRUCTURES DESCRIBED BY A SINGLE LISTING LINE (RECORD ADDRESSES OR DESCRIPTIONS OF OBSERVED ATTACHED STRUCTURES):
	IS THREE OR FEWER FREESTANDING STRUCTURES (CONDUCT AN INTERVIEW FOR EACH STRUCTURE)
	IS FOUR OR MORE FREESTANDING STRUCTURES (CALL SAMPLING HOTLINE FOR INSTRUCTIONS)
	COULD BE ONE OF SEVERAL STRUCTURES, CANNOT DETERMINE WHICH ONE (CALL SUPERVISOR FOR INSTRUCTIONS)
	TIME BEGAN:
A. <u>BU</u>	ILDING IDENTIFICATION QUESTIONS
A-1.	First, I need to make sure we have correctly described the building we want you to answer questions about. Our records list the structure as (ADDRESS OR DESCRIPTION FROM LABEL OR LISTING). Is the entire structure owned by the same person or organization?
	YES 1 NO 2 (A-1B)
A-1A.	Are there permanent walls that extend from the ground level to the roof that subdivide (ADDRESS OR DESCRIPTION FROM LABEL OR LISTING) into totally separate structures such as (READ DESCRIPTION FROM 1-3)?
	YES

A-2 LINE (3)

A-2 UNE (4)

The second secon

A-1B.	What are the addresses of the (separate/separate DO NOT HAVE ADDRESSES, OBTAIN DISTINGUED DESCRIBED BY SAMPLED LISTINGUED DESCRIBED BY SAMPLED LISTINGUED DESCRIBED BY SAMPLED LISTINGUED DESCRIBED BY SAMPLED LISTINGUED DES	I GUISHII		
	(1) (2) (3) (4)			(BOX 3 AND CIRCLE 6)
A-2	First, I need to make sure we have correctly de Our records list the structure as (ADDRESS OR or connected to any other structure, such as (R YES	DESCRII EAD THE	PTION FROM LABI EDESCRIPTION(S)	EL OR LISTING). Is that attached
The second secon	What is(are) the attached address(es)? (RECO		And the second s	(ES)):
	S (READ A-2 LINE (1), REPEAT FOR LINE (2) TC.) also owned by the same person or	Ā-3B.	permanent walls to the roof of the OR USTING UN separate it from	"IN A-3A ASK: Are there that extend from the ground level estructure described by (LABEL E DESCRIPTION) which totally the structure described by TC. DESCRIPTION)?
	And the second s		YES	NO
A-2	YES			2
A-2	LINE (2) YES 1		Comments	2

1. 1. 2. 2. 2.4.		
BC ARE ALL A-3B	X 2 ANSV	VERS YES?
ALL "YES"	1	(BOX 3 AND CIRCLE 1)
ALL *NO*	2	(BOX 3 AND CIRCLE 5)
SOME "YES"; SOME "NO"	3	(BOX 3 AND CIRCLE 4)

IF ALL ABOVE ARE "NO" GO TO BOX 3 AND CIRCLE 3.

2

	BOX 3	
INTERVIEW	WILL BE FOR:	
	SAMPLED LISTED BUILDING	7
	EACH SEPARATE FREE STANDING STRUCTURE	2
	THE SEPARATELY OWNED STRUCTURE DESCRIBED BY THE SAMPLED LISTED LINE. CONDUCT ONE INTERVIEW FOR THE SAMPLED BUILDING ONLY	3
	THE STRUCTURE DESCRIBED BY THE SAMPLED LISTING LINE, INCLUDING EACH STRUCTURE THAT IS <u>NOT</u> SEPARATED FROM IT BY A PERMANENT WALL. CONDUCT ONE INTERVIEW FOR ALL PARTS OF THE BUILDING	4
	STRUCTURE CONSIDERED TO BE ONE BUILDING. INCLUDE ALL PARTS OF THE BUILDING	5
	EACH SEPARATE OR SEPARATELY OWNED STRUCTURE DESCRIBED BY THE SAMPLED LISTING LINE	6
BUILDING).	will be asking you will be about the building at (READ ALL ADDRESSES THAT ng, as we have described it, have any other addresses associated with it? YES	DESCRIBE
BUILDING).	ng, as we have described it, have any other addresses associated with it?	DESCRIBE
BUILDING). Does this building	ng, as we have described it, have any other addresses associated with it? YES	
BUILDING). Does this building RECORD VERIF	rig, as we have described it, have any other addresses associated with it? YES	
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BUILDING). Does this building RECORD VERIF	rig, as we have described it, have any other addresses associated with it? YES	STABLISHM

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m EIA-871A (3	/92)			
		Section of the sectio		
What is the	building's ZIP Code? (R	ECORD NINE DIGIT	ZIP CODE IF AVAILA	ABLE)
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	ZIP Code	The second secon		
at more protection of many of the comment				
Section Control of the Control of th	The state of the s	Contract to the Contract to th	10× 5	
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2.15 Resemble 200 (1975) 2.45 Resemble 200 (1975) 2.45 Resemble 200 (1975) 2.45 Resemble 200 (1975) 2.55 Resemble 200 (19	BUILDI	NG ZIP MATCHES LA	BEL: CONTINUE WITH	H INTERVIEW 1
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See Control of the Co	Comments of the Comments of th	IF YOU ARE, CONT	INUE WITH INTERVIEV	v 2
		IF YOU ARE NOT I	DISCONTINUE AND CA	ALL SUPERVISOR 3
	Section 1. The section of the sectio	The state of the s		22 00/ 2////00//
A STATE OF THE STA	mer, gelde, kal	OUARE FEET V 9-8	[FOLD-OUT	PAGE
				CARD A-8. Which category in
estin		total gross square fe	et in this building incl	ARD A-8. Which category in uding all the areas just mention
CIRCLE STATE OF THE STATE OF TH	nation best describes the	total gross square fe ENTER RANGE ON	et in this building incl	
estin CIRC HAND CARD	ation best describes the LE CODE BELOW AND 1,000 SQUARE I	total gross square for ENTER RANGE ON FEET OR LESS	et in this building incl	uding all the areas just mention
HAND-CARD A-B	ation best describes the LE CODE BELOW AND 1,000 SQUARE I 1,001 TO 5,000 S	total gross square for ENTER RANGE ON FEET OR LESS SQUARE FEET	et in this building incl FOLD-OUT PAGE.	uding all the areas just mention 01 02
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estin CIRC Paragraphy of the control	1,000 SQUARE F 1,001 TO 5,000 S 5,001 TO 10,000 25,001 TO 50,00	total gross square for ENTER RANGE ON FEET OR LESS SQUARE FEET SQUARE FEET 0 SQUARE FEET	et in this building incl FOLD-OUT PAGE.	01 02 03 INTERVIEWER: REMEMBER THAT 1,0 SQUARE FEET IS
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			2014.0		
		15 4 7 4 9 9954 759 71	BOX 6		
		IS A-7/A-8 GREATER TH			
				2 (TERMINATE)	
		This completes the inte	rview. Thank y	ou for your time and help.	
		TIME ENDED:	<u> </u>		
A-9 .		basements, floors that may be users are in the tallest section of the		garage, or any other floors belo	। ow ground level, ਇਹਆ
				>	AND THE PERSON NAMED IN TH
		# OF FLOORS		RECORD ON FOLD-OU IF ONE FLOOR, A-10.	T PAGE, THEN:
	D	ONT KNOW	998 (A-12)	IF MORE THAN ONE F	LOOR, A-11.
A-10.	ASK IF O	NLY ONE FLOOR: Is any portion	of this floor be	low ground level?	
		ES			
A-11.	ASK IF Mi	ORE THAN ONE FLOOR: How are partially below ground level.	many of these f	loors are below ground level?	Please include any
	_	# FLOORS BELOW GROUND			
	D	ON'T KNOW	998		
A-12.	When was	s the construction of the major 1?	or largest por	tion of the (A-7/A-8 SQUARE	: FEET) square feel
		YEAR	>	RECORD ON FOLD-OU	
				IF COMPLETED IN 1992, A	
	DON'T KN	IOW	9-8 (A-14)	IF COMPLETED 1987 TO IF COMPLETED BEFORE	
A-13.	In what m	onth of 1992 was the building firs	et open for occi	IDancv?	The state of the s
A-10.	111 WIRAL III	Onthi or 1992 was the building his	(B-1)	aparito y .	
		MONTH	(,		
	DON'T KA	IOW/	0-9 (R.1)		

			stimation, which category contains	the year the largest
portion	of the building w	as completed?		RECORD ON FOLD-OUT PAGE
CARD A-14	1900 - 1919 1920 - 1945 1946 - 1959	01 02 03 04 05	1970 - 1979 1980 - 1986 1987 - 1989 1990 - 1992 DON'T KNOW	. 07 . 08 (B-1) . 09 (B-1)
		nsion (addition) or reduct 6? CIRCLE ONE.	ion (deletion) to the gross total sq	uare feet of this building
The second secon		1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1		
PO No. 10 Property of the Control of	YES. AN	I EXPANSION (ADDITION		, 1
The delication of the second o	Market T. State Co. Co. Co.	ロードをデーストライスの中央連続機能を開発する。 かんたん		
Service Control of the Control of th				
The second secon		The same of the sa		(= 2,
A-16. How la	rge, in square fee	et, was this (expansion/red	duction)?	
and section of the	DIMER TO SERVICE AND THE SERVI	Parameter (America)		
and the contract of the contra			SQUARE FEET	
The second secon		2012 - 20		• •
		DUN	T KNOW	. 9- 8
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		Company and the company of the compa		
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		K AT THE LABEL ON THE F HE BUILDING FROM THE 15		
	Print B. State in the state of		180X 8/	
			2 (B-1)	
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	Service of the Control of the Contro		1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	
		Maria Bara (B. 18)	- 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (
			Learning to Applicate Company	
		A Control of the Cont	The first investment of the second of the se	
10 mm - 20 mm			Company of the compan	
		New Action (1) for	The state of the s	
	Control of the contro		10 10 10 10 10 10 10 10 10 10 10 10 10 1	
			And the second s	

	BOX 8		
CHECK QUESTIONS A-7/A-			
OUT PAGE, ARE THEY THE THE FOLLOWING?	SAME AS	1986 ON FOL	D-OUT PAGE FOR
THE FOLLOWING?			
		• • •	UNABLE TO
	YES	NQ	COMPARE
SQUARE FEET	1	2	8
NUMBER OF FLOORS	1	2	8
YEAR CONSTRUCTED	1	2	8
ARE THE SQUARE FEET/NUMBER O	F FLOORS/	EAR CONST	RUCTED:
ALL ANSWERED YES OR			
<u>UNABLE TO COMPARE</u>			1 (B-1)
ONE OR MORE NO	<i></i>		2

A-17.	time, the	view was conducted for (ADDRESS OR DESCRIPTION FROM LABEL OR LISTING) is constructed (square feet/number of floors/year constructed) was (READ 1986 VALUE FROM Tould you please explain the difference? (RECORD EXPLANATION VERBATIM)	

BOX 9	
ARE YOU AT THE SAME ADDRESS AS DESCRIPTION FROM LABE OR LISTING?	L
YES1 (CONTINUE INTERVIEW)	
NO2 (DISCONTINUE INTERVIEW AND CALL SUPERVISOR.)	
,,	

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The second secon

B. PRINCIPAL BUILDING ACTIVITIES

B-1.	INTERVIEWED. BEFORE ASKING QUESTION B 2 CODE BEST
	INTERVIEWER: BEFORE ASKING QUESTION B-2, CODE BEST DESCRIPTION BASED ON YOUR OBSERVATION. (CIRCLE ONE)

B-2. In the next few questions, we are trying to define the principal activity in this building. By activity, we mean what the building is used for. Here is a card that shows how building activities are categorized for this study. Considering all of the (A-7/A-8 SQUARE FEET) square feet in this building, would you estimate that 75 percent or more of this space (is used for/is) (INTERVIEWER OBSERVATION)?

