Non-re	esidential On-	Site Survey Form - Pre	escriptive	Site ID #				
	Site ID #:	SiteID	Site Strata:	Survey Date:				
Conta	act Informat	ion:						
_	Building Name	:		Utility:				
_	Business Nam	e:						
_	Primary Conta	ct Name:		Primary Contact Title:				
_	Primary Phone	:	Secondary Phone:	Email:				
-	Alternative Cor	ntact Name:	Sec	ondary Contact Title:				
_	Alternative Contact Phone:							
_	Building Address:							
City: Zip:								
Surve	ey Tracking	Information						
	Surveyor Nan		Travel Mileage:					
			. rarer misage.	Total Time (mins):				
	Start Time:		Finish Time:	(Onsite, QC, Travel)				
If the respondent is different than the contacts identified above, please identify name, title and contact information								
	Respondent	Name:	Res	Respondent Title:				
	Respondent			pondent				
Email:								
Circle	any incidents	as applicable:						
1	None to repo	ort		n unavailable or unaware of survey appointment				
2		bout energy costs	9 Property dama	ressed dissatisfaction with survey age occurred during on-site survey				
4 5	Complaint a	bout outages or power quality bout technology reliability	10 Personal injury 11 Other (list)	/ occurred during on-site survey				
6	Complaint a	bout utility customer service						
Month/Year of Participation Month/Year of Work Completion				c Completion				
Number of Employees Over the past 12 months?								
Any significant changes to facility energy consumption over the past 12 months?  Y / N (if yes, please document the changes below)								
Site &	Survey Notes (I	Please note any change	s to the household's energ	y usage or occupancy over the past 12 months):				
	, ,	, ,	<u> </u>					

Non-residential On-Site Survey Form - Prescri
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Site ID #
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# **Background Information**

## **Dwelling Information**

Facility type	
<mark>Year Built</mark>	
Square footage of facility	

## **Utility Information**

	Electric	Natural Gas
Utility		
Account Number		
Meter Number		

#### **Installed Measures**

	Measure Description	Quantity	Energy Savings	Units of Savings	Total Customer Cost
EE Measure 1					
EE Measure 2					
EE Measure 3					
EE Measure 4					
EE Measure 5					
EE Measure 6		·			
EE Measure 7		·			
EE Measure 8					

#### Interview & Introduction

Hello, my name is [NAME] and I work with KEMA Inc. I am working on behalf of [Sponsor] to conduct an independent assessment of energy-efficiency technologies installed under the &Program. I am here to meet with [FirstName1 LastName2] to discuss energy-using technologies in this facility. (Show letter, identification and business card.) During my visit I'd like to ask a few questions about your facility's general characteristics and then would like walk through to note the number and type of lighting fixtures and visually inspect other relevant equipment including heating, cooling, water heating, refrigeration and motors equipment. The survey should take no more than 300 minutes to complete. Do you have any questions regarding my visit?

The U.S. Department of Energy (DOE) would like to inform each individual that the information requested here is being solicited under the statutory authority of Title III of the Energy Policy and Conservation Act of 1975, as amended, which authorizes DOE to administer the State Energy Program (SEP). This information is being sought as part of a national evaluation of SEP, the purpose of which is to reliably quantify Program accomplishments and help inform decisions on future operations. The sole use of the information collected will be for an analysis of national-level Program impacts. Disclosure of this information is voluntary and there will be no adverse effects associated with not providing all or any part of the requested information.

## **Building Plan Review**

**BP1** Identify the major functional spaces, or building areas, with distinct schedules or HVAC systems and determine the percentage of space distribution by building area where the project was installed. The total percentage of the floor area represented by these areas should represent the majority of the building (i.e., close to 100%). Use the Building Area Sketch Sheets to assist as necessary.

	Area	Area	% of	% of Area Conditioned by				
Area ID	Code	Description	Overall Building Area	Heating	Cooling	Uncond.	Refrigerated	
A1								
A2								
A3								
A4								
A5								
A6								
A7								
A8								
A9								
A10								

AA Code	Activity Area Type Description	AA Code	HVAC Type Description	HVAC Code	HVAC Type Description
1	Auditorium/Gym	22	Guest Room (Hotel/Motel)	42	Religious Worship
2	Auto Repair Workshop	23	Kitchen/Break Room & Food Prep	43	Residential
3	Bank/Financial	24	Laboratory	44	Restrooms
4	Bar Cocktail Lounge	25	Laundry	45	Retail Sales / Showroom
5	Barber/Beauty Shop	26	Library	46	Smoking Lounge

