



Jessica A. Cano Senior Attorney Florida Power & Light Company 700 Universe Boulevard Juno Beach, FL 33408-0420 (561) 304-5226 (561) 691-7135 (Facsimile)

April 27, 2015

-VIA HAND DELIVERY-

Carlotta Stauffer, Director Division of Commission Clerk Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850

Re: Docket No. 150085-EG; FPL's Responses to Staff's First Data Request

Dear Ms. Stauffer:

Please find enclosed an original and five copies of FPL's responses to Staff's First Data Request, Nos. 1-41. The response to Question No. 10 and the documents responsive to Question No. 34 are confidential, and are being filed separately with a Notice of Intent to Request Confidential Classification.

If there are any questions regarding this filing, please contact me at 561-304-5226.

Sincerely,

Jessica A. Cano

Fla. Bar No. 0037372

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 1 Page 1 of 1

Q.

Please provide the estimated costs of each program's incentives, administrative & equipment costs, and total costs for the ten-year goals period (nominal and net present value). Also, please provide the percentage of total costs that are used for incentives by program. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Costs (Nominal)							
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives			
[Residential]							
Residential Subtotal							
[Comm/Industrial]							
Comm/Ind. Subtotal							
Common Expenses							
Total		To Parking To		HE STATE			

Program Costs (NPV)						
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives		
[Residential]						
Residential Subtotal						
[Comm/Industrial]						
Comm/Ind. Subtotal						
Common Expenses						
Total						

A.

Please see Attachment No. 1. Note that "n/a" (not applicable) is shown in the "Incentive" column for those programs that do not include incentives.

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	Program Costs (Non	ninal)		
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives
Residential Energy Survey	n/a	\$121,234,506	\$121,234,506	n/a
Residential Load Management (On Call®)	\$387,823,391	\$106,771,016	\$494,594,407	78%
Residential Air Conditioning	\$64,748,603	\$8,990,907	\$73,739,510	88%
Residential New Construction (BuildSmart®)	\$21,390,140	\$4,479,048	\$25,869,188	83%
Residential Ceiling Insulation	\$12,470,684	\$2,794,985	\$15,265,669	82%
Residential Low Income	\$6,590,300	\$861,260	\$7,451,560	88%
Residential Photovoltaic Pilot	\$4,000,000	\$210,246	\$4,210,246	95%
Residential Solar Water Heating Pilot	\$1,475,845	\$314,513	\$1,790,358	82%
Residential Solar Water Heating (LINC) Pilot	\$1,000,000	\$91,749	\$1,091,749	92%
Residential Subtotal	\$499,498,963	\$245,748,230	\$745,247,193	
Business Energy Evaluation	n/a	\$94,765,135	\$94,765,135	n/a
Business On Call	\$38,449,462	\$6,868,119	\$45,317,581	85%
Commercial/Industrial Demand Reduction	\$227,073,471	\$4,527,291	\$231,600,761	98%
Commercial/Industrial Load Control	\$417,542,170	\$3,417,981	\$420,960,151	99%
Business Heating, Ventilating, & Air Conditioning	\$56,338,677	\$12,810,956	\$69,149,633	81%
Business Lighting	\$2,841,355	\$2,099,584	\$4,940,940	58%
Business Custom Incentive	\$1,368,535	\$339,152	\$1,707,687	80%
Business Photovoltaic Pilot	\$2,800,000	\$150,496	\$2,950,496	95%
Business Photovoltaic for Schools Pilot	n/a	\$11,616,106	\$11,616,106	n/a
Business Solar Water Heating Pilot	\$1,000,000	\$82,207	\$1,082,207	92%
Business Subtotal	\$747,413,670	\$136,677,027	\$884,090,696	
Conservation Research & Development	n/a	\$2,718,720	\$2,718,720	n/a
Renewable Research & Demonstration	n/a	\$513,234	\$513,234	n/a
Cogeneration & Small Power Production	n/a	\$5,631,404	\$5,631,404	n/a
Other Subtotal	n/a	\$8,863,359	\$8,863,359	
Common Expenses	n/a	\$105,472,793	\$105,472,793	n/a
Total	\$1,246,912,633	\$496,761,408	\$1,743,674,041	

	Program Costs (NI	PV)		
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives
Residential Energy Survey	n/a	\$89,485,861	\$89,485,861	n/a
Residential Load Management (On Call®)	\$287,761,397	\$78,369,136	\$366,130,532	79%
Residential Air Conditioning	\$46,891,751	\$6,419,083	\$53,310,834	88%
Residential New Construction (BuildSmart®)	\$14,750,152	\$3,161,509	\$17,911,661	82%
Residential Ceiling Insulation	\$8,899,868	\$1,966,187	\$10,866,055	82%
Residential Low Income	\$4,855,845	\$625,312	\$5,481,157	89%
Residential Photovoltaic Pilot	\$4,000,000	\$210,246	\$4,210,246	95%
Residential Solar Water Heating Pilot	\$1,475,845	\$314,513	\$1,790,358	82%
Residential Solar Water Heating (LINC) Pilot	\$1,000,000	\$91,749	\$1,091,749	92%
Residential Subtotal	\$369,634,857	\$180,643,597	\$550,278,454	
Business Energy Evaluation	n/a	\$69,204,049	\$69,204,049	n/a
Business On Call	\$27,888,962	\$5,040,576	\$32,929,538	85%
Commercial/Industrial Demand Reduction	\$164,012,959	\$3,289,039	\$167,301,998	98%
Commercial/Industrial Load Control	\$307,024,251	\$2,484,358	\$309,508,608	99%
Business Heating, Ventilating, & Air Conditioning	\$40,981,166	\$9,176,058	\$50,157,223	82%
Business Lighting	\$1,998,017	\$1,460,219	\$3,458,236	58%
Business Custom Incentive	\$986,667	\$245,523	\$1,232,190	80%
Business Photovoltaic Pilot	\$2,800,000	\$150,496	\$2,950,496	95%
Business Photovoltaic for Schools Pilot	n/a	\$10,007,879	\$10,007,879	n/a
Business Solar Water Heating Pilot	\$1,000,000	\$82,207	\$1,082,207	92%
Business Subtotal	\$546,692,020	\$101,140,404	\$647,832,425	
Conservation Research & Development	n/a	\$2,060,762	\$2,060,762	n/a
Renewable Research & Demonstration	n/a	\$513,234	\$513,234	n/a
Cogeneration & Small Power Production	n/a	\$4,072,607	\$4,072,607	n/a
Other Subtotal	n/a	\$6,646,603	\$6,646,603	
Common Expenses	n/a	\$79,671,126	\$79,671,126	n/a
Total	\$916,326,878	\$368,101,730	\$1,284,428,608	

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Q.

Please provide the estimated costs of each program's administrative & equipment costs, costs for the ten-year goals period (nominal and net present value), broken into the categories detailed in the table below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Administrative & Equipment Costs (Nominal)									
Program Name	Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Vehicles & Travel	Other	Revenues (if any)	Total
[Residential]									
Residential Total			level (100	in all Brodery	
[Comm/Ind.]									
Comm/Ind. Total	EVEN REI								THE SO
Common Expenses									
Total						7 E# .			

Program Administrative & Equipment Costs (NPV)									
Program Name	Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Vehicles & Travel	Other	Revenues (if any)	Total
[Residential]									
Residential Total				EXXX		Z E Ž			
[Comm/Ind.]									
Comm/Ind. Total			Mary Till			S-VERS		22 X X X X X X X X X X X X X X X X X X	-/1-
Common Expenses									
Total		EX 725				Ta, sani Big	Ball		

A.

Please see Attachment No. 1. Note that FPL did not develop its administrative cost projections for the DSM Plan using the requested detailed categories. Therefore, for purposes of this response FPL has used various allocations based on past actual costs, etc. to reasonably attribute the costs to each category.

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 2 Attachment No. 1

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		Program Admini	strative & Equip	ment Costs (No	minal)				
	Depreciation	Payroll	Materials	Outside		Vehicles		Revenues	
Program Name	& Return	& Benefits	& Supplies	Services	Advertising	& Travel	Other	(if any)	Total
Residential Energy Survey	\$690,292	\$46,462,523	\$246,001	\$13,226,083	\$55,227,182	\$874,304	\$4,508,122	n/a	\$121,234,506
Residential Load Management (On Call®)	\$69,051,680	\$22,034,229	(\$14,351,605)	\$23,763,020	\$0	\$130,105	\$6,143,587	n/a	\$106,771,016
Residential Air Conditioning	\$0	\$7,552,405	\$5,679	\$761,650	\$0	\$238,771	\$432,402	n/a	\$8,990,907
Residential New Construction (BuildSmart®)	\$0	\$2,529,306	\$2,037	\$1,422,614	\$0	\$115,063	\$410,028	n/a	\$4,479,048
Residential Ceiling Insulation	\$0	\$2,391,614	\$113,277	\$89,492	\$0	\$0	\$200,603	n/a	\$2,794,985
Residential Low Income	\$0	\$684,748	\$221	\$0	\$0	\$13,347	\$162,944	n/a	\$861,260
Residential Photovoltaic Pilot	\$0	\$191,509	\$0	\$12,500	\$0	\$1,267	\$4,970	n/a	\$210,246
Residential Solar Water Heating Pilot	\$0	\$214,038	\$0	\$94,388	\$0	\$1,267	\$4,820	n/a	\$314,513
Residential Solar Water Heating (LINC) Pilot	\$0	\$76,629	\$0	\$13,500	\$0	\$0	\$1,620	n/a	\$91,749
Residential Subtotal	\$69,741,972	\$82,137,000	(\$13,984,391)	\$39,383,247	\$55,227,182	\$1,374,124	\$11,869,097	n/a	\$245,748,230
Business Energy Evaluation	\$0	\$53,368,485	\$140,042	\$11,158,650	\$26,010,000	\$492,691	\$3,595,266	n/a	\$94,765,135
Business On Call	\$3,864,560	\$1,265,153	(\$1,460,000)	\$2,609,870	\$0	\$30,764	\$557,772	n/a	\$6,868,119
Commercial/Industrial Demand Reduction	\$0	\$3,473,026	\$86,260	\$96,290	\$0	\$226	\$871,489	n/a	\$4,527,291
Commercial/Industrial Load Control	\$0	\$2,743,439	\$12,138	\$11,174	\$0	\$2,521	\$648,709	n/a	\$3,417,981
Business Heating, Ventilating, & Air Conditioning	\$0	\$10,180,190	\$4,380	\$1,408,751	\$0	\$335,813	\$881,820	n/a	\$12,810,956
Business Lighting	\$0	\$1,699,568	\$338	\$284,848	\$0	\$24,319	\$90,512	n/a	\$2,099,584
Business Custom Incentive	\$0	\$321,184	\$154	\$0	\$0	\$3,385	\$14,428	n/a	\$339,152
Business Photovoltaic Pilot	\$0	\$79,909	\$0	\$68,717	\$0	\$0	\$1,870	n/a	\$150,496
Business Photovoltaic for Schools Pilot	\$11,447,814	\$105,582	\$0	\$62,000	\$0	\$0	\$710	n/a	\$11,616,106
Business Solar Water Heating Pilot	\$0	\$35,225	\$0	\$44,862	\$0	\$0	\$2,120	n/a	\$82,207
Business Subtotal	\$15,312,374	\$73,271,762	(\$1,216,688)	\$15,745,162	\$26,010,000	\$889,720	\$6,664,696	n/a	\$136,677,027
Conservation Research & Development	\$0	\$379,800	\$136,939	\$2,198,795	\$0	\$0	\$3,187	n/a	\$2,718,720
Renewable Research & Demonstration	\$0	\$34,070	\$0	\$477,544	\$0	\$0	\$1,620	n/a	\$513,234
Cogeneration & Small Power Production	\$0	\$7,515,228	\$0	\$93,560	\$0	\$0	(\$1,977,384)	n/a	\$5,631,404
Other Subtotal	\$0	\$7,929,099	\$136,939	\$2,769,899	\$0	\$0	(\$1,972,577)	n/a	\$8,863,359
Common Expenses	\$11,301,374	\$76,217,845	\$111,229	\$5,447,641	\$0	\$87,427	\$12,307,277	n/a	\$105,472,793
Total	\$96,355,720	\$239,555,705	(\$14,952,911)	\$63,345,949	\$81,237,182	\$2,351,271	\$28,868,492	n/a	\$496,761,408

		Program Admi	nistrative & Equ	ipment Costs (N	NPV)				
Program Name	Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Vehicles & Travel	Other	Revenues (if any)	Total
Residential Energy Survey	\$597,212	\$34,109,823	\$172,002	\$9,787,297	\$40,868,093	\$641,858	\$3,309,576	n/a	\$89,485,861
Residential Load Management (On Call®)	\$50,878,448	\$15,997,810	(\$10,571,093)	\$17,508,996	\$0	\$94,462	\$4,460,512	n/a	\$78,369,136
Residential Air Conditioning	\$0	\$5,392,060	\$4,054	\$543,782	\$0	\$170,472	\$308,715	n/a	\$6,419,083
Residential New Construction (BuildSmart®)	\$0	\$1,836,387	\$1,385	\$966,866	\$0	\$78,201	\$278,671	n/a	\$3,161,509
Residential Ceiling Insulation	\$0	\$1,682,428	\$79,687	\$62,955	\$0	\$0	\$141,118	n/a	\$1,966,187
Residential Low Income	\$0	\$497,157	\$160	\$0	\$0	\$9,691	\$118,305	n/a	\$625,312
Residential Photovoltaic Pilot	\$0	\$191,509	\$0	\$12,500	\$0	\$1,267	\$4,970	n/a	\$210,246
Residential Solar Water Heating Pilot	\$0	\$214,038	\$0	\$94,388	\$0	\$1,267	\$4,820	n/a	\$314,513
Residential Solar Water Heating (LINC) Pilot	\$0	\$76,629	\$0	\$13,500	\$0	\$0	\$1,620	n/a	\$91,749
Residential Subtotal	\$51,475,660	\$59,997,840	(\$10,313,805)	\$28,990,283	\$40,868,093	\$997,217	\$8,628,307	n/a	\$180,643,597
Business Energy Evaluation	\$0	\$38,747,846	\$101,677	\$8,221,882	\$19,164,609	\$357,715	\$2,610,320	n/a	\$69,204,049
Business On Call	\$2,847,473	\$918,556	(\$1,075,753)	\$1,922,996	\$0	\$22,336	\$404,966	n/a	\$5,040,576
Commercial/Industrial Demand Reduction	\$0	\$2,521,568	\$63,558	\$70,948	\$0	\$226	\$632,739	n/a	\$3,289,039
Commercial/Industrial Load Control	\$0	\$1,991,856	\$10,452	\$9,227	\$0	\$1,830	\$470,991	n/a	\$2,484,358
Business Heating, Ventilating, & Air Conditioning	\$0	\$7,291,729	\$3,138	\$1,009,041	\$0	\$240,532	\$631,618	n/a	\$9,176,058
Business Lighting	\$0	\$1,182,016	\$235	\$198,106	\$0	\$16,913	\$62,950	n/a	\$1,460,219
Business Custom Incentive	\$0	\$232,516	\$112	\$0	\$0	\$2,451	\$10,445	n/a	\$245,523
Business Photovoltaic Pilot	\$0	\$79,909	\$0	\$68,717	\$0	\$0	\$1,870	n/a	\$150,496
Business Photovoltaic for Schools Pilot	\$9,839,587	\$105,582	\$0	\$62,000	\$0	\$0	\$710	n/a	\$10,007,879
Business Solar Water Heating Pilot	\$0	\$35,225	\$0	\$44,862	\$0	\$0	\$2,120	n/a	\$82,207
Business Subtotal	\$12,687,061	\$53,106,803	(\$896,582)	\$11,607,781	\$19,164,609	\$642,004	\$4,828,729	n/a	\$101,140,404
Conservation Research & Development	\$0	\$310,764	\$96,894	\$1,650,849	\$0	\$0	\$2,255	n/a	\$2,060,762
Renewable Research & Demonstration	\$0	\$34,070	\$0	\$477,544	\$0	\$0	\$1,620	n/a	\$513,234
Cogeneration & Small Power Production	\$0	\$5,456,383	\$0	\$67,242	\$0	\$0	(\$1,451,018)	n/a	\$4,072,607
Other Subtotal	S0	\$5,801,217	\$96,894	\$2,195,635	S0	\$0	(\$1,447,143)	n/a	\$6,646,603
Common Expenses	\$9,162,218	\$57,313,518	\$81,955	\$4,103,389	\$0	\$65,217	\$8,944,830	n/a	\$79,671,126
Total	\$73,324,939	\$176,219,379	(\$11,031,537)	\$46,897,087	\$60,032,702	\$1,704,438	\$20,954,722	n/a	\$368,101,730

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Q.