		i i		
	ACTIVITY	CIRCLE ONE	YES	NΩ
a .	VACANT	01	1 (B-5a)	2 (8-3)
b.	OFFICE/PROFESSIONAL	02	1 (B-7)	2 (8-3)
c.	SHOPPING CENTER/MALL/RETAIL/SERVICE	03	1 (B-7)	2 (8-3)
d.	LABORATORY	04	1 (B-7)	2 (8-3)
6.	NON-REFRIGERATED WAREHOUSE OR STORAGE	05	1 (B-7)	2 (B-3)
f.	FOOD SALES (SUCH AS GROCERY STORES)	06	1 (8-7)	2 (B-3)
g.	PUBLIC ORDER AND SAFETY	07	1 (B-7)	2 (B-3)
h.	OUTPATIENT HEALTH SERVICES/CLINIC	08	1 (B-7)	2 (B-3)
i.	INDUSTRIAL PROCESSING AND MANUFACTURING (IF ANY RETAIL ACTIVITY, CODE AS OTHER AND DESCRIBE)	09	1 (B-6)	2 (B-3)
j.	AGRICULTURAL PURPOSES (IF ANY RETAIL ACTIVITY, CODE AS OTHER AND DESCRIBE)	10	1 (B-6)	2 (13-3)
κ.	REFRIGERATED WAREHOUSE OR STORAGE	11	1 (B-7)	2 (B-3)
۱.	RELIGIOUS WORSHIP (E.G. CHURCH, SYNAGOGUE, OR MOSQUE)	12	1 (B-5i)	2 (8-3)
m.	PUBLIC ASSEMBLY	13	1 (B·5m)	2 (B·3)
n.	EDUCATION (CLASSROOM BUILDING)	14	1 (B-5n)	2 (B-3)
	FOOD SERVICES (RESTAURANTS)	15	1 (B-5o)	2 (B-3)
 o.	HOSPITAL/INPATIENT HEALTH SERVICES	16	1 (B-5p)	2 (B-3)
۹.	SKILLED NURSING/OTHER RESIDENTIAL CARE (NURSING HOME)	17	1 (B-5q)	2 (8-3)
	HOTEL/MOTEL/DORM, ETC.	18	1 (B-5r)	2 (B-3)
3.	RESIDENTIAL (LIVING QUARTERS WITH KITCHEN)	19	1 (B-6)	.2 (B-3)
	INDOOR ENCLOSED PARKING GARAGE	20	1 (B-7)	2 (B-3)
1.	OTHER (SPECIFY):	21	1 (B-7)	2 (8-3)
	(E.G. "RETAIL STORE IN A PRINT SHOP" OR "AIRCRAFT HANGAR	n L		

B-3.

Please tell me which activities occupy space in this building.

CIRCLE ALL ACTIVITIES MENTIONED B-4, Of the (A-7/A-8 SQUARE FEET) squere feet in this building, approximately what percentage of space does this activity occupy? TOTAL SHOULD EQUAL 100%

		The second of th	Microsoft Anna Control of the Contro
٥.	01		B-5. a. IF 50% OR MORE VACANT, ASK: What was this vacant space previously used for?
b.	02		STREET, D. T.
c.	03	**************************************	OR IF NEVER USED: What was this space intended to be used for?
d.	04		(2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3
6.	05	Control of the Contro	George Control
f.	06	Ball of Programmer (1997) and the Control of Pro	Triblem and the Control of the Contr
g.	07	The second construction of the second constructi	(GO TO B-7)
h.	08		The state of the s
i.	09	% IF 50% OR MORE, GO TO 8-6.	
j.	10	% IF 50% OR MORE, GO TO B-6.	To graph of the control of the contr
k.	11	AND THE STATE OF T	
I.	12	Section of the sectio	What is the total seating capacity of religious worship areas of the building? SEATS
m.	13	The second of th	m. What is the fixed seating capacity of public assembly areas of the building? SEATS
n.	14	The state of the s	n. How many students can be seated in all of the classrooms in the building at one time? STUDENTS
٥.	15	>	o. What is the total seating capacity of the food service areas of the building?SEATS
p.	16	>	p. What is the licensed bed capacity of the building? BEDS
q.	17		g. What is the licensed bed capacity of the building? BEDS
r.	18	>	7. How many guest rooms are there in the building? ROOMS
s.	19	% IF 50% OR MORE, GO TO B-8.	
t,	20		AFTER COMPLETING ALL B-4 AND B-5
u.	21	•	QUESTIONS GO TO B-7

IF INEL	IGIBLE TERMINATE:			
B-6.	This completes the interview.	Thank you very much for your time and help.	TIME END:	

		COLUMN B
B-7. Now I am going to ask you some questions about some of the ways that space may be used in this building. Previously you told me that this building contains (INSERT A-7/A-8 SQUARE FEET) square feet. Thinking about all the square footage in this building, please tell me if any space in this building is used: FEATURE		IF "YES" IN COLUMN A: What is your best estimate of the percent of the floorspace used for (FEATURE)
for commercial food preparation and serving such as kitchens, steam tables and warming areas? YES	>	<u> </u>
as computer room(s) with separate air conditioning system(s)? YES	>	<u> </u>
any use that requires special ventilation equipment, such as laboratories or "clean rooms"? YES	>	%
any activities requiring large amounts of hot water such as a commercial laundry room, heated pool, spa, sauna, steam room? YES	>	<u> </u>
any other function that requires large amounts of energy, such as an ice-skating rink? YES	>	

A Company of the Comp	The second secon	to-to-minals in this huilding?	(Persona
B-8. Are there any pe	ersonal computers and/or	computer terminals in this building?	(1 6130110
Computers are a	ilso known as PCs.)		

YES		1
NO	the boundary of the second	2 (C-1)
DON'T KNO	w Profile	8 (C-1)

B-9. Which category in your estimation best describes the number of PCs and/or computer terminals in this building? CIRCLE ONLY ONE.

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100-249		0
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500-999 .	A Control of the Cont	0
1,000-2,499		0
2,500-4,999		1
5,000 or m	ore	1
DON'T KN	∩W	9

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C. - ENERGY SOURCES AND END USES

C-1. Here is a list of various types of fuels or energy sources. During calendar year 1992 which of these fuels or energy sources will have been used to supply energy to this building?

Н		
C		

ELECTRICITY
NATURAL GAS

FUEL OIL, DIESEL OR KEROSENE

BOTTLED GAS, LPG OR PROPANE

DISTRICT STEAM PIPED INTO THE BUILDING FROM A CENTRAL PLANT OR UTILITY

DISTRICT HOT WATER PIPED INTO THE BUILDING FROM A CENTRAL

PLANT OR UTILITY

DISTRICT CHILLED WATER PIPED INTO THE BUILDING FROM A CENTRAL PLANT OR UTILITY

WOOD

COAL

PHOTOVOLTAIC CELLS (PVCs) THAT CONVERT SUNLIGHT DIRECTLY INTO

ENERGY

SOLAR THERMAL PANELS THAT USE SUNLIGHT TO HEAT FLUIDS

FOR EACH ENERGY SOURCE MENTIONED, PLACE A CHECK (√) IN COLUMN C-1 ON THE FOLD-OUT PAGE

C-2. In addition to (NAMES OF ENERGY SOURCES IN C-1), are there any other energy sources used in this building?

YES 1 ---> RECORD ON FOLD-OUT PAGE

C-3. Of the energy sources you just mentioned:

RECORD ON FOLD-OUT PAGE

- a. Which is used as the main energy source for heating: that is, the energy source used to heat most of the square footage in this building most of the time?
- b. Which other energy sources, if any, are used for heating?

Which, If any, of the energy sources you just mentioned are used:

- c. For air-conditioning?
- d. For domestic hot water heating?
- For commercial or institutional cooking or food serving?
- f. For manufacturing or any other type of industrial activity?
- g. To generate electricity?

(CHECK ALL THAT APPLY)

BOX 10

SCAN THE FOLD-OUT PAGE. DOES EACH REPORTED ENERGY SOURCE, OTHER THAN ELECTRICITY, HAVE AT LEAST ONE END-USE REPORTED?

C-4.	How is (ENERGY SOURCE WITHOUT END-USE) used in the building (during	calendar year 1992)? IF
	OTHER END-USE APPEARS ON THE FOLD-OUT PAGE, RECORD ON FOLD-OUT PAGE, IF NOT, SPECIFY HERE, AND GO TO BOX 11.	RECORD ON FOLD-OUT PAGE AND GO TO BOX 11.
	BOX 11 SCAN THE FOLD-OUT PAGE. HAS AT LEAST ONE BOX BEEN CHECKED IN EAC	CH C-3 COLUMN?
	YES	21
C-5.	What energy source is used for (END-USE) (during calendar year 1992)?	RECORD ON FOLD-OUT PAGE AND GO TO BOX 12.
	BOX 12	
	SCAN THE FOLD-OUT PAGE. DOES THE BUILDING HAVE AT LEAST ONE FUE	EL FOR HEATING?
	YES	
C-6.	Could this building switch to a different main heating fuel within one week's tin reducing the area heated or the temperature maintained in the heated area?	ne without substantially
	YES	

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			witch the main heating				uels would be	e ı
instea	d of (ENE	RGY SOUR	CE FROM C-3 column	a)? CIRCLE	ALL THAT A	PPLY.		
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			RICT STEAM					
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_Are ar	ny of thes	e technologi		this building?	CIRCLE ALL	. THAT AF		ent
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The Contract The Contract	Proceedings of the control of the co	100 BOX 13		
	SCAN COLUMN	A OF C-3 ON THE FOLDOUT PAGE. D	OES THIS BUILDING HA	AVE AN
	ENERGY SOURC	E FOR HEATING CHECKED?		
		The state of the s	. AL DACE 301	
	International Control of the Control of	2 ISKIP TO BOX 14	ON PAGE 20)	
		of the (A-7/A-8 SQUARE FEET) square	n faat in thie huilding is	s heated to at least 500
- 4	ahrenheit during d	calendar year 1992? Be sure to includ	e basements and encl	osed garages if they are
	eated to at least 5	50 degrees.		
	The control of the co	データーの関連を表現しています。 ・ 大学 (1984年) - 1984年 - 198	<u> </u>	(D-3)
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2,	Here is a list of ra	nges. What is your best estimate of that ahrenheit during calendar year 1992)?	e percent of heated sq	uare feet in this building
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ragi ayasta	To be a second	a. 25 PERCENT OR LESS		
	HAND CARD	b. 26 TO 50 PERCENT	2	
	BLUE	c. 51 TO 75 PERCENT		
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IN	TERVIEWER:	The state of the s		
	INTENT IS	TO DETERMINE THE PERCENTAGE	HEATED FOR HUMAN	OCCUPANCY.
	The first terms of the second			
SAT SECTION OF THE SE	INGEUDE /	ALL PARTS OF THE BUILDING HEAT	ED TO AT LEAST 50 L	EGREES.
		ask you some questions about how		
	ask about the over of heating and co	rall heating and cooling system. Then,	, I will ask a few question	ons about specific types
Control Systems	And Company of the Co		To go come on the control of the con	
Name Andrewstrational de-		scribe the overall system that is used t		is building.
	Security of the security of th	and or special confidence of the confidence of t		
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		TOTAL CONTROL	- g/100274/9210200	 -

COLUMN A D-4. Here is a card listing different types of specific equipment that may be part of the building's heating system and that you may or may not have mentioned in your description. Does this building use: HAND CARD **D-4** ASK ABOUT EACH FEATURE IN THIS COLUMN BEFORE GOING TO COLUMN B. **FEATURE** YES NO DK 2 1 8 a. Heat pumps? (These are devices that heat the interior of a building by absorbing heat from the outside air. They may stand alone or be combined with another type of equipment. In warmer weather, they can also be used to cool a building.) b. Furnaces that heat air directly, without using steam or hot water? 1 2 8 (Similar to a residential furnace.) 2 c. Individual space heaters, free standing or mounted in walls, cellings, or 1 8 windows? (This includes portable heaters, hanging unit heaters, heating panels, electric baseboards, perimeter heaters that contain heating elements, wood stoves, and fireplaces.) 2 8 d. District steam or hot water piped in from outside the building? Hot water does not include domestic hot water used for cooking and deaning. e. Boilers inside the building that produce steam or hot water? (Also 2 8 1 include boilers just outside the building that are primarily associated with it.) f. Packaged heating units, often mounted on the roof or on a slab beside 1 2 8 the building? (These are known as self-contained units. They contain heating equipment as well as fans, and may or may not include air conditioning equipment.) 2 В g. Some other heating equipment? (SPECIFY): 1 BUILDING IS HEATED BUT RESPONDENT DOESN'T KNOW ANY EQUIPMENT TYPE. CHECK THIS BOX AND SKIP TO BOX 14 ON PAGE 20; OTHERWISE GO TO COLUMN B)

BE SURE THAT AT LEAST ONE HEATING SYSTEM IN ROWS "a" THROUGH "a" IS MARKED IN COLUMN A BEFORE GOING TO COLUMN B.

