ATTACHMENT F

Amended Revised Attachment F1
(December 2, 2011)

LIEE Cost-Effectiveness - Measures
Pacific Gas and Electric Company
Ratio of Benefits Over Costs

Weather Sensitive?	Measure	Utility Cost Test [1]	Modified Participant Test [1]	Total Resource Cost Test [1]	Pass/Fail	Measures included for health, comfort, and safety
Y	Air Slg/Envelope (Zone 13) MH	0.46	2.84	0.34	Pass	
Y	Air Slg/Envelope (Zone 12) MH	0.42	2.63	0.32	Pass	
Y	Air Slg/Envelope (Zone 16) MH	0.39	2.41	0.29	Pass	
Y	Air Slg/Envelope (Zone 13) SF	0.35	2.18	0.26	Pass	
Y	Air Slg/Envelope (Zone 12) SF	0.33	2.06	0.25	Pass	
Y	Air Slg/Envelope (Zone 16) SF	0.29	1.81	0.22	Pass	
Y	Air Slg/Envelope (Zone 1) MH	0.27	1.68	0.21	Pass	
Y	Air Slg/Envelope (Zone 4) MH	0.25	1.54	0.19	Pass	
N	Microwave	2.70	1.54	0.99	Pass	
N	Wtr Ht Conservation SF	1.24	1.52	0.71	Pass	
Y	Air Slg/Envelope (Zone 11) MH	0.23	1.41	0.17	Pass	
Y	Air Slg/Envelope (Zone 1) SF	0.20	1.27	0.16	Pass	
Y	Air Slg/Envelope (Zone 2) MH	0.20	1.27	0.16	Pass	
Y	Air Slg/Envelope (Zone 4) SF	0.20	1.27	0.16	Pass	
N	Wtr Ht Conservation MH	0.95	1.26	0.60	Pass	
Y	Air Slg/Envelope (Zone 11) SF	0.18	1.12	0.14	Pass	
N	Wtr Ht Conservation MF	0.72	1.01	0.48	Pass	
Y	Attic Insulation - Gas SH (Zone 1) SF	0.87	0.98	0.59	Pass	
Y	Air Slg/Envelope (Zone 2) SF	0.16	0.98	0.12	Pass	
N	TORCHIERE - 55 W (D03-842 RES00AVTor55) SF	1.03	0.97	0.62	Pass	
N	OCCUPANCY SENSOR D03-856 - WALL BOX (3 2-lamp	0.98	0.93	0.60	Pass	
Y	A/C Tune-up - Central (Zone 13) SF	0.87	0.85	0.64	Pass	
Y	Air Slg/Envelope (Zone 12) MF	0.13	0.82	0.10	Pass	
Y	Air Slg/Envelope (Zone 13) MF	0.13	0.82	0.10	Pass	
Y	Attic Insulation - Gas SH (Zone 16) SF	0.69	0.80	0.49	Pass	
Y	Attic Insulation - Gas SH (Zone 2) SF	0.69	0.79	0.49	Pass	
Y	A/C Tune-up - Central (Zone 11) SF	0.87	0.78	0.66	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 16) MH	0.82	0.77	0.56	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 16) SF	0.79	0.74	0.54	Pass	
Y	Attic Insulation - Gas SH (Zone 11) SF	0.63	0.72	0.45	Pass	
Y	Attic Insulation - Gas SH (Zone 3) SF	0.60	0.69	0.43	Pass	
N	Compact Fluorescents (inc. porchlights) SF MF MH	0.66	0.68	0.44	Pass	
Y	Attic Insulation - Gas SH (Zone 12) SF	0.58	0.68	0.42	Pass	
Y	A/C Tune-up - Central (Zone 13) MF	0.70	0.68	0.54	Pass	
Y	Air Slg/Envelope (Zone 16) MF	0.11	0.67	0.08	Pass	
N	Refrigerators MH	0.65	0.67	0.44	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 13) SF	0.69	0.66	0.48	Pass	
N	Refrigerators SF	0.63	0.65	0.43	Pass	
Y	Attic Insulation - Gas SH (Zone 4) SF	0.55	0.65	0.40	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 5) MH	0.68	0.64	0.48	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 11) SF	0.67	0.63	0.47	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 12) SF	0.67	0.63	0.47	Pass	
N	Interior Hard wired Compact Fluorescent fixtures SF/MF/M	0.61	0.63	0.41	Pass	
Y	A/C Tune-up - Central (Zone 13) MH	0.78	0.62	0.59	Pass	
Y	A/C Tune-up - Central (Zone 12) SF	0.69	0.62	0.55	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 5) SF	0.65	0.61	0.46	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 2) SF	0.64	0.61	0.46	Pass	
Y	Attic Insulation - Gas SH (Zone 13) SF	0.52	0.61	0.38	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 2) MH	0.63	0.60	0.45	Pass	
Y	A/C Tune-up - Central (Zone 11) MF	0.68	0.59	0.55	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 13) MH	0.60	0.57	0.43	Pass	
Y	A/C Tune-up - Central (Zone 11) MH	0.78	0.57	0.61	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 12) MH	0.58	0.56	0.42	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 3) SF	0.58	0.56	0.42	Pass	
N	Refrigerators MF	0.53	0.56	0.37	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 1) MH	0.57	0.54	0.41	Pass	
N	Clothes Washer Energy Star, 2.65 cf, Tier 1	0.51	0.54	0.36	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 11) MH	0.54	0.53	0.39	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 4) SF	0.55	0.53	0.40	Pass	
Y	Air Slg/Envelope (Zone 1) MF	0.08	0.51	0.06	Pass	
Y	Air Slg/Envelope (Zone 4) MF	0.08	0.51	0.06	Pass	
Y	Air Slg/Envelope (Zone 3) MH	0.08	0.51	0.06	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 1) SF	0.51	0.49	0.38	Pass	
Y	Evaporative Coolers (Zone 13) MH	0.44	0.48	0.34	Pass	
Y	A/C Tune-up - Central (Zone 12) MH	0.64	0.46	0.51	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 3) MH	0.48	0.46	0.35	Pass	
Y	A/C Tune-up - Central (Zone 16) SF	0.56	0.46	0.46	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 4) MH	0.42	0.40	0.31	Pass	
Y	Evaporative Coolers (Zone 13) SF	0.45	0.40	0.35	Pass	
Y	Evaporative Coolers (Zone 16) SF	0.48	0.39	0.37	Pass	