For each program that includes "Outside Services" costs in Data Request No. 2 above, please detail what those outside services include.

A.

"Outside Services" costs are those incurred for activities performed by third-parties. These outsourced activities are for advertising agencies, measurement & verification, universities who perform research, installers of customer-premise equipment for residential and business load management, computer programming, and solar demonstration projects.

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Q.

For each program that includes "Other" costs in Data Request No. 2 above, please detail what those Other costs include.

A.

"Other" costs are mostly for employee-related expenditures such as training, travel, participation in professional organizations, office supplies, etc. In addition, the fiber optic costs to communicate to substations for the Residential and Business On Call programs is also included.

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Q.

Please provide the estimated costs of each program's incentive costs, costs for the ten-year goals period (nominal and net present value), broken into the categories detailed in the table below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Name	Incentives (Non-Recurring)	Incentives (Recurring)	Total
[Residential]	3/		
Residential Subtotal			
[Comm/Industrial]			
Comm/Ind. Subtotal			
Common Expenses			
Total			200

Program Incentives (NPV)						
Program Name	Incentives (Non-Recurring)	Incentives (Recurring)	Total			
[Residential]						
Residential Subtotal						
[Comm/Industrial]						
Comm/Ind. Subtotal						
Common Expenses						
Total						

A

Please see Attachment No. 1. Note that "n/a" (not applicable) is shown for those programs that do not include incentives.

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Tab 1 of 1

Program I	ncentives (Nominal)		
Program Name	Incentives (Non-Recurring)	Incentives (Recurring)	Total
Residential Energy Survey	n/a	n/a	n/a
Residential Load Management (On Call®)	n/a	\$387,823,391	\$387,823,391
Residential Air Conditioning	\$64,748,603	n/a	\$64,748,603
Residential New Construction (BuildSmart®)	\$21,390,140	n/a	\$21,390,140
Residential Ceiling Insulation	\$12,470,684	n/a	\$12,470,684
Residential Low Income	\$6,590,300	n/a	\$6,590,300
Residential Photovoltaic Pilot	\$4,000,000	n/a	\$4,000,000
Residential Solar Water Heating Pilot	\$1,475,845	n/a	\$1,475,845
Residential Solar Water Heating (LINC) Pilot	\$1,000,000	n/a	\$1,000,000
Residential Subtotal	\$111,675,572	\$387,823,391	\$499,498,963
Business Energy Evaluation	n/a	n/a	n/a
Business On Call	n/a	\$38,449,462	\$38,449,462
Commercial/Industrial Demand Reduction	n/a	\$227,073,471	\$227,073,471
Commercial/Industrial Load Control	n/a	\$417,542,170	\$417,542,170
Business Heating, Ventilating, & Air Conditioning	\$56,338,677	n/a	\$56,338,677
Business Lighting	\$2,841,355	n/a	\$2,841,355
Business Custom Incentive	\$1,368,535	n/a	\$1,368,535
Business Photovoltaic Pilot	\$2,800,000	n/a	\$2,800,000
Business Photovoltaic for Schools Pilot	n/a	n/a	n/a
Business Solar Water Heating Pilot	\$1,000,000	n/a	\$1,000,000
Business Subtotal	\$64,348,568	\$683,065,102	\$747,413,670
Conservation Research & Development	n/a	n/a	n/a
Renewable Research & Demonstration	n/a	n/a	n/a
Cogeneration & Small Power Production	n/a	n/a	n/a
Other Subtotal	n/a	n/a	n/a
Common Expenses	n/a	n/a	n/a
Total	\$176,024,139	\$1,070,888,493	\$1,246,912,633

Program Incentives (NPV)									
Program Name	Incentives (Non-Recurring)	Incentives (Recurring)	Total						
Residential Energy Survey	n/a	n/a	n/a						
Residential Load Management (On Call®)	n/a	\$287,761,397	\$287,761,397						
Residential Air Conditioning	\$46,891,751	n/a	\$46,891,751						
Residential New Construction (BuildSmart®)	\$14,750,152	n/a	\$14,750,152						
Residential Ceiling Insulation	\$8,899,868	n/a	\$8,899,868						

Residential Low Income	\$4,855,845	n/a	\$4,855,845
Residential Photovoltaic Pilot	\$4,000,000	n/a	\$4,000,000
Residential Solar Water Heating Pilot	\$1,475,845	n/a	\$1,475,845
Residential Solar Water Heating (LINC) Pilot	\$1,000,000	n/a	\$1,000,000
Residential Subtotal	\$81,873,461	\$287,761,397	\$369,634,857
Business Energy Evaluation	n/a	n/a	n/a
Business On Call	n/a	\$27,888,962	\$27,888,962
Commercial/Industrial Demand Reduction	n/a	\$164,012,959	\$164,012,959
Commercial/Industrial Load Control	n/a	\$307,024,251	\$307,024,251
Business Heating, Ventilating, & Air Conditioning	\$40,981,166	n/a	\$40,981,166
Business Lighting	\$1,998,017	n/a	\$1,998,017
Business Custom Incentive	\$986,667	n/a	\$986,667
Business Photovoltaic Pilot	\$2,800,000	n/a	\$2,800,000
Business Photovoltaic for Schools Pilot	n/a	n/a	n/a
Business Solar Water Heating Pilot	\$1,000,000	n/a	\$1,000,000
Business Subtotal	\$47,765,849	\$498,926,171	\$546,692,020
Conservation Research & Development	n/a	n/a	n/a
Renewable Research & Demonstration	n/a	n/a	n/a
Cogeneration & Small Power Production	n/a	n/a	n/a
Other Subtotal	n/a	n/a	n/a
Common Expenses	n/a	n/a	n/a
Total	\$129,639,310	\$786,687,568	\$916,326,878

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Q.

Please provide for each program with demand and energy savings the net present value of the benefits and costs described in the Rate Impact Measure Test and detailed in the table below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

		Benefits					Costs				
Program Name	Gen	T&D	Fuel	Other	ner Total Utility Incen	Incentives	Lost Revenues	Other	Total	Net Benefit	
[Residential]											
Residential Subtotal											
[Comm/Industrial]											
Comm/Ind. Subtotal											
Total											

A. Please see Attachment No. 1.

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Tab 1 of 1

Program Name		RI	M Benefits (\$	000)			RI	M Costs (\$00	0)		Net
	Gen	T&D	Fuel	Other*	Total	Utility	Lost Incentives Revenues Other	Other	Total	Benefit	
Buildsmart	8,303.8	1,792.8	8,104.9	(0.5)	18,201.0	1,707.9	5,815.8	10,153.1	0.0	17,676.8	524.1
Residential Ceiling Insulation	8,089.0	1,744.3	8,923.0	0.1	18,756.5	996.2	4,322.8	13,015.7	0.0	18,334.7	421.8
Residential Air Conditioning	43,474.2	9,386.5	55,869.0	2.9	108,732.5	4,357.6	28,615.1	74,848.7	0.0	107,821.4	911.1
Residential Load Management (On- Call)	95,850.1	0.0	132.7	(44.1)	95,938.8	17,074.4	23,770.3	107.4	0.0	40,952.1	54,986.7
Residential Low-Income	5,075.4	1,101.2	7,386.3	0.8	13,563.7	625.0	4,259.3	10,861.5	0.0	15,745.7	(2,182.0)
Residential PV	1,759.3	431.6	3,782.5	0.9	5,974.3	183.9	6,565.5	4,911.3	0.0	11,660.7	(5,686.4)
Residential Solar Water Heater	254.1	59.2	842.7	0.3	1,156.3	204.7	836.9	1,229.1	0.0	2,270.8	(1,114.4)
Residential SWH - Low Income	33.9	7.9	112.4	0.0	154.2	72.8	486.4	163.9	0.0	723.0	(568.8)
Residential Subtotal	162,839.9	14,523.5	85,153.5	(39.6)	262,477.3	25,222.4	74,672.0	115,290.8	0.0	215,185.2	47,292.1
							nu mess		TO THE REAL PROPERTY.	SEATE OF STREET	N. TAR
Business HVAC	57,943.7	12,517.2	47,096.3	(7.4)	117,549.7	5,167.6	22,313.0	86,504.9	0.0	113,985.5	3,564.2
Business Lighting	17,513.4	3,776.8	31,239.8	5.3	52,535.4	871.8	1,063.8	49,349.9	0.0	51,285.5	1,249.8
Business On-Call	18,247.2	0.0	139.8	(8.3)	18,378.7	2,251.6	4,439.1	71.9	0.0	6,762.6	11,616.1
Comm./Ind. Demand Response	52,356.1	0.0	640.2	(23.5)	52,972.8	599.9	31,835.2	258.6	0.0	32,693.8	20,279.0
Business PV	1,314.8	322.5	3,046.2	0.7	4,684.3	76.0	2,604.1	2,939.1	0.0	5,619.3	(935.0)
Business PV for Schools	158.3	38.8	366.7	0.1	563.9	156.5	2,534.2	314.8	0.0	3,005.5	(2,441.6)
Business Solar Water Heater	128.8	30.0	303.9	0.1	462.8	34.7	848.4	487.2	0.0	1,370.4	(907.5)
Comm/Ind. Subtotal	147,662.3	16,685.3	82,832.9	(32.9)	247,147.6	9,158.3	65,637.9	139,926.4	0.0	214,722.6	32,425.0
Total	310,502.2	31,208.8	167,986.4	(72.5)	509,624.8	34,380.6	140,309.9	255,217.2	0.0	429,907.8	79,717.1

^{*} Other benefits are comprised of cost benefits from the reduction of SO2 and NOx emissions.

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 7 Page 1 of 1

Q.

Please provide for each program with demand and energy savings the net present value of the benefits and costs described in the Total Resource Cost Test and detailed in the table below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

				Benefits				Costs		Net
Program Name	Gen	T&D	Fuel	Other	Total	Utility	Participant	Other	Benefit	
[Residential]										
Residential Subtotal						_				
[Comm/Industrial]		1								
Comm/Ind. Subtotal		1								
Total	_									

A.

Please see Attachment No. 1.

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 7 Attachment No. 1

Tab 1 of 1

Program Name		TF	RC Benefits (\$	6000)			TRC Cost	ts (\$000)		Net
	Gen	T&D	Fuel	Other	Total	Utility	Participant	Other	Total	Benefit
Buildsmart	8,303.8	1,792.8	8,104.9	(0.5)	18,201.0	1,707.9	9,014.0	0.0	10,721.8	7,479.1
Residential Ceiling Insulation	8,089.0	1,744.3	8,923.0	0.1	18,756.5	996.2	7,573.1	0.0	8,569.3	10,187.2
Residential Air Conditioning	43,474.2	9,386.5	55,869.0	2.9	108,732.5	4,357.6	126,369.6	0.0	130,727.1	(21,994.6)
Residential Load Management (On- Call)	95,850.1	0.0	132.7	(44.1)	95,938.8	17,074.4	0.0	0.0	17,074.4	78,864.4
Residential Low-Income	5,075.4	1,101.2	7,386.3	0.8	13,563.7	625.0	4,259.3	0.0	4,884.2	8,679.5
Residential PV	1,759.3	431.6	3,782.5	0.9	5,974.3	183.9	15,326.1	0.0	15,509.9	(9,535.7)
Residential Solar Water Heater	254.1	59.2	842.7	0.3	1,156.3	204.7	6,562.6	0.0	6,767.3	(5,611.0)
Residential SWH - Low Income	33.9	7.9	112.4	0.0	154.2	72.8	486.4	0.0	559.1	(404.9)
Residential Subtotal	162,839.9	14,523.5	85,153.5	(39.6)	262,477.3	25,222.4	169,590.9	0.0	194,813.3	67,664.0
Business HVAC	57,943.7	12,517.2	47,096.3	(7.4)	117,549.7	5,167.6	64,484.8	0.0	69,652.4	47,897.3
Business Lighting	17,513.4	3,776.8	31,239.8	5.3	52,535.4	871.8	13,958.9	0.0	14,830.7	37,704.6
Business On-Call	18,247.2	0.0	139.8	(8.3)	18,378.7	2,251.6	0.0	0.0	2,251.6	16,127.1
Comm./Ind. Demand Response	52,356.1	0.0	640.2	(23.5)	52,972.8	599.9	0.0	0.0	599.9	52,372.8
Business PV	1,314.8	322.5	3,046.2	0.7	4,684.3	76.0	8,553.9	0.0	8,629.9	(3,945.7)
Business PV for Schools	158.3	38.8	366.7	0.1	563.9	156.5	134.1	2,167.7	2,458.2	(1,894.4)
Business Solar Water Heater	128.8	30.0	303.9	0.1	462.8	34.7	2,679.9	0.0	2,714.7	(2,251.8)
Comm/Ind. Subtotal	147,662.3	16,685.3	82,832.9	(32.9)	247,147.6	9,158.3	89,811.6	2,167.7	101,137.5	146,010.0
Total	310,502.2	31,208.8	167,986.4	(72.5)	509,624.8	34,380.6	259,402.5	2,167.7	295,950.8	213,674.1

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 8 Page 1 of 1

Q.

Please provide for each program with demand and energy savings the net present value of the benefits and costs described in the Participants Test and detailed in the table below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

		22 2111 11 11 12	В	enefits				Costs		Net Benefit
Program Name	Bill Savings	Tax Credits	Incentive	Other	Total	Equipment	0&M	Other	Total	
[Residential]										
Residential Subtotal										
[Comm/Industrial]										
Comm/Ind. Subtotal										
Total								1		

A.

Please see Attachment No. 1.

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Attachment No. 1 Request No. 8

Tab 1 of 1

Program Name		Partic	ipant Benefit	s (\$000)			Participant C	Costs (\$000)		Net
	Bill Savings	Tax Credits	Incentive	Other	Total	Equipment	O&M	Other	Total	Benefit
Buildsmart	13,359.4	0.0	5,815.8	0.0	19,175.2	9,014.0	0.0	0.0	9,014.0	10,161.2
Residential Ceiling Insulation	17,125.9	0.0	4,322.8	0.0	21,448.7	7,573.1	0.0	0.0	7,573.1	13,875.6
Residential Air Conditioning	98,485.2	0.0	28,615.1	0.0	127,100.3	126,369.6	0.0	0.0	126,369.6	730.7
Residential Load Management (On- Call)	141.4	0.0	23,770.3	0.0	23,911.7	0.0	0.0	0.0	0.0	23,911.7
Residential Low-Income	14,291.4	0.0	0.0	0.0	14,291.4	0.0	0.0	0.0	0.0	14,291.4
Residential PV	6,462.3	1,920.7	6,565.5	0.0	14,948.4	13,131.8	2,194.2	0.0	15,326.1	(377.6)
Residential Solar Water Heater	1,617.3	1,711.4	836.9	0.0	4,165.6	6,562.6	0.0	0.0	6,562.6	(2,397.0)
Residential SWH - Low Income	215.7	0.0	0.0	0.0	215.7	0.0	0.0	0.0	0.0	215.7
Residential Subtotal	151,698.4	3,632.1	69,926.4	0.0	225,256.9	162,651.1	2,194.2	0.0	164,845.3	60,411.6
Business HVAC	93,610.5	0.0	22,313.0	0.0	115,923.5	62,721.5	1,763.3	0.0	64,484.8	51,438.7
Business Lighting	55,677.5	0.0	1,063.8	0.0	56,741.3	13,958.9	0.0	0.0	13,958.9	42,782.3
Business On-Call	86.6	0.0	4,439.1	0.0	4,525.7	0.0	0.0	0.0	0.0	4,525.7
Comm./Ind. Demand Response	311.6	0.0	31,835.2	0.0	32,146.8	0.0	0.0	0.0	0.0	32,146.8
Business PV	3,522.2	1,431.3	2,604.1	0.0	7,557.6	7,440.1	1,113.8	0.0	8,553.9	(996.3)
Business PV for Schools	365.1	0.0	0.0	0.0	365.1	0.0	134.1	0.0	134.1	231.1
Business Solar Water Heater	548.3	563.2	848.4	0.0	1,959.9	2,679.9	0.0	0.0	2,679.9	(720.0)
Comm/Ind. Subtotal	154,121.8	1,994.4	63,103.7	0.0	219,220.0	86,800.5	3,011.1	0.0	89,811.6	129,408.4
Total	305,820.3	5,626.5	133,030.1	0.0	444,476.9	249,451.5	5,205.3	0.0	254,656.9	189,820.0

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 9 Page 1 of 1

Q. Please provide the actual and projected Energy Conservation Cost Recovery Clause annual funds in nominal dollars for the period 2010 through 2024. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Year	ECCR Expenditures
2010	
2011	
2012	
2013	
2014	
2015	
2016	
2017	
2018	
2019	
2020	
2021	
2022	
2023	
2024	

A. Please see Attachment No. 1.

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 9 Attachment No. 1

Tab 1 of 1

Year	ECCR Expenditures
2010	\$216,568,332
2011	\$228,293,640
2012	\$224,033,738
2013	\$244,296,253
2014	\$260,023,506
2015	\$192,391,764
2016	\$164,886,765
2017	\$167,548,155
2018	\$168,949,791
2019	\$170,427,603
2020	\$171,853,071
2021	\$173,419,246
2022	\$175,578,574
2023	\$178,059,046
2024	\$180,560,026

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Q.