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A STATE OF THE STA	The second secon		Control of the contro		
COLUMN B		COLUI	MN C		
D-5. ASK ABOUT ALL FEATURES WITH A "YES" IN COLUMN A BEFORE GOING TO COLUMN C: Thinking of the heated floorspace In the building, what percent is heated by the (FEATURE)?	Please select the n (FEATURE) is distr	EATURE WITH A "YES" nethod or methods tha ibuted throughout the	t best describe how	the heat fro	
The second secon	STEAM OR HOT WATER RADIATORS OR BASEBOARDS	FORCED AIR THROUGH VENTS (DUCTS) OR AIR HANDLING UNITS	FAN-COIL UNITS WITHOUT VENTS (DUCT)	OTHER	DON'T KNOW
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TOTAL SHOULD ADD UP TO	And the second s	Company Comp	Common and American A		
AT LEAST 100%	**************************************	100 100	And the second of the second o		

INTERVIEWER: IF DISTRICT STEAM OR HOT WATER IS PIPED IN FROM OUTSIDE THE BUILDING THERE IS PROBABLY NO BOILER IN THE BUILDING.

MANY PEOPLE USE THE WORDS "BOILER" AND "FURNACE" INTERCHANGEABLY. BE CAREFUL THAT THE DEFINITION IS HEARD.

	BOX 14 CAN COLUMN C OF C-3 ON THE FOLDOUT PAGE. DOES THIS BUILDING HAVE AT LEAST ONE ENER DURCE FOR AIR CONDITIONING CHECKED?	GY
	YES	
D-7.	What percentage of the (A-7/A-8 SQUARE FEET) square feet in the building is cooled by air-conditioning equipment (during calendar year 1992)?	
	% (D-9)	
	DON'T KNOW 998	
D-8.	Here is a list of ranges. What is your best estimate of the percent of the square feet in this building that is cooled by air-conditioning equipment (during calendar year 1992)?	

CARD BLUE

HAND

 a. 25 PERCENT OR LESS
 1

 b. 26 TO 50 PERCENT
 2

 c. 51 TO 75 PERCENT
 3

 d. 76 TO 100 PERCENT
 4

 e. DON'T KNOW
 8

INTERVIEWER:

THE TERM AIR CONDITIONING REFERS TO THE REMOVAL OF HEAT FROM THE AIR THROUGH THE USE OF REFRIGERATION EQUIPMENT.

THE CIRCULATION OF AIR BY FANS IS NOT CONSIDERED AIR-CONDITIONING.

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- Astronophic

COLUMN A

D-9. Here is a card listing different types of specific equipment that may be part of a building's cooling system and which you may or may not have mentioned in your earlier description.

HAND CARD D-9

Does this building use:

ASK ABOUT EACH FEATURE IN THIS COLUMN BEFORE GOING TO COLUMN B.

	FEATURE	YES	NO	DK
а	Residential type central air conditioners, other than heat pumps, that cool air directly and circulate it without using chilled water? (They may be found either alone or in combination with a boiler or furnace.)	1	2	8
b	Heat pumps for cooling? (These are devices that can also be used for heating in cooler weather by absorbing heat from the outside air. They may stand alone or be combined with another type of equipment.)	1	2	8
C.	Individual room air-conditioners mounted in a window or wall?	1	2	8
d.	District chilled water piped in from outside the building?	1	2	8
e.	Central chillers inside the building that chill water for air conditioning? (Also include chillers just outside the building that are primarily associated with it.)	1	2	8
f.	Packaged air conditioning units, often mounted on the roof or on a slab beside the building? (These are known as self- contained units, or Direct Expansion (DX). They contain air conditioning equipment as well as fans, and may or may not include heating equipment.)	1	2	8
g.	"Swamp" coolers (Evaporative Coolers)?	1	2	8
h.	Some other cooling equipment?	1	2	8
	SPECIFY:			
_	BUILDING AIR-CONDITIONED BUT RESPONDENT DOES NOT KNOW EQUIPMENT TYPE. CHECK THIS BOX AND SKIP TO			
	-i			

BE SURE THAT AT LEAST ONE COOLING SYSTEM IN ROWS "a" THROUGH "h" IS MARKED IN COLUMN A BEFORE GOING TO COLUMN B

COLUMN B		COLUMN C		
D-10. ASK ABOUT ALL FEATURES WITH A "YES" IN COLUMN A BEFORE GOING TO COLUMN C: Thinking of the cooled floorspace in the building, what percent is air-conditioned by (FEATURE)?	Please select the r the (FEATURE) is	EATURE WITH A "YES" IN nethod(s) that best describ distributed throughout the RCLE ALL THAT APPLY.	es how the air-	
	FAN-COIL UNITS WITHOUT VENTS (DUCTS)	FORCED AIR THROUGH VENTS (DUCTS) OR AIR HANDLING UNITS	OTHER	DON'T KNOW
8. %		2	3	8
b.		2	3	8
C. %		######################################		
d. (2000) 1000 (10		2	3	8
Section 1. The section of the sectio	1	2 Marin San San San San San San San San San Sa	3	8
		2	3	8
The control of t		2	3	. 8
h. 26	The second secon	2	3	8
TOTAL SHOULD ADD UP TO AT LEAST 100%				

INTERVIEWER: IF DISTRICT CHILLED WATER IS PIPED IN FROM OUTSIDE THE BUILDING THERE IS PROBABLY NO CHILLER IN THE BUILDING.

D-12.	Is there any commercial refrigeration or freezer equipment present in this building?
	YES
	INTERVIEWER: THIS INCLUDES EQUIPMENT OUTSIDE, IF ADJACENT TO THE BUILDING.
D-13.	Are there any refrigerated and/or freezer walk-in units in this building?
	YES
D-14.	How many of these walk-in units are there?
	UNITS
	DON'T KNOW 98
D-15.	In this building, are there any refrigeration and/or freezer cases or cabinets other than walk-ins for the sale, display or storage of perishable materials, such as food or medical supplies?
	YES
Γ	

	COLUMN A		COLUMN B	COLUMN C		
D-16.	Other than walk-in units, are any of these commercial sales, display or storage cases or cabinets: READ ACROSS EACH ROW, THEN DOWN	D-17.	IF "YES" IN COLUMN A, ASK: How many units are there?	D-18.	IF "YES" IN COLUMN A, ASK: Approximately how many linear feet of (D-16 EQUIPMENT TYPE) cases or cabinets are there in this building?	
a.	Open (without doors or with only flexible covers)? YES	a	UNITS ON'T KNOW 9-8	a	LINEAR FEET ON'T KNOW 9-8	
b.	Closed (with doors)? YES	b	UNITS ON'T KNOW 9-8	b	LINEAR FEET ON'T KNOW 9-8	

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D-19:33.3 Here heati	is a listing of ng system?	types of w	ater heating s L THAT APP	iystems. H LY)	low would y	ou best describ	e this build	ling's water
And the second s	A CENTR	ALIZED SYS	STEM (WHER	E ALL WA	TER HEATIN	G IS PERFORM	MED IN ON	IE PLACE):
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D-19			WS HEAT FR			ING	2	
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E.	BUILDING	OWNERSHIP	AND OCCUPA	NCY C	HARACTER	ISTICS

The next few questions are about the ownership and occupancy of the building.

E-1. Is this building owned by: CIRCLE ONLY ONE.

Γ	HAND
١	CARD
	E-1

a. a federal government agency?
b. a state government agency?
c. a local government agency?
d. one of the following types of privately-owned utility companies: railroad, oil pipeline, electric, gas, telephone, or TV cable?
e. a church, synagogue, or other religious organization or group?
5
f. any other type of individual or

business or non-profit organization)? 6

E-2. By "occupancy", we mean to hold or lease space on a full-time basis. Is any part of this building occupied by: CIRCLE ONE RESPONSE ON EACH LINE.

group? (such as a private

HAND CARD E-2

		YES	NO	<u>DK</u>
a.	a federal government agency?	1	2	8
b.	a state government agency?	1	2	8
C.	a local government agency?	1	2	8
d.	one of the following types of privately-owned utility companies: railroad, oil pipeline, electric, gas, telephone, or TV cable?	1	2	8
e.	a church, synagogue, or other religious organization or group?	1	2	8
f.	any other type of individual or group (such as a private business or non-profit organization)?	1	2	8
g.	building is completely vacant?	1	2	8

ri Bild i nyffyfdagrioù Schri Handych franchis Frank	######################################	
The state of the s	building part of a multibuilding facility or complex? By a multibuilding facil	ity or complex,
E-3. Is th	nean a group of two or more buildings on the same site owned or operat	ed by a single
W9 f	nean a group of two or more buildings on the same site office of the	
orga	nization, business or individual.	
n na saakk Skitzakianuk 2		RECORD ON
n or in a good skill distribution of high second	YES	FOLD-OUT PAGE
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E-4. Wha	it is the primary business, commerce, or function carried on in this multibut	y taomiy o
CON	plex? CIRCLE ONLY ONE.	
and the second s	######################################	
	SCHOOLS:	
	PRIMARY OR SECONDARY SCHOOL	
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Service Commence of the Commen	DEPOTS, AIRPORTS)	
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and Selection Control of the	AGRICULTURAL	
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of the state of th	SERVICE AND CONTROL OF THE CONTROL O	
Constitution of the consti		
P. K. a. St. St. Market St. St. St. St. St. St. St. St. St. St	The state of the s	
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182 (ed distribution distribution)	The second secon	
The second secon	The state of the s	
The state of the s	The second of th	
	現場を見なる。1972年1月17日 - 1972年1月18日 - 1972年1月1	

E-5.		ts different ways businesses or organizations can occupy a building. (By book hold or lease space on a full-time basis.) Please tell me which category uilding. RECORD ON FOLD-OUT PAGE
	HAND	a. ONE BUSINESS OR ORGANIZATION AND THE OCCUPANT IS:
	CARD E-5	1. THE OWNER OR OWNER'S REPRESENTATIVE 1 (E-8)
		2. NOT THE OWNER OR OWNER'S REPRESENTATIVE
		b. MORE THAN ONE BUSINESS OR ORGANIZATION AND THE OCCUPANT(S):
		3. INCLUDE THE OWNER OR OWNER'S REPRESENTATIVE
		4. DO NOT INCLUDE THE OWNER OR OWNER'S REPRESENTATIVE
		c. CURRENTLY UNOCCUPIED
E -6.	(Including the owner currently occupy the	RECORD ON (E-8) FOLD-OUT PAGE
		NUMBER OF BUSINESSES OR ORGANIZATIONS
		DON'T KNOW
E-7.		is card gives your best estimate of the number of businesses or occupying the building?
	HAND CARD E-7	2 - 5
E-8.		ouilding been vacant or unoccupied for at least 3 consecutive months 92? Please include your expectations for the rest of the year.
		YES

GOLUMN A	Control Contro	COLUMN B	COLUMN C				
E-9. Please indicate which months during 1992 that this building or part of this building was vacant. Please include your expectations for the rest of the year. GIRCLE ALL THAT		ASK FOR EACH MONTH CIRCLED IN COLUMN A E-10 What is your best estimate of the percent of (A-7/A-8 SQUARE FEET) that was vacant during (MONTH)?	ASK ONLY IF THE ANSWER TO COLUMN B IS "DON'T KNOW". HAND CARD BLUE E-11. Please indicate the range that best describes the vacant floorspace during (MONTH).				
100-0000000000000000000000000000000000		The second secon	0- 25%	26- 50%	5 1- 75%	76- 100%	DONT
JANUARY TO THE TOTAL TO THE TOT	01	% DON'T KNOW 998>	1	· · · · · · · · · · · · · · · · · · ·	3	4	8
FEBRUARY THE PROPERTY OF THE	02	% DON'T KNOW 998>	1		3	4	8
MARCH MORPHEN TO THE STATE OF	. 03		1	2	3	4	8
APRIL CONTROL OF THE PROPERTY	04	% DON'T KNOW 998>	1	2	3	4	8
September of the septem	. 05	% DON'T KNOW 998>	1	2	3	4	8
JUNE ALL TELLS	06	% DON'T KNOW 998>	1	2	3	4	8
JULY 	07	% DONT KNOW 998>	1	2	3	4	8
AUGUST	08	% DON'T KNOW 998>	1:3	2	3	4	8
SEPTEMBER	. 09	% DON'T KNOW 998>	1	2	3	4	8
OCTOBERS.	indistru.	% DON'T KNOW 998>		2	3	4	8
NOVEMBER	1107 1007	% DON'T KNOW 998>		2	3	4	8
DECEMBER	770 to			"RUMANUM 2	3	. 4	8
The second secon		The second secon					