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(December 2, 2011)

LIEE Cost-Effectiveness - Measures						
Pacific Gas and Electric Company						
		Ratio of Benefits Over Costs				
Weather Sensitive?	Measure	Utility Cost Test [1]	Modified Participant Test [1]	Total Resource Cost Test [1]	Pass/Fail	Measures included for health, comfort, and safety
Y	A/C Tune-up - Central (Zone 12) MF	0.45	0.38	0.37	Pass	
Y	A/C Tune-up - Central (Zone 4) SF	0.42	0.38	0.34	Pass	
Y	Evaporative Coolers (Zone 16) MH	0.38	0.37	0.30	Pass	
Y	Attic Insulation - Gas SH (Zone 2) MF	0.31	0.37	0.24	Pass	
Y	Air Slg/Envelope (Zone 2) MF	0.06	0.34	0.04	Pass	
Y	Air Slg/Envelope (Zone 3) SF	0.06	0.34	0.04	Pass	
Y	Air Slg/Envelope (Zone 11) MF	0.06	0.34	0.04	Pass	
Y	A/C Tune-up - Central (Zone 16) MH	0.51	0.34	0.42	Pass	
Y	Attic Insulation - Gas SH (Zone 3) MF	0.29	0.34	0.22	Pass	
Y	Attic Insulation - Gas SH (Zone 4) MF	0.27	0.31	0.20	Pass	
Y	Attic Insulation - Gas SH (Zone 5) MF	0.27	0.31	0.20	Pass	
Y	Evaporative Coolers (Zone 11) MH	0.30	0.30	0.24	Pass	
Y	A/C Tune-up - Central (Zone 16) MF	0.38	0.29	0.32	Pass	
Y	Attic Insulation - Gas SH (Zone 12) MF	0.24	0.29	0.19	Pass	
Y	A/C Replacement - Room (Zone 13) SF	0.34	0.28	0.28	Pass	
Y	Evaporative Coolers (Zone 12) MH	0.28	0.28	0.22	Pass	
Y	Attic Insulation - Gas SH (Zone 13) MF	0.23	0.27	0.17	Pass	
N	Exterior Hard wired Compact Fluorescent fixtures SF MF	0.24	0.27	0.17	Pass	
Y	A/C Tune-up - Central (Zone 4) MH	0.36	0.26	0.30	Pass	
Y	A/C Tune-up - Central (Zone 2) SF	0.31	0.26	0.26	Pass	
Y	A/C Replacement - Room (Zone 13) MH	0.30	0.25	0.25	Pass	
Y	A/C Replacement - Central (Zone 13) MH	0.28	0.23	0.24	Pass	
Y	A/C Replacement - Central (Zone 13) SF	0.28	0.23	0.23	Pass	
Y	A/C Replacement - Central (Zone 13) MF	0.28	0.23	0.23	Pass	
Y	A/C Tune-up - Central (Zone 4) MF	0.26	0.22	0.22	Pass	
Y	A/C Replacement - Room (Zone 16) SF	0.31	0.22	0.27	Pass	
Y	Evaporative Coolers (Zone 12) SF	0.27	0.22	0.21	Pass	
Y	Evaporative Coolers (Zone 13) MF	0.21	0.22	0.16	Fail	
Y	A/C Tune-up - Central (Zone 2) MH	0.32	0.22	0.27	Pass	
Y	Duct Sealing - Gas SH & AC (Zone 13) MF	0.21	0.21	0.16	Fail	
Y	Evaporative Coolers (Zone 11) SF	0.25	0.20	0.20	Fail	*
Y	A/C Tune-up - Central (Zone 2) MF	0.23	0.19	0.20	Fail	
Y	Duct Sealing - Gas SH & AC (Zone 11) MF	0.19	0.18	0.14	Fail	
Y	Air Slg/Envelope (Zone 3) MF	0.03	0.17	0.02	Fail	
Y	A/C Replacement - Central (Zone 11) MH	0.23	0.16	0.20	Fail	
Y	A/C Replacement - Room (Zone 16) MH	0.24	0.16	0.21	Fail	
Y	A/C Replacement - Central (Zone 11) SF	0.23	0.16	0.20	Fail	
N	Water Heater Repair & Replacement - Gas SF/MF/MH	0.33	0.16	0.11	Pass	
Y	A/C Replacement - Central (Zone12) MH	0.21	0.15	0.18	Fail	
Y	A/C Replacement - Room (Zone 11) SF	0.21	0.15	0.18	Fail	*
Y	A/C Replacement - Central (Zone12) SF	0.20	0.14	0.17	Fail	
Y	A/C Replacement - Room (Zone 11) MH	0.20	0.14	0.17	Fail	*
Y	A/C Replacement - Central (Zone 11) MF	0.19	0.13	0.17	Fail	
Y	A/C Replacement - Room (Zone 12) SF	0.18	0.13	0.16	Fail	*
Y	A/C Replacement - Central (Zone 16) SF	0.19	0.13	0.17	Fail	
Y	A/C Replacement - Room (Zone 12) MH	0.18	0.13	0.15	Fail	*
Y	Duct Sealing - Gas SH & AC (Zone 12) MF	0.12	0.12	0.10	Fail	
Y	Evaporative Coolers (Zone 11) MF	0.15	0.12	0.13	Fail	
Y	Duct Sealing - Gas SH & AC (Zone 16) MF	0.12	0.12	0.09	Fail	
Y	A/C Tune-up - Central (Zone 3) SF	0.09	0.10	0.08	Fail	
Y	A/C Replacement - Central (Zone12) MF	0.12	0.09	0.11	Fail	
Y	A/C Replacement - Room (Zone 13) MF	0.11	0.09	0.09	Fail	*
Y	Htg Sys Repair/Replace - Gas SH (Zone 1) SF	0.15	0.09	0.06	Fail	*
Y	Duct Sealing - Gas SH & AC (Zone 2) MF	0.08	0.08	0.06	Fail	
Y	Duct Sealing - Gas SH & AC (Zone 4) MF	0.07	0.07	0.06	Fail	
Y	A/C Tune-up - Central (Zone 3) MH	0.09	0.07	0.07	Fail	
Y	A/C Tune-up - Central (Zone 5) SF	0.08	0.07	0.07	Fail	
Y	Htg Sys Repair/Replace - Gas SH (Zone 2) SF	0.11	0.06	0.04	Fail	*
Y	A/C Replacement - Central (Zone 2) MH	0.08	0.06	0.07	Fail	
Y	A/C Replacement - Central (Zone 2) SF	0.08	0.06	0.07	Fail	
Y	Htg Sys Repair/Replace - Gas SH (Zone 11) SF	0.09	0.06	0.04	Fail	*
Y	Htg Sys Repair/Replace - Gas SH (Zone 3) SF	0.09	0.05	0.03	Fail	*
Y	Htg Sys Repair/Replace - Gas SH (Zone 16) SF	0.09	0.05	0.03	Fail	*
Y	A/C Replacement - Room (Zone 11) MF	0.07	0.05	0.07	Fail	*
Y	Evaporative Coolers (Zone 2) MH	0.05	0.05	0.04	Fail	
Y	Duct Sealing - Gas SH & AC (Zone 3) MF	0.05	0.05	0.04	Fail	
Y	A/C Tune-up - Central (Zone 3) MF	0.05	0.05	0.04	Fail	
Y	Htg Sys Repair/Replace - Gas SH (Zone 12) SF	0.08	0.05	0.03	Fail	*