Please provide the actual and projected monthly customer bill associated with the ECCR for a residential and commercial/industrial customer with the usage described in the table below, in nominal dollars. Please also provide the actual and projected total monthly customer bill. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Year	Residential Customer 1,200 kV	Vh/mo	Commercial/Industrial Customer 400,000 kWh/mo & 1,000 kW Peak					
	ECCR Portion (\$)	Total Bill (\$)	ECCR Portion (\$)	Total Bill (\$)				
2010								
2011			±					
2012								
2013								
2014								
2015								
2016								
2017								
2018								
2019								
2020								
2021								
2022								
2023								
2024								

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 10 Page 2 of 2

A.

Please see Attachment No. 1. Please note that FPL's response contains confidential information, therefore it is being filed separately with a Notice of Intent to Request Confidential Classification.

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Q.

Do any of the programs in the company's DSM Plan include savings associated with Compact Fluorescent Lightbulbs? If so, please identify the baseline used.

A.

Only FPL's Business Lighting program includes a measure for Compact Fluorescent Lights (CFLs). The baseline for FPL's business CFL measure is a 53-watt halogen. Please note, to help ensure permanency of the demand and energy savings (i.e., that they will continue for the life of the measure), FPL only pays rebates for hardwired CFL fixtures, not screw-in bulbs.

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 12 Page 1 of 1

Q.

Please identify each program in the company's DSM Plan that include measures with an estimated 2 year or less payback period, and which measures are included by program.

A.

Only FPL's proposed Low Income program includes measures with an estimated payback of two years or less. The particular measures are faucet aerators, air-conditioning unit maintenance (refrigerant charging) and outdoor coil cleaning that are installed in detached single-family homes. (These measures are also available through the proposed Low Income program for installation in other types of residences, however they only fail a two-year payback screen in the detached single-family home application.) FPL has proposed including these types of measures to assist low income customers in response to the emphasis placed by the Commission on this customer segment in Order No. PSC-14-0696-FOF-EU.

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 13 Page 1 of 1

Q.

For each program that includes measures with an estimated 2 year or less payback period, please provide the amount of savings (kWh, Win kW, and Sum kW) associated with these measures for each program and for the entire DSM Plan. As part of this response, please provide an electronic version of the table below in Excel format with your response.

		[Prograi	m Name or DSM	Plan Combined	ij				
¥7	Prog	gram Savings from 2-Year Payback Measures (Savings @ Generator)							
Year		Per C	ustomer		Total	Annual			
	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction			
2015									
2016									
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									

A.

Please see Attachment No. 1. The table reflects the savings impacts of the measures discussed in FPL's response Staff's First Data Request, No. 12.

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 13 Attachment No. 1

Tab 1 of 1

			Residential Low 1	Income		
		Program	Savings from 2- (Savings @		leasures	
Year		Per Customer			Total Annual	
	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction
2015	288	0	0	576,331	20	246
2016	288	0	0	576,331	20	246
2017	288	0	0	576,331	20	246
2018	288	0	0	576,331	20	246
2019	288	0	0	576,331	20	246
2020	288	0	0	576,331	20	246
2021	288	0	0	576,331	20	246
2022	288	0	0	576,331	20	246
2023	288	0	0	576,331	20	246
2024	288	0	0	576,331	20	246

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Q.

Please describe the avoided unit used in the company's cost-effectiveness evaluations of the programs in its DSM Plan. Is the avoided unit the same as the one used in the goalsetting docket? If not, please explain why and the differences in avoided costs resulting from the change.

A.

The avoided unit used in FPL's program-level cost-effectiveness evaluations in the DSM Plan is a 1,269 MW 3x1 "J" Type Combined Cycle unit. This unit is the same avoided unit that was used in the measure-level cost-effectiveness screening in the DSM Goals docket. This unit represents FPL's projected next self-build unit at the time assumptions were frozen (approximately Oct. 2013) for analysis purposes for the DSM Goals docket.

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 15 Page 1 of 1

Q.

Please discuss whether any measure's demand and energy savings used in the company's cost-effectiveness evaluations of the programs in its DSM Plan differed from the one used in the goalsetting docket. If so, please explain why and the differences in demand and energy savings resulting from the change.

A.

FPL used the same assumptions in these cost-effectiveness screening tests as were used for the analyses in the DSM Goals proceeding (Docket No. 130199-EI).

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 16 Page 1 of 2

Q.

Please provide the annual avoided cost savings associated with each of the following four scenarios for a measure that reduces energy or demand by: 1000 kWh, 1 kW Summer Demand, 1 kW Winter Demand, or 1 kW Summer and Winter Demand. Please provide the savings through the longest time period used to evaluate the programs in your DSM Plan. As part of this response, please provide an electronic version of the table below in Excel format with your response.

					Savings	by Measur	е Туре		
Year	1000 k	Wh	1 kW St	ımmer	1 kW V	Vinter	1 kW Sum & Wi		
	Nominal	Real	Nominal	Real	Nominal	Real	Nominal	Real	
2015									
2016									
2017								-	
2018									
2019									
2020									
2021								7	
2022									
2023									
2024									

A.

Please see the Attachment No. 1.

FPL interprets these theoretical measures to provide the following demand and energy savings:

- a) A measure with 1000 kWh of energy savings and 0 kW demand savings for Summer and Winter;
- b) A measure with 0 kWh of energy savings, 1kW demand savings for Summer, and 0 kW demand savings for Winter;
- c) A measure with 0 kWh of energy savings, 0kW demand savings for Summer, and 1 kW demand savings for Winter; and
- d) A measure with 0 kWh of energy savings, 1kW demand savings for Summer, and 1 kW demand savings for Winter.

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Please note that:

- 1) FPL interprets "real" dollars to be de-escalated to 2015\$ using the assumed escalation rate; and
- 2) These calculations only refer to the avoided cost savings for these theoretical measures. These numbers do not include projections for measure costs, unrecovered revenue requirements, or system rate impacts.

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 16 Attachment No. 1

Tab 1 of 1	A Secondario		Sa	vings by Measu	ire Type			
Year	1000	kWh		Summer		Winter	1 kW Si	um & Win
	Nominal	Real (2015\$)	Nominal	Real (2015\$)	Nominal	Real (2015\$)	Nominal	Real (2015\$)
2015	23.62	23.62	0.00	0.00	0.00	0.00	0.00	0.00
2016	52.25	50.98	39.66	38.69	7.00	6.83	46.65	45.52
2017	45.34	43.15	38.66	36.80	6.82	6.49	45.49	43.29
2018	55.97	51.97	37.51	34.83	6.62	6.15	44.13	40.98
2019	57.12	51.75	231.79	209.99	40.90	37.06	272.69	247.05
2020	59.91	52.96	201.91	178.46	35.63	31.49	237.54	209.95
2021	59.95	51.70	194.91	168.07	34.40	29.66	229.31	197.73
2022	59.42	49.99	204.31	171.88	36.06	30.33	240.37	202.21
2023	59.43	48.78	207.70	170.47	36.65	30.08	244.35	200.55
2024	61.64	49.36	199.07	159.40	35.13	28.13	234.20	187.53
2025	63.43	49.55	200.97	157.00	35.46	27.71	236.43	184.70
2026	60.81	46.35	205.62	156.71	36.29	27.65	241.90	184.36
2027	63.80	47.44	196.24	145.92	34.63	25.75	230.87	171.67
2028	64.41	46.73	206.51	149.81	36.44	26.44	242.95	176.24
2029	66.61	47.14	195.26	138.19	34.46	24.39	229.72	162.58
2030	67.27	46.45	202.04	139.50	35.65	24.62	237.69	164.12
2031	69.72	46.97	196.65	132.47	34.70	23.38	231.35	155.85
2032	70.27	46.18	205.92	135.33	36.34	23.88	242.26	159.21
2033	73.92	47.40	196.00	125.67	34.59	22.18	230.59	147.85
2034	74.85	46.82	198.44	124.13	35.02	21.91	233.46	146.03
2035	76.32	46.57	199.54	121.78	35.21	21.49	234.76	143.27
2036	79.23	47.17	198.79	118.36	35.08	20.89	233.87	139.24
2037	81.52	47.35	195.43	113.52	34.49	20.03	229.92	133.55
2038	84.26	47.75	191.55	108.55	33.80	19.16	225.36	127.71
2039	86.17	47.64	198.03	109.48	34.95	19.32	232.97	128.80
2040	88.56	47.77	193.90	104.59	34.22	18.46	228.11	123.04
2041	91.95	48.39	193.74	101.95	34.19	17.99	227.93	119.95
2042	95.34	48.95	197.64	101.47	34.88	17.91	232.51	119.37
2043	98.32	49.25	195.90	98.12	34.57	17.32	230.47	115.44
2044	101.87	49.78	191.23	93.45	33.75	16.49	224.97	109.94
2045	105.51	50.30	195.44	93.18	34.49	16.44	229.93	109.62
2046	108.72	50.57	198.57	92.36	35.04	16.30	233.61	108.66
2047	112.12	50.88	196.12	88.99	34.61	15.70	230.73	104.70
2048	116.77	51.69	194.85	86.26	34.38	15.22	229.23	101.48
NPV (2014- 2048)	755.60		1874.01		330.71		2204.71	

Notes:

¹⁾ FPL interprets "real" dollars to be de-escalated to 2015 at the assumed escalation rate.

²⁾ These calculations only refer to the avoided cost savings in these theoretical measures. These numbers do not include projections for measure costs, unrecovered revenue requirements, or system rate impacts.

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Q.

For each demand response program, use the table below to provide the information listed on an annual basis for customer participation. Please also provide a summary of all demand response programs using the chart below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Year	Average Number of Participants	Available Capacity (MW)		New Participants	Added Capacit y (MW)		Participants Lost	Lost Capacity (MW)	
		Sum	Win		Sum	Win		Sum	Wir
2005									
2006									
2007									
2008							15		
2009									
2010								1	
2011									
2012									
2013									
2014									

A.

Please see Attachment No. 1. Note that Table 17B represents FPL's entire Residential Load Management program, i.e., includes both tariffs.

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TABLE 17A - FPL Total Demand Response

Year	Average Number	Available Capacity (MW)		New Customers	Add Capa (M)	city	Customers	Lost Capacity (MW)	
	of Participants	Sum	Win	Added	Sum	Win		Sum	Win
2005	737,206	1,503	1,358	11,154	28	21	4,413	6	5
2006	751,380	1,563	1,372	28,997	72	60	7,390	14	13
2007	772,195	1,667	1,423	30,547	105	92	10,523	14	13
2008	787,993	1,726	1,504	28,963	92	79	17,392	31	28
2009	800,045	1,793	1,557	21,134	77	67	8,601	13	12
2010	809,694	1,805	1,616	14,676	32	24	7,910	23	16
2011	817,032	1,821	1,625	11,267	27	20	3,357	15	12
2012	826,535	1,871	1,578	14,835	40	33	3,740	10	9
2013	839,773	1,866	1,427	16,476	28	20	1,095	9	6
2014	839,791	1,835	1,398	11,282	38	28	26,627	98	82

TABLE 17B - FPL Residential On Call Program

Year	Average Number	Avail Cap:	ncity	New Customers	Add Capa (M)	icity	Customers Lost	Lost Capacity (MW)	
	of Participants	Sum	Win	Added	Sum	Win		Sum	Win
2005	718,653	902	816	10,361	13	12	4,211	5	5
2006	732,062	928	823	27,964	35	32	7,297	9	- 8
2007	751,982	952	846	29,511	37	34	10,337	13	12
2008	767,188	966	868	28,247	35	32	17,010	21	19
2009	778,886	981	881	20,603	26	23	8,444	11	10
2010	788,378	990	895	13,366	17	15	6,540	8	7
2011	795,802	1,000	903	10,712	13	12	2,691	3	3
2012	805,015	1,043	856	13,910	18	15	3,505	4	4
2013	817,550	1,033	860	15,370	19	16	704	1	1
2014	817,479	1,010	826	10,395	22	21	25,204	54	51

TABLE 17C - FPL Business On Call Program

Year	Average Number	Avail Capa (M	ncity	New Customers	Added Capacity (MW)		Customers Lost	Lost Capacity (MW)	
	of Participants	Sum	Win	Added	Sum	Win		Sum	Win
2005	18,023	51	0	786	6	0	201	0	0
2006	18,761	58	0	975	9	0	84	0	0
2007	19,559	80	0	888	10	0	183	1	0
2008	20,034	84	0	617	9	0	371	1	0
2009	20,287	91	0	412	8	0	153	1	0
2010	20,381	93	0	1,282	6	0	1,353	6	0
2011	20,289	99	0	540	6	0	652	3	0
2012	20,571	99	0	899	5	0	224	1	0
2013	21,266	102	0	1,092	3	0	377	2	0
2014	21,393	103	0	871	5	0	1,332	6	0

TABLE 17D - FPL Commercial/Industrial Load Control Program (CILC)

Year	Average Number	Available Capacity (MW)		New Customers	Add Capa (M	city	Customers Lost	Lost Capacity (MW)	
	of Participants	Sum	Win	Added	Sum	Win		Sum	Win
2005	498	516	517	0	0	0	1	0	0
2006	493	516	516	0	0	.0	9	5	5
2007	487	515	516	0	0	0	3	1	1
2008	481	509	515	0	0	0	9	7	7
2009	475	510	509	0	0	0	3	2	2
2010	465	503	510	0	0	0	16	8	8
2011	455	500	503	0	0	0	5	5	5
2012	449	497	500	0	0	0	7	3	3
2013	441	493	418	0	0	0	8	4	4
2014	398	483	422	0	0	0	78	32	27

TABLE 17E - FPL Commercial/Industrial Demand Reduction Rider (CDR)

Year	Average Number of Participants	Available Capacity (MW)		New Customers Added	Add Capa (M	icity	Customers Lost	Lost Capacity (MW)	
	of Participants	Sum	Win	Added	Sum	Win		Sum	Win
2005	33	34	25	7	9	9	0	0	0
2006	65	61	34	58	28	28	0	0	0
2007	168	120	61	148	59	59	0	0	0
2008	291	167	120	99	47	47	2	2	2
2009	398	211	167	119	43	43	1	1	1
2010	471	219	211	28	9	9	1	1	1
2011	487	222	219	15	8	8	9	4	4
2012	501	232	222	26	18	18	4	2	2
2013	516	238	149	14	6	4	6	3	2
2014	522	239	150	16	11	7	13	6	4

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Q.

For each demand response program, use the table below to provide the information listed on an annual basis in seasonal peak demand and number of participants. Please also provide a summary of all demand response programs using the chart below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

				Summer					Winter	
Year	Number of Events		rage t Size		imum t Size	Number of Events	Average Event Size		Maximum Event Size	
	(MW)	(MW)	(Part.)	(MW)	(Part.)	(MW)	(MW)	(Part.)	(MW)	(Part.)
2005										
2006										
2007										
2008										
2009										
2010										
2011										
2012										
2013										
2014										

A.

Please see Attachment No. 1. Note that Residential On Call and Business On Call are dispatched together as are Commercial/Industrial Load Control (CILC) and Commercial/Industrial Demand Reduction (CDR). Therefore, each pair is shown combined. In some instances all four were dispatched during the same event. In the majority of cases where Residential On Call was dispatched only water heaters and pool pumps were interrupted. Capacity values are at the generator.