E-12. How n	nany months out of the past 12 n	nonths was th	is building i	n use?		
		NU	JMBER OF	MONTHS		
		12 MONT DON'T KN	OW		. 98 (E-14)	
THE W	the building is in use, what are the building is in use, what are the left AND RECORD THE OPERANT for buildings that are open 24 ure times of most of the occupant	TING HOURS	BE SURE	TO CIRCLE	AM OR PM	1.
DAY	OPERATING HOURS	OPEN 24 HRS. (√)	NOT OPEN (√)	HOURS VARY (V)	OR>	HOURS VARY BY SEASON
Monday?	AM AM toPM PM					(E-14)
Tuesday?	AM AM toPM PM				·	
/ednesday?	AM AM to					
Thursday?	AM AM to PM PM					
Friday?	AM AN toPM PM					
Saturday?	AM AM to PM PM					
Sunday?	AM AM					
	INTERVIEWER REMEMBER:	MID	NOON = NIGHT =	12:00 PM 12:00 AN		

endered transport	The state of the s	HOURS	(E-16)
The state of the s	Control of the Contro	DON'T KNOW	9-8
	ry on the card best describes t	the number of opera	ting hours per week fo
the building	when it is in use?	THE STATE OF THE S	
	1-39 HOURS	digenome Profession Wilderstoon	
HAND .	40-48 HOURS		2
E-15	49-60 HOURS		3
	61-84 HOURS	Section 1	
Published a large communication of the communicatio	85-167 HOURS		
Proposition of the control of the co	OPEN CONTINUOUSLY	Angelwarin	6 (E-18)
	DONT KNOW	Acceptance of the second of th	
Carrier Course	The state of the s	Control of the Contro	
Percentage Property	A CONTROL OF THE CONT	BOX 16	
AND	Para de la companya d	BUX 10	

COLUMN Á	COLUMN B		
ASK ABOUT EACH FEATURE IN THIS COLUMN BEFORE GOING TO E-17 COLUMN B.	FOR EACH FEATURE WITH A "YES" IN COLUMN A, ASK:		
E-16. Are there additional hours during the week when most of the:	E-17. Approximately how many additional hours per week is the (INSERT FEATURE) in use?		
a heating and/or cooling equipment is in use? YES	ADDITIONAL HOURS/WEEK DON'T KNOW 9-8		
Description of the Control of the Co	ADDITIONAL HOURS/WEEK DON'T KNOW 9-8		

E-18. My next few questions are about the number of people who work in this building.

When the building is in use, approximately how many people work in the building? Do <u>not</u> include employees who work out of the building such as drivers with delivery routes, customers, patients, or students. <u>Do</u> include volunteer workers. If there are multiple shifts, so that the number of people in the building varies at different times of the day, please give us the total number of employees across <u>all</u> shifts.

CARD E-18		DON'T KNOW	q_ 8
		DOM 10000	,
	which shows categories. Which ople who work in the building (
HAND	NONE	• • • • • • • • • • • • • • • • • • • •	00
CARD	1-4		01
PINK	5-9	,	02
	10-19		03
	20-49		04
	50-99		05
	100-249		06
	250-499		07
	500-999		08
	1,000-2,499	• • • • • • • • • • • • • • • • • • • •	09
	2,500-4,999	• • • • • • • • • • • • • • • • • • • •	10
	5,000 OR MORE	• • • • • • • • • • • • • • • • • • • •	11
	DON'T KNOW		98
•	ding is in use) how many peopl mean the shift when most peo		
	_	NUMBER OF PEOP	(F
	DON'T WHOM		0.0

HAND CARD PINK

E-21. Which category on this card best describes the number of people who normally work in the building during its main shift?

	00
* • • • •	00
	01
	•
	02
	03
	0.4
	04
	05
	03
	06
	07
	80
	09
	09
	10
	11
	98

and track processing a few expension

F. BUILDING ENVELOPE CHARACTERISTICS:

F-1. Here is a card that shows different types of construction materials. Which best describes the major type of exterior wall construction material used on this building? CIRCLE ONLY ONE.

HAND CARD F-1
F-1

DON'T KNOW	98
	07
OTHER (SPECIFY)	
ALUMINUM, ASBESTOS, PLASTIC OR WOOD SIDING, SHINGLES, TILES OR SHAKES	06
BRICK, STONE, STUCCO, CONCRETE OR OTHER MASONRY	05
PRE-CAST CONCRETE PANELS	04
SHEET METAL PANELS	03
DECORATIVE OR CONSTRUCTION GLASS	02
BE SEEN THROUGH)	01

F-2. Here is a card with different types of roofing materials. Which category best describes the building's major type of exterior roof surface? CIRCLE ONLY ONE.

HAND
CARD
F-2

DON'T KNOW	
OTHER (SPECIFY)	08
CONCRETE	07
PLASTIC, RUBBER, OR SYNTHETIC SHEETING (SINGLE OR MULTIPLE PLY)	06
METAL SURFACING	05
BUILT-UP (TAR, FELTS OR FIBERGLASS AND A BALLAST, SUCH AS STONE)	04
ASPHALT, FIBERGLASS, OR OTHER SHINGLES	03
SLATE OR TILE SHINGLES	02
WOOD SHINGLES, SHAKES OR OTHER WOODEN MATERIALS	01

Here is a card that shows some common building shapes. Please tell me which one most nearly resembles the floorplan of this building at ground level. This is sometimes called the "footprint" of the building. CIRCLE ONLY ONE. RECTANGLE 02 HAND RECTANGLE OR SQUARE WITH AN CARD F-3 "L" OR RIGHT ANGLE SHAPED 08 (F-6) "+" OR "CROSS" SHAPED 09 (F-6) OTHER: (SPECIFY OR DRAW IN SPACE BELOW) __ 10 (F-6) F-4. What is your best estimate of the: a. length of this building at ground level? FEET b. width of this building at ground level? **DON'T KNOW 9-8**

364

F-5.		out all the exterior walls of this building that are above ground. How ouch or are attached to another structure? Would you say it is: .
		None, the building is freestanding? 0
		One?
		Two?
		Three? 3
		Four?
		DON'T KNOW
F-6.		on this card best describes the percent of the exterior wall surface is covered with glass doors or window glass?
		10 PERCENT OR LESS
		11 TO 25 PERCENT
	HAND	26 TO 50 PERCENT
	CARD	51 TO 75 PERCENT
	F-6	76 TO 100 PERCENT
		DON'T KNOW 8

Commence of the commence of th	THE LIGHTING SYSTEM		1000 (1000)	111	
	The next set of questions pertains to the	electric lighting	system used in this but	ilding.	
27 2 3 4 2 2 3 4 2 3 4 3 4 3 4 3 4 3 4 3 4	What percentage of the (A-7/A-8 SQUAF electrically during operating hours?	RE FEET) squa	re feet of the interior o	f this bu	ullding is lit
Services of the control of the contr	BUILDING HAS NO OPERATING HOURS (E-12 = 00)		INTERVIEWER: REM BUILDING HAS NO C HOURS, BY DEFINIT BUILDING HOURS AI CONSIDERED "OFF I	OPERATION, ALI	ING L
Service and Servic	Here is a list of ranges. What is your best that is lit electrically?	estimate of the	e percent of the square	feet in t	his building
HANC CARL BLUE	# 100	26 TO 50 PER 51 TO 75 PER 76 TO 100 PER	OR LESS CENT CENT RCENT	2 3 4	
3 3 Landau Carlos Carlo	What percentage of the (A-7/A-8 SQUARE off hours? By off hours, we mean on extended periods when the whole building lighting.	weekends and	holidays, during the c	off-seaso	n and any
Property of the control of the contr		A DAY)	RS (OPEN 24 HOURS	991	(BOX 17)
(Barrasan)	Which of the ranges on the card best desc off-hours?	ribes the percer	nt of the square feet in th	ne buildir	ng lit during
HAND CARD BLUE		26 TO 50 PER 51 TO 75 PER 76 TO 100 PER	OR LESS CENT CENT RCENT	2 3	
		BOX 17	The second secon		
	LOOK AT THE ANSWERS T THE BUILDING REPORTED I			OF	
The second secon	YES NO		1 (GO TO G-5) 2 (GO TO H-1)		
		TA .	American State of the Control of the		

COLUMN A	COLUMN B	COLUMN C
READ ALL OF COLUMN A BEFORE COLUMN B.	IF "YES" IN COLUMN A, ASK:	IF "DON'T KNOW" IN COLUMN B. ASK:
G-5. Is any of the square footage inside this building served by: HAND CARD G-5	G-6. Thinking about the amount of building space that is lighted, what percent of the lighted space is lit by (FEATURE)?	G-7. Which of these ranges best represents the percent of the inside of this building lit by (FEATURE)? HAND CARD BLUE
FEATURE		Company of the second s
a. Incandescent light bulbs, including regular or energy efficient light bulbs? YES	% DON'T KNOW 9-8>	25% OR LESS 1 26 to 50% 2 51 to 75% 3 76 to 100% 4 DON'T KNOW 8
b. Fluorescent Lighting other than compact fluorescent bulbs? YES	% DON'T KNOW 9-8>	25% OR LESS 1 26 to 50% 2 51 to 75% 3 76 to 100% 4 DON'T KNOW 8
c. Compact Fluorescent bulbs? YES	% DON'T KNOW 9-8>	25% OR LESS 1 26 to 50% 2 51 to 75% 3 76 to 100% 4 DON'T KNOW 8
d. High Intensity Discharge (HID) Lights such as high pressure sodium, metal halide or mercury vapor? YES 1 NO 2 DON'T KNOW 8	% DON'T KNOW 9-8>	25% OR LESS 1 26 to 50% 2 51 to 75% 3 76 to 100% 4 DON'T KNOW 8
e. Some other type of lighting? YES (SPECIFY) 1 NO	% DON'T KNOW 9-8>	25% OR LESS 1 26 to 50% 2 51 to 75% 3 76 to 100% 4 DON'T KNOW 8
	TOTAL MUST BE AT LEAST 100%	

COLUMN A	COLUMN B	COLUMN C
READ ALL OF COLUMN A BEFORE COLUMN B. G-8. Here is a list of some features that may be part of this building's interior lighting system. Does your lighting system use any: HAND CARD G-8	IF "YES" IN COLUMN A: G-9. Thinking about the amount of building space that is lighted, what percent of the lighted inside of this building is served by (FEATURE)?	IF DON'T KNOW IN COLUMN B, ASK: G-10. Which of the following ranges best represents the percentage of the inside of this building served by (FEATURE)?
A CONTROL OF THE CONT		HAND CARD BLUE
NO Company Control of the Control of	1	25% OR LESS 1 26 to 50% 2 51 to 75% 3 76 to 100% 4 DON'T KNOW 8
A STATE OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE	1	25% OR LESS 1 26 to 50% 2 51 to 75% 3 76 to 100% 4 DON'T KNOW 8
c. Occupancy sensors that shut lights off when no motion is detected? YES: NO DONT KNOW	% 2 8 DON'T KNOW 9-8>	25% OR LESS 1 26 to 50% 2 51 to 75% 3 76 to 100% 4 DON'T KNOW 8
d. Time clocks or timed switches which turn interior lights on or off according to predetermined schedule? YES	Section 1	25% OR LESS
	% DON'T KNOW 9-8>	25% OR LESS 1 26 to 50% 2 51 to 75% 3 76 to 100% 4 DON'T KNOW 8
f. Some other lighting conservation equipment? YES (SPECIFY)		25% OR LESS
	30	

H. ENERGY MANAGEMENT FEATURES OR PRACTICES

COLUMN A	H(+2153):12			
H-1. This next section deals with energy management features or practices. Are any of the following present in this building: FOR EACH "YES" IN COLUMN "A", IMMEDIATELY FOLLOW THE ARROW TO COLUMN "B" AND "C". WHEN THERE IS NO ARROW, RETURN TO COLUMN "A" AND ASK ABOUT THE NEXT FEATURE. HAND CARD H-1				
FEATURE	en:-len-1-44			
a. A variable air volume (VAV) system on the heating or cooling system? YES	>			
b. Equipment that uses outside air for cooling (Economizer Cycle)? YES	->			
c. Roof or ceiling insulation? YES	>			
d. Insulation in exterior walls? YES 1 NO 2 DON'T KNOW 8	->			
e. Storm windows, storm doors, thermal pane or double or triple paned glass? YES	->			
f. Tinted or reflective glass or shading films? YES	m >			
g. Exterior awnings or interior horizontal or vertical shades or mini blinds? YES	>			