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LIEE Cost-Effectiveness - Measures
Pacific Gas and Electric Company

		Ratio of Benefits Over Costs				
Weather Sensitive?	Measure	Utility Cost Test [1]	Modified Participant Test [1]	Total Resource Cost Test [1]	Pass/Fail	Measures included for health, comfort, and safety
Y	Duct Sealing - Gas SH & AC (Zone 5) MF	0.05	0.05	0.04	Fail	
Y	Htg Sys Repair/Replace - Gas SH (Zone 4) SF	0.08	0.05	0.03	Fail	*
Y	A/C Tune-up - Central (Zone 5) MH	0.07	0.05	0.06	Fail	
Y	Htg Sys Repair/Replace - Gas SH (Zone 13) SF	0.07	0.04	0.03	Fail	*
Y	A/C Replacement - Central (Zone 2) MF	0.06	0.04	0.05	Fail	
Y	A/C Tune-up - Central (Zone 1) SF	0.05	0.04	0.05	Fail	
Y	A/C Replacement - Central (Zone 4) MF	0.05	0.03	0.04	Fail	
Y	Duct Sealing - Gas SH & AC (Zone 1) MF	0.03	0.03	0.03	Fail	
Y	A/C Tune-up - Central (Zone 1) MH	0.05	0.03	0.05	Fail	
Y	A/C Replacement - Room (Zone 12) MF	0.05	0.03	0.04	Fail	*
Y	A/C Tune-up - Central (Zone 5) MF	0.04	0.03	0.03	Fail	
Y	A/C Replacement - Central (Zone 4) MH	0.04	0.03	0.03	Fail	
Y	A/C Replacement - Central (Zone 4) SF	0.04	0.03	0.03	Fail	
Y	A/C Tune-up - Central (Zone 1) MF	0.03	0.02	0.03	Fail	
Y	A/C Replacement - Central (Zone 3) MH	0.01	0.01	0.01	Fail	
Y	A/C Replacement - Central (Zone 3) SF	0.01	0.01	0.01	Fail	
Y	A/C Replacement - Central (Zone 3) MF	0.01	0.01	0.01	Fail	

1) The Utility Cost Test (UCT) and Modified Participant Cost Test (PC_m) both include NEBs and were adopted for LIEE in D.02-08-034. The TRC is included for information purposes only, as specified in the ACR Providing Guidance for LIEE 2009-2011 Budget Applications, dated 4/01/08. Cost Benefit tests are described in this 2009-2011 LIEE testimony, Section IV.A.

*These items fall below the 0.25 threshold but are added back into the program for health comfort and safety reasons.

Amended Revised Attachment F2
(December 2, 2011)