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TABLE 18A - FPL Total Demand Response

			Summer					Winter			
Year	Number of Events		erage ent Size		ximum ent Size	Number of Events		erage nt Size	Maximum Event Size		
	(-)	(MW)	Number of Customers	(MW)	Number of Customers	(-)	(MW)	Number of Customers	(MW)	Number of Customers	
2005	19	158	439,989	428	451,861	4	139	410,796	149	429,856	
2006	6	111	483,242	131	496,183	5	113	470,665	130	477,632	
2007	7	111	499,737	134	514,975	6	122	487,660	242	516,784	
2008	7	109	501,201	145	519,898	5	456	558,514	1,859	782,220	
2009	1	159	524,183	159	524,183	2	159	524,798	173	524,798	
2010	9	126	528,509	180	528,634	3	206	3,533	421	930	
2011	24	93	440,591	210	528,605	3	297	352,821	626	941	
2012	16	112	497,221	228	531,798	5	126	530,484	249	532,131	
2013	10	121	534,211	201	536,773	2	129	532,825	137	532,825	
2014	4	174	598,725	273	719,331	2	94	590,165	104	590,165	

TABLE 18B - FPL Residential On Call & Business On Call Programs

			Summer					Winter			
Year	Number of Events		erage nt Size		ximum nt Size	Number of Events		erage nt Size	Maximum Event Size		
	(-)	(MW)	Number of Customers	(MW)	Number of Customers	(-)	(MW)	Number of Customers	(MW)	Number of Customers	
2005	19	142	439,961	428	451,861	4	139	410,796	149	429,856	
2006	6	111	483,242	131	496,183	5	113	470,665	130	477,632	
2007	7	111	499,737	134	514,975	6	122	487,660	242	516,784	
2008	7	109	501,201	145	519,898	5	334	558,369	1,249	781,493	
2009	1	159	524,183	159	524,183	2	159	524,798	173	524,798	
2010	9	126	528,509	180	528,634	2	6	6,136	7	8,303	
2011	24	93	440,591	210	528,605	2	132	528,761	132	528,761	
2012	16	112	497,221	228	531,798	5	126	530,484	249	532,131	
2013	10	121	534,211	201	536,773	2	129	532,825	137	532,825	
2014	4	174	598,725	273	719,331	2	94	590,165	104	590,165	

TABLE 18C - FPL Commercial/Industrial Load Control (CILC) & Commercial/Industrial Demand Reduction (CDR)

W. Carlo		Summer		Winter							
Year	Number of Events	Average Event Size		Maximum Event Size		Number of Events	Average Event Size		Maximum Event Size		
		(-)	(MW)	Number of Customers	(MW)	Number of Customers	(-)	(MW)	Number of Customers	(MW)	Number of Customers
2005	1	300	533	300	533	0	0	0	0	0	
2006	0	0	0	0	0	0	0	0	0	0	
2007	0	0	0	0	0	0	0	0	0	0	
2008	0	0	0	0	0	1	610	727	610	727	
2009	0	0	0	0	0	0	0	0	0	0	
2010	0	0	0	0	0	2	406	930	421	930	
2011	0	0	0	0	0	1	626	941	626	941	
2012	0	0	0	0	0	0	0	0	0	0	
2013	0	0	0	0	0	0	0	0	0	0	
2014	0	0	0	0	0	0	0	0	0	0	

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Q.

For each demand response program, use the table below to provide the information listed on an annual basis for seasonal peak activations. Please also provide a summary of all demand response programs using the chart below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Year	Average Number of Participants		Summer Peak	4-01/4	Winter Peak			
		Activated During Peak?	# of Participants Activated	Capacity Activated	Activated During Peak?	# of Participants Activated	Capacity Activated	
		(Y/N)	(MW)	(MW)	(Y/N)	(MW)	(MW)	
2005								
2006								
2007								
2008								
2009								
2010								
2011								
2012								
2013								
2014								

A.

Please see Attachment No. 1. Please note that Residential On Call and Business On Call are dispatched together as are Commercial/Industrial Load Control (CILC) and Commercial/Industrial Demand Reduction (CDR). Therefore each pair is shown combined. Please note that the majority of the instances when load management is dispatched occur at times other than the single hours of winter or summer peak. Dispatch can occur whenever (and for whatever reasons) actual load exceeds available generation resources or for frequency regulation purposes at that point in time. Capacity values are at the generator.

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TABLE 19A - FPL Total Demand Response

Year			Summer Peak	Wales	Winter Peak			
	Average Number of Customers	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)	
2005	737,206	N	0	0	N	0	0	
2006	751,380	N	0	0	N	0	0	
2007	772,195	N	0	0	N	0	0	
2008	787,993	N	0	0	N	0	0	
2009	800,045	N	0	0	N	0	0	
2010	809,694	N	0	0	Y	930	721	
2011	817,032	N	0	0	Y	941	722	
2012	826,535	N	0	0	N	0	0	
2013	839,773	N	0	0	N	0	0	
2014	839,791	N	0	0	N	0	0	

TABLE 19B - FPL Residential On Call and FPL Business On Call Programs

Year			Summer Peal		Winter Peak			
	Average Number of Customers	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)	
2005	736,676	N	0	0	N	0	0	
2006	750,822	N	0	0	N	0	0	
2007	771,541	N	0	0	N	0	0	
2008	787,222	N	0	0	N	0	0	
2009	799,172	N	0	0	N	0	0	
2010	808,759	N	0	0	N	0	0	
2011	816,091	N	0	0	N	0	- 0	
2012	825,585	N	0	0	N	0	0	
2013	838,816	N	0	0	N	0	0	
2014	838,871	N	0	0	N	0	0	

TABLE 19C - FPL Commercial/Industrial Load Control (CILC) & Commercial/Industrial Demand Reduction (CDR)

Year			Summer Peak		Winter Peak			
	Average Number of Customers	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)	
2005	530	N	0	0	N	0	0	
2006	558	N	0	0	N	0	0	
2007	655	N	0	0	N	0	0	
2008	771	N	0	0	N	0	0	
2009	873	N	0	0	N	0	0	
2010	936	N	0	0	Y	930	721	
2011	942	N	0	0	Y	941	722	
2012	950	N	0	0	N	0	0	
2013	957	N	0	0	N	0	0	
2014	920	N	0	0	N	0	0	

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0.

For each demand response program, please describe whether the current credit is based upon the company's most recent avoided unit. If not, please explain why and provide how the credit was derived.

A.

The credits for all demand response programs are based on the current approved tariff sheets for Commercial/Industrial Demand Response (CDR), Business On-Call (BOC), and Residential Load Control. (Because the Residential On Call tariff is closed to new participants, the credits associated with that tariff were not used for purposes of the cost-effectiveness results presented for the Residential Load Management Program presented in Appendix A.)

For the CDR credit, the monthly incentive is based on the currently approved CDR credit shown in Tariff Sheet 8.680, \$7.89 per kW, for the time period of 2015 through June 2016. For the time period of July 2016 on, the monthly CDR incentive is increased to \$8.26 per kW to reflect the estimated incentive increase associated with the 2012 Rate Case Settlement.

For the BOC program, the average annual credit per kW per participant was used as the yearly incentive value for purposes of the cost-effectiveness analysis.

For the Residential Load Management Program, the annual weighted average of the per-appliance credit was used as the yearly incentive value for purposes of the cost-effectiveness analysis.

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Q.

For each demand response program, please provide the credit amount that would reduce the value of the program's RIM Test to 1.0.

A.

Attachment No. 1 includes the credit amounts that would reduce the value of each demand response program's RIM test to 1.0. Please note that FPL considers a program to be cost-effective if it has a RIM result of at least 1.01 (not 1.0), so there is an additional column on the table showing the credit that would reduce the RIM value to 1.01.

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usiness On-Call	Yearly Incentive Per Customer to Make RIM Ratio 1.0	Yearly Incentive Per Customer to Make RIM Ratio 1.01
Residential On-Call	\$157.77	\$155.87
Business On-Call	\$128.64	\$127.20
Commercial/Industrial Demand Response	\$163.73	\$162.90

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Q.

For each demand response program, please discuss whether the company considered reducing the credit provided to customers. As part of this response, please discuss the impacts a lower credit would have on existing participation levels.

A.

FPL did not contemplate reducing the credits in its demand response programs. All of FPL's open demand response programs are very cost-effective under the Rate Impact Measure (RIM) test, so no reductions are required. Further, the credit amounts for the Commercial/Industrial Load Control and Commercial/Industrial Demand Reduction programs were approved by the Commission as part of the settlement of FPL's last base rate case (Order No. PSC-13-0023-S-EI), that extend through the end of 2016.

FPL has proposed to migrate customers on FPL's closed Residential On Call tariff to the open Residential Load Control tariff. Although this represents a reduction of the credits that would be paid to some of the closed tariff participants, this isn't a credit reduction for the residential program per se because new participants are only able to receive credits from the open tariff to which FPL has not proposed any credit reductions.

Though there could be some existing participation loss from the residential closed tariff customers who are being transferred to the open tariff, FPL believes the program will maintain more than sufficient participation to meet its DSM Goals. Additionally, FPL has been able to recruit approximately 560,000 participants with the credit amounts of the open tariff. FPL does not have an assessment of the impact of lower credits on the existing participation for its open Residential Load Control tariff or its business demand response programs because lowering the credits was not contemplated.

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Q.

Please provide the number of participants currently participating in FPL's closed "Residential On Call Tariff."

A.

As of March 31, 2015, there were 250,725 participants in FPL's closed "Residential On Call Tariff" (representing approximately 30% of the more than 810,000 total Residential Load Management participants.)

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Q.

FPL's tariff numbers 8.207 and 8.217 illustrate that there will be a financial impact to the remaining customers who are switched from the closed On Call Tariff to the Load Control Tariff. Specifically, those whose conventional electric water heater and central electric air conditioner credits would be reduced.

- a. How many customers in FPL's closed Residential On Call Tariff receive credits for a conventional electric water heater?
- b. How many customers in FPL's closed Residential On Call Tariff receive credits for central electric air conditioning?
- c. How many customers in FPL's closed Residential On Call Tariff receive credits for both a conventional electric water heater and central air conditioning?

A.

The following participant counts are as of March 31, 2015. For subparts (b) and (c), FPL interprets this request to refer to the air conditioning - cycle option, which has a different credit amount on the closed and open tariffs. (Please note that in addition to the requested participant counts shown below, 10,511 of the existing closed On Call tariff participants have selected end-use options where the credits are the same between the closed and open tariffs, e.g., air conditioning - shed, heating - both shed and cycle, and pool pumps.)

- a. 36,048
- b. 72,770
- c. 131,396

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Q.

Has FPL performed an analysis to determine whether or not the closed Residential On Call Tariff, in its current state, is still cost-effective? If not, please perform a cost-effectiveness analysis of the closed Residential On Call Tariff in its current state.

A.

Please see Attachment No. 1 for an analysis showing that the closed Residential On-Call Tariff is cost-effective in its current state. Please note that the change in the Residential On-Call tariff results in a savings to FPL's customers of approximately \$8.5 million.

INPUT DATA - PART 1 CONTINUED PROGRAM METHOD SELECTED: REV_REQ PROGRAM NAME: Residential Load Management (On Call®)

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PSC FORM CE 1 PAGE 1 OF 1

I.	PROGRAM DEMAND SAVINGS & LINE LOSSES		IV.	AVOIDED GENERATOR AND T&D COSTS	
	(1) CUSTOMER KW REDUCTION AT METER	1.12 kW		(I) BASE YEAR	2014
	(2) GENERATOR kW REDUCTION PER CUSTOMER	1.46778 kW		(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
	(3) kW LINE LOSS PERCENTAGE	7.22 %		(3) IN-SERVICE YEAR FOR AVOIDED T&D	2017-2019
	(4) GENERATOR kWh REDUCTION PER CUSTOMER	1.75 kWh ****		(4) BASE YEAR AVOIDED GENERATING COST	776.33 \$/kW
	(5) kWh LINE LOSS PERCENTAGE	5.76 %		(5) BASE YEAR AVOIDED TRANSMISSION COST	0.00 \$/kW
	(6) GROUP LINE LOSS MULTIPLIER.	1.00		(6) BASE YEAR DISTRIBUTION COST	0.00 \$/kW
	(7) CUSTOMER kWh INCREASE AT METER	0.86 kWh ****		(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
				(8) GENERATOR FIXED O & M COST	58.35 \$/kW/YR
II.	ECONOMIC LIFE & K FACTORS			(9) GENERATOR FIXED O&M ESCALATION RATE	2.50 %**
				(10) TRANSMISSION FIXED O & M COST	0.00 \$/kW
	(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS		(11) DISTRIBUTION FIXED O & M COST	0.00 \$/kW
	(2) GENERATOR ECONOMIC LIFE	30 YEARS		(12) T&D FIXED O&M ESCALATION RATE	2.50 %**
	(3) T&D ECONOMIC LIFE	35 YEARS		(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.065 CENTS/kWh
	(4) K FACTOR FOR GENERATION	1.58642		(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %**
	(5) K FACTOR FOR T & D	1.55920		(15) GENERATOR CAPACITY FACTOR	56% ** (In-service year)
				(16) AVOIDED GENERATING UNIT FUEL COST	3.85 CENTS PER kWh** (In-service year)
III.	UTILITY & CUSTOMER COSTS			(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.65 %**
	(I) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST	v.	NON-FUEL ENERGY AND DEMAND CHARGES	
	(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST			
	(3) UTILITY COST ESCALATION RATE	*** %**		(1) NON FUEL COST IN CUSTOMER BILL	*** CENTS/kWh
	(4) CUSTOMER EQUIPMENT COST	*** \$/CUST		(2) NON-FUEL COST ESCALATION RATE	*** %
	(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**		(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/kW/MO
	(6) CUSTOMER O & M COST	*** \$/CUST/YR		(4) DEMAND CHARGE ESCALATION RATE	*** %
	(7) CUSTOMER O & M COST ESCALATION RATE	*** %**			
•	(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR			
	(9) SUPPLY COSTS ESCALATION RATES	*** %**			
•	(10) UTILITY DISCOUNT RATE	7.54 %			
•	(11) UTILITY AFUDC RATE	6.50 %			
•	(12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST			
•	(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST			
•	(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	••• %			

SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
 PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2
 THIS IS A LOAD SHIFTING PROGRAM. VALUE SHOWN IN ITEM (4) IS ANNUAL KWH/CUST SHIFTED AWAY FROM PEAK HRS. VALUE SHOWN IN ITEM (7) IS ANNUAL KWH/CUST THAT IS PAID BACK DURING OFF-PEAK.