	State deliteration of the state	Management (pro-capte)	1990 Sept.	Allanda and an			· · · · · · · · · · · · · · · · · · ·	
	The September of the Se	COLUMN B	2 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	COLUMN C				
IF "YES" IN COLUMN A ASK: (Was/Were) the (FEATURE) installed during building construction or added afterwards?			(FEATURE) n	N COLUMN B ASK: nost recently added? before 1987?	When (was/werd? Was it in 1992,	e) the between 1987		
DOI	NT KNOW	INSTALLED	ADDED	1992	1987-1991	BEFORE 1987	DON'T KNOW	
a .	To the second		2 —> 100 Miles	The state of the s	2	3	8	
	1 September 1 Sept	APPENDED TO THE PROPERTY OF TH	Control of the contro	Agent Services			-	
b.	8	The second secon	2> 1000 March 1000	A SE CONTROL OF THE SE	2	3	8	
	10 10 10 10 10 10 10 10		Harmonia de la companio del companio de la companio del companio de la companio de la companio del companio d	Control of the Contro				
C.	8	To be the control of	2>	Soft of the second of the seco	2	3	8	
		The second secon		Committee of the commit				
d.	But in Production Control of the Con	The second secon	2	Control of the Contro	2	3	8	
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e .	Section of the sectio	Article A loss SET			1	J	8	
1. 1	This is the part of the part o		2>			3	8	
A Comment of Section 1	Company Comp		S Official to					
g.	TB THE		2>	1	2	3	8	
Total	The second section of the section	energia.		Comments Figure 2. Figure 2. Figure 2. Figure 2. Figure 3. Figure 3. Figure 3.				

Section 1 and 1 an

370

H-2.	Can you open and close most of the windows (including door panels) in this building?
	YES 1
	NO 2
	NO WINDOWS 3
	DON'T KNOW 8
H-3.	The next group of questions concern programs specifically targeted and designed to improve energy efficiency, reduce energy costs, or promote the use of a different energy source. Such programs are often called Demand-Side Management (DSM) programs.
	During the past 3 years, has your electric or natural gas utility sponsored demand-side management programs which you may or may not have participated in? CIRCLE ONE.
	YES 1
	NO 2
	BUILDING DID NOT PURCHASE
	ELECTRICITY OR NATURAL GAS FROM A UTILITY
	DON'T KNOW
H-4.	During the past 3 years, has <u>this building</u> participated in any demand-side management programs, either in-house, utility, or third-party sponsored?
	YES 1 (H-7)
	NO 2
	DON'T KNOW 8
	. BOX 18
	IS E-3 ON THE FOLD-OUT PAGE CHECKED?
	YES 1 (H-5)
	NO 2 (H-6)
H-5.	During the past 3 years, has the facility participated in any demand-side management programs, either in-house, utility or third-party sponsored?
	YES 1
	NO 2
	DON'T KNOW 8

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H-6 Are there plans for this building to participate in a demand side management program in the

	COLUMN A	COLUMN B						
H/C	H-7. Here is a card listing potential areas for demand-side management programs. In which of the following has this building participated during the past 3 years? (CIRCLE ALL THAT APPLY) READ ALL OF COLUMN A BEFORE COLUMN B.			H-9 BEF ED H-7 was the im spoi tility, G	FORE (POTE) (H-7 Posored U=Gas	SOING INTIAL POTENT by? s Utility	ASK H-E TO NEX AREA. TAL ARE , IH=In- DN'T KN	CT EA) house,
		(CIRCLI				,		10 10 10 10 10 10 10 10 10 10 10 10 10 1
	POTENTIAL AREA		EU	GU	IH	TP	0	DK
a.	Lighting?		1	2	3	4	5	8
b.	Building envelope or shell? 02		1	2	3	4	5	8
C.	Heating, ventilation and air conditioning (HVAC) equipment installation or retrofit? 03		1	2	3	4	5	8
d.	Energy efficient motor(s) including adjustable speed drives or variable speed motors? 04		1	2	3	4	5	8
e.	Water heating? 05		1	2	3	4	5	8
f.	Direct electricity load control?		1	2	3	4	5	8
g.	Thermal storage? 07		1	2	3	4	5	8
h.	Standby electricity generation? 08		1	2	3	4	5	8
i.	Process heating or cooling, such as waste heat recovery?		1	2	3	4	5	8
j.	Any other type of program?		1	2	3	4	5	8

COLUMN C

H-9. (Here is a card with types of assistance which can be provided through demand-side management

HAND programs.) What type of assistance was received for (H-7 POTENTIAL AREA)? CIRCLE ALL THAT APPLY FOR EACH H-7 POTENTIAL AREA.

H-9

100 (200 cm)	GENERAL INFORMATION	(Sec.)	INCENTIVES	ALTERNATIVE RATES	FUEL SWITCHING	OTHER PROGRAM	DON'T KNOW
a.	Section of the sectio	2	3		5	6	8
b		2	48 (48)	4		6	8
C.		2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	4	5	6	8
d.		2		4	5	6	8
е.		2	The state of the s	4	5 24 25 26 27	6	8
1	Supplies the second sec	2	1 Michigan and Park 12 Michigan 12 Michiga	4	5	6	8
g.	The second of th	2	The second secon		5	6	8
h		2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A Commence of the Commence of	4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5 Table 5	6	8
1	A CONTROL OF THE PROPERTY OF T	2	The second secon	4	5 ************************************	6	8
- 756	A second	2	Triple Policy in the black and the second and the s	4	5 5	6	8
20000 20000 200000 200000	And the second s		Control of the Contro	# 1925 27 20 20 27 20 20 27 20 20 27 20 20 20	ografia Ografia Olimpia		

H-10.	Since [December 31, 1986, has an energy audit been performed on this built	ding?	
		YES 1		
		NO 2 (H-12)		
		DON'T KNOW 8 (H-12)		
H-11.	Was th	e most recent energy-audit: CIRCLE ONE.		
HAND	a	sponsored or performed by a local utility?	1	
CARD H-11	ь	sponsored or performed as a part of a Federal, State, or local government program?	2	
	С	initiated by the building or business owner and performed by in-house personnel or a private contractor?	3	
	d	sponsored and performed by some other group? (SPECIFY)	4	
	е	DON'T KNOW		
H-12.	Is there	a regularly scheduled maintenance and repair program for the heat ding?	ing and	cooling system in
		YES 1		
		NO2		
		DON'T KNOW 8		
		HERE IF BUILDING ALWAYS IN FULL USE/ALWAYS OPEN 24 FOUT CHECKED) AND GO TO H-14.	IOURS ((I.E., BOX 16 Of
H-13.		he building is not in full use, is there a change in temperature setting of the following equipment: CIRCLE ONE ON EACH LINE.	orated	duction in the use
	a. hea	<u>YES</u> ting?	<u>NO</u> 2	<u>DK</u> 8
	b. coo	ling?	2	8
	c. don	nestic hot water heating? 1	2	8
	d. light	ting?	2	8
	e. any	other equipment?	2	8
	SPE	CIFY:		

H-14.	Does this building have	a computerized energy managen	nent and contro	l system o	r EMCS
19 17 34 5	TOMORPHONE STATE SELECTION OF THE SELECTION OF T				
related (1) and a con-	AND THE PARTY OF T	YES			
2.566	The second secon	그 그리고 그리고 있다면 그렇게 하는데 그리고 그리고 있다.	2.7	40)	
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-leader - 1813 (F - 1121 (F	The state of the s	DONT KNOW	8 (H	·16)	
2000 T	de el l'approprie	The second secon			
H-16	Does the energy manage	gement system routinely control th	ve followina ea:	iloment:	
			The state of the s	p	
- 1672-16 - 1672-16 - 1672-16	A control of the cont			ES NO	DK
				1 2	8
	b. cooling?			1 2	8
4000	a domestic hot water	heating?		1 2	8
A (1867) - 1968(17)	de la	The plane of the many and a second			_
Programmes				1 2	8
2 w. v.	e. any other equipmen	t such as elevator banks and esca	alators? 👊 : .	1 2	8
25 (15) Particular 10 (15)	SPECIFY:				
11272	The state of the s				
	Property and the second	1 months and the		olemand to	h ala
H-16.	conserve energy?	e any other features which are	specifically de	signed to	neip
75666 2017 1016	Control (1997) (
- 1975 - 1975 - 1975 - 1975	And the second s	YES			
1000000 10000000 10000000		NO	2 (H	-18)	
A Page 1	A Company of American Company of	DON'T KNOW		•	
200 G/S	The second secon			.10)	
H-17.		those features. RECORD VERBA		The second second	
	And the second s				
	A control of the cont				
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- 100 HA	Andrews remainder plants	I I COMMENT TO THE PROPERTY OF	Canada Andrea (
	The state of the s		2		
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A CONTRACTOR	and the state of t	The second secon			
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a - a ubilipitaria			. \$12.5 gd 1		
LANGE SET	The second section of the section o				
**************************************	Company of the Compan	The state of the s	- 0.0576751 746 A.J. (2000)		
		A 7			
		The second secon	145 THE		

		ally operating and maintaining the building's heating and/or cooling equipment? Is thing the CIRCLE ONE.
HAND CARD	a.	the building owner/manager (including office/store/branch site managers)?
H-18	b.	the custodian or maintenance engineer? 2
	C.	a dedicated energy manager, whose chief responsibility is to manage energy use and energy using equipment?
	d.	a cleaning or maintenance contractor? 4
	e.	someone else? (SPECIFY):
	f.	No one, a repair service is called when something happens? 6 (I-1)
	g.	NOT APPLICABLE: BUILDING NOT HEATED OR COOLED 7 (I-1)
	ħ.	DON'T KNOW 8 (i-1)
H-19. Ho	ow la	ing has this person had this responsibility for this building: CIRCLE ONE.
		Less than 1 year? 1
		1 to 3 years?
		4 to 6 years?
		over 6 years?
		DON'T KNOW 8
		pical week, how much of this person's time is devoted to operating and maintaining the pand/or cooling equipment in this building?
		10 PERCENT OR LESS 1
HAND		11 TO 25 PERCENT 2
CARD		26 TO 50 PERCENT 3
H-20		51 TO 75 PERCENT 4
		76 TO 100 PERCENT 5
		DON'T KNOW 8

H-18. Which of the following best describes the person who has day-to-day responsibility for

	ELECTRICITY GENERATION OR COGENERATION	
I. I. Thereigh	Does this building have the ability to generate electric power?	
	The state of the s	1 2 (BOX 19) 8 (BOX 19)
1-2.	Please indicate the <u>primary</u> use of the generators in the building as listed on this ca CIRCLE ONE.	ırd.
HANG CARIE	THE STATE OF THE SELECTION OF THE SELECT	1 (BOX 19)
# 2007/48/4	GENERATORS USED ONLY DURING PERIODS OF HIGH ELECTRIC POWER DEMAND	2
	And the state of t	3
The second	OTHER (SPECIFY)	4
10.00 (10.000) 10.000 (10.000) 10.000 (10.000) 10.000 (10.000) 10.000 (10.000) 10.000 (10.000) 10.000 (10.000)	BONT KNOW	8
I-3	to producing electric power, does the same system simultaneously produce heat wl or another building for space heating, water heating, air cooling, industrial processe	hich is used in this
	NO _	2 8
A control of the cont	Is the building's cogeneration or generation system electrically interconnected with electric utility? That is, is it able to deliver electricity to the grid as well as received electricity? YES NO DON'T KNOW	ive I 2
15 to 1 to	Using this card, indicate what happens to the electric power which is generated ons is it. CIRCLE ALL THAT APPLY.	ite.
HANC CARD I-5	Table 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