LIEE Cost-Effectiveness - Measures							
SDG&E							
Ratio of Benefits Over Costs							
Weather Sensitive?	Type	Measure*	Utility Cost Test	Modified Participant Test	Total Resource Cost Test	Pass/Fail	Measures included for health, comfort, and safety
Y	Mobile Home Electric	Air sealing, MH, elec, cz14	0.48	2.85	0.40	Pass	
Y	Mobile Home Electric	Air sealing, MH, elec, cz10	0.42	2.52	0.35	Pass	
Y	Single Family Electric	Air sealing, SF, elec, cz14	0.35	2.16	0.30	Pass	
Y	Single Family Electric	Air sealing, SF, elec, cz10	0.34	2.07	0.28	Pass	
Y	Mobile Home Gas	Air sealing, MH, gas, cz10	0.43	1.92	0.36	Pass	
Y	Mobile Home Gas	Air sealing, MH, gas, cz14	0.43	1.90	0.35	Pass	
N	All housing types, Electric	Showerstart elec	1.12	1.64	0.93	Pass	
N	Single Family Electric	DHW conservation, SF, elec	1.11	1.61	0.92	Pass	
Y	Single Family Gas	Air sealing, SF, gas, cz10	0.35	1.53	0.29	Pass	
N	Mobile Home Electric	DHW conservation, MH, elec	1.04	1.52	0.87	Pass	
Y	Mobile Home Gas	Air sealing, MH, gas, cz7	0.34	1.49	0.28	Pass	
Y	Single Family Gas	Air sealing, SF, gas, cz14	0.33	1.44	0.27	Pass	
N	Multi-Family Electric	DHW conservation, MF, elec	0.96	1.39	0.80	Pass	
N	All housing types, Electric	Microwaves	1.13	1.32	0.94	Pass	
N	Single Family Gas	DHW conservation, SF, gas	0.92	1.32	0.77	Pass	
N	All housing types, Gas	Showerstart gas	0.90	1.29	0.74	Pass	
Y	Mobile Home Gas	Air sealing, MH, gas, cz15	0.29	1.26	0.24	Pass	
Y	Single Family Electric	Air sealing, SF, elec, cz7	0.20	1.23	0.17	Pass	
Y	Single Family Gas	Air sealing, SF, gas, cz7	0.27	1.18	0.23	Pass	
N	All housing types, Electric	Nightlights	0.97	1.18	0.80	Pass	
Y	Mobile Home Gas	Furnace clean and tune, MH, cz14	0.75	1.17	0.62	Pass	
Y	Single Family Electric	Air sealing, SF, elec, cz15	0.19	1.16	0.16	Pass	
N	All housing types, Gas	Gas furnace pilot conversion	0.68	1.16	0.56	Pass	
N	Mobile Home Gas	DHW conservation, MH, gas	0.82	1.16	0.68	Pass	
Y	Single Family Gas	Air sealing, SF, gas, cz15	0.23	0.99	0.19	Pass	
N	Multi-Family Gas	DHW conservation, MF, gas	0.69	0.99	0.58	Pass	
Y	Mobile Home Gas	Furnace clean and tune, MH, cz10	0.61	0.98	0.51	Pass	
N	All housing types, Electric	Torchieres	0.77	0.94	0.64	Pass	
Y	Single Family Electric	AC Tuneup,SF,elec, cz10	1.08	0.93	0.89	Pass	
Y	Multi-Family Electric	Air sealing, MF, elec, cz10	0.15	0.91	0.12	Pass	
N	Mobile Home Electric	Refrigerators,MH	0.66	0.91	0.55	Pass	
N	Single Family Electric	Refrigerators, SF	0.65	0.89	0.54	Pass	
Y	Mobile Home Gas	Furnace clean and tune, MH, cz7	0.55	0.87	0.45	Pass	
N	All housing types, Electric	Clothes washer, elec	0.60	0.86	0.50	Pass	
Y	Mobile Home Electric	AC Tuneup,MH,elec, cz10	1.01	0.84	0.84	Pass	
Y	Single Family Gas	Furnace clean and tune, SF, cz14	0.52	0.83	0.44	Pass	
N	All housing types, Electric	CFL Lighting	0.68	0.83	0.56	Pass	
Y	Multi-Family Electric	AC Tuneup,MF,elec, cz10	0.99	0.82	0.83	Pass	
N	All housing types, Electric	Interior Hardwire CFL Fixtures	0.63	0.78	0.52	Pass	
N	Multi-Family Electric	Refrigerators,MF	0.56	0.77	0.47	Pass	
Y	Mobile Home Gas	Furnace clean and tune, MH, cz15	0.43	0.64	0.36	Pass	
Y	Single Family Gas	Furnace clean and tune, SF, cz15	0.41	0.63	0.34	Pass	
Y	Multi-Family Gas	Air sealing, MF, gas, cz10	0.15	0.63	0.12	Pass	
N	All housing types, Gas	Clothes washer, gas	0.44	0.62	0.36	Pass	
Y	Single Family Gas	Furnace clean and tune, SF, cz10	0.39	0.61	0.33	Pass	
Y	Single Family Gas	Duct sealing & testing, gas, SF, cz10	0.69	0.61	0.57	Pass	
Y	Mobile Home Gas	Duct sealing & testing, gas, MH, cz10	0.65	0.60	0.54	Pass	
Y	Single Family Gas	Attic insulation, SF, gas, cz10	0.47	0.57	0.39	Pass	
Y	Single Family Gas	Furnace clean and tune, SF, cz7	0.35	0.54	0.29	Pass	
Y	Single Family Gas	Attic insulation, SF, gas, cz7	0.44	0.54	0.37	Pass	
Y	Single Family Electric	Duct sealing & testing, elec, SF, cz10	0.79	0.53	0.66	Pass	
Y	Mobile Home Electric	Duct sealing & testing, elec, MH, cz10	0.77	0.52	0.64	Pass	
Y	Multi-Family Electric	Air sealing, MF, elec, cz7	0.08	0.49	0.07	Pass	
Y	Mobile Home Electric	AC Tuneup,MH,elec, cz7	0.66	0.46	0.55	Pass	
Y	Multi-Family Gas	Air sealing, MF, gas, cz7	0.11	0.45	0.09	Pass	
Y	Single Family Electric	AC Tuneup,SF,elec, cz7	0.63	0.44	0.52	Pass	
Y	Mobile Home Gas	Duct sealing & testing, gas, MH, cz7	0.35	0.39	0.29	Pass	
Y	Single Family Gas	Duct sealing & testing, gas, SF, cz7	0.32	0.35	0.26	Pass	
Y	Multi-Family Electric	AC Tuneup,MF,elec, cz7	0.50	0.33	0.41	Pass	
Y	Multi-Family Gas	Attic insulation, MF, gas, cz10	0.26	0.31	0.22	Pass	
Y	Single Family Electric	Attic insulation, SF, elec, cz7	0.18	0.27	0.15	Pass	
Y	Single Family Electric	Duct sealing & testing, elec, SF, cz7	0.43	0.26	0.36	Pass	
Y	Mobile Home Electric	Duct sealing & testing, elec, MH, cz7	0.43	0.26	0.36	Pass	
Y	Multi-Family Gas	Attic insulation, MF, gas, cz7	0.21	0.25	0.17	Fail	
Y	Single Family Electric	Central AC, SF, cz10	0.24	0.24	0.20	Fail	
Y	Mobile Home Electric	Central AC, MH, cz10	0.21	0.21	0.17	Fail	
Y	Single Family Electric	Evap cooler,SF,elec, cz10	0.32	0.20	0.26	Pass	
Y	Mobile Home Electric	Evap cooler,MH,elec, cz10	0.31	0.19	0.26	Pass	
N	All housing types, Gas	Water heater repair/replace, gas	0.12	0.14	0.10	Fail	*
Y	Single Family Electric	Room AC, SF, cz10	0.23	0.14	0.19	Fail	*
Y	Mobile Home Electric	Room AC, MH, cz10	0.19	0.12	0.16	Fail	*
Y	Single Family Electric	Attic insulation, SF, elec, cz10	0.08	0.06	0.07	Fail	
Y	Multi-Family Electric	Room AC, MF, cz10	0.08	0.04	0.06	Fail	*
Y	Mobile Home Gas	Gas furnace repair/replace,gas,MH, cz10	0.03	0.04	0.02	Fail	*
Y	Mobile Home Gas	Gas furnace repair/replace,gas,MH, cz7	0.02	0.03	0.02	Fail	*
Y	Single Family Gas	Gas furnace repair/replace,gas,SF, cz7	0.01	0.02	0.01	Fail	*
Y	Single Family Gas	Gas furnace repair/replace,gas,SF, cz10	0.02	0.02	0.01	Fail	*
Y	Mobile Home Electric	Air sealing, MH, elec, cz7	0.00	0.00	0.00	Fail	
Y	Single Family Gas	Gas furnace repair/replace,gas,SF, cz15	0.00	0.00	0.00	Fail	*
Ommited Measures to be Added							
Y	Single Family Electric	AC Tune-up, cz 15	1.22	1.38		Pass	
	Mobile Home Electric	AC Tune-up, cz 15	1.23	1.40		Pass	
	Multi-Family Electric	AC Tune-up, cz 15	1.21	1.36		Pass	
	Single Family Electric	AC Tune-up, cz 14	1.16	1.26		Pass	
	Mobile Home Electric	AC Tune-up, cz 14	1.16	1.25		Pass	
	Multi-Family Electric	AC Tune-up, cz 14	1.05	1.05		Pass	
	Single Family Electric	AC Tune-up, cz 6	0.62	0.72		Pass	
	Mobile Home Electric	AC Tune-up, cz 6	0.60	0.46		Pass	