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Site ID #	
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6	Casino/Gaming	27	Loading Dock	47	Storage (Conditioned)
7	Classroom/Lecture	28	Lobby (Hotel)	48	Storage (Unconditioned)
8	Clean Room	29	Lobby (Main Entry and Assembly)	49	Storage (Refrigerated/Freezer), Walk-In
9	Computer Room/Data Processing	30	Lobby (Office ReceptionWaiting)	50	Storage (Refrigerated/Freezer), Building
10	Com/Ind Work (General High Bay)	31	Locker and Dressing Room	51	Surgery Rooms
11	Com/Ind Work (General Low Bay)	32	Mall Arcade and Atrium	52	Theater (Motion Picture)
12	Com/Ind Work (Precision)	33	Mechanical/Electrical Room	53	Theater (Performance)
13	Conference Room	34	Medical Offices and Exam Rooms	54	Unknown
14	Convention and Meeting Center	35	Office (Executive/Private)	55	Vacant (Conditioned)
15	Copy Room	36	Office (General)	56	Vacant (Unconditioned)
16	Corridor/Hallways	37	Office (Open Plan)	57	Vocational Areas
17	Courtrooms	38	Patient Rooms	98	Non Rebated Area
18	Dining Area	39	Patio Area	99	Other Unlisted Activity Types
19	Dry Cleaning	40	Pool/Spa Area		
20	Exercise Centers/Gymnasium	41	Police/Fire Station	100	Outside / Outdoor Area
21	Exhibit Display Area / Museum				

Description/Notes:		

# **Building Area Sketch Sheet**

[Use additional sheets as necessary]

Identify orientation (N and E); Highlight logger locations

## **Building Operating Schedules**

**BP2** Define the building operating schedules for the building. Enter the operating hours for each schedule and then note the applicable building areas. (Enter 2400 for 24-hour operation, enter 0 for never open)

SCHD			Bu	ısiness Opera	ting Hours	S			Area IDs
ID	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Holidays	on this schedule
BH1	O:	O:	O:	O:	O:	O:	O:	O:	A1 A2 A3 A4 A5
	C:	C:	C:	C:	C:	C:	C:	C:	A6 A7 A8 A9 A10
BH2	O:	O:	O:	O:	O:	O:	O:	O:	A1 A2 A3 A4 A5
	C:	C:	C:	C:	C:	C:	C:	C:	A6 A7 A8 A9 A10
вн3	O:	O:	O:	O:	O:	O:	O:	O:	A1 A2 A3 A4 A5
	C:	C:	C:	C:	C:	C:	C:	C:	A6 A7 A8 A9 A10
BH4	O:	O:	O:	O:	O:	O:	O:	O:	A1 A2 A3 A4 A5
	C:	C:	C:	C:	C:	C:	C:	C:	A6 A7 A8 A9 A10
BH5	O:	O:	O:	O:	O:	O:	O:	O:	A1 A2 A3 A4 A5
	C:	C:	C:	C:	C:	C:	C:	C:	A6 A7 A8 A9 A10
ВН6	O:	O:	O:	O:	O:	O:	O:	O:	A1 A2 A3 A4 A5
	C:	C:	C:	C:	C:	C:	C:	C:	A6 A7 A8 A9 A10
BH7	O:	O:	O:	O:	O:	O:	O:	O:	A1 A2 A3 A4 A5
	C:	C:	C:	C:	C:	C:	C:	C:	A6 A7 A8 A9 A10
BH8	O:	O:	O:	O:	O:	O:	O:	O:	A1 A2 A3 A4 A5
	C:	C:	C:	C:	C:	C:	C:	C:	A6 A7 A8 A9 A10
ВН9	O:	O:	O:	O:	O:	O:	O:	O:	A1 A2 A3 A4 A5
	C:	C:	C:	C:	C:	C:	C:	C:	A6 A7 A8 A9 A10
BH10	O:	O:	O:	O:	O:	O:	O:	O:	A1 A2 A3 A4 A5
	C:	C:	C:	C:	C:	C:	C:	C:	A6 A7 A8 A9 A10

Description/Notes:

## [IF BP1Cooling>0, else skip to BP4]

## **HVAC Operating Schedules**

**BP3:** Define the HVAC Occupied and Unoccupied schedules for the building. Enter the occupied hours for each schedule and then note the applicable building areas. (Enter 2400 for 24-hour operation, enter 0 for never open)

HVAC				HVAC Op	erating H	ours			Area IDs
ID	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Holidays	on this schedule
H1	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	AA1 AA2 AA3 AA4 AA5 AA6 AA7 AA8 AA9 AA10
H2	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	AA1 AA2 AA3 BH4 AA5 AA6 AA7 AA8 AA9 AA10
Н3	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	AA1 AA2 AA3 AA4 AA5 AA6 AA7 AA8 AA9 AA10
H4	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	AA1 AA2 AA3 AA4 AA5 AA6 AA7 AA8 AA9 AA10
H5	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	AA1 AA2 AA3 AA4 AA5 AA6 AA7 AA8 AA9 AA10
Н6	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	AA1 AA2 AA3 AA4 AA5 AA6 AA7 AA8 AA9 AA10

| H7  | O:<br>C: | AA1 AA2 AA3 AA4<br>AA5 AA6 AA7 AA8<br>AA9 AA10 |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|--|
| Н8  | O:<br>C: | AA1 AA2 AA3 AA4<br>AA5 AA6 AA7 AA8<br>AA9 AA10 |
| Н9  | O:<br>C: | AA1 AA2 AA3 AA4<br>AA5 AA6 AA7 AA8<br>AA9 AA10 |
| H10 | O:<br>C: | AA1 AA2 AA3 AA4<br>AA5 AA6 AA7 AA8<br>AA9 AA10 |

## [If BP1 Cooling or Heating >0, else skip to BP5]

Room Thermostat Setpoints

**BP4.** Enter the values for heating and cooling thermostat setpoints during normal (occupied) and setback (unoccupied) periods for each HVAC operation schedule