J. <u>CENTRAL PHYSICAL PLANT/MULTIBUILDING FACI</u>	LITIES
---	--------

	BOX 19	C 04 DT	25.4.4		
	LOOK AT E-3 ON THE FOLD-OUT PAGE. IS THE BUILDING			IULIIBUILDING FACILITY	7
	YES				
	NO		2	(SECTION K)	
	Does this multibuilding facility have a central physica steam, district chilled water or electricity?	l plant th	nat pro	oduces district hot water	, dis
	YES	2			
	Does the central physical plant on the multibuilding for	acility pro	oduce	: :	
		YES	NQ	<u>DK</u>	
	a. district hot water?	1	2	8	
	b. district steam?	1	2	8	
	c. district chilled water? .	1	2	8	
	d. electricity?	1	2	8	
3.	Is the central physical plant for this multibuilding facil about?				n tal
	YES	2	,	ION K)	
	What is the full name of the building containing the c	entral pla	ant?		
	BUILDING NAME			_	
	BUILDING STREET ADDRESS			_	
	CITY, STATE, ZIP		**************************************		
	What is the name, phone number, and FAX number of	a contac	t pers	on for this central physic	
	•				al pi

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K.	ELECTRICITY PAGE
	LOOK AT THE FOLD-OUT PAGE, IF NO ELECTRICITY USED IN BUILDING DURING CALENDAR YEAR 1992 CHECK HERE AND GO TO NATURAL GAS PAGE (SECTION L).
K-1a.	Is all the electricity used in this building generated in this building?
	YES
K-1.	What is the name and address of the supplier that provided (or may yet provide) electricity to the building during calendar year 1992?
	Does this building have any other electricity suppliers? ASK K-1 UNTIL THE RESPONDENT ANSWERS "NO" AND CHECK THE "NO OTHER SUPPLIERS" BOX. IF MORE THAN THREE SUPPLIERS, GO TO ADDITIONAL SUPPLIER PAGE (SECTION O).
K-2.	Is there a single bill or statement, or are there separate bills or statements, from (SUPPLIER) for this building?
K-3.	Please tell me the name of each business or organization that received a bill or statement from (SUPPLIER) for electricity during calendar year 1992. IF LIST IS NOT PROVIDED,
	COMPLETE A CUSTOMER SHEET.
K-4.	(Does the bill or statement/Do the bills or statements) from (SUPPLIER) cover just this building or are other buildings covered as well?
K-5.	What is the approximate square footage of the <u>other</u> buildings that are included (on this bill or statement/on these bills or statements)?
K-6.	(Does the bill or statement/Do any of the bills or statements) include charges for any other major electrical usage outside the building, such as parking lot lights, exterior lights, signs or billboards, large pumps or, swimming pools?
K-7.	What are the other major electrical uses? SPECIFY:
L	

SUP	PLIER NO: 1 ID:	SUPPLIER NO. 2 ID:	SUPPLIER NO. 3 ID:
K-1.	NAME	NAME	NAME
			A STATE OF THE STA
	ST, AD0	ST. ADD.	ST. ADD.
	PO BOX	CITY	PO BOX
	STATE/ZIP	STATE/ZIP	STATE/ZIP
	NO OTHER SUPPLIERS	NO OTHER SUPPLIERS	NO OTHER SUPPLIERS
K-2	SINGLE BILL 1 (K-4)	SINGLE BILL 1 (K-4)	SINGLE BILL 1 (K-4)
	SEPARATE BILLS 2 (K-3)	SEPARATE BILLS 2 (K-3)	
K-3.	LIST PROVIDED 1	LIST-PROVIDED 1	LIST PROVIDED 1
	NOT PROVIDED 2	NOT PROVIDED	NOT PROVIDED
			ANCT TORS BUILDING A AVEC
K-4.	JUST THIS BUILDING : 1 (K-6)	JUST THIS BUILDING 1 (K-6)	JUST THIS BUILDING . 1 (K-6)
	OTHER BUILDING(S) 2	OTHER BUILDING(S) 2	OTHER BUILDING(S) 2
	DON'T KNOW 8 (K-6)	DON'T KNOW 8 (K-6)	DON'T KNOW 8 (K-6)
		Because 1	
K-5.	SQUARE FOOTAGE	SQUARE FOOTAGE	SQUARE FOOTAGE
	DON'T KNOW 8	DON'T KNOW	DON'T KNOW 8
K-6	YES 1 (K-7)	YES 1 (K-7)	YES 1 (K-7)
	NO 2 (BOX 20)	NO 2 (BOX 20)	NO 2 (BOX 20)
	DON'T KNOW 8 (BOX 20)	DON'T KNOW 8 (BOX 20)	DON'T KNOW 8 (BOX 20)
K-7.			
	GO TO BOX 20	GO TO BOX 20	GO TO BOX 20

BOX 20
ASK K-2 THROUGH K-7 ABOUT NEXT ELECTRICITY SUPPLIER. IF NO ADDITIONAL SUPPLIERS, GO TO NATURAL GAS PAGE (SECTION L).

L.	NATURAL GAS PAGE		
	LOOK AT THE FOLD-OUT PAGE, IF NO NATURAL GAS USED IN BUILDING DURING CALENDAR YEAR 1992 CHECK HERE AND GO TO FUEL OIL/DIESEL/KEROSENE PAGE (SECTION M).		
L-1.	1. What is the name and address of the supplier that has provided (or may yet provide) natural gas to this building during calendar year 1992?		
	Does this building have any other natural gas suppliers? ASK L-1 UNTIL THE RESPONDENT ANSWERS "NO" AND CHECK THE "NO OTHER SUPPLIERS" BOX. IF MORE THAN THREE SUPPLIERS, GO TO ADDITIONAL SUPPLIER PAGE (SECTION O).		
L-2.	Is there a single bill or statement, or are there separate bills or statements, from (SUPPLIER) for this building?		
L-3.	Please tell me the name of each business or organization that received a bill from (SUPPLIER) for natural gas during calendar year 1992.		
	IF LIST NOT PROVIDED COMPLETE A CUSTOMER SHEET		
L-4.	(Does the bill or statement/Do the bills or statements) from (SUPPLIER) cover just this building or are other buildings covered as well?		
L-5.	What is the approximate square footage of the <u>other</u> buildings that are included (on this bill or statement/on these bills or statements?		
L-6.	(Does the bill or statement/Do any of 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 this building?		
L-7.	What are the other major natural gas uses? SPECIFY:		

SUP	PLIER NO. 1 ID:	SUPPLIER NO. 2-ID:	SUPPLIER NO. 3 ID:
L-1.	Control Contro	NME TO THE RESERVE TO	NAME
- !!	The state of the s	And the second s	
	ST. ADD	ST. ADD	ST. ADD.
	PO BOX	РО ВОХ	PO BOX
	CITY STATE/ZIP	STATE/ZIP	CITYSTATE/ZIP
	SIATE/AP COMMENT	SIAIC/AF	2 3 161 6/2F
	NO OTHER SUPPLIERS	NO OTHER SUPPLIERS	NO OTHER SUPPLIERS
L-2.	SINGLE BILL	SINGLE BILL 1 (L-4)	SINGLE BILL 1 (L-4)
	SEPARATE BILLS 2 (L-3)	SEPARATE BILLS 2 (L-3)	SEPARATE BILLS 2 (L-3)
	The control of the co		
	The second secon		
L-3.	LIST PROVIDED	LIST PROVIDED1	LIST PROVIDED 1
	NOT PROVIDED 2	NOT PROVIDED 2	NOT PROVIDED 2
	The state of the s		
	Control of		
	The control of the co	Control of the Contro	
	The state of the s		
L-4.	JUST THIS BUILDING . 1 (L-6)	JUST THIS BUILDING 1 (L-6)	JUST THIS BUILDING . 1 (L-6)
	OTHER BUILDING(S) 2	OTHER BUILDING(S) 2	OTHER BUILDING(S) 2
	DON'T KNOW 8 (L-6)	DON'T KNOW 8 (L-6)	DON'T KNOW 8 (L-6)
	Company of the Compan	The Control of the Co	
L-5.	- Million (Million (M		
	SQUARE FOOTAGE	SQUARE FOOTAGE	SQUARE FOOTAGE
	DON'T KNOW 8	DON'T KNOW 8	DON'T KNOW 8
	The state of the s		
	The second secon		
L-6.	YES	YES 1 (L-7)	YES 1 (L-7)
	NO .111 2 (BOX 21)	NO 2 (BOX 21)	NO
	DON'T KNOW 8 (BOX 21)	DON'T KNOW 8 (BOX 21)	DON'T KNOW 8 (BOX 21)
			<u>:</u>
L-7.			
	The state of the s		
- 1 (20)	The control of the co		
	GO TO BOX 21	GO TO BOX 21	GO TO BOX 21

BOX 21

ASK L-2 THROUGH L-7 ABOUT NEXT NATURAL GAS SUPPLIER. IF NO ADDITIONAL SUPPLIERS, GO TO FUEL OIL/DIESEL/KEROSENE PAGE (SECTION M).

The control of the co

M.	FUEL OIL/DIESEL/KEROSENE PAGE		
	LOOK AT THE FOLD-OUT PAGE. IF NO FUEL OIL/DIESEL/KEROSENE HAS BEEN OR WILL BE DELIVERED DURING CALENDAR YEAR 1992, CHECK HERE AND GO TO STEAM/HOT WATER/CHILLED WATER PAGE (SECTION N).		
M-1.	What is the name and address of the supplier that has provided (or may yet provide) fuel, oil, deisel or keroserie to the building during calendar year 1992?		
M-1a.	Does this supplier deliver diesel, residual or some other type of fuel oil? CHECK BOX IN M-1a SUPPLIER COLUMN ON NEXT PAGE FOR EACH TYPE USED.		
	Does this building have any other fuel oil, deisel or kerosene suppliers? ASK M-1 UNTIL THE RESPONDENT ANSWERS "NO" AND CHECK THE "NO OTHER SUPPLIERS" BOX. IF MORE THAN THREE SUPPLIERS GO TO ADDITIONAL SUPPLIER PAGE (SECTION O)		
M-2.	Is there a single bill or statement or are there seperate bills or statements from (SUPPLIER) for this building?		
M-3.	Please tell me the name of each business or organization that received a bill from (SUPPLIER) for fuel oil, diesel or kerosene during calendar year 1992.		
	IF LIST NOT PROVIDED, COMPLETE A "CUSTOMER SHEET"		
M-4.	(Does the bill or statement/Do the bills or statements) from (SUPPLIER) cover just this building or are other buildings covered as well?		
M-5.	What is the approximate square footage of the other buildings that are included (on this bill or statement/on these bills or statements)?		
M-6.	(Does the bill or statement/Do any of the bills or statements) include charges for any other major fuel oil, diesel, or kerosene usage outside the building, such as for kilns, welding, pumps or motors?		
M-7.	What are the other major uses? SPECIFY:		

M. FUEL OIL/DIESEL/KEROSENE PAGE

SUPPLIER NO. 1 ID:	SUPPLIER NO. 2 ID:	SUPPLIER NO. 3 ID:
M-1. MME	NAME OF THE PROPERTY OF THE PR	NAME
STATE/ZIP and specific control of the control of th	ST ADD. PO BOX CITY STATE/ZIP	ST. ADO PO BOX CITY STATE/ZIP
M-1a. Diesel (No. 1, 2, or 4) Residual (No. 5 or 6) Other (SPECIFY) NO OTHER SUPPLIERS	Diesel (No. 1, 2, or 4) Residual (No. 5 or 6) Other (SPECIFY) NO OTHER SUPPLIERS	Diesel (No. 1, 2, or 4) Residual (No. 5 or 6) Other (SPECIFY) NO OTHER SUPPLIERS
M-2. SINGLE BILL 1 (M-4)	SINGLE BILL	SINGLE BILL 1 (M-4)
SEPERATE BILLS 2 (M-3)	SEPERATE BILLS 2 (M-3)	SEPERATE BILLS 2 (M-3)
M-3. LIST_PROVIDED	LIST PROVIDED1	LIST PROVIDED 1
NOT PROVIDED 2	NOT PROVIDED	NOT PROVIDED 2
M-4. JUST THIS BUILDING . 1 (M-6)	JUST THIS BUILDING 1 (M-6)	JUST THIS BUILDING . 1 (M-6)
OTHER BUILDING(S) 2	OTHER BUILDING(S) 2	OTHER BUILDING(S) 2
DON'T_KNOW 8 (M-6)	DON'T KNOW 8 (M-6)	DON'T KNOW 8 (M-6)
M-5. SQUARE FOOTAGE DON'T KNOW	SQUARE FOOTAGE DON'T KNOW	SQUARE FOOTAGE DON'T KNOW 8
M-6. YES	de YES 1 (M-7) de State of the St	YES 1 (M-7) NO 2 (BOX 22) DON'T KNOW 8 (BOX 22)
M-7,	The state of the s	GO TO BOX 22

BOX 22

ASK M-2 THROUGH M-7 ABOUT NEXT FUEL OIL, DIESEL OR KEROSENE SUPPLIER. IF NO ADDITIONAL SUPPLIERS, GO TO STEAM/HOT WATER/CHILLED WATER PAGE (SECTION N).