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	Multi-Family Electric	AC Tune-up, cz 6	0.45	0.33		Pass	
	Single Family Electric	AC Tune-up, cz 8	0.62	0.72		Pass	
	Mobile Home Electric	AC Tune-up, cz 8	0.60	0.46		Pass	
	Multi-Family Electric	AC Tune-up, cz 8	0.45	0.33		Pass	
	Single Family Electric	Air sealing / envelope, cz 6	0.21	0.91		Pass	
	Multi-Family Electric	Air sealing / envelope, cz 6	0.08	0.36		Pass	
	Single Family Electric	Air sealing / envelope, cz 8	0.21	0.91		Pass	
	Multi-Family Electric	Air sealing / envelope, cz 8	0.08	0.36		Pass	
	Multi-Family Gas	Air sealing / envelope, cz 14	0.13	0.44		Pass	
	Mobile Home Electric	Air sealing / envelope, cz 15	0.26	1.14		Pass	
	Multi-Family Gas	Air sealing / envelope, cz 15	0.13	0.44		Pass	
	Single Family Gas	Air sealing / envelope, cz 14	0.67	0.85		Pass	
	Multi-Family Gas	Attic Insulation, cz 14	0.36	0.46		Pass	
	Single Family Electric	Attic Insulation, cz 14	0.41	0.53		Pass	
	Single Family Gas	Attic Insulation, cz 15	0.61	0.77		Pass	
	Multi-Family Gas	Attic Insulation, cz 15	0.26	0.33		Pass	
	Single Family Electric	Attic Insulation, cz 15	0.41	0.53		Pass	
	Single Family Electric	Attic Insulation, cz 6	0.19	0.27		Pass	
	Single Family Electric	Attic Insulation, cz 8	0.19	0.27		Pass	
	Single Family Gas	Duct Sealing & Testing, cz 14	0.59	0.67		Pass	
	Mobile Home Gas	Duct Sealing & Testing, cz 14	0.59	0.67		Pass	
	Mobile Home Electric	Duct Sealing & Testing, cz 14	0.54	0.64		Pass	
	Single Family Electric	Duct Sealing & Testing, cz 14	0.53	0.63		Pass	
	Single Family Gas	Duct Sealing & Testing, cz 15	0.57	0.58		Pass	
	Mobile Home Gas	Duct Sealing & Testing, cz 15	0.60	0.63		Pass	
	Single Family Electric	Duct Sealing & Testing, cz 15	0.57	0.60		Pass	
	Mobile Home Electric	Duct Sealing & Testing, cz 15	0.58	0.60		Pass	
	Single Family electric	Duct Sealing & Testing, cz 8	0.31	0.38		Pass	
	Mobile Home electric	Duct Sealing & Testing, cz 8	0.25	0.30		Pass	
	Single Family electric	Central AC, cz 15	0.64	0.55		Pass	
	Mobile Home electric	Central AC, cz 15	0.65	0.56		Pass	
	Multi-Family electric	Central AC, cz 15	0.44	0.33		Pass	
	Single Family electric	Central AC, cz 14	0.53	0.44		Pass	
	Mobile Home electric	Central AC, cz 14	0.52	0.43		Pass	
	Multi-Family electric	Central AC, cz 14	0.27	0.18		Pass	
	Single Family gas	Gas Furnace Repair/Replacement, CZ 14	0.03	0.03		Fail	*
	Mobile Home gas	Gas Furnace Repair/Replacement, CZ 14	0.05	0.05		Fail	*
	Multi-Family gas	Gas Furnace Repair/Replacement, CZ 14	0.00	0.00		Fail	*
	Mobile Home gas	Gas Furnace Repair/Replacement, CZ 15	0.02	0.02		Fail	*
	Multi-Family gas	Gas Furnace Repair/Replacement, CZ 15	0.00	0.00		Fail	*
	Multi-Family gas	Gas Furnace Repair/Replacement, CZ 10	0.00	0.00		Fail	*
	Multi-Family gas	Gas Furnace Repair/Replacement, CZ 7	0.00	0.00		Fail	*
	ALL Gas	Tankless Water Heater, All	0.10	0.16		Fail	*
	ALL Electric	Water Heater Repair/Replacement, All	0.22	0.26		Pass	
*These items fall below the 0.25 threshold but are added back into the program for health comfort and safety reasons.							