	Period	Heating SetPoint	Cooling SetPoint		Period	Heating SetPoint	Cooling SetPoint
H1	Occupied			Н6	Occupied		
	Unoccupied				Unoccupied		
H2	Occupied			H7	Occupied		
	Unoccupied				Unoccupied		
Н3	Occupied			Н8	Occupied		
	Unoccupied				Unoccupied		
H4	Occupied			Н9	Occupied		
	Unoccupied				Unoccupied		
Н5	Occupied			H10	Occupied		
	Unoccupied				Unoccupied		

## **Interior Lighting Operating Hours**

**BP5:** Define the interior lighting operating schedules for the building. Enter the interior lighting operating hours and then note the applicable building occupancy schedule. (Enter 2400 for 24-hour for lighting operation hours, enter 0 for never on).

SCHD			Interi	or Lighting	g Operatin	g Hours			Area IDs
ID	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Holiday s	on this schedule
IL1	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	AA1 AA2 AA3 AA4 AA5 AA6 AA7 AA8 AA9 AA10
IL2	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	AA1 AA2 AA3 AA4 AA5 AA6 AA7 AA8 AA9 AA10
IL3	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	AA1 AA2 AA3 AA4 AA5 AA6 AA7 AA8 AA9 AA10
IL4	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	AA1 AA2 AA3 AA4 AA5 AA6 AA7 AA8 AA9 AA10
IL5	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	AA1 AA2 AA3 AA4 AA5 AA6 AA7 AA8 AA9 AA10
IL6	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	O: C:	AA1 AA2 AA3 AA4 AA5 AA6 AA7 AA8 AA9

									AA10
IL7	O: C:	AA1 AA2 AA3 AA4 AA5 AA6 AA7 AA8 AA9 AA10							
IL8	O: C:	AA1 AA2 AA3 AA4 AA5 AA6 AA7 AA8 AA9 AA10							
IL9	O: C:	AA1 AA2 AA3 AA4 AA5 AA6 AA7 AA8 AA9 AA10							
IL10	O: C:	AA1 AA2 AA3 AA4 AA5 AA6 AA7 AA8 AA9 AA10							

## **Exterior Lighting Operating Hours**

**BP6:** Define the exterior lighting operating schedules for the building if on timer or manual switches. Enter the exterior lighting operating hours and then note the applicable building occupancy schedule. (Enter 2400 for 24-hour for lighting operation hours, enter 0 for never on).

SCHD			Ext	terior Ligh	ting Opera	ting Hours	5	
ID	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Holidays
DI 4	O:	O:	O:	O:	O:	O:	O:	O:
EL1	C:	C:	C:	C:	C:	C:	C:	C:
TI 0	O:	O:	O:	O:	O:	O:	O:	O:
EL2	C:	C:	C:	C:	C:	C:	C:	C:
EL3	O:	O:	O:	O:	O:	O:	O:	O:

|      | C: |
|------|----|----|----|----|----|----|----|----|
| EI 4 | O: |
| EL4  | C: |
| DIE. | O: |
| EL5  | C: |

<b>BP7:</b> How is the exterior lighting controlled? (check all that apply)
---

Manual Switches*	Daylight Sensors	
Time Clock*	Other (explain)	
Occupancy Sensors	Don't Know	

|--|

Description/Notes:			