N.	STEAM/HOT WATER/CHILLED WATER		
	LOOK AT THE FOLD-OUT PAGE. IF NO STEAM, HOT WATER, OR CHILLED WATER USED IN BUILDING DURING CALENDAR YEAR 1992, CHECK HERE AND GO TO SECTION O.		
	FOR EACH DISTRICT ENERGY SOURCE USED, WRITE "STEAM", "HOT WATER" OR "CHILLED WATER" ABOVE A COLUMN.		
N-1.	What is the name and address of the supplier or organization that has provided (or may yet provide) (steam/howater/chilled water) to the building during calendar year 1992?		
	NTRAL PLANT WITH NAME AND ADDRESS RECORDED IN SECTION J: ENTER "CP" IN COLUMN. IF NOT RAL PLANT: RECORD NAME AND ADDRESS IN COLUMN.		
	Does this building have any other (steam/hot water/chilled water) suppliers? ASK N-1 UNTIL THE RESPONDENT ANSWERS "NO" FOR THIS DISTRICT ENERGY SOURCE. IF MORE THAN THREE SUPPLIERS. GOT TO SECTION O.		
N-2.	is there a single bill or statement or are there separate bills or statements from (SUPPLIER) for this building?		
N-3.	Please tell me the name of each business or organization that received a bill from (SUPPLIER) during the calendar year 1992. IF LIST NOT PROVIDED, COMPLETE A "CUSTOMER SHEET"		
N-4.	(Does the bill or statement/Do the bills or statements) from (SUPPLIER) cover just this building or are other buildings covered as well?		
N-5.	What is the approximate square footage of the <u>other</u> buildings that are included (on this bill or statement/on these bills or statements)?		
N-6.	What is the approximate square footage of the other buildings on the district loop that serves this building?		

N. STEAM, HOT WATER, OR CHILLED WATER PAGE

	‡(e)YeS(e)eI;(e]≢	ENERGY SOURCE	ENERGY SOURCE
SUPPLIER ID:	Committee and the committee an	SUPPLIER ID:	SUPPLIER ID:
N-1. NAME		NAME DATE OF THE PROPERTY OF T	NAME
ST. ADD.		ST 400 / 10 / 10 / 10 / 10 / 10 / 10 / 10	ST. ADD.
A CARLO A MANAGEMENT CONTRACTOR OF THE PARTY	Andrewsking of the second of t	PO BOX 10 Tolking the Control of the	РО ВОХ
CITY	LINE BOOK OF THE PARTY OF THE P	CITY STATE/ZIP	CITYSTATE/ZIP
STATE/ZIP		The state of the s	
N-2. SINGLE BIL	L 1 (N-4)	SINGLE BILL 1 (N-4)	SINGLE BILL 1 (N-4)
SEPARATE	BILLS 2 (N-3)	SEPARATE BILLS 2 (N-3)	SEPARATE BILLS 2 (N-3)
NO BILLS .	3 (N-6)	NO BILLS 3 (N-6)	NO BILLS 3 (N-6)
		Edit - And Charles (State American Control of the C	LIST PROVIDED 4
annotation and the second	DEDiction of the local section	LIST PROVIDED 1	LIST PROVIDED 1
NOT PROV	DE0: 2	NOT PROVIDED 2	NOT PROVIDED 2
A Company of the Comp		The state of the s	e e e e e e e e e e e e e e e e e e e
N-4. JUST THIS	BUILDING 1 (BOX 23)	JUST THIS BUILDING . 1 (BOX 23)	JUST THIS BUILDING . 1 (BOX 23)
The state of the s	The state of the s	The state of the s	\
OTHER BU	EDING(S) 2	OTHER BUILDING(S) 2	OTHER BUILDING(S) 2
DON'T KNO	DW 8 (BOX 23)	DON'T KNOW 8 (BOX 23)	DON'T KNOW 8 (BOX 23)
N-5.	Control of the Contro	The state of the s	
	QUARE FOOTAGE	SQUARE FOOTAGE	SQUARE FOOTAGE
DON'T KNI	W 8	DON'T KNOW 8	DON'T KNOW 8
	GO TO BOX 23	GO TO BOX 23	GO TO BOX 23
The second secon			
A post velocina administrativa del propositiva			tt.
N-D control of the co	SQUARE FOOTAGE	SQUARE FOOTAGE	SQUARE FOOTAGE
and the state of t	(NOW 8	DON'T KNOW 8	DON'T KNOW 8
The control of the co	GO TO BOX 23	GO TO BOX 23	GO TO BOX 23
And Control of the Co			GO 10 BOX 23
A CONTRACT OF THE PROPERTY OF	AND THE STATE OF T		

BOX 23

ASK ABOUT NEXT DISTRICT ENERGY SOURCE. IF NO ADDITIONAL DISTRICT SOURCES, GO TO SECTION O.

Ο.

	FOR ANY ENERGY SOURCE)		
	NO ADDITIONAL SUPPLIERS. GO TO SECTION P.		
0-1.	Is there any other supplier that has provided (or may yet provide) (ENERGY SOURCE) to the building? ASK O-1 UNTIL RESPONDENT ANSWERS "NO" AND CHECK THE "NO OTHER SUPPLIERS" BOX.		
,			
O-2.	Is there a single bill or statement, or are there separate bills or statements from (SUPPLIER) for this building?		
O-3.	Please tell me the name of each business or organization that received a bill or statement from (SUPPLIER) for energy during the calendar year 1992. IF LIST NOT PROVIDED, COMPLETE A "CUSTOMER SHEET"		
0-4.	(Does the bill or statement/Do the bills or statements) from (SUPPLIER) cover just this building or are other buildings covered as well?		
O-5.	What is the approximate square footage of the other buildings that are included (on this bill or statement/these bills or statements)?		
0-6.	(Does the bill or statement/Do any of the bills or statements) include charges for any other major use of this energy source besides the ones you have already told me about?		
0-7.	What are the (OTHER MAJOR ENERGY SOURCES) used for? SPECIFY:		

ADDITIONAL SUPPLIER PAGE (FOR USE ONLY WHEN MORE THAN THREE SUPPLIERS

ENERGY SOURCE	ENERGY SOURCE	ENERGY SOURCE
SUPPLIER ID:	SUPPLIER ID:	SUPPLIER ID:
O-1, MME	WE TO THE TOTAL TOTAL TO THE TO	NWE
ST. ADD	ST ADD	ST. ADD.
PO BOX	PO BOX	PO BOX
CITY The file of the control of the	STATE/ZIP	STATE/ZIP
NO OTHER SUPPLIERS	NO OTHER SUPPLIERS	NO OTHER SUPPLIERS
O-2. SINGLE BLUE	SINGLE BILL	SINGLE BILL 1 (0-4)
SEPARATE BILLS 2 (O-3)	SEPARATE BILLS 2 (0-3)	SEPARATE BILLS 2 (0-3)
O-3. LIST PROVIDED 1	LIST PROVIDED 1	LIST PROVIDED 1
NOT PROVIDED 2	NOT PROVIDED 2	NOT PROVIDED 2
	To a support the support to the supp	
O-4. JUST THIS BUILDING 1 (O-6)	JUST THIS BUILDING 1 (0-6)	JUST THIS BUILDING 1 (0-6)
OTHER BUILDING(S) 2	OTHER BUILDING(S) 2	OTHER BUILDING(S) 2
DON'T KNOW 8 (0-6)	DON'T-KNOW 8 (0-6)	DON'T KNOW 8 (0-6)
O-5.		
SQUARE FOOTAGE	SQUARE FOOTAGE	SQUARE FOOTAGE
DON'T KNOW 8	DON'T KNOW (SP-10)	DON'T KNOW 8
O-6. YES 1 (0-7)	YES THE PROPERTY OF THE PROPER	YES 1 (0-7)
NO 2 (BOX 24)	NO 2 (BOX 24)	NO 2 (BOX 24)
DON'T KNOW 8 (BOX 24)	DON'T KNOW 8 (BOX 24)	DON'T KNOW 8 (BOX 24)
The second of th	The state of the s	
0-7.	### ### ##############################	GO TO BOX 24

BOX 24
ASK ABOUT NEXT SUPPLIER. IF NO ADDITIONAL SUPPLIERS, RETURN TO APPROPRIATE ENERGY SOURCE PAGE.

P.	ENERGY SOURCE DELIV	ERY
P-1.	NO ELECTRICITY	USED IN BUILDING. GO TO P-2.
		ricity was used in this building. Please give me the range on this card which expenditures during calendar year 1992 for the electricity used in this
HANI CARI GREE)	\$100 OR LESS 01 \$101 to \$500 02 \$501 to \$1,000 03 \$1,001 to \$2,000 04 \$2,001 to \$5,000 05 \$5,001 to \$10,000 06 \$10,001 to \$20,000 07 \$20,001 to \$50,000 08 \$50,001 to \$100,000 09 \$100,001 to \$200,000 10 \$200,001 to \$500,000 11 \$500,001 to \$1,000,000 12 OVER \$1,000,000 13 DON'T KNOW 98
P-2.	Earlier you said that natur	S USED IN BUILDING. GO TO P-8. Tal gas is used in this building. Please give me the range on this card which expenditures during calendar year 1992 for the natural gas used in this
HANI CARI GREE		\$100 OR LESS 01 \$101 to \$500 02 \$501 to \$1,000 03 \$1,001 to \$2,000 04 \$2,001 to \$5,000 05 \$5,001 to \$10,000 06 \$10,001 to \$20,000 07 \$20,001 to \$50,000 08 \$50,001 to \$100,000 09 \$100,001 to \$200,000 10 \$200,001 to \$500,000 11 \$500,001 to \$500,000 11 \$500,001 to \$1,000,000 12 OVER \$1,000,000 13 DON'T KNOW 98
P-3.	(This is a special rate offe	of the natural gas accounts in the building on an interruptible service rate? red to customers by gas companies, that allows the gas company to cut backplied to the building during periods of high demand.)
		YES

company (utility) and the	r contract for its natural gas in have the utility deliver that ansported gas, spot market g	gas? Gas bought th	nis way is often called gas for
	YES		(P-8) (P-7)
P-5. Can you give me the nar contracted from?	me of the company or broker	that the direct purc	hase gas is bought or
	YES		THEN GO TO P-6 (P-7)
COMPANY NAMÉ:	では、一般の対象を対象を対象を対象を対象を対象を対象を対象を対象を対象を対象を対象を対象を対	i de la compansión Como de la compansión	
ADDRESS:	The state of the s		
CITY/STATE/ZIP:	The second secon		The state of the s
CONTACT PERSON:			
TELEPHONE (INCLUDE AREA C	ODE): ()		
FAX NUMBER:			The state of the s
	Selection of the select		
a well head costs?	Section of the sectio		chase gas. That is: s quoted are per:
b. city gate costs?		A THE	s quoteo are per.
 c. local distributing company charges? 		1,441	herm 1 Dubic foot (cf) 2
	A Control of the Cont	1	00 Cu. ft. (Ccf) 3
Other costs?	The state of the s	and the state of t	000 Cu. ft. (Mcf) 4 Other (SPECIFY) 5
e DONT KNOW	R Comment of the Comm	(2) (2) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	
	The state of the s		
Principles of the second of th	GO TO P-8		
The state of the s	The second secon	Control of the contro	
P-7. Can you give me the nar for this building?	me of a person who can prov	vide more informatio	about natural gas purchases
The second secon	*** The state of control of the state of the	PARTY AND THE STATE OF THE STAT	RECORD BELOW AND THEN GO TO P-8
Land Company of the C	YES The state of	The second secon	
	The second section of the second section (second section (section (second section (second section (section (second section (section (secti	antin State a	
CONTACT PERSON:	* A CONTRACTORY OF THE CONTRACTORY ***********************************	A STATE OF THE STA	—
TELEPHONE (INCLUDE AREA C	ODE): ()		#*************************************
FAX NUMBER: ()	part (agree and part of the pa		
Application of the control of the co	part of the street of the stre		The second secon