• INPUT DATA -- PART 1 CONTINUED PROGRAM METHOD SELECTED: REV_REQ PROGRAM NAME: Residential Load Management (On Call®)

	(1) UTILITY	(2)	(3)	(4) TOTAL	(5) ENERGY	(6) DEMAND	(7)	(8)	(9)	(10)
	PROGRAM COSTS		OTHER	UTILITY	CHARGE	CHARGE	PARTICIPANT	PARTICIPANT	OTHER	TOTAL
	WITHOUT	UTILITY	UTILITY	PROGRAM	REVENUE	REVENUE	EQUIPMENT	O&M	PARTICIPANT	PARTICIPANT
TT 4 D	INCENTIVES	INCENTIVES	COSTS	COSTS	LOSSES	LOSSES	COSTS	COSTS	COSTS \$(000)	COSTS \$(000)
YEAR	\$(000)	\$(000)	\$(000) 0	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2014 2015	555	474	0	1,029	1	0 0	0	0	: 0	0
2015	1,372	1,422	0	2,794	3	0	0	0	0	0
2017	2,165	2,370	0	4,535	5	0	0	0	0	0
2017	2,935	3,318	0	6,253	7	0	0	Ô	0	Ô
2019	3,068	3,792	Ö	6,860	9	0	Ö	. 0	0	Ô
2020	2,604	3,792	0	6,396	9	0	0	0	0	0
2021	1,885	3,792	0	5,677	9	0	0	0	0	0
2022	1,197	3,792	0	4,989	10	0	0	0	0	0
2023	541	3,792	0	4,333	10	0	0	0	0	0
2024	230	3,792	0	4,022	10	0	0	0	. 0	0
2025	236	3,792	0	4,028	10	0	0	0	0	0
2026	242	3,792	0	4,034	10	0	0	0	0	0
2027	248	3,792	0	4,040	10	0	0	0	0	0
2028	254	3,792	0	4,046	10	0	0	0	0	0
2029	260	3,792	0	4,052	10	0	0	0	0	0
2030	267	3,792	0	4,059	10	0	0	0	0	0
2031	273	3,792	0	4,065	10	0	0	0	0	0
2032	280	3,792	0	4,072	11	0	0	0	0	0
2033	287	3,792	0	4,079	11	0	0	0	0	0
2034	294	3,792	0	4,086	12	0	0	0	0	0
2035	949	3,792	0	4,741	13	0	0	0	0	0
2036	2,211	3,792	0	6,003	14	0	0	0	0	0
2037	3,431	3,792	0	7,223	14	0	0	0	0	0
2038	4,607	3,792	0	8,399	14	0	0	0	0	0
2039	5,027	3,792	0	8,819	13	0	0	0	0	0
2040	4,267	3,792	0	8,059	13	0	0	0	0	0
2041	3,088	3,792	0 -	6,880	14	0	0	0	0	0
2042	1,961	3,792	0	5,753	14	0	0	0	0	0
2043	886	3,792	0	4,678	14	0	0	0	0	0
2044	377	3,792	0	4,169	15	0	0	0	0	0
2045	386	3,792	0	4,178	15	0	0	0	0	0
2046	396	3,792	0	4,188	15	0	0	•	0	•
2047	406	3,792	0	4,198	16	0	0 0	0	0	0
2048	416 0	3,792	0	4,208 0	16 0	0	0	0	0	0
		0 0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	. 0	0	0	0	0	0	0	0	0	0
•	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
NOM	47,602	121,344	0	168,946	376	0	0	0	0	0
NPV	17,074	39,434	0	56,508	107	0	0	0	0	0

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^{*} SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRC AND RIM TESTS

page 2b

INPUT DATA - PART 1 CONTINUED PROGRAM METHOD SELECTED: REV_REQ

ESCALATION RATES

PROGRAM NAME: Residential Load Management (On Call®)

	(1)	(2)	(3)	(4) Fuel	(5) Capacity	(6) Blended	(7) Energy Charge	(8) Demand Charge
Year	CPI%	PPI-CAP%	O&M%	(cents/kwh)	Factor	Cap. Rate	(cents/kwh)	(\$/kw)
2014	2.50	2.50	2,50	0.00	0.00%	3,00	9.81	0.00
2015	2,50	2.50	2.50	0.00	0.00%	3.00	9.48	0.00
2016	2.50	2,50	2,50	0.00	0.00%	3.00	9,64	0.00
2017	2.50	2.50	2.50	0.00	0.00%	3.00	9,96	0.00
2018	2.50	2.50	2.50	0.00	0.00%	3.00	10.53	0.00
2019	2.50	2.50	2.50	3.85	55.85%	3.00	11.24	0.00
2020	2.50	2.50	2.50	4.03	95.39%	3.00	11.46	0.00
2021	2,50	2.50	2.50	4.10	95.40%	3.00	11.75	0.00
2022	2.50	2.50	2.50	4.23	95.37%	3.00	12.28	0.00
2023	2.50	2.50	2.50	4.42	94.99%	3.00	12.12	0.00
2024	2.50	2,50	2.50	4.69	94.40%	3.00	12.26	0.00
2025	2,50	2.50	2.50	4.88	93,42%	3.00	12.23	0.00
2026	2,50	2.50	2.50	5.08	88.94%	3.00	12.31	0.00
2027	2.50	2.50	2.50	5.31	87.68%	3.00	12.47	0.00
2028	2,50	2.50	2.50	5.59	87,36%	3.00	12.63	0.00
2029	2.50	2,50	2.50	5.79	87.30%	3.00	12.82	0.00
2030	2.50	2.50	2.50	5.88	88.13%	3.00	12.98	0.00
2031	2.50	2.50	2.50	6.13	88.44%	3.00	13.17	0.00
2032	2.50	2.50	2.50	6.32	89.14%	3.00	13.58	0.00
2033	2.50	2.50	2.50	6.59	89.64%	3.00	14.25	0.00
2034	2.50	2.50	2.50	6.84	89.85%	3.00	14.60	0.00
2035	2.50	2.50	2.50	7.09	89.65%	3.00	14.85	0.00
2036	2.50	2.50	2.50	7.31	90.14%	3.00	15.45	0.00
2037	2.50	2.50	2.50	7.63	89.91%	3.00	15.76	0.00
2038	2.50	2.50	2.50	7.92	89.91%	3.00	16.09	0.00
2039	2.50	2.50	2.50	8.22	89.91%	3.00	16.40	0.00
2040	2.50	2.50	2.50	8.52	89.86%	3.00	16.68	0.00
2041	2.50	2.50	2.50	8.79	89.82%	3.00	17.05	0.00
2042	2.50	2.50	2.50	9.18	89.85%	3.00	17.40	0.00
2043	2.50	2.50	2.50	9,48	89.84%	3.00	17.98	0.00
2044	2.50	2.50	2.50	9,88	89.93%	3.00	18.43	0.00
2045	2.50	2.50	2.50	10.25	89.91%	3.00	18.90	0.00
2046	2.50	2.50	2.50	10.63	89.91%	3.00	19.39	0.00
2047	2.50	2.50	2.50	10.97	89.83%	3,00	19,90	0.00
2048	2.50	2.50	2.50	11.44	89.92%	3.00	20.42	0.00
	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00
	0.00	0.00	0.00	0,00	0.00%	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00

Column (1) used for:

Utility Cost

Customer Equipment

Supply Costs

Column (6) used for:

Gen, Tran, & Dist Cost

Column (3) used for:

Customer O&M Cost Generator Fixed O&M T&D Fixed O&M Generator Variable O&M Docket No. 150085-EG Staff's First Data Request Request No. 25 Attachment No. 1 Page 3 of 14 CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: Residential Load Management (On Call®)

Docket No. 150085-EG Staff's First Data Request Request No. 25 Attachment No. 1 Page 4 of 14

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	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	(-)	(-)	\' ,	• • • • • • • • • • • • • • • • • • • •							PRESENT		REPLACEMENT
										TOTAL	WORTH	CUMULATIVE	COST BASIS
	BEG-YEAR		PREFERRED	COMMON	INCOME	PROPERTY	PROPERTY		DEFERRED	FIXED	FIXED	PW FIXED	FOR
	RATE BASE	DEBT	STOCK	EQUITY	TAXES	TAX	INSURANCE	DEPREC.	TAXES	CHARGES	CHARGES	CHARGES	PROPERTY INSURANCE
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2019	66,070	1,372	0	4,136	2,536	1,146	35	2,172	134	11,530	11,530	11,530	65,155
2020	63,764	1,324	0	3,992	1,587	1,107	35	2,172	991	11,208	10,423	21,953	66,784
2021	60,601	1,258	0	3,794	1,597	1,067	36	2,172	857	10,782	9,324	31,276	68,454
2022	57,572	1,195	0	3,604	1,601	1,028	37	2,172	734	10,371	8,340	39,617	70,165
2023	54,666	1,135	0	3,422	1,602	988	38	2,172	619	9,976	7,460	47,077	71,919
2024	51,875	1,077	0	3,247	1,598	949	39	2,172	513	9,595	6,673	53,750	73,717
2025	49,190	1,021	0	3,079	1,591	909	40	2,172	415	9,227	5,967	59,717	75,560
2026	46,604	968	0	2,917	1,580	870	41	2,172	324	8,872	5,335	65,052	77,449
2027	44,108	916	0	2,761	1,496	830	42	2,172	310	8,527	4,768	69,821	79,385
2028	41,626	864	0	2,606	1,399	791	43	2,172	309	8,184	4,256	74,077	81,370
2029	39,145	813	0	2,451	1,301	751	44	2,172	310	7,841	3,792	77,869	83,404
2030	36,664	761	0	2,295	1,204	711	45	2,172	309	7,498	3,372	81,241	85,489
2031	34,182	710	0	2,140	1,106	672	46	2,172	310	7,156	2,992	84,234	87,627
2032	31,701	658	0	1,985	1,009	632	48	2,172	309	6,813	2,649	86,883	89,817
2033	29,220	607	0	1,829	911	593	49	2,172	310	6,470	2,340	89,223	92,063
2034	26,739	555	0	1,674	814	553	50	2,172	309	6,127	2,061	91,284	94,364
2035	24,257	504	. 0	1,519	716	514	51	2,172	310	5,785	1,809	93,093	96,723
2036	21,776	452	0	1,363	619	474	53	2,172	309	5,442	1,583	94,675	99,142
2037	19,295	401	0	1,208	521	435	54	2,172	310	5,099	1,379	96,054	101,620
2038	16,813	349	. 0	1,053	423	395	55	2,172	309	4,757	1,196	97,251	104,161
2039	14,332	298	0	897	877	356	57	2,172	(242)	4,414	1,032	98,283	106,765
2040	12,403	258	0	776	1,353	316	58	2,172	(794)	4,139	900	99,183	109,434
2041	11,024	229	0	690	1,299	277	59	2,172	(794)	3,932	795	99,979	112,170
2042	9,646	200	0	604	1,245	237	61	2,172	(794)	3,725	701	100,679	114,974
2043	8,268	172	0	518	1,191	198	. 62	2,172	(794)	3,518	615	101,295	117,848
2044	6,890	143	0	431	1,136	158	64	2,172	(794)	3,311	539	101,833	120,794
2045	5,512	114	0	345	1,082	119	66	2,172	(794)	3,104	469	102,303	123,814
2046	4,134	86	0	259	1,028	79	67	2,172	(794)	2,897	407	102,710	126,910
2047	2,756	- 57	0	172	974	40	69	2,172	(794)	2,690	352	103,062	130,082
2048	1,377	29	0	86	920	(0)	71	2,172	(794)	2,483	302	103,364	133,334
	-,												

IN SERVICE COST (\$000)	65,155
IN SERVICE YEAR	2019
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	7.5%
PROPERTY TAX	1.82%
PROPERTY INSURANCE	0.05%

TURE		
WEIGHT	COST	
40%	5.14	П
0%	0.00	- 1
60%	10.50	
	WEIGHT 40% 0%	WEIGHT COST 40% 5.14 0% 0.00

K-FACTOR = CPWFC / IN-SVC COST =

1.58642

page 4a

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION PROGRAM METHOD SELECTED: REV_REQ PROGRAM NAME: Residential Load Management (On Call®

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	BOOK	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	2,404	2,404	2,172	2,172	2,058	2,058	134	3,429	0	0	0	134	(781)
2020	7.22%	4,627	7,031	2,172	4,344	2,058	4,115	991	3,429	0	0	0	991	210
2021	6.68%	4,280	11,311	2,172	6,516	2,058	6,173	857	3,429	0	0	0	857	1,068
2022	6.18%	3,961	15,272	2,172	8,687	2,058	8,230	734	3,429	0	0	0	734	1,802
2023	5.71%	3,662	18,934	2,172	10,859	2,058	10,288	619	3,429	0	0	0	619	2,421
2024	5,29%	3,388	22,321	2,172	13,031	2,058	12,345	513	3,429	0	0	0	513	2,934
2025	4.89%	3,133	25,454	2,172	15,203	2,058	14,403	415	3,429	0	0	0	415	3,349
2026	4.52%	2,898	28,353	2,172	17,375	2,058	16,460	324	3,429	0	0	0	324	3,673
2027	4,46%	2,860	31,213	2,172	19,547	2,058	18,518	310	3,429	0	0	0	310	3,983
2028	4,46%	2,859	34,072	2,172	21,718	2,058	20,576	309	3,429	0 -	0	0	309	4,292
2029	4,46%	2,860	36,932	2,172	23,890	2,058	22,633	310	3,429	0	0	0	310	4,601
2030	4,46%	2,859	39,791	2,172	26,062	2,058	24,691	309	3,429	0	0	0	309	4,911
2031	4.46%	2,860	42,651	2,172	28,234	2,058	26,748	310	3,429	0	0	0	310	5,220
2032	4,46%	2,859	45,511	2,172	30,406	2,058	28,806	309	3,429	0	0	0	309	5,530
2033	4,46%	2,860	48,371	2,172	32,578	2,058	30,863	310	3,429	0	0	0	310	5,839
2034	4.46%	2,859	51,230	2,172	34,750	2,058	32,921	309	3,429	0	0	0	309	6,148
2035	4.46%	2,860	54,090	2,172	36,921	2,058	34,978	310	3,429	0	0	0	310	6,458
2036	4.46%	2,859	56,950	2,172	39,093	2,058	37,036	309	3,429	0	0	0	309	6,767
2037	4,46%	2,860	59,810	2,172	41,265	2,058	39,093	310	3,429	0	0	0	310	7,077
2038	4.46%	2,859	62,669	2,172	43,437	2,058	41,151	309	3,429	0	0	0	309	7,386
2039	2,23%	1,430	64,099	2,172	45,609	2,058	43,209	(242)	3,429	0	0	0	(242)	7,144
2040	0.00%	0	64,099	2,172	47,781	2,058	45,266	(794)	3,429	0	0	0	(794)	6,350
2041	0.00%	0	64,099	2,172	49,952	2,058	47,324	(794)	3,429	0	0	0	(794)	5,557
2042	0.00%	0	64,099	2,172	52,124	2,058	49,381	(794)	3,429	0	0	0	(794)	4,763
2043	0.00%	0	64,099	2,172	54,296	2,058	51,439	(794)	3,429	0	0	0	(794)	3,969
2044	0.00%	0	64,099	2,172	56,468	2,058	53,496	(794)	3,429	0	0	0	(794)	3,176
2045	0.00%	0	64,099	2,172	58,640	2,058	55,554	(794)	3,429	0	0	0	(794)	2,382
2046	0.00%	0	64,099	2,172	60,812	2,058	57,611	(794)	3,429	0	0	0 -	(794)	1,588
2047	0.00%	0	64,099	2,172	62,983	2,058	59,669	(794)	3,429	0	0	0	(794)	794
2048	0.00%	0	64,099	2,172	65,155	2,058	61,727	(794)	3,429	0	0	0	(794)	1

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2048
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(914)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	3,429
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

page 4b

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION PROGRAM METHOD SELECTED: REV_REQ PROGRAM NAME: Residential Load Management (On Call®)

	(1)	(2)	(3)	(4)	(5) END OF YEAR	(5a)⁴	(5b)*	(6)	(7)	(8)
					NET			BEGINNING	ENDING OF	
		TAX	TAX	DEFERRED	PLANT IN	ACCUMULATED	ACCUMULATED	YEAR RATE	YEAR RATE	MID-YEAR
		DEPRECIATION	DEPRECIATION	TAX	SERVICE	DEPRECIATION	DEF TAXES	BASE	BASE	RATE BASE
	YEAR	SCHEDULE	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
_	2019	3.75%	2,404	134	62,983	2,172	(781)	66,070	63,764	64,917
	2020	7.22%	4,627	991	60,812	4,344	210	63,764	60,601	62,183
	2021	6.68%	4,280	857	58,640	6,516	1,068	60,601	57,572	59,087
	2022	6.18%	3,961	734	56,468	8,687	1,802	57,572	54,666	56,119
	2023	5.71%	3,662	619	54,296	10,859	2,421	54,666	51,875	53,271
	2024	5.29%	3,388	513	52,124	13,031	2,934	51,875	49,190	50,533
	2025	4.89%	3,133	415	49,952	15,203	3,349	49,190	46,604	47,897
	2026	4.52%	2,898	324	47,781	17,375	3,673	46,604	44,108	45,356
	2027	4.46%	2,860	310	45,609	19,547	3,983	44,108	41,626	42,867
	2028	4.46%	2,859	309	43,437	21,718	4,292	41,626	39,145	40,386
	2029	4.46%	2,860	310	41,265	23,890	4,601	39,145	36,664	37,904
	2030	4.46%	2,859	309	39,093	26,062	4,911	36,664	34,182	35,423
	2031	4.46%	2,860	310	36,921	28,234	5,220	34,182	31,701	32,942
	2032	4.46%	2,859	309	34,750	30,406	5,530	31,701	29,220	30,460
	2033	4.46%	2,860	310	32,578	32,578	5,839	29,220	26,739	27,979
	2034	4.46%	2,859	309	30,406	34,750	6,148	26,739	24,257	25,498
	2035	4.46%	2,860	310	28,234	36,921	6,458	24,257	21,776	23,017
	2036	4.46%	2,859	309	26,062	39,093	6,767	21,776	19,295	20,535
	2037	4.46%	2,860	310	23,890	41,265	7,077	19,295	16,813	18,054
	2038	4.46%	2,859	309	21,718	43,437	7,386	16,813	14,332	15,573
	2039	2.23%	1,430	(242)	19,547	45,609	7,144	14,332	12,403	13,367
	2040	0.00%	0	(794)	17,375	47,781	6,350	12,403	11,024	11,713
	2041	0.00%	0	(794)	15,203	49,952	5,557	11,024	9,646	10,335
	2042	0.00%	0	(794)	13,031	52,124	4,763	9,646	8,268	8,957
	2043	0.00%	0	(794)	10,859	54,296	3,969	8,268	6,890	7,579
	2044	0.00%	0	(794)	8,687	56,468	3,176	6,890	5,512	6,201
	2045	0.00%	0	(794)	6,516	58,640	2,382	5,512	4,134	4,823
	2046	0.00%	0	(794)	4,344	60,812	1,588	4,134	2,756	3,445
	2047	0.00%	0	(794)	2,172	62,983	794	2,756	1,377	2,066
	2048	0.00%	0	(794)	(0)	65,155	1	1,377	-1	688