# **Building Characteristics**

P EG N
 EF
 ≣F
≣F
≣F
Don't know
Refused
3 4 5 6 7

1. Office 2. Retail (non-food) 3. College/University 4. School 5. Grocery store 6. Restaurant 7. Health care (other than hospital) 8. Hospital 9. Hotel/Motel 10. Warehouse 11. Construction 12. Community service/Religious/Municipality 13. Industrial process/Manufacturing 14. Condo association/Apt. management 15. Greenhouse 16. Laundry/Dry cleaner 17. Other (specify)	BC4. Primary business activity at the facility	
3. College/University 4. School 5. Grocery store 6. Restaurant 7. Health care (other than hospital) 8. Hospital 9. Hotel/Motel 10. Warehouse 11. Construction 12. Community service/Religious/Municipality 13. Industrial process/Manufacturing 14. Condo association/Apt. management 15. Greenhouse 16. Laundry/Dry cleaner 17. Other (specify)	1. Office	
4. School 5. Grocery store 6. Restaurant 7. Health care (other than hospital) 8. Hospital 9. Hotel/Motel 10. Warehouse 11. Construction 12. Community service/Religious/Municipality 13. Industrial process/Manufacturing 14. Condo association/Apt. management 15. Greenhouse 16. Laundry/Dry cleaner 17. Other (specify)	2. Retail (non-food)	
5. Grocery store 6. Restaurant 7. Health care (other than hospital) 8. Hospital 9. Hotel/Motel 10. Warehouse 11. Construction 12. Community service/Religious/Municipality 13. Industrial process/Manufacturing 14. Condo association/Apt. management 15. Greenhouse 16. Laundry/Dry cleaner 17. Other (specify)	<ol><li>College/University</li></ol>	
6. Restaurant 7. Health care (other than hospital) 8. Hospital 9. Hotel/Motel 10. Warehouse 11. Construction 12. Community service/Religious/Municipality 13. Industrial process/Manufacturing 14. Condo association/Apt. management 15. Greenhouse 16. Laundry/Dry cleaner 17. Other (specify)	4. School	
7. Health care (other than hospital) 8. Hospital 9. Hotel/Motel 10. Warehouse 11. Construction 12. Community service/Religious/Municipality 13. Industrial process/Manufacturing 14. Condo association/Apt. management 15. Greenhouse 16. Laundry/Dry cleaner 17. Other (specify)	<ol><li>Grocery store</li></ol>	1 2 2 4 5 6 7 9 0
8. Hospital 9. Hotel/Motel 10. Warehouse 11. Construction 12. Community service/Religious/Municipality 13. Industrial process/Manufacturing 14. Condo association/Apt. management 15. Greenhouse 16. Laundry/Dry cleaner 17. Other (specify)	6. Restaurant	1 2 3 4 5 6 7 8 9
9. Hotel/Motel 10. Warehouse 11. Construction 12. Community service/Religious/Municipality 13. Industrial process/Manufacturing 14. Condo association/Apt. management 15. Greenhouse 16. Laundry/Dry cleaner 17. Other (specify)	1	10 11 12 13 14 15 16
10. Warehouse 11. Construction 12. Community service/Religious/Municipality 13. Industrial process/Manufacturing 14. Condo association/Apt. management 15. Greenhouse 16. Laundry/Dry cleaner 17. Other (specify)	· ·	
10. Warehouse 11. Construction 12. Community service/Religious/Municipality 13. Industrial process/Manufacturing 14. Condo association/Apt. management 15. Greenhouse 16. Laundry/Dry cleaner 17. Other (specify)		17
12. Community service/Religious/Municipality 13. Industrial process/Manufacturing 14. Condo association/Apt. management 15. Greenhouse 16. Laundry/Dry cleaner 17. Other (specify)		
13. Industrial process/Manufacturing 14. Condo association/Apt. management 15. Greenhouse 16. Laundry/Dry cleaner 17. Other (specify)		
14. Condo association/Apt. management 15. Greenhouse 16. Laundry/Dry cleaner 17. Other (specify)	1	18 19
15. Greenhouse 16. Laundry/Dry cleaner 17. Other (specify)	•	
16. Laundry/Dry cleaner 17. Other (specify)		
17. Other (specify)		
· · · · · · · · · · · · · · · · · · ·	1	
I 18. Don't know	* * * * * * * * * * * * * * * * * * * *	
19. Refused	19. Retused	
BC5. Number of part-time and full-time	BC5. Number of part-time and full-time	1
employees  2. Don't know 3. Refused	·	

# [If BP1 Cooling >0, else skip to H1] Cooling Equipment –Verification of Installed Measures

Cooling Type <from system="" tracking=""></from>	C1. Cooling Type Installed*	C2. Qty Installed	C3. Capacity	C4. Efficiency	C5. Building Area ID	C6. Frequency of Use*	C7. Hrs of Operation Vary with Weather
	SS PS PTAC EC C IAC W O DK REF		tonskBtuhkW	EER SEER Btu/hr kW/ton Other	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2 3 4 5	Y N DK REF
	SS PS PTAC EC C IAC W O DK REF		tonskBtuhkW	EER SEER Btu/hr kW/ton Other	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2 3 4 5	Y N DK REF
	SS PS PTAC EC C IAC W O DK REF		tonskBtuhkW	EER SEER Btu/hr kW/ton Other	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2 3 4 5	Y N DK REF
	SS PS PTAC EC C IAC W O DK REF		tonskBtuhkW	EER SEER Btu/hr kW/ton Other	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2 3 4 5	Y N DK REF

SS PS PTAC EC C IAC W O DK REF	tonskBtuhkW	EER SEER Btu/hr kW/ton Other	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2 3 4 5	Y N DK REF
SS PS PTAC EC C IAC W O DK REF	tonskBtuhkW	EER SEER Btu/hr kW/ton Other	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2 3 4 5	Y N DK REF
SS PS PTAC EC C IAC W O DK REF	tonskBtuhkW	EER SEER Btu/hr kW/ton Other	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2 3 4 5	Y N DK REF
SS PS PTAC EC C IAC W O DK REF	tonskBtuhkW	EER SEER Btu/hr kW/ton Other	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2 3 4 5	Y N DK REF
SS PS PTAC EC C IAC W O DK REF	tonskBtuhkW	EER SEER Btu/hr kW/ton Other	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2 3 4 5	Y N DK REF

#### \*KEY CODES

#### **Cooling Type**

SS=Split system

**PS**=Package system

PTAC=Package terminal AC or heat pump

**EC**=Evaporative cooler

**C**=Water chiller/cooling tower

IAC=Individual AC or heat pump

**W**=Window/Wall units

**O** = Other (describe)

**DK** = Don't know

**REF** = Refused

#### Frequency of Use

- 1. All summer
- 2. Quite a bit
- 3. Only a few times when needed
- 4. Not at all
- 5. Don't know

Notes:			
	 _	 	

**Cooling Equipment – Discrepancy of Installed Measures** (repeat set of questions for each type of equipment installed where verification identified discrepancies from tracking system and CATI data)