Amended Revised Attachment F3
(December 2, 2011)

LIEE Cost-Effectiveness - Measures							
SoCalGas							
			Ratio of Benefits Over Costs				
Weather Sensitive?	Type	Measure*	Utility Cost Test	Modified Participant Test	Total Resource Cost Test	Pass/Fail	Measures included for health, comfort, and safety
Y	Mobile Home Gas	Air sealing / envelope, MH, cz13	0.54	2.33	0.42	Pass	
Y	Mobile Home Gas	Air sealing / envelope, MH, cz16	0.48	2.08	0.37	Pass	
Y	Single Family Gas	Air sealing / envelope, SF, cz13	0.46	1.99	0.36	Pass	
Y	Single Family Gas	Air sealing / envelope, SF, cz16	0.41	1.75	0.32	Pass	
Y	Mobile Home Gas	Air sealing / envelope, MH, cz4	0.37	1.57	0.29	Pass	
N	Single Family Gas	DHW Conservation, SF, gas	0.78	1.55	0.61	Pass	
Y	Mobile Home Gas	Air sealing / envelope, MH, cz10	0.33	1.41	0.26	Pass	
N	Mobile Home Gas	DHW conservation, MH, gas	0.71	1.41	0.55	Pass	
Y	Mobile Home Gas	Air sealing / envelope, MH, cz8	0.31	1.32	0.24	Pass	
Y	Mobile Home Gas	Air sealing / envelope, MH, cz14	0.31	1.32	0.24	Pass	
Y	Single Family Gas	Air sealing / envelope, SF, cz4	0.30	1.28	0.24	Pass	
Y	Mobile Home Gas	Air sealing / envelope, MH, cz5	0.28	1.16	0.21	Pass	
N	Multi-Family Gas	DHW Conservation, MF, gas	0.58	1.15	0.45	Pass	
N	All housing types, Gas	Forced Air Unit Furnace pilot conversion	0.71	1.15	0.55	Pass	
Y	Single Family Gas	Air sealing / envelope, SF, cz10	0.27	1.13	0.21	Pass	
Y	Multi-Family Gas	Air sealing / envelope, MF, cz13	0.27	1.12	0.21	Pass	
Y	Single Family Gas	Air sealing / envelope, SF, cz14	0.25	1.07	0.20	Pass	
Y	Single Family Gas	Air sealing / envelope, SF, cz8	0.25	1.05	0.19	Pass	
Y	Mobile Home Gas	Furnace Clean & Tune, MH, cz13	0.63	1.03	0.49	Pass	
Y	Mobile Home Gas	Furnace Clean & Tune, MH, cz14	0.62	1.00	0.48	Pass	
Y	Mobile Home Gas	Furnace Clean & Tune, MH, cz10	0.59	0.95	0.46	Pass	
Y	Mobile Home Gas	Air sealing / envelope, MH, cz9	0.23	0.95	0.18	Pass	
Y	Multi-Family Gas	Air sealing / envelope, MF, cz16	0.23	0.94	0.17	Pass	
Y	Mobile Home Gas	Air sealing / envelope, MH, cz15	0.23	0.94	0.17	Pass	
Y	Mobile Home Gas	Furnace Clean & Tune, MH, cz16	0.58	0.94	0.45	Pass	
Y	Single Family Gas	Air sealing / envelope, SF, cz5	0.22	0.92	0.17	Pass	
N	All housing types, Gas	Clothes washer	0.44	0.89	0.34	Pass	
Y	Single Family Gas	Attic insulation, SF, cz14	0.56	0.86	0.44	Pass	
Y	Single Family Gas	Attic insulation, SF, cz15	0.56	0.86	0.44	Pass	
Y	Single Family Gas	Attic insulation, SF, cz13	0.56	0.85	0.44	Pass	
Y	Mobile Home Gas	Furnace Clean & Tune, MH, cz9	0.51	0.83	0.40	Pass	
Y	Mobile Home Gas	Furnace Clean & Tune, MH, cz5	0.51	0.81	0.39	Pass	
Y	Mobile Home Gas	Furnace Clean & Tune, MH, cz6	0.51	0.81	0.39	Pass	
Y	Mobile Home Gas	Furnace Clean & Tune, MH, cz8	0.50	0.80	0.39	Pass	
Y	Single Family Gas	Attic insulation, SF, cz16	0.53	0.80	0.41	Pass	
Y	Single Family Gas	Furnace Clean & Tune, SF, cz13	0.48	0.77	0.37	Pass	
Y	Single Family Gas	Furnace Clean & Tune, SF, cz14	0.47	0.76	0.37	Pass	
Y	Single Family Gas	Furnace Clean & Tune, SF, cz5	0.47	0.76	0.37	Pass	
Y	Single Family Gas	Air sealing / envelope, SF, cz9	0.18	0.75	0.14	Pass,	
Y	Single Family Gas	Air sealing / envelope, SF, cz15	0.18	0.74	0.14	Pass	
Y	Single Family Gas	Attic insulation, SF, cz10	0.48	0.73	0.37	Pass	
Y	Single Family Gas	Furnace Clean & Tune, SF, cz10	0.45	0.72	0.35	Pass	
Y	Single Family Gas	Attic insulation, SF, cz5	0.46	0.70	0.36	Pass	
Y	Single Family Gas	Duct sealing & testing,SF,gas, cz16	0.46	0.70	0.36	Pass	