Form EIA-8	71A (03/92)
P-8.	NO FUEL OIL OR DIESEL USED IN BUILDING. GO TO P-10.
	Earlier you said that fuel oil, diesel or kerosene is used in this building. Which of the ranges on this pard will best describe the total expenditures during calendar year 1992 for the fuel oil, diesel or kerosene used in this building?
HAND CARD GREEI	\$101 to \$500
P-9.	Think about all the fuel oil storage tanks for this building. What is the <u>total</u> capacity, in gallons, of all the fuel oil storage tanks?
	GALLONS
	DON'T KNOW 9-8
P-10.	NO BOTTLED GAS/LPG/PROPANE USED IN BUILDING. GO TO P-12. Earlier you said that bottled gas is used in this building. HAND CARD P-10. Which of the ranges on this hand card will best describe the amount of bottled gas used in this building during calendar year 1992?
HAND CARD P-10	100 TO 499 02 GALLONS 1

INTERVIEWER: YOU MUST CIRCLE EITHER POUNDS OR GALLONS

P-11. Which of the ranges on this care the bottled gas used in this build	d will best describe the total ding?	expenditures of	luring calendar year 1992 for
Adjunction and the Section of the Se	\$100 OR LESS	01	
HAND			
CARD	\$101 to \$500		
P-11 and the second sec	\$501 to \$1,000		
An additional allegate objects and the proof of the proof	\$1,001 to \$2,000		
	\$2,001 to \$5,000	05	
	\$5,001 to \$10,000	06	
The second secon	\$10,001 to \$20,000		-
Application of the state of the	OVER \$20,000	08	
	DON'T KNOW	98	
	Property and the contribution of the state o	1	
P-12. NO WOOD USED IN BU	JILDING. GO TO SECTION	Q.	
Earlier you said that wood is us	ed in this building. Which o	f the ranges or	this card best describes how
much wood will have been burn	and in this building by the er	nd of calendar	vear 1992?
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CARD	1 10 9 CURDS	02	
P.12	10 TO 20 CORDS		
The state of the s	MORE THAN 20 CORDS		
The state of the s	DON'T KNOW	98	
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P-13. Has this wood been purchased	or has it been provided free	e of charge from	n some other source such as
waste wood?	The state of the s		
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The state of the s	PURCHASED		
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	TOWNSHIP SERVED		
P-14. Which of the ranges on this car	rd will best describe the tota	l expenditures	during calendar year 1992 for
the wood used in this building?	The activities of the activities and activities of the activities		
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HAND	\$101 to \$500	02	
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Q.	AL	лно	RIZAT	TION	FORM
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- Q-1. As I mentioned, the purpose of the study is to relate building characteristics with energy consumption and expenditures. We are also interested in learning more about demand-side management and energy audit programs. This information can only be obtained by going directly to each energy supplier of the building. In order for the energy company to release this information to Westat, we need to have an authorization form from you, or some other representative of your company. We also need account numbers for the building.
 - Should the authorization form be signed by you or someone else? RESPONDENT 1 NAME: TITLE: ADDRESS: CITY, STATE, ZIP: PHONE NUMBER: (____) FAX NUMBER (____) Should the account number(s) be obtained from you or someone else? b. RESPONDENT 1 INDIVIDUAL LISTED ABOVE 2 SOMEONE ELSE (SPECIFY BELOW) 3 TITLE: ADDRESS: CITY, STATE, ZIP: PHONE NUMBER: () FAX NUMBER (_____)____ **BOX 25** AFTER AUTHORIZATION OBTAINED, CODE STATUS OF ACCOUNT NUMBER EFFORT

		NOT	
	OBTAINED	OBTAINED	<u>INAPPLICABLE</u>
ELECTRICITY	1	2	3
NATURAL GAS	1	2	3

Q-2.	RECORD 1	TIME ENDED	AND CONTINUE	WITH SECTION R
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TIME ENDED:		
TIME ENDED:		

Form Approval OMB No: 0607-0751

Expires: December 31, 1993

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nprovements and ma	intenance and	e about expenditures for repairs to this building ne effect of these activities.	during calendar yea	ar 1992. This
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R-1c.	How much money will the owner spend on construction improvements to this building during calendar year 1992?	
	\$	(R-1e)
	DOLLARS	(,
	DON'T KNOW 9-8	(R-1d)
R-1d.	What is the name, address, telephone number, and FAX number of the person who is to know how much the owner will spend on construction improvements to this building	
	NAME:	(R-1e)
	ADDRESS:	
	CITY, STATE, ZIP:	
	PHONE NUMBER: ()	
	FAX NUMBER: ()	
	DON'T KNOW 8	(R-2)
R-1e.	CHECK HERE IF CURRENTLY UNOCCUPIED AND SKIP TO R-2.	
R-1f.	How much (additional) money will the current occupant spend on construction Improvements to this building during calendar year 1992?	
	\$	(R-2)
	DOLLARS	. ,
	DON'T KNOW 8	(R-1g)
R-1g.	What is the name, address, telephone number, and FAX number of the current tenant in building?	this
	NAME:	(R-2)
	ADDRESS:	, ,
	CITY, STATE, ZIP:	
	PHONE NUMBER: ()	

R-2. The next question is about expenditures for maintenance and repairs to the building. This refers to the cost for the upkeep of the building rather than additional investment in it and is described in more detail on this card.

Approximately, what is the total amount of money that will be spent in calendar year 1992 by all persons and businesses for maintenance and repairs to the building? Including expenditures to date plus estimated expenditures for the remainder of the year.

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R-2a.	When car	n I call you b	ack to get the	his informatio	n?			
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R-2b. How much money will the owner spend on maintenance and repairs to this building during calendar year 1992?

S the state of the	(R-2c)
DULLARS	Application
	5.000
DON I KNOW	9-8 (R-2e)

R-2c. CHECK HERE IF CURRENTLY UNOCCUPIED AND SKIP TO R-2e.

Form EIA	4-871G (03/92)	
R-2d.	How much (additional) money will the current tenant spend on maintenance and repairs for this building during calendar year 1992?	
	\$DOLLARS	(R-2e)
	DON'T KNOW 9-8	
R-2e.	END: This completes the interview. Thank you very much for your time and help.	

BOX 28 INDICATE WHO PROVIDED THE EXPENDITURE INFORMATION FOR CONSTRUCTION IMPROVEMENTS AND MAINTENANCE AND REPAIRS:					
a.	OWNER	1	1		
b.	REPRESENTATIVE OF OWNER'S BUSINESS	2	2		
c .	OCCUPANT	3	3		
ď.	OCCUPANT REPRESENTATIVE	4	4		
е.	OTHER (SPECIFY)	5	5		
	engeneration and the state of t				
TELEPH	NDENT NAME:				

TIME ENDED:

INTERVIEWER OBSERVATIONS

FILL THIS OUT IF YOU COMPLETE THE BUILDING INTERVIEW.

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S. PTREAT	ADDRESS:	
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В	Please indicate the name and	laddress(es) of the building as defined for the interv
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100	(A-5) NAME:	
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The	individual who completed all or	most of the questionnaire should be recorded on t
	r. Did any other person respond	
		Manual Andrew (1997年)
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5 .	Please list all other respondents.
	NAME:
	TITLE:
	LOCATION:
	PHONE NO. ()
	NAME:
	TITLE:
	LOCATION:
	PHONE NO. ()
6.	What is your observation of the type of building or kind of business that occurs within the building? Please be thorough in your description.
7.	Is this building, as defined for the interview, freestanding or attached to another building?
	FREESTANDING
8.	Please describe any unusual circumstances you may have encountered in obtaining the energy consumption authorization form. (If you did not obtain the authorization form or account numbers explain why.)

9. Is this a strip shoppin	g center or enclosed mail?		
	The first of the figure of the control of the contr	13 (14) 13 (14) 14 (14) 15 (14)	
	STRIP SHOPPING	CENTER	1
	ENCLOSED MALL		2
	NOT A STRIP CEN	ITER/MALL	3 (END)
	The state of the s	200 AP	
10. Approximately how m	any establishments are in this	s shopping center/ma	all?
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NONINTERVIEW REPORT

FILL THIS OUT IF YOU DID NOT COMPLETE THE BUILDING INTERVIEW.

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Please explain in detail why the building was ineligible for the interview.
What is your observation of the type of building or kind of business that occurs within the building
How many floors does the building have, ground level and above?
OF FLOORS
OF FLOORS IF INELIGIBLE BUILDING: END. IF INDUSTRIAL, AGRICULTURAL, OR RESIDENTIAL MENTIONED IN 5: Would you estimate to
OF FLOORS IF INELIGIBLE BUILDING: END. IF INDUSTRIAL, AGRICULTURAL, OR RESIDENTIAL MENTIONED IN 5: Would you estimate to
OF FLOORS IF INELIGIBLE BUILDING: END. IF INDUSTRIAL, AGRICULTURAL, OR RESIDENTIAL MENTIONED IN 5: Would you estimate to 50% or more of the space in this building is used for (industrial/agricultural/residential) activities YES

404

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14.	NameAddress	
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24. Name ____ Address __

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	Address	
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	Address	
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	Address	
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44.	Name	
	Address	
45.	Name	
	Address	
46.	Name	
	Address	
47.	Name	
	Address	

48. Name _____

Address _____

FOLD-OUT PAGE							
1986	1902		E-3. MULTIBUILDING FACILITY		Y _ 🗆		
NO. OF FLOORS YEAR BUILT	A-7/A-8 SQUARE FEET A-9 NO. OF FLOORS A-12/A-14 YEAR BUILT		E-5. OCCUPANT STATUS: ONE: THE OWNER ONE: NOT THE OWNER MORE THAN ONE: INCLUDING THE OWNER MORE THAN ONE: NOT INCLUDING THE OWNER CURRENTLY UNOCCUPIED				
	The second secon		BOX 16. OPEN 24 HRS				
			Section of the sectio				
	200 100 100 100 100 100 100 100 100 100	C-3. END	USES FOR ENE	RGY SOURCES D	URING CALENDA	AR YEAR 1992:	·
C-1. Here is a list of various types of energy sources. Which of these fuels or energy sources have been or may be used to supply energy to this building during calendar year 1992?	a. Mein fuel for heating	b. Any other heating fuels	c. Fuel for air- conditioning	d. Fuel for domestic hot water heating	e. Fuel for commercial/ institutional cooking or serving	f. Fuel for manufacturing/ industrial activity	g. Fuel to generate electricity
NOT PERFORMED	Fig. 1952 Sept. Se						
C-1. ENERGY SOURCES	CHECK ONE	CHECK ALL THAT APPLY	CHECK ALL THAT APPLY	CHECK ALL THAT APPLY	CHECK ALL THAT APPLY	CHECK ALL THAT APPLY	CHECK ALL THAT APPLY
a. Electricity b. Natural Gas							
c. Fuel Oil/Diesel/ Kerosene							
d. Bottled Gas/LPG/ Propane	Section Depth Control of the Control		The state of the s				
e. District Steam f. District Hot Water							
g. District Chilled Water	The State of the S	5- 	Service places of the		The designation of the control of th		
h. Wood					The plant of the p		
i. Coal	SCHOOL STATE OF THE STATE OF TH						
j. Electricity from solar photovoltaic cells (PVC's)	The state of the s						
k. Thermal Energy from active solar collectors							
I. Other (Specify)	The second secon		County of the co		The state of the s		
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ENERGY SOURCE NOT KNOWN

Form Approval: OMB No: 1905-0145 Expires: May 31, 1994

UNITED STATES DEPARTMENT OF ENERGY COMMERCIAL BUILDINGS ENERGY CONSUMPTION SURVEY

AUTHORIZATION FORM

I hereby give permission to Westat, Inc. to obtain energy consumption information and information on participation in demandside management and energy audit programs for confidential use in connection with their survey for the U.S. Department of Energy.

This authorization covers the total amount of fuels and the total price charged for the fuels consumed during the 26-month period of December 1, 1991 to January 31, 1994 by the building/establishment identified below. It also covers demand-side management programs and audits conducted during the 48-month period of January 1, 1990 to December 31, 1993.

Companies are authorized to provide billing information by monthly periods or by delivery date, whichever is applicable. A photocopy of this authorization may be accepted with the same authority as the original.

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COMMERICAL BUILDINGS ENERGY CONSUMPTION SURVEY AUTHORIZATION FORM (Continued)

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