	_
	Installed Equipment
CV1. Cooling Type	SS PS PTAC EC
SS=Split system	
PS=Package system PTAC=Package terminal AC or heat pump	C IAC W
EC=Evaporative cooler	o
C=Water chiller/cooling tower	
IAC=Individual AC or heat pump W=Window/Wall units	DK REF
O = Other (describe)	
<b>DK</b> = Don't know	
REF = Refused	
[IF C2 not equal to quantity in tracker, else skip to CV3]	
eise skip to CVS	1 2 3 4
CV2. Reason quantity differed:	
	5
Put into storage	
Installed at another facility     Insufficient financial resources to	6 7
Insufficient financial resources to complete	
4. Other (describe)	
5. Don't know	
6. Refused	
[IF C3 not equal to quantity in tracker,	
else skip to CR1] CV3. Reason capacity differed:	1 2 3 4
Cv3. Reason capacity uniereu.	
1. Put into storage	5
<ol><li>Installed at another facility</li></ol>	
Insufficient financial resources to	6 7
complete	
4. Other (describe) 5. Don't know	
6. Refused	
[IF C4 not equal to quantity in tracker,	
else skip to CR1]	
CV4. Reason capacity differed:	1 2 3 4
Put into storage	5
<ol><li>Installed at another facility</li></ol>	
Insufficient financial resources to complete	6 7
4. Other (describe)	
5. Don't know	
6. Refused	

Notes:				

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**Cooling Equipment – Replaced Equipment** (repeat set of questions for each type of equipment replaced)

	Replaced Equipment
CR1. Cooling Type Replaced	ivehiacea Equipilient
SS=Split system PS=Package system PTAC=Package terminal AC or heat pump EC=Evaporative cooler C=Water chiller/cooling tower IAC=Individual AC or heat pump W=Window/Wall units O = Other (describe) N=None DK= Don't know REF= Refused	SS PS PTAC EC C IAC W O N DK REF [If N, DK, REF skip to H1]
CR2. Quantity	1 2. Don't know 3. Refused
CR3. Capacity	1tons 2Btu/hr 3therm 4kW 5. Don't know 6. Refused
CR4. Condition of replaced equipment G= Good F= Fair P=Poor I=Inoperable DK=Don't know REF=Refused CR5. Efficiency	G F P I DK REF EERSEERBtu/hrkW/tonOther
CR6. Estimated Age 1. <5 years old 2. 5-10 years old 3. 11-20 years old 4. >20 years old 5. Don't know	1 2 3 4 5 6

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			,
6. Refused			
Notes:			

<b>Non-residential</b>	On-Site	Surve	v Form -	Prescriptive

Heating Type <from system="" tracking=""></from>	H1. Heating Type Installed*	H2. Qty Installed	H3. Fuel Type	H4. Size	H5. Efficiency (AFUE)	H6. Building Area ID	H7. Frequency of Use*
	C P SH SS F D R O DK REF		<ol> <li>Natural gas</li> <li>Fuel oil</li> <li>LP gas</li> <li>Other</li> </ol>	1kW 2kBtuh 3HP 4. Other		A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2 3 4 5
	C P SH SS F D R O DK REF		<ol> <li>Electricity</li> <li>Natural gas</li> <li>Fuel oil</li> <li>LP gas</li> <li>Other</li> </ol>	1kW 2kBtuh 3HP 4. Other		A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2 3 4 5
	C P SH SS F D R O DK REF		<ol> <li>Electricity</li> <li>Natural gas</li> <li>Fuel oil</li> <li>LP gas</li> <li>Other</li> </ol>	1kW 2kBtuh 3HP 4. Other		A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2 3 4 5
	C P SH SS F D R O DK REF		1. Electricity 2. Natural gas 3. Fuel oil 4. LP gas 5. Other	1kW 2kBtuh 3HP 4. Other		A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2 3 4 5
	C P SH SS F D R O DK REF		1. Electricity 2. Natural gas 3. Fuel oil 4. LP gas 5. Other	1kW 2kBtuh 3HP 4. Other		A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2 3 4 5
	C P SH SS F D R O		Electricity     Natural gas     Fuel oil     LP gas	1kW 2kBtuh 3HP 4. Other		A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2 3 4 5

DK REF	<b>5.</b> Other					
C P SH SS F D R O DK REF	1. Electricity 2. Natural gas 3. Fuel oil 4. LP gas 5. Other	1kW 2kBtuh 3HP 4. Other	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2	3	4 5
C P SH SS F D R O DK REF	1. Electricity 2. Natural gas 3. Fuel oil 4. LP gas 5. Other	1kW 2kBtuh 3HP 4. Other	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2	3	4 5
C P SH SS F D R O DK REF	1. Electricity 2. Natural gas 3. Fuel oil 4. LP gas 5. Other	1kW 2kBtuh 3HP 4. Other	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2	3	4 5

## \*KEY CODES

Heating Types
C=Central Boiler
<b>P</b> =Package Heating Units
SH=Individual Space Heater/Portable Room Heater/Strip Heating
SS=Split-system Heat Pumps
F=Central Furnaces
<b>D</b> =District Steam or Hot Water
R=Radiant Heaters
<b>O</b> =Other (specify)
<b>DK</b> =Don't know
<b>REF</b> =Refused

Non-residential On-S	ite Survey Form	- Prescriptive
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Notes:		
-		