Y	Single Family Gas	Furnace Clean & Tune, SF, cz16	0.43	0.69	0.34	Pass	
Y	Single Family Gas	Attic insulation, SF, cz6	0.44	0.67	0.34	Pass	
Y	Single Family Gas	Attic insulation, SF, cz9	0.44	0.67	0.34	Pass	
Y	Mobile Home Gas	Duct sealing & testing,MH,gas, cz5	0.44	0.66	0.34	Pass	
Y	Single Family Gas	Attic insulation, SF, cz8	0.42	0.65	0.33	Pass	
Y	Mobile Home Gas	Furnace Clean & Tune, MH, cz15	0.41	0.64	0.31	Pass	
Y	Single Family Gas	Duct sealing & testing,SF,gas, cz5	0.42	0.64	0.32	Pass	
Y	Multi-Family Gas	Air sealing / envelope, MF, cz4	0.15	0.64	0.12	Pass	
Y	Single Family Gas	Furnace Clean & Tune, SF, cz6	0.36	0.57	0.28	Pass	
Y	Single Family Gas	Furnace Clean & Tune, SF, cz8	0.36	0.57	0.28	Pass	
Y	Single Family Gas	Furnace Clean & Tune, SF, cz9	0.36	0.57	0.28	Pass	
Y	Multi-Family Gas	Air sealing / envelope, MF, cz10	0.13	0.56	0.10	Pass	
Y	Mobile Home Gas	Air sealing / envelope, MH, cz6	0.13	0.53	0.10	Pass	
Y	Single Family Gas	Duct sealing & testing,SF,gas, cz10	0.34	0.52	0.26	Pass	
Y	Single Family Gas	Duct sealing & testing,SF,gas, cz13	0.34	0.52	0.26	Pass	
Y	Mobile Home Gas	Duct sealing & testing,MH,gas, cz14	0.34	0.52	0.26	Pass	
Y	Single Family Gas	Duct sealing & testing,SF,gas, cz4	0.33	0.51	0.26	Pass	
Y	Single Family Gas	Duct sealing & testing,SF,gas, cz14	0.33	0.51	0.26	Pass	
Y	Multi-Family Gas	Air sealing / envelope, MF, cz8	0.12	0.51	0.10	Pass	
Y	Multi-Family Gas	Air sealing / envelope, MF, cz14	0.12	0.51	0.10	Pass	
Y	Multi-Family Gas	Attic insulation, MF, cz5	0.32	0.49	0.25	Pass	
Y	Multi-Family Gas	Attic insulation, MF, cz13	0.32	0.49	0.25	Pass	
Y	Multi-Family Gas	Air sealing / envelope, MF, cz5	0.11	0.45	0.08	Pass	
Y	Mobile Home Gas	Duct sealing & testing,MH,gas, cz9	0.29	0.45	0.23	Pass	
Y	Single Family Gas	Furnace Clean & Tune, SF, cz15	0.28	0.43	0.21	Pass	
Y	Single Family Gas	Duct sealing & testing,SF,gas, cz9	0.28	0.43	0.22	Pass	
Y	Single Family Gas	Duct sealing & testing,SF,gas, cz6	0.27	0.42	0.21	Pass	
Y	Mobile Home Gas	Duct sealing & testing,MH,gas, cz8	0.27	0.41	0.21	Pass	
Y	Single Family Gas	Air sealing / envelope, SF, cz6	0.10	0.40	0.08	Pass	
Y	Single Family Gas	Duct sealing & testing,SF,gas, cz8	0.25	0.39	0.20	Pass	
Y	Multi-Family Gas	Attic insulation, MF, cz10	0.25	0.38	0.19	Pass	
Y	Mobile Home Gas	Duct sealing & testing,MH,gas, cz4	0.25	0.38	0.19	Pass	
Y	Multi-Family Gas	Air sealing / envelope, MF, cz9	0.09	0.36	0.07	Pass	
Y	Multi-Family Gas	Attic insulation, MF, cz6	0.22	0.33	0.17	Pass	
Y	Multi-Family Gas	Attic insulation, MF, cz8	0.20	0.32	0.16	Pass	
Y	Single Family Gas	Duct sealing & testing,SF,gas, cz15	0.20	0.31	0.15	Pass	
Y	Multi-Family Gas	Attic insulation, MF, cz9	0.20	0.31	0.15	Pass	
N	All housing types, Gas	Tankless water heater	0.13	0.26	0.10	Pass	
Y	Multi-Family Gas	Air sealing / envelope, MF, cz6	0.05	0.19	0.04	Fail	
Y	Mobile Home Gas	Heating system repair / replace, MH, cz13	0.08	0.13	0.06	Fail	*
N	Single Family Gas	DHW repair/replace, SF, gas	0.06	0.12	0.05	Fail	*
N	Mobile Home Gas	DHW repair/replace, MH, gas	0.06	0.12	0.05	Fail	*
Y	Mobile Home Gas	Heating system repair / replace, MH, cz14	0.08	0.12	0.06	Fail	*
Y	Mobile Home Gas	Heating system repair / replace, MH, cz10	0.07	0.10	0.05	Fail	*
Y	Mobile Home Gas	Heating system repair / replace, MH, cz16	0.07	0.10	0.05	Fail	*
Y	Mobile Home Gas	Heating system repair / replace, MH, cz9	0.05	0.08	0.04	Fail	*
Y	Mobile Home Gas	Heating system repair / replace, MH, cz5	0.05	0.08	0.04	Fail	*

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(December 2, 2011)

LIEE Cost-Effectiveness - Measures

SoCalGas

Ratio of Benefits Over Costs

Weather Sensitive?	Type	Measure*	Utility Cost Test	Modified Participant Test	Total Resource Cost Test	Pass/Fail	Measures included for health, comfort, and safety
Y	Mobile Home Gas	Heating system repair / replace, MH, cz6	0.05	0.08	0.04	Fail	*
Y	Mobile Home Gas	Heating system repair / replace, MH, cz8	0.05	0.07	0.04	Fail	*
Y	Single Family Gas	Heating system repair / replace, SF, cz5	0.04	0.07	0.03	Fail	*
Y	Single Family Gas	Heating system repair / replace, SF, cz13	0.05	0.07	0.04	Fail	*
Y	Single Family Gas	Heating system repair / replace, SF, cz14	0.04	0.07	0.03	Fail	*
Y	Single Family Gas	Heating system repair / replace, SF, cz10	0.04	0.06	0.03	Fail	*
Y	Single Family Gas	Heating system repair / replace, SF, cz16	0.04	0.06	0.03	Fail	*
Y	Mobile Home Gas	Heating system repair / replace, MH, cz15	0.03	0.05	0.03	Fail	*
Y	Single Family Gas	Heating system repair / replace, SF, cz6	0.03	0.04	0.02	Fail	*
Y	Single Family Gas	Heating system repair / replace, SF, cz8	0.03	0.04	0.02	Fail	*
Y	Single Family Gas	Heating system repair / replace, SF, cz9	0.03	0.04	0.02	Fail	*
Y	Multi-Family Gas	Duct sealing & testing,MF,gas, cz9	0.02	0.03	0.01	Fail	
Y	Single Family Gas	Heating system repair / replace, SF, cz15	0.02	0.03	0.01	Fail	*
		Ommited Measures to be Added					
	Mobile Home	Air sealing / envelope, cz 7	0.25	1.11		Pass	
	Single Family	Air sealing / envelope, cz 7	0.20	0.88		Pass	
	Multi-Family	Air sealing / envelope, cz 7	0.09	0.40		Pass	
	Multi-Family	Air sealing / envelope, cz 15	0.08	0.33		Pass	
	Single Family	Attic insulation, cz 4	0.00	0.75		Pass	
	Multi-Family	Attic insulation, cz 4	0.00	0.35		Pass	
	Single Family	Attic insulation, cz 7	0.42	0.64		Pass	
	Multi-Family	Attic insulation, cz 7	0.21	0.32		Pass	
	Multi-Family	Attic insulation, cz 14	0.34	0.53		Pass	
	Multi-Family	Attic insulation, cz 15	0.34	0.53		Pass	
	Multi-Family	Attic insulation, cz 16	0.26	0.40		Pass	
	Multi-Family	DHW repair/replace, All	0.27	0.12		Pass	
	Mobile Home	Duct sealing & testing, cz 10	0.34	0.51		Pass	
	Mobile Home	Duct sealing & testing, cz 13	0.29	0.45		Pass	
	Mobile Home	Duct sealing & testing, cz 15	0.23	0.36		Pass	
	Mobile Home	Duct sealing & testing, cz 16	0.48	0.73		Pass	
	Mobile Home	Duct sealing & testing, cz 6	0.22	0.34		Pass	
	Mobile Home	Duct sealing & testing, cz 7	0.25	0.38		Pass	
	Single Family	Duct sealing & testing, cz 7	0.22	0.34		Pass	
	Mobile Home	Heating system repair / replace, cz 4	0.09	0.13		Fail	*
	Single Family	Heating system repair / replace, cz 4	0.05	0.07		Fail	*
	Multi-Family	Heating system repair / replace, cz 4	0.00	0.00		Fail	*
	Multi-Family	Heating system repair / replace, cz 5	0.00	0.00		Fail	*
	Multi-Family	Heating system repair / replace, cz 6	0.00	0.00		Fail	*
	Single Family	Heating system repair / replace, cz 7	0.03	0.04		Fail	*
	Mobile Home	Heating system repair / replace, cz 7	0.05	0.07		Fail	*
	Multi-Family	Heating system repair / replace, cz 7	0.00	0.00		Fail	*
	Multi-Family	Heating system repair / replace, cz 8	0.00	0.00		Fail	*
	Multi-Family	Heating system repair / replace, cz 9	0.00	0.00		Fail	*
	Multi-Family	Heating system repair / replace, cz 10	0.00	0.00		Fail	*
	Multi-Family	Heating system repair / replace, cz 13	0.00	0.00		Fail	*
	Multi-Family	Heating system repair / replace, cz 14	0.00	0.00		Fail	*
	Multi-Family	Heating system repair / replace, cz 15	0.00	0.00		Fail	*
	Multi-Family	Heating system repair / replace, cz 16	0.00	0.00		Fail	*
	Mobile Home	Furnace Clean and tune up, cz 7	0.50	0.78		Pass	
	Single Family	Furnace Clean and tune up, cz 7	0.38	0.57		Pass	

*These items fall below the 0.25 threshold but are added back into the program for health comfort and safety reasons.

Amended Revised Attachment F4
(December 2, 2011)

LIEE Cost-Effectiveness - Measures
SCE

Weather Sensitive?	Type	Measure	Climate Zone	Ratio of Benefits Over Costs: Utility Cost Test 2009	Utility Cost Test 2010	Utility Cost Test 2011	Modified Participant Test 2009	Modified Participant Test 2010	Modified Participant Test 2011	Total Resource Cost Test 2009	Total Resource Cost Test 2010	Total Resource Cost Test 2011	PASS/FAIL 2009	PASS/FAIL 2010	PASS/FAIL 2011	Measures Included for health, comfort, and safety
N	Single Family, Electric	Water Heater Conservation		1.57	1.55	1.55	2.28	2.40	2.56	1.22	1.18	1.15	Pass	Pass	Pass	
N	Mobile Home, Electric	Water Heater Conservation		1.33	1.32	1.32	1.92	2.04	2.19	1.03	1.00	0.98	Pass	Pass	Pass	
N	Multifamily, Electric	Fixtures (Exterior Pin-based CFLs)		1.50	1.48	1.49	1.78	1.88	2.02	1.13	1.10	1.07	Pass	Pass	Pass	
N	Mobile Home, Electric	Fixtures (Exterior Pin-based CFLs)		1.50	1.48	1.49	1.78	1.88	2.02	1.13	1.10	1.07	Pass	Pass	Pass	
N	Single Family, Electric	Fixtures (Exterior Pin-based CFLs)		1.50	1.48	1.49	1.78	1.88	2.02	1.13	1.10	1.07	Pass	Pass	Pass	
Y	Mobile Home, Electric	Central Air Conditioner Service	Climate Zone 15	2.06	1.98	1.95	1.74	1.82	1.95	1.71	1.61	1.55	Pass	Pass	Pass	
N	Multifamily, Electric	Torchieres		1.55	1.52	1.52	1.74	1.85	1.98	1.19	1.15	1.12	Pass	