Column not specified in workbook

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2017

2018

-2

-1

(7) CUMULATIVE (2) NO.YEARS (6) (1) (3) (4) CUMULATIVE YEARLY ANNUAL PLANT EXPENDITURE SPENDING AVERAGE SPENDING BEFORE ESCALATION ESCALATION (\$/kW) (\$/kW) IN-SERVICE RATE FACTOR (%) YEAR 1.000 1.030 0.83 0.41 2014 0.00% 1.96 38.88 0.28% 2.26 2015 -4 -3 3.00%

1.061

1.093

1.126

3.00%

3.00%

3.00%

8.69%

53.83%

37.09%

71.58

456.61

324.11

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					100.00%	855.39	_						
	YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC (\$\(\hat{V} \)	(8a)* DEBT AFUDC (\$/kW)	(8b)* CUMULATIVE DEBT AFUDC (\$/kW)	(9) YEARLY TOTAL AFUDC (\$/kW)	(9a)* CUMULATIVE TOTAL AFUDC (\$/kW)	(9b)* CONSTRUCTION PERIOD INTEREST (\$/kW)	(9c)* CUMULATIVE CPI (\$/kW)	(9d)* DEFERRED TAXES (\$/kW)	(9e)* CUMULATIVE DEFERRED TAXES (\$/kW)	YEAR-END	YEAR-END BOOK VALUE (\$/kW)
_	2014	-5	0.41	0.01	0.01	0.03	0.03	0.02	0.02	(0.00)	(0.00)	0,86	0,86
	2015	-4	1.99	0.04	0.05	0.13	0.16	0.10	0.12	(0.02)	(0.03)	2.39	3.24
	2016	-3	39.03	0.76	0.81	2.54	2,70	2.01	2.13	(0.48)	(0.51)	74.12	77.36
	2017	-2	305.67	5.95	6.76	19.90	22.60	15.69	17.82	(3.76)	(4.27)	476.51	553.87
	2018	-1	715.93	13.99	20.74	46.81	69.41	36.57	54.39	(8.71)	(12.98)	370.93	924.80

302.97

693,33

		20.74	69.41		54.39		(12.98)	924.80
				BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS]	
IN SERVICE YEAR PLANT COSTS AFUDC RATE	2019 776,3262845 6,50%]	CONSTRUCTION CASH EQUITY AFUDC DEBT AFUDC	60,265 3,429 1,461	60,265 1,461	60,265		
AI ODE RATE	0.5070		СЫ			3,832		
			TOTAL	65,155	61,727	64,097	* Coh	ımn not specified in workbook

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INPUT DATA -- PART 2 PROGRAM METHOD SELECTED: REV_REQ PROGRAM NAME: Residential Load Management (On Call®)

(1)	(2)	(3)	(4) UTILITY	(5)	(6) *	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	AVERAGE SYSTEM FUEL COST (C/kWh)	AVOIDED MARGINAL FUEL COST (C/kWh)	INCREASED MARGINAL FUEL COST (C/kWh)	REPLACEMENT FUEL COST (C/kWh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
2014	0	0	3.60	7.12	3.60	0.00	1.00	1.00
2015	12,000	12,000	4.45	8.42	4.45	0.00	1.00	1.00
2016	24,000	24,000	4.92	12.24	4.92	0.00	1.00	1.00
2017	36,000	36,000	4.27	10.29	4,27	0.00	1.00	1.00
2018	48,000	48,000	5,27	11,75	5.27	0.00	1.00	1.00
2019	48,000	48,000	5.38	16.61	5.38	5.05	1.00	1.00
2020	48,000	48,000	5.65	19.65	5.65	5.04	1.00	1,00
2021	48,000	48,000	5.65	18.15	5.65	5.12	1.00	1.00
2022	48,000	48,000	5.60	15.84	5.60	5.09	1.00	1.00
2023	48,000	48,000	5.60	14.15	5.60	5.20	1.00	1.00
2024	48,000	48,000	5.81	14.12	5.81	5.51	1.00	1.00
2025	48,000	48,000	5.98	17.69	5.98	5.65	1.00	1,00
2026	48,000	48,000	5.73	19.09	5.73	5,77	1.00	1,00
2027	48,000	48,000	6.01	16.85	6.01	6.08	1.00	1.00
2028	48,000	48,000	6.07	17.17	6.07	6.19	1.00	1.00
2029	48,000	48,000	6.28	13.07	6.28	6.49	1.00	1.00
2030	48,000	48,000	6,34	14.76	6.34	6.45	1.00	1.00
2031	48,000	48,000	6.57	17.01	6,57	6.72	1.00	1.00
2032	48,000	48,000	6.62	15.42	6.62	6.76	1.00	1.00
2033	48,000	48,000	6.97	16.02	6.97	7.11	1.00	1.00
2034	48,000	48,000	7.05	13:20	7.05	7.29	1.00	1.00
2035	48,000	48,000	7.19	11.99	7.19	7.50	1.00	1.00
2036	48,000	48,000	7.47	17.33	7.47	7.70	1.00	1.00
2037	48,000	48,000	7.68	17.92	7.68	8.02	1.00	1.00
2038	48,000	48,000	7.94	16.32	7.94	8.33	1.00	1.00
2039	48,000	48,000	8.12	13.64	8.12	8.53	1.00	1.00
2040	48,000	48,000	8.35	14.31	8.35	8.87	1.00	1.00
2041	48,000	48,000	8.67	15.52	8.67	9.13	1.00	1.00
2042	48,000	48,000	8.99	18.22	8.99	9.47	1,00	1.00
2043	48,000	48,000	9.27	16.85	9.27	9.80	1,00	1.00
2044	48,000	48,000	9,60	18.50	9.60	10.25	1.00	1.00
2045	48,000	48,000	9.94	16.83	9,94	10.58	1.00	1,00
2046	48,000	48,000	10,25	13.72	10.25	10.92	1.00	1.00
2047	48,000	48,000	10.57	14.20	10.57	11.29	1.00	1.00
2048	48,000	48,000	11.00	18.99	11.00	11.78	1.00	1.00
	0	0	0.00	0.00	0.00	0.00	0.00	0,00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0 -	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	00,0	0.00	0,00
	0	0	0.00	0.00	0.00	0.00	0.00	0,00
	0	0	0.00	0.00	0.00	0.00	0,00	0,00
	0	0	0.00	0.00	0.00	0.00	0,00	0.00

 $^{^{\}star}$ This column is used only for load shifting programs which shift consumption to off-peak periods. The values represent the off peak system fuel costs.

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page

AVOIDED GENERATING BENEFITS PROGRAM METHOD SELECTED: REV_REQ PROGRAM NAME: Residential Load Management (On Cali®)

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&M \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	0	0	0
2018	0	0	0	0	0	0
2019	11,530	4,651	252	13,277	17,393	12,317
2020	11,208	4,768	441	23,731	29,650	10,498
2021	10,782	4,887	452	24,117	30,121	10,116
2022	10,371	5,009	463	24,880	29,961	10,762
2023	9,976	5,134	473	25,936	30,491	11,028
2024	9,595	5,263	482	27,307	32,108	10,539
2025	9,227	5,394	489	28,159	32,559	10,711
2026	8,872	5,529	477	27,874	31,695	11,056
2027	8,527	5,667	482	28,745	32,904	10,517
2028	8,184	5,809	492	30,118	33,386	11,216
2029	7,841	5,954	504	31,207	34,947	10,559
2030	7,498	6,103	521	31,977	35,062	11,037
2031	7,156	6,256	536	33,476	36,682	10,741
2032	6,813	6,412	554	34,769	37,196	11,352
2033	6,470	6,572	571	36,469	39,336	10,747
2034	6,127	6,737	587	37,908	40,439	10,919
2035	5,785	6,905	600	39,240	41,522	11,007
2036	5,442	7,078	618	40,667	42,828	10,977
2037	5,099	7,255	632	42,311	44,516	10,782
2038	4,757	7,436	648	43,948	46,237	10,551
2039	4,414	7,622	664	45,585	47,312	10,973
2040	4,139	7,812	681	47,273	49,179	10,727
2041	3,932	8,008	697	48,727	50,635	10,729
2042	3,725	8,208	715	50,878	52,539	10,987
2043	3,518	8,413	733	52,575	54,350	10,888
2044	3,311	8,623	752	54,831	56,912	10,605
2045	3,104	8,839	770	56,872	58,704	10,881
2046	2,897	9,060	790	59,008	60,612	11,143
2047	2,690	9,286	809	60,796	62,587	10,994
2048	2,483	9,519	830	63,476	65,389	10,919
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0 .	0	0
NOM	195,475	204,207	17,713	1,166,135	1,257,251	326,279
NPV	71,881	52,692	4.540	279,476	312,738	95,850

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AVOIDED T&D AND PROGRAM FUEL SAVINGS PROGRAM METHOD SELECTED: REV_REQ PROGRAM NAME: Residential Load Management (On Call®)

(1)	(2)	(3)	(4) TOTAL	(5)	(6)	(7) TOTAL	(8)	(8a)*
YEAR	AVOIDED TRANSMISSION CAP COST \$(000)	AVOIDED TRANSMISSION O&M COST \$(000)	AVOIDED TRANSMISSION COST \$(000)	AVOIDED DISTRIBUTION CAP COST \$(000)	AVOIDED DISTRIBUTION O&M COST \$(000)	AVOIDED DISTRIBUTION COST \$(000)	PROGRAM FUEL SAVINGS \$(000)	PROGRAM OFF-PEAK PAYBACK \$(000)
2014	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	1	0
2016	0	0	0	0	0	0	5	1
2017	0	0	0	0	0	0	6	1
2018	0	0	0	0	0	0	10	2
2019	0	0	0	0	0	0	17	2
2020	0	0	0	0	0	0	20	2
2021	0	0	0	0	0	0	19	2
2022	0	0	0	0	0	0	16	2
2023	0	0	. 0	0	0	0	14	2
2024	0	0	0	0	0	0	14	3
2025	0	0	0	0	0	0	18	3
2026	0	0	0	0	. 0	0	20	3
2027	0	0	0	0	0	0	17	3
2028	0	0	. 0	0	0	0	17	3
2029	0	0	0	0	0	0	13	3
2030	0	0	0	0	0	0	15	3
2031	0	0	0	0	0	0	17	3
2032	0	0	0	0	0	0	15	3
2033	0	0	0	0	0	0	16	3
2034	0	0	0	0	0	0	13	3
2035	0	0	0	0	0.	0	11	3
2036	0	0	0	0	0	0	17	3
2037	0	0	0	0	0	0	18	3
2038	0	0	0	0	0	0	16	3
2039	0	0	0	0	0	0	13	4
2040	0	0	0	0	0	0	14	4
2041	0	0	0	0	. 0	0	15	4
2042	0	0	0	0	0	0	18	4
2043	0	0	0	0	0	0	16	4
2044	0	0	0	0	0	0	18	4
2045	0	0	0	0	0	0	16	4
2046	0	0	0	0	0	0	12	4
2047	0	0	0	0	0	0	13	5
2048	0	0	0	0	0	0	18	5
	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
	0	0	0	Ō	0	0	0	0
	0	ů 0	0	0	0	ō	0	Õ
NOM.	0	0	0	0	0	0	497	101
NPV	0	. 0	0	ō	Ö	Ö	161	28

^{*} THESE VALUES REPRESENT THE COST OF THE INCREASED FUEL CONSUMPTION DUE TO GREATER OFF-PEAK ENERGY USAGE. USED FOR LOAD SHIFTING PROGRAMS ONLY.

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. AVOIDED GENERATING EMISSION IMPACT PROGRAM METHOD SELECTED: REV_REQ PROGRAM NAME: Residential Lond Management (On Call®)

	(2)	(3)	(4)	(5)	(6)
YEAR	AVOIDED GEN UNIT EMISSION BENEFIT \$(000)	REPLACEMENT EMISSION COST \$(000)	PROGRAM EMISSION BENEFIT \$(000)	OFF-PEAK EMISSION PAYBACK COST \$(000)	NET EMISSION BENEFIT \$(000)
2014	0	0	0	0	0
2015	0	0	0	0	0
2016	0	0	0	0	0
2017	0	0	0	0	0
2018	0	0	0	0	0
2019	7	10	0	0	(3)
2020	11	17	0	0	(6)
2021	12	18	0	0	(6)
2022	12	17	0	0	(5)
2023	12	17	0	0	(4)
2024	13	18	0	0	(5)
2025	13	18	0	0	(5)
2026	12	17	0	0	(4)
2027	13	17	0	0	(5)
2028	13	17	0	0	(4)
2029	13	18	0	0	(5)
2030	14	18	0	0	(5)
2031	14	19	0	0	(5)
2032	14	19	0	0	(5)
2033	15	20	0	0	(5)
2034	15	20	0	0	(5)
2035	16	21	Ó	0	(5)
2036	16	21	0	0	(5)
2037	16	22	0	0	(5)
2038	17	22	0	0	(5)
2039	17	23	0	0	(5)
2040	18	23	0	0	(6)
2041	18	24	0	0	(6)
2042	19	24	0	0	(6)
2043	19	25	. 0	0	(6)
2044	20	26	0	0	(6)
2045	20	26	0	0	(6)
2046	21	27	0	0	(6)
2047	21	28	0	0	(7)
2048	22	28	0	0	(7)
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
NOM	460	619	0	0	(159)
NPV	118	162	0	0	(44)

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TOTAL RESOURCE COST TEST PROGRAM METHOD SELECTED: REV_REQ PROGRAM NAME: Residential Load Management (On Call®)

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2014	0	0	0	0	0	0	0	0	0	0	0	0
2015	0	555	0	0	555	0	0	1	0	1	(555)	(516)
2016	0	1,372	0	0	1,372	0	0	4	0	4	(1,368)	(1,699)
2017	0	2,165	0	0	2,165	0	0	5	0	5	(2,160)	(3,436) (5,625)
2018	0	2,935	0	0	2,935	0	0	8	0	8	(2,927) 9,261	815
2019	0	3,068	0	0	3,068	12,317	0	15	(3)	12,328	7,906	5,928
2020	0	2,604	0	0	2,604	10,498	0	18	(6)	10,510	7,906 8,241	10,884
2021	0	1,885	0	0	1,885	10,116	0	16	(6)	10,126	8,241 9,574	16,238
2022	0	1,197	0	0	1,197	10,762	0	14	(5)	10,771	10,495	21,696
2023	0	541	0	0	541	11,028	0	12	(4)	11,036 10,545	10,493	26,685
2024	0	230	0	0	230	10,539	0	12	(5)	10,545	10,313	31,400
2025	0	236	0	0	236	10,711	0	15 17	(5) (4)	11,068	10,483	35,928
2026	0	242	. 0	0	242	11,056	0	17	(5)	10,527	10,279	39,925
2027	0	248	0	. 0	248	10,517	0	15	(4)	11,226	10,972	43,894
2028	0	254	0	0	254	11,216	0	10	(5)	10,564	10,304	47,359
2029	0	260	0	0	260	10,559	0	12	(5)	11,044	10,777	50,729
2030	0	267	0	0	267	11,037	0	14	(5)	10,750	10,477	53,776
2031	0	273	0	0	273	10,741	0	12	(5)	11,360	11,080	56,773
2032	0	280	0	0	280	11,352 10,747	0	13	(5)	10,755	10,467	59,405
2033	0	287	0	0	287 294	10,747	0	10	(5)	10,924	10,629	61,891
2034	0	294	0	0	949	11,007	0	8	(5)	11,011	10,062	64,080
2035	0	949	0	0	2,211	10,977	0	14	(5)	10,986	8,775	65,854
2036	0	2,211	0	0	3,431	10,782	0	14	(5)	10,791	7,360	67,239
2037	0	3,431	0	0	4,607	10,551	ů	12	(5)	10,558	5,951	68,279
2038	0	4,607	0	0	5,027	10,973	ů.	9	(5)	10,977	5,951	69,247
2039	0	5,027	0	0	4,267	10,727	ő	10	(6)	10,731	6,464	70,225
2040	0	4,267	0	0	3,088	10,729	0	11	(6)	10,735	7,646	71,300
2041	•	3,088 1,961	0	0	1,961	10,987	0	14	(6)	10,995	9,033	72,482
2042	0	1,961 886	0	0	886	10,888	0	12	(6)	10,895	10,009	73,699
2043 2044	0	377	0	0	377	10,605	0	14	(6)	10,613	10,236	74,857
2044	0	386	0	0	386	10,881	0	12	(6)	10,886	10,500	75,961
2045	0	396	0	0	396	11,143	. 0	8	(6)	11,144	10,748	77,012
2046	0	406	0	ő	406	10,994	0	8	(7)	10,996	10,590	77,975
2048	0	416	0	Õ	416	10,919	0	13	(7)	10,925	10,509	78,864
2048	0	0	0	Ô	0	0	0	0	0	0	0	
	0	0	0	o	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	0	ů	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	_
NOM	0	47,602	0	0	47,602	326,279	0	396	(159)	326,516	278,914	
NPV	0	17,074	0	0	17,074	95,850	0	133	(44)	95,939	78,864	
IAE A	U	11,017										_