**Heating Equipment –Installed Measures Discrepancies** (repeat set of questions for each type of equipment installed where verification identified discrepancies from tracking system and CATI data)

	Installed Equipment			
HV1. Heating Type Installed				
C=Central boilers	C P SH SS F D R			
P=Package heating units				
SH=Individual space heater/portable room	0			
heater/strip heating	DV DEE			
SS=Split system heat pumps F=Central furnaces	DK REF			
D=District steam or hot water				
R=Radiant heaters				
O=Other (specify)				
<b>DK</b> =Don't know				
<b>REF</b> =Refused				
[Ask If quantity not equal to quantity in tracker,				
else skip to HV3]				
•	1 2 3 4			
HV2. Reason quantity differed:				
	5			
<ol> <li>Put into storage</li> </ol>				
Installed at another facility	6 7			
3. Insufficient financial resources to complete				
4. Other (describe)				
5. Don't know				
6. Refused				
[Ask If capacity not equal to quantity in tracker,				
else skip to HR1] HV3. Reason capacity differed:	1 2 3 4			
nvs. Reason capacity uniereu:	1 2 3 4			
1. Put into storage	5			
Installed at another facility				
3. Insufficient financial resources to complete	6 7			
4. Other (describe)				
5. Don't know				
6. Refused				
Notes:				
Heating Equipment – Replaced Equipment (repeat set of questions for each type of				
equipment replaced)	<del></del>			
, , , , ,				
	Replaced Equipment			

HR1. Heating Type Replaced	
C=Central boilers	C P SH SS F D R
P=Package heating units	
SH=Individual space heater/portable room heater/strip	0
heating	
SS=Split system heat pumps	N DK REF
F=Central furnaces	
D=District steam or hot water	[If N, DK, REF, skip to CDV1]
R=Radiant heaters	
O=Other (specify) N = None	
N = None   DK=Don't know	
REF=Refused	1
HR2. Quantity	1 2. Don't know
	3. Refused
HR3. Capacity	1. tons
nks. Capacity	2Btu/hr
	3. therm
	4. kW
	5. Don't know
	6. Refused
	o. Reluseu
HR4. Condition of replaced equipment	
G= Good	
<b>F</b> = Fair	G F P I DK REF
P=Poor	G F F I DK KEF
I=Inoperable	
<b>DK</b> =Don't know	
REF=Refused	
HR5. Efficiency	EER
This Emolency	SEER
	Btu/hr
	kW/ton
	Other
HR 6. Estimated Age	
1. <5 years old	1 2 3 4 5 6
2. 5-10 years old	
3. 11-20 years old	
4. >20 years old	
5. Don't know	
6. Refused	
Notes:	
-	

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## [If BP1 Heating or Cooling >0, else skip to RV1]

## Heating/Cooling Controls and VSD Equipment - Installed

(repeat set of questions for each type of equipment installed under the program)

	Installed Equipment
CDV1. Controls Type Installed  ASD=Adjustable speed drives or variable speed drives  EMS=Energy management system  CMT=HVAC controls – manual thermostat  CBT=HVAC controls – bypass timer  CTC=HVAC controls – time clock  CPT=HVAC controls – programmable thermostat  SV=CO2 sensor/demand control ventilation  E=EconomizersO=Other (specify)  N = None  DK=Don't know  REF=Refused  CDV2. Quantity	ASD EMS  CMT CBT CTC CPT  SV E  O  N DK REF  [If N, DK, REF, skip to R1]  1 2. Don't know 3. Refused
CDV3. Percentage of total enclosed floor space in the facility the control serves?	1. 2. Don't know 3. Refused
[Ask If CDV2 not equal to quantity in tracker, else skip to CDR1]  CDV4. Reason quantity differed:  1. Put into storage 2. Installed at another facility 3. Insufficient financial resources to complete 4. Other (describe) 5. Don't know 6. Refused	1 2 3 4 5 6 7
Notes:	

# Heating/Cooling Controls and VSD Equipment – Replaced

	Replaced Equipment
CDR1. Controls Type Replaced	
ASD=Adjustable speed drives	ASD EMS
7.7	ASD EMS

EMS=Energy management system CMT=HVAC controls – manual thermostat	CMT CBT CTC CPT		
CBT=HVAC controls – mandar thermostat  CBT=HVAC controls – bypass timer	CMI CBI CIC CPI		
CTC=HVAC controls – time clock	SV E		
<b>CPT</b> =HVAC controls – programmable thermostat			
SV=CO2 sensor/demand control ventilation	0		
<b>E</b> =Economizers			
<b>O</b> =Other (specify)	N DK REF		
<b>N</b> =None			
<b>DK</b> =Don't know	[If N, DK, REF, skip to R1]		
REF=Refused	1.		
CDR2. Quantity	2. Don't know		
	3. Refused		
CDR3. Condition of replaced equipment	J. Neiuseu		
G= Good			
<b>F</b> = Fair	G F P I DK REF		
<b>P</b> =Poor			
I=Inoperable			
<b>DK</b> =Don't know			
REF=Refused			
CDR4. Estimated Age			
1. <5 years old	1 2 3 4 5 6		
2. 5-10 years old			
3. 11-20 years old			
<b>4.</b> >20 years old			
5. Don't know			
6. Refused			
Notes:			
110000			
	<del></del>		

## Refrigeration Equipment – Installed

(repeat set of questions for each type of equipment installed under the program)[If BP1 Refrigeration >0, else skip to M1]

	Installed Equipment
RV1. Refrigeration Measure RR=Residential sized refrigerator RF=Residential sized freezer LR=Large standard refrigerator (>30 cf)	RR RF LR HC VC SDO SDD
HC=Self contained – coffin/horizontal case	WIDO WIDD WF
VC=Self contained – vertical case (multi shelf)	O
SDO=Single deck display cases - open single deck SDD=Single deck display cases - glass door cases MDO=Multi deck display cases - open single deck MDD=Multi deck display cases - glass door cases WF=Walk-in freezers O=Other (specify) DK=Don't know REF=Refused	DK REF
RV2. Quantity	1 2. Don't know 3. Refused
[Ask If RV2 not equal to quantity in tracker, else	
skip to RV4]	1 2 3 4
RV3. Reason quantity differed:	5
1. Put into storage	
Installed at another facility     Insufficient financial resources to	6 7
complete	
<ul><li>4. Other (describe)</li><li>5. Don't know</li></ul>	
6. Refused	
RV4. How many were used to REPLACE existing units?	1 2. Don't know
	3. Refused
RV5. Total size of the units installed to replace existing units	1 2. Don't know
oxiomig dinic	3. Refused
RV6. How many were used to INCREASE	1
refrigeration capacity?	<ul><li>2. Don't know</li><li>3. Refused</li></ul>
RV7. Total size of the units installed to increase	1
refrigeration capacity	<ol> <li>Don't know</li> <li>Refused</li> </ol>
RV8. Number of hours the unit is left open	1.
•	2. Don't know
DVO When the unit is alread mumber of times it	3. Refused
RV9. When the unit is closed, number of times it is opened per hour	1 2. Don't know
P. verson from each	3. Refused
Notes:	

Ion-residential On-Site Survey Form - Prescriptive	Site ID #
	Replaced Equipment
Ask If RV4>0, else skip to M1]	
RR1. Amount of refrigeration equipment removed	

	Replaced Equipment				
[Ask If RV4>0, else skip to M1]					
RR1. Amount of refrigeration equipment removed	1 2 2 4 5				
compared to the amount of capacity installed:	1 2 3 4 5				
1. Same					
2. More					
3. Less					
4. Don't know					
5. Refused					
[Ask If RR1 =2, else skip to RR3]	1				
	2. Don't know				
RR2. How much LESS capacity was installed?	3. Refused				
[Ask If RR1 =3, else skip to RR4]	1.				
RR3. How much MORE capacity was installed?	2. Don't know				
	3. Refused				
RR4. What year was the old equipment removed?					
4	1 2 3 4 5 6				
1. 2008					
2. 2009					
3. 2010					
4. 2011					
5. Don't know					
6. Refused					
RR5. Condition of replaced equipment					
G= Good	0 5 0 1 0% 055				
F= Fair P=Poor	G F P I DK REF				
I=Inoperable					
<b>DK</b> =Don't know					
REF=Refused					
RR6. Estimated age of removed equipment					
1. <5 years old	1 2 3 4 5 6				
2. 5-10 years old					
3. 11-20 years old					
<b>4.</b> >20 years old					
5. Don't know					
6. Refused					
RR7. Percentage of removed capacity disposed of by					
the following methods:	1				
	2				
Never removed equipment	3				
2. Sent to landfill	4				

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<ol><li>Moved to another location in the company</li></ol>	5
4. Sold or given to another company or residence for	6
use	7
<ol><li>Recycled or sold for scrap</li></ol>	
6. Don't know	
7. Refused	
8.	
Notes:	
-	

Site ID #
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#### Motors - Verification of Installed Measures

Motor Size (HP)	M1: Qty Purchased <from tracking&gt;</from 	M2: Qty Installed	M3: Qty Premium Efficiency	[If M2 not equal to M1] M4: Reason for Qty Discrepancy*	M5: Equipment Type Driven by Motor (multiple responses)*	M6: Qty Replaced	M7: Qty of Existing Motors Rewound
1-5							
6-20							
21-50							
51-100							
101-200							
201-500							

#### \*KEY CODES

Reason for q	uantity	discre	pancy:
--------------	---------	--------	--------

- 1. Put into storage
- 2. Installed at another facility
- 3. Insufficient financial resources to complete
- 4. Other (describe)\_\_\_\_\_
- 5. Don't know
- 6. Refused

## Motor Applications:

- 1. HVAC equipment (describe in notes section the type of equipment: condenser fans, exhaust fans, etc.)
- 2. Pump (describe in notes section type of equipment: hot water pumps, chilled water primary pump, chilled water secondary pump, hot water secondary or primary pump, condenser pumps, etc.)