Discount Rate:

Benefit/Cost Ratio (Col(11) / Col(6)):

7.54

PARTICIPANT COSTS AND BENEFTTS
PROGRAM METHOD SELECTED: REV_REQ PROGRAM NAME: Residential Load Management (On Call®) Docket No. 150085-EG Staff's First Data Request Request No. 25 Attachment No. 1 Page 13 of 14

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS BILLS \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O&M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2014	0	0	0	0	0	0	0	0	0	0	0
2015	1	0	474	0	475	0	0	0	0	475	442
2016	4	0	1,422	0	1,426	0	0	0	0	1,426	1,675
2017	6	0	2,370	0	2,376	0	0	0	0	2,376	3,586
2018	10	0	3,318	0	3,328	0	0	0	0	3,328	6,074
2019	12	0	3,792	0	3,804	0	0	0	0	3,804	8,720 11,180
2020	12	0 .	3,792	0	3,804	0	0	0	0	3,804	13,467
2021	12	0	3,792	0	3,804	0	0	0	0	3,804 3,805	15,595
2022	13	0	3,792	0	3,805	0	0	0	0	3,805	17,574
2023	13	0	3,792	0	3,805	0	0	0	0	3,805	19,414
2024	13	0	3,792	0	3,805	0	0	0	0	3,805	21,125
2025	13	0	3,792	0	3,805	. 0	0	0	0	3,805	22,716
2026	13	0	3,792	0	3,805	0	0	0	ů	3,805	24,196
2027	13	0	3,792	0	3,805	0	0	0	Ô	3,805	25,572
2028	13	0	3,792	0	3,805	0	0	0	ő	3,805	26,852
2029	13	0	3,792	0	3,805 3,806	0	0	0	ő	3,806	28,042
2030	14	0	3,792	0	3,806	. 0	0	0	0	3,806	29,149
2031	14	0	3,792	0	3,806	0	0	0	0	3,806	30,178
2032	14	0	3,792 3,792	0	3,807	0	Ů	0	Ö	3,807	31,135
2033	15	0	3,792	0	3,807	ů	0	0	0	3,807	32,026
2034	15 17	0	3,792	0	3,809	0	0	0	0	3,809	32,854
2035	18	0	3,792	0	3,810	0	0	0	0	3,810	33,625
2036 2037	18	0	3,792	Ö	3,810	0	0	0	0	3,810	34,342
2037	19	0	3,792	0	3,811	0	-0	0	0	3,811	35,008
2039	17	0	3,792	0	3,809	0	0	0	0	3,809	35,628
2040	17	ň	3,792	0	3,809	0	0	0	0	3,809	36,204
2041	18	0	3,792	0	3,810	0	0	0	0	3,810	36,740
2042	18	0	3,792	0	3,810	0	0	0	0	3,810	37,238
2042	19	0	3,792	0	3,811	0	0	0	0	3,811	37,701
2044	19	. 0	3,792	0	3,811	0	0	0	0	3,811	38,132
2045	20	0	3,792	0	3,812	0	0	0	0	3,812	38,533
2046	20	0	3,792	0	3,812	0	0	0	0	3,812	38,906
2047	21	0	3,792	0	3,813	0	0	0	0	3,813	39,253
2048	21	0	3,792	0	3,813	0	0	0	0	3,813	39,575
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
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NOM	495	0	121,344	0	121,839	0	0	0	0	121,839 39,575	
NPV	141	0	39,434	0	39,575	0	0	0	- U	دا درود	

In Service of Gen Unit:

Discount Rate:

Benefit/Cost Ratio (Col(6) / Col(10))

2019 7.54

Infinite

RATE IMPACT TEST PROGRAM METHOD SELECTED: REV_REQ PROGRAM NAME: Residential Load Management (On Call®)

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2014	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	0	555	474	1	0	1,030	1	0	0	0	1	(1,030)	(957)
2016	0	1,372	1,422	3	0	2,797	4	0	0	0	4	(2,793)	(3,373)
2017	0	2,165	2,370	5	0	4,540	5	0	0	0	5	(4,535)	(7,020)
2018	0	2,935	3,318	7	0	6,260	8	0	0	0	8	(6,252)	(11,695)
2019	0	3,068	3,792	9	0	6,869	12,332	0	0	(3)	12,328	5,460	(7,898)
2020	0	2,604	3,792	9	0	6,405	10,516	0	0	(6)	10,510	4,105	(5,243)
2021	0	1,885	3,792	9	0	5,686	10,132	0	0	(6)	10,126	4,440	(2,574)
2022	0	1,197	3,792	10	0	4,999	10,776	0	0	(5)	10,771	5,772	654
2023	0	541	3,792	10	0	4,342	11,040	0	0	(4)	11,036	6,693	4,135
2024	Ö	230	3,792	10	0	4,032	10,550	0	0	(5)	10,545	6,513	7,285
2025	0	236	3,792	10	0	4,037	10,726	0	0	(5)	10,721	6,684	10,291
2026	0	242	3,792	10	0	4,043	11,073	0	0	(4)	11,068	7,025	13,229
2027	0	248	3,792	10	0	4,050	10,532	0	0	(5)	10,527	6,477	15,748
2028	ñ	254	3,792	10	0	4.056	11,231	0	0	(4)	11,226	7,170	18,341
2029	0	260	3,792	10	0	4,062	10,569	0	0	(5)	10,564	6,502	20,528
2029	0	267	3,792	10	0	4,069	11,049	0	0	(5)	11,044	6,975	22,709
2031	0	273	3,792	10	0	4,076	10,755	0	0	(5)	10,750	6,674	24,650
2031	0	280	3,792	11	0	4,083	11,365	0	0	(5)	11,360	7,277	26,618
2032	0	287	3,792	11	Ö	4,091	10,760	0	0	(5)	10,755	6,664	28,294
	0	294	3,792	112	0	4,098	10,929	0	0	(5)	10,924	6,826	29,891
2034	0	949	3,792	13	0	4,754	11,016	0	0	(5)	11.011	6,256	31,251
2035	0	2,211	3,792	14	0	6,017	10,991	0	0	(5)	10,986	4,969	32,256
2036	0		3,792	14	0	7,237	10,796	0	0	(5)	10,791	3,554	32,925
2037	•	3,431	3,792 3,792	14	0	8,414	10,7564	0	0	(5)	10,558	2,145	33,300
2038	0	4,607		13	0	8,832	10,983	Ô	0	(5)	10,977	2,146	33,649
2039	•	5,027	3,792 3,792	13	0	8,072	10,737	Ô	0	(6)	10,731	2,659	34,051
2040	0	4,267		14	0	6,894	10,740	0	0	(6)	10,735	3,841	34,591
2041	0	3,088	3,792		0	5,767	11,000	0	0	(6)	10,995	5,227	35,275
2042	0	1,961	3,792	14	0	4,692	10,901	0	0	(6)	10,895	6,202	36,029
2043	0	886	3,792	14	0	4,692 4,184	10,501	0	0	(6)	10,613	6,429	36,756
2044	0	377	3,792	15	-		,	0	0	(6)	10,886	6,693	37,460
2045	0	386	3,792	15	0	4,193	10,893	0	0	(6)	11,144	6,941	38,139
2046	0	396	3,792	15	0	4,203	11,151	0	0	(6) (7)	10,996	6,782	38,756
2047	0	406	3,792	16	0	4,214	11,002	0	0	(7)	10,995	6,701	39,323
2048	0	416	3,792	16	U	4,224 0	10,932	0	0	0	10,925	0	37,323
•	0	0	0	0	U	0	0	0	0	0	0	0	
	0	0	0	0	0	•	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
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	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	·	•		0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0			•	<u> </u>		
NOM.	0	47,602	121,344	376	0	169,322	326,675	0	0	(159)	326,516	157,194	
NPV	0	17,074	39,434	107	0	56,616	95,983	0	0	(44)	95,939	39,323	

Discount Rate Benefit/Cost Ratio (Col(12) / Col(7)):

1.69

7.54

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 26 Page 1 of 1

Q. Please provide the number of participants currently participating in FPL's Load Control Tariff.

As of March 31, 2015, there were 559,305 participants in FPL's open Load Control tariff (representing approximately 70% of the more than 810,000 total Residential Load Management participants).

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 27 Page 1 of 1

Q. If granted by the Commission, how would FPL inform its customers participating in FPL's closed Residential On Call Tariff of a pending switch to FPL's Load Control Tariff?

A.

Once Commission approval of the change is final, FPL will inform by letter all customers on the closed Residential On Call Tariff. Those customers whose credits will be impacted (i.e., those who have selected the air conditioning – cycling or water heater options) will be notified of the credit changes. The letter will be sent to each Residential On Call customer's registered mail address at least 30 days in advance of the date when the newly-approved credit will be reflected on the customer's bill. In addition, FPL will ensure that its Care Center personnel are provided with the necessary information to respond to any follow-up questions customers may have.

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 28 Page 1 of 1

Q.

What procedures does FPL have in place to notify customers participating in the closed On Call Tariff that they could be shifted into the Load Control Tariff?

A.

Please see FPL's response to Staff's First Data Request, No. 27. Please note that if the Commission approves the requested Residential On Call Tariff cancellation, every customer on that tariff will be automatically transferred to the open Load Control Tariff. As discussed in FPL's response to Staff's First Data Request, No. 24, affected customers will experience varying impacts to their monthly credits depending on which end-use option(s) they've selected and certain customers will see no credit impact. However, in no case will any customers remain on the cancelled Residential On Call Tariff. FPL does not plan to provide notice of any potential changes to the affected customers prior to the Commission's approval.

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 29 Page 1 of 1

Q. What procedures does FPL have in place to address the possibility of a customer not wishing to be shifted into the Load Control Tariff?

As discussed in FPL's response to Staff's First Data Request, No. 28, if the Commission grants FPL's request to cancel the Residential On Call Tariff, customers will not have the option to remain on the cancelled tariff. If, once notified of the change, an affected participant does not wish to continue participating in FPL's Residential Load Management program under the open Load Control tariff, that customer can, without penalty, choose to discontinue his or her participation.

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Q. Would there be any penalties assessed to a customer who chose not to be shifted from the closed On Call Tariff to the Load Control Tariff?

A.

No. If a participant does not wish to continue participation they can just request to cease participating in FPL's Residential Load Management program. Please also see FPL's response to Staff's First Data Request, No. 29.

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Q.

Would there be any administrative cost savings associated with shifting the customers in FPL's closed On Call Tariff to its current Load Control Tariff? If so, please describe the type of cost savings and provide an estimate of annual savings.

A.

FPL expects an approximate \$8.3 million annual cost savings due to lower bill credits being provided to certain closed tariff participants who are transferred to the open tariff (not all participants in the closed tariff will be affected). FPL expects some comparatively small administrative savings from reduced system and reporting requirements related to the additional (duplicative) option codes associated with the closed tariff.

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- Q. Participation in some programs (such as Residential Energy Survey and Residential On call) are held constant, while other programs (such as Residential Ceiling Insulation) have annually increasing participation rates.
- a. Please explain the variation and how it would be accomplished by the company.
- b. Please discuss the methodology used to estimate expected participation for each program proposed by the company.

A.

- a. The participation for programs which provide demand and energy savings represent FPL's maximum Rate Impact Measure (RIM) Achievable Potential from the DSM Goals docket (Docket No. 130199-EI). Please note that FPL does not attribute any demand or energy savings to its Residential Energy Survey or Business Energy Evaluation. In those programs where participation increases year over year, the changes essentially reflect projected increases in customer growth which creates incremental increases in the available eligible market. Because FPL has offered all the proposed programs for many years, the future market penetration rates for each are expected to be relatively stable, though at a higher or lower level than in the past depending on the new rebate levels.
- b. Please see FPL's response to subpart (a) of this Data Request. The projected participation (i.e., the Achievable Potential) was developed using quantitative and qualitative information and FPL's market experience incorporating several factors including: customer growth; rebate levels; participant's years-to-payback; historical adoption rates; payback acceptance curves; projected changes in market conditions; impacts on program delivery channels; market penetration, etc. These were used to establish the expected participation for 2015. For 2016-2024, FPL used a ramp up (escalation) rate from the 2015 participation value. For certain programs (e.g., residential and business Load Management), the escalation rate is projected to be zero because other market factors are expected to result in participation remaining stable over the Goals period. For FPL's Commercial/Industrial Demand Reduction program, the Environmental Protection Agency's Reciprocating Internal Combustion Engine / National Emissions Standard for Hazardous Air Pollutants (RICE/NESHAP) Rule change which requires more stringent emissions controls on customers who use generators to participate in load management programs is expected to continue to constrain participation. Participation in the Residential Load Management, Business On Call, Residential Energy Survey, and the Business Energy Evaluation programs were not escalated because participation has not historically been driven by customer growth. The Residential Low Income participation is also not driven by customer growth; rather it is a function of the participation volume the two delivery channels are able to provide.

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 33 Page 1 of 1

Q. Please compare the projected participation rates of continuing programs with the actual participation rates for the previous ten years (or less, depending upon the start date of the program).

A. Please see Attachment No. 1.

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 33 Attachment No. 1

Tab 1 of 1

	Actual Program Participation											
Program	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014		
Residential Program Participants			404-07-04-77-17-17-17-17-17-17-17-17-17-17-17-17-				CONTRACT CONTRACT					
Residential Energy Surveys	116,903	155,398	165,575	158,580	172,667	139,837	159,620	145,069	147,012	197,794		
Residential Load Management (On Call®)	6,150	20,667	19,174	11,237	12,159	6,826	8,021	13,910	15,370	10,395		
Residential Air-Conditioning	54,466	54,812	33,516	48,332	63,453	99,897	113,907	101,156	105,164	121,349		
Residential New Construction (BuildSmart®)	2,630	4,376	4,084	2,297	1,647	2,089	2,317	2,943	2,600	3,503		
Residential Ceiling Insulation	6,149	5,774	12,945	10,901	9,632	12,604	9,827	6,681	5,141	5,821		
Residential Low Income	132	331	409	620	456	837	1,666	2,505	844	884		
Business Program Participants									53-0 DWN07	- America		
Business Energy Evaluations	8,544	12,140	11,755	11,598	12,036	13,228	11,690	12,089	12,101	12,822		
Business On Call	4,314	6,752	19,781	3,570	6,099	1,901	5,662	4,473	6,073	4,914		
Commercial/Industrial Demand Reduction	8,227	25,162	53,458	42,569	39,598	7,786	7,038	16,255	5,657	10,129		
Business Heating, Ventilating, & Air Conditioning	19,635	14,456	13,593	7,809	8,003	10,611	8,789	12,224	12,936	12,932		
Business Lighting	4,960	5,625	4,953	3,265	2,847	3,810	3,509	4,397	2,742	1,411		
Business Custom Incentive (BCI)	795	1,568	12,554	162	1,732	2,586	2,098	2,335	3,795	1,220		
Solar Pilot Participants												
Residential Photovoltaic	in the the rej	1 W2.56.51					271	225	278	257		
Business Photovoltaic	Excelle colli		DICH DOOR				31	66	56	51		
Business Photovoltaic for Schools	**************************************						0	0	29	63		
Residential Solar Water Heating					Tiberros	1050 100	523	1,145	1,084	1,118		
Residential Solar Water Heating (LINC)		- Monto Dune			Real Control		0	113	103	266		
Business Solar Water Heating					promonite	al shipted	9	22	7	3		

		Projected	Program P	articipation						
Program	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Residential Program Participants										12222
Residential Energy Surveys	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Residential Load Management (On Call®)	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
Residential Air-Conditioning	23,398	29,694	30,339	30,929	31,491	32,222	32,826	33,075	33,447	34,027
Residential New Construction (BuildSmart®)	1,463	1,559	1,677	1,897	2,124	2,359	2,564	2,998	3,458	3,827
Residential Ceiling Insulation	3,748	4,853	5,073	5,300	5,533	5,782	6,025	6,292	6,551	6,853
Residential Low Income	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Business Program Participants										C., 201000000
Business Energy Evaluations	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
Business On Call	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
Commercial/Industrial Demand Reduction	7,500	7,500	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
Business Heating, Ventilating, & Air Conditioning	6,999	8,648	8,804	8,968	9,139	9,317	9,503	9,695	9,895	10,101
Business Lighting	2,104	2,569	2,748	2,933	3,126	3,326	3,535	3,752	3,978	4,215
Business Custom Incentive (BCI)	451	550	551	573	673	665	642	696	641	663
Solar Pilot Participants										
Residential Photovoltaic	389	Section 1	North Land							
Business Photovoltaic	76				C EX HIII	OR HAVE THE	or me in			
Business Photovoltaic for Schools	28									
Residential Solar Water Heating	900	H I I S III								
Residential Solar Water Heating (LINC)	120	ela divita		BEX Y W			1 146			
Business Solar Water Heating	87			1	10					

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Q.