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- 3. Fan
- Air compressor
   Conveyor belt or other materials handling
   Production process machinery
- 7. Other(describe)\_\_\_\_\_\_ 8. Don't know
- 9. Refused

# **Motors – Hours of Operation for Non-HVAC Installed Motors** (repeat for each multiple response to M5)

	Non-HVAC Installed Motors
M8. Number of hours per day the equipment typically operates	1 2. Don't know 3. Refused
M9. Number of days per week the equipment typically operates	1 2. Don't know 3. Refused
M10. Are there months during the year that differ significantly from the responses to M8 and M9?	<ol> <li>Yes</li> <li>No</li> <li>Don't know</li> <li>Refused</li> </ol>
[Ask If M10 = Yes, else skip to L1] M11. Number of hours per day the equipment operates during the periods with different operating schedules	1 2. Don't know 3. Refused
M12. Number of days per week does the equipment operates during the periods with different operating schedules	1 2. Don't know 3. Refused
M12. Number of months the equipment operates on the different operating schedules	1 2. Don't know 3. Refused
Notes:	

Notes:		

# Lighting Equipment and Controls – Verification of Installed Measures

Measure Type <from system="" tracking=""></from>	L1. Qty Installed	L2. Wattage of Installed Measure	L3. Operational	L4. Building Area ID	L5. Square Feet Served by Measure
			Y N	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2. Don't know 3. Refused
			Y N	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2. Don't know 3. Refused
			Y N	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2. Don't know 3. Refused
			Y N	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2. Don't know 3. Refused
			Y N	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2. Don't know 3. Refused
			Y N	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2. Don't know 3. Refused
			Y N	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2. Don't know 3. Refused
			Y N	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2. Don't know 3. Refused
			Y N	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	1 2. Don't know 3. Refused

## **Lighting Control Measures**

Control Measure Type <from tracking<br="">system&gt;</from>	LC1. Wattage Controlled	LC2. Hours/day before Control	LC3. % Reduction in Operating Hours	
			1 2. Don't know <b>3.</b> Refused	
			1 2. Don't know <b>3.</b> Refused	
			1 2. Don't know <b>3.</b> Refused	
			1 2. Don't know <b>3.</b> Refused	
			1 2. Don't know <b>3.</b> Refused	
			1 2. Don't know <b>3.</b> Refused	
			1 2. Don't know <b>3.</b> Refused	
			1 2. Don't know <b>3.</b> Refused	
			1 2. Don't know <b>3.</b> Refused	

**Lighting – Installed Measures Discrepancies** (repeat set of questions for each type of equipment installed where verification identified discrepancies from tracking system and CATI data)

				Installed Equipment
[Ask If L1 differs from quantity in trackers, else				
LV2]	4	2 3	4	
LV1. Reason quantity differed:	5	2 3	4	
1. No idea				
2. Put into storage	6	7		
3. Installed at another facility				
4. Insufficient financial resources to complete				
5. Other (describe)				
6. Don't know				
7. Refused				

[Ask If L2 differs from quantity in trackers, else LR1]  LV2. Reason wattage differed:  1. Put into storage 2. Installed at another facility 3. Insufficient financial resources to complete 4. Other (describe) 5. Don't know 6. Refused	1 5_ 6	7	3	4	1	_			
Notes:									

## Lighting - Replaced Equipment (repeat set of questions for each type of equipment replaced)

	Replaced Equipment
LR1: Type of lighting fixtures replaced*	[If N, DK, REF, skip to O1, else continue to LR2]
LR2. Did you remove the same number of old fixtures as installed?	
<ol> <li>Same</li> <li>More</li> <li>Less</li> <li>Don't know</li> </ol> 5. Refused	1 2 3 4 5
[If LR2=2, else skip to LR4] LR3. How fewer fixtures were installed?	1 2. Don't know 3. Refused
[If LR2=2, else skip to LR8] LR4. How many more fixtures installed?	1 2. Don't know 3. Refused
LR 5. Estimated age of removed equipment	1 2. Don't know 3. Refused

#### \*KEY CODES

**N=** Did not replace anything

**HT8**= High performance T8 - 1" diameter bulbs **T8**= T8 fluorescent fixtures T8 - 1" diameter bulbs

**T10**= T10 fluorescent fixtures

**T12=** T12 fixtures – 1.5" diameter bulbs

**HID**= High density discharge fixtures, compact

**CFS**=Compact fluorescent – screw-in modular

**CFH**= Compact fluorescent – hardwire

**I**=Incandescent

**EXCF**=Exit signs – compact fluorescent

**EXL**=Exit signs – LED

**H**=Halogen

**EB**=Electronic ballast

**DK** = Don't know

**REF**= Refused

**MB**=Magnetic ballast

FT=Fat/thick tubes

ST=Skinny/thin tubes

**T5**=T5 fixtures – 5/8" diameter

**HPS**=High pressure sodium

MH=Metal halide

**MV**=Mercury vapor

**OTH=**Other (specify)

**DK**=Don't know

**REF**=Refused

## Other Measure Verification

O1. Type of equipment		
O2. Quantity installed through the program	1. Number 2. Don't know 3. Refused	
O3. Facility's square footage served by this equipment	1. 2. Don't know 3. Refused	
O4. Type of equipment that was replaced		
O5. Condition of replaced equipment G= Good F= Fair P=Poor I=Inoperable DK=Don't know REF=Refused	G F P I DK REF	
O6. Estimated Age 1. <5 years old 2. 5-10 years old 3. 11-20 years old 4. >20 years old 5. Don't know 6. Refused	1 2 3 4 5 6	
O7. Did you remove the same		
<ol> <li>same</li> <li>More</li> <li>Less</li> <li>Don't know</li> <li>Refused</li> </ol>	1 2 3 4 5	
Notes:		