Please provide the following information regarding the Company's current and proposed Conservation Research and Development program:

- a. Provide any information/documentation regarding any planned areas of research under the proposed program.
- b. Provide any information/documentation regarding how the Company plans to implement any proposed or future projects.

A.

- a. The Conservation Research and Development (CRD) program identifies and scientifically evaluates the energy and demand savings and customer economic performance under FPL's climate conditions of emerging energy efficiency and demand response technologies and practices. Please see FPL's response to Staff's First Data Request, No. 35 for the detailed descriptions of FPL's current projects (please note that projects for 2016 and beyond have not yet been identified). This year's projects focus on evaluating technologies related to heating, ventilation, and air conditioning (HVAC), building envelope, efficient appliances, lighting, controls, and demand response. CRD focuses on FPL-specific analysis with the overall objectives to provide: (1) accurate assessments of cost-effectiveness and applicability for possible inclusion in a future DSM Plan; and (2) an authoritative source of accurate information to respond to our customers' energy technology questions.
- b. FPL's CRD projects are conducted in both laboratory and field settings. FPL focuses its efforts on technologies or practices that could reasonably be expected to be relevant to our customers' energy use. CRD projects are implemented using two basic approaches. The first is joining and leveraging publically-sponsored or third-party funded initiatives. By collaborating in a co-funded initiative (such as is currently being done with the U.S. Department of Energy), FPL is able to maximize the use of its research funds. The second approach is sponsoring research in partnership with Florida-based universities and/or independent research organizations. These projects are selected through a bidding process based on factors such as the proposed experimental method, proposal quality, the relevant expertise and experience of the particular researchers, and the overall value per budget dollar. Please also see FPL's response to Staff's First Data Request, No. 38 regarding timing of selection for future projects.

Please note that responsive documents contain confidential information (i.e., Requests for Proposals, contractual data, etc.), therefore they are being filed separately with a Notice of Intent to Request Confidential Classification.

Florida Power & Light Company Docket No. 150085-EG Staff's First Data Request Request No. 35 Page 1 of 1

Q.

What projects are currently being evaluated under the Company's Conservation Research and Development program? As part of your response, please provide the following: name and description of the project, initial startup date of the project, and year-to-date dollars spent on each project. Additionally, please provide whether or not the company believes said project(s) could result in a potential conservation program. If the company perceives a program is imminent, please provide expected startup date.

Conservation Research and Development							
Project Name	Description	Implementation Date	Expenditures				

A.

Please see Attachment No. 1. At this time, it has not been determined whether any of these projects will ultimately be incorporated into FPL's DSM portfolio in the future. FPL will not be able to make such a determination until all ongoing research and testing to assess the technical, economic and market feasibility is completed.

ab 1 of 1 Conservation Research and Development Implementation							
Project Name	Description	Implementation Date ¹	Expenditures				
Deep Retrofit of Existing Homes Building America Project - Phase I)	This is a continuation of the Building America project FPL is co-funding with the U.S. Department of Energy (DOE) in order to quantify and contrast the demand and energy savings paybacks associated with "light" and "deep" energy efficiency retrofit measures for existing homes in Florida's climate. The study should assist customers in ranking the priority order of energy efficiency upgrades for their homes. 60 homes received light retrofits such as efficient lighting, water heater tank insulation and shortened pool pump operating schedules. Ten homes received deep retrofits such as seasonal energy efficiency ratio (SEER) 16 high efficiency HVAC units, heat pump water heaters and targeted upgrades to Energy Star® appliances. End-use metering and statistical analysis will be used to estimate the impacts. Analysis of Phase I was completed in 2014. For Phase II, additional deep retrofit technologies were installed in a subset of the 60 homes. These retrofits include: learning thermostats (25 homes); ultra-high efficiency mini-split ductless air conditioners (11 homes); ducting of cool air from heat pump water heaters (8 homes); super-efficient Energy Star clothes washers and dryers (8 homes); variable-speed pool pumps (5 homes); and high efficiency windows and exterior wall insulation (2 homes). The monitoring and analysis will complete later this year with a final report available by year end.	10/2014	\$34,968				
Commercial Rooftop HVAC Retrofit with Variable Speed Air Handler Fan	A 60-ton HVAC unit on a host supermarket location in Miami has been retrofitted with the Enerfit controller. Based on real-time feedback from multiple temperature and pressure sensors, the Enerfit slows down the air handler fan whenever maximum cooling capacity is not needed (essentially turning the existing fan motor into a variable speed drive) which could save energy and increase dehumidification. For one full year the controller will alternate every two weeks between control and bypass mode to gather data across the full range of weather conditions. Statistical regression and weather data for a typical meteorological year will be used to estimate any annual energy savings and peak hour demand reduction.	7/2014	\$2,898				
Residential Smart Thermostats – Small Scale Tests and Larger Trial	FPL is testing various smart thermostat technologies. In 2012 through 2014, FPL conducted small-scale tests of purely algorithm-based devices. The purpose of these limited tests was to gather directional data to determine if these types of technologies might produce energy savings (and, if so, how much) and whether it could be beneficial to perform subsequent broader testing. In addition, FPL has also been conducting a larger trial of non-algorithm-based devices to assess the technical feasibility, customer acceptance and demand and energy impacts of broadband-connected thermostats which can be accessed and controlled via customer-owned mobile devices (i.e., smartphones and tablets). In 2013, FPL installed equipment in the homes of 180 volunteer participants. These participants agreed to allow FPL to perform load control tests using the thermostats during the trial period which will provide data on equipment capabilities and customers' responses to such events (including whether they opt out). The trial period was completed at the end of 2014 and analysis of the results will be compiled later this year.	6/2013	\$56,273				
SmartGrid Enabled Load Management Hardware Testing	FPL is conducting lab testing of emerging demand response switches that manufacturers claim can effectively communicate over FPL's SmartGrid network which would represent a potential alternate communications pathway to residential customers for demand response. Manufacturers claim their switches can use FPL's network and also potentially provide additional features for monitoring and controlling loads. The purpose of this testing is to determine the true readiness of these technologies.	10/2014	\$35,882				

Represents initial startup date

² Expenditures through March 31, 2015

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Q.

What current programs has the company offered to its customers as a result of the Conservation Research and Development program? In addition to the name of the program, please provide the description, startup date and year-to-date expenditures for each program.

A.

Please see Attachment No. 1. Please note that these CRD projects have been incorporated into FPL's DSM portfolio as either stand-alone programs (e.g., Business On Call) or as measures within existing DSM programs (e.g., Energy Recovery Ventilator which is a measure in FPL's Business Heating, Ventilating & Air Conditioning program.)

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Tab 1 of 1

Project Name	Description	Startup Date ¹	Year-to-Date Expenditures ²
Business On Call (Load Management)	This program allows FPL to turn off customers' direct expansion ("DX") central electric air conditioning units for varying time periods during system emergencies, consistent with the applicable tariff. FPL-installed equipment is connected to the customer's DX units allowing FPL to control this load	6/1995	\$56,020
Business Reflective Roof	This is a measure within the current Business Building Envelope Program which encourages the installation of reflective white roofs to reduce HVAC load	6/2001	\$1,048,101
Duct Plenum Repair	This is a measure within the current Residential Air Conditioning Program which encourages repair of damaged duct connections when a new air conditioning unit is installed	4/2005	\$328,380
Energy Recovery Ventilation (ERV)	This is a measure within the Business HVAC Program which encourages installation of ERVs. ERVs reclaim energy from building exhaust air to pre-condition incoming fresh air which reduces the HVAC load.	4/2005	\$16,472
Demand Control Ventilation (DCV)	This is a measure within the Business HVAC Program which encourages installation of DCVs. DCVs use electronic controls and variable speed drives to vary the amount of fresh air coming into a building according to the real time ventilation requirements which reduces the HVAC load.	9/2006	\$31,751
Kitchen Exhaust Controllers	This is a measure within the Business HVAC Program which encourages applying DCV controls to automatically reduce the amount of exhaust and fresh makeup air in commercial kitchens when no more heat, steam, or smoke is present after cooking has stopped	1/2008	Included within DCV above

¹ Represents date when the project was originally approved for inclusion in FPL's DSM portfolio

² Expenditures through March 31, 2015

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Q. Please provide the amount spent on Conservation Research and Development programs for each of the past five years. Please provide the corresponding project name, implementation date, and dollar amount for each project.

A. Please see Attachment No. 1.

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Conservation Research and Development									
Project	2010	2011	2012	2013	2014	Total	n Date ¹		
Hotel Occupancy Sensors	\$32,227					\$32,227	5/2010		
Efficient Pool Pumps	\$42,205	\$9,586				\$51,790	11/2010		
Advanced Skylights	\$102,177					\$102,177	12/2010		
Commercial Hybrid Desiccant Dehumidification	\$115,667					\$115,667	12/2010		
Residential SEER 21 Variable Capacity Heat Pump HVAC	\$21,420					\$21,420	12/2010		
Electric Power Research Institute (EPRI) Efficient Technology Collaborative	\$244,186	\$243,063	\$270,472			\$757,721	12/2012		
Integrated Heat Pump Water Heaters (HPWH)			\$43,859	\$8,904		\$52,764	9/2013		
Super High Efficiency Air Conditioning Study Phase III				\$62,329		\$62,329	12/2013		
Condenser Misting for Commercial HVAC & Refrigeration				\$101,629	\$25,488	\$127,117	2/2014		
Variable Speed Controls Installation					\$23,249	\$23,249	9/2014		
Wind Washing in Two-Story Homes Phase II					\$26,479	\$26,479	12/2014		
Deep Retrofit of Homes Phases I & II			\$27,412	\$222,602	\$191,656	\$441,670	12/2014		
Residential Smart Thermostats – Small Scale Tests and Larger Trial				\$34,789	\$198,466	\$233,255	7/2015		
Load Control Hardware Testing				\$44,520	\$5,100	\$49,621	12/2015		
Variable Speed Evaporator Fan Controls for Commercial HVAC					\$24,615	\$24,615	12/2015		
Total	\$557,881	\$252,648	\$341,744	\$474,773	\$495,053	\$2,122,100			

¹ 2015 dates represent the expected completion dates

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Q. Please complete the following chart using Excel format to illustrate the Company's expected projects in the Conservation Research and Development:

Conservation Research and Development - Project Name								
Year	Project Name	Description	Expected Expenditures					
2015								
2016								
2017								
2018		_						
2019								
2020								
2021								
2022								
2023								
2024								

A.

Please see Attachment No. 1. At this time, FPL has not identified the specific research projects that will be conducted in 2016 and beyond. During the third and fourth quarters of each year FPL develops the research plan for the following year. The new technologies selected to become the subject of research projects are derived from those FPL identifies as now becoming commercially viable and/or those which customer are inquiring about. Since these technologies by their nature are new, it's not possible to determine years in advance which will be worthy of further study.

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	Conservation Research and Development – Project Name							
			Expected					
Year	Project Name	Description	Expenditures ¹					
	Deep Retrofit of Existing Homes (Building America Project - Phase II)	This is a continuation of the Building America project FPL is co-funding with the U.S. Department of Energy (DOE) in order to quantify and contrast the demand and energy savings paybacks associated with "light" and "deep" energy efficiency retrofit measures for existing homes in Florida's climate. The study should assist customers in ranking the priority order of energy efficiency upgrades for their homes. 60 homes received light retrofits such as efficient lighting, water heater tank insulation and shortened pool pump operating schedules. Ten homes received deep retrofits such as seasonal energy efficiency ratio (SEER) 16 high efficiency HVAC units, heat pump water heaters and targeted upgrades to Energy Star® appliances. End-use metering and statistical analysis will be used to estimate the impacts. Analysis of Phase I was completed in 2014. For Phase II, additional deep retrofit technologies were installed in a subset of the 60 homes. These retrofits include: learning thermostats (25 homes); ultra-high efficiency mini-split ductless air conditioners (11 homes); ducting of cool air from heat pump water heaters (8 homes); super-efficient Energy Star clothes washers and dryers (8 homes); variable-speed pool pumps (5 homes); and high efficiency windows and exterior wall insulation (2 homes). The monitoring and analysis will complete later this year with a final report available by year end.	\$91,892					
2015	Commercial Rooftop HVAC Retrofit with Variable Speed Air Handler Fan	A 60-ton HVAC unit on a host supermarket location in Miami has been retrofitted with the Enerfit controller. Based on real-time feedback from multiple temperature and pressure sensors, the Enerfit slows down the air handler fan whenever maximum cooling capacity is not needed (essentially turning the existing fan motor into a variable speed drive) which could save energy and increase dehumidification. For one full year the controller will alternate every two weeks between control and bypass mode to gather data across the full range of weather conditions. Statistical regression and weather data for a typical meteorological year will be used to estimate any annual energy savings and peak hour demand reduction.	\$69,303					
	Residential Smart Thermostats – Small Scale Tests and Larger Trial	FPL is testing various smart thermostat technologies. In 2012 through 2014, FPL conducted small-scale tests of purely algorithm-based devices. The purpose of these limited tests was to gather directional data to determine if these types of technologies might produce energy savings (and, if so, how much) and whether it could be beneficial to perform subsequent broader testing. In addition, FPL has also been conducting a larger trial of non-algorithm-based devices to assess the technical feasibility, customer acceptance and demand and energy impacts of broadband-connected thermostats which can be accessed and controlled via customer-owned mobile devices (i.e., smartphones and tablets). In 2013, FPL installed equipment in the homes of 180 volunteer participants. These participants agreed to allow FPL to perform load control tests using the thermostats during the trial period which will provide data on equipment capabilities and customers' responses to such events (including whether they opt out). The trial period was completed at the end of 2014 and analysis of the results will be compiled later this year.	\$120,143					
	SmartGrid Enabled Load Management Hardware Testing	FPL is conducting lab testing of emerging demand response switches that manufacturers claim can effectively communicate over FPL's SmartGrid network which would represent a potential alternate communications pathway to residential customers for demand response. Manufacturers claim their switches can use FPL's network and also potentially provide additional features for monitoring and controlling loads. The purpose of this testing is to determine the true readiness of these technologies.	\$100,241					
2016	Not yet determined							
2017	Not yet determined							
2018	Not yet determined							
2019	Not yet determined							
2020	Not yet determined							
2021	Not yet determined							
2022	Not yet determined							
2023	Not yet determined							
2024	Not yet determined							

¹ Represents estimated 2015 expenditures

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Q.

As part of either the Residential Energy Survey or Business Energy Evaluation, does the company provide any energy efficiency items to customers, such as lighting or low flow showerheads?

- a. If so, does FPL estimate the installation rate and savings associated with these items?
- b. For the Residential Energy Survey, would all types of audits receive the same items? If not, please describe which type of audit receives which items.

A.

No, FPL does not provide any such items as part of its Residential or Business Energy Survey programs.

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Q. Please explain the increase in the rebates for the Business HVAC Program.

A.

Based on the cost-effectiveness screening tests, some of the Business HVAC measures now can support higher maximum rebates than when the maximum rebates under the existing DSM Plan were determined in 2006. FPL's maximum rebates represent the lesser of the amounts which yield: (a) a Rate Impact Measure (RIM) screening test ratio of 1.01; or (b) a participant's payback of their incremental investment of no faster than 2 years. For these particular measures, in 2006 the participant payback criterion (based on the assumptions at that time) determined the maximum rebate that could be supported. Based on the current set of assumptions, the governing criterion for these measures is now the minimum RIM ratio.

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Q. Please explain the increase in the rebates for the Business Lighting Program's PSMH measure.

A. Please see FPL's response to Staff's First Data Request, No. 40. The same explanation applies to this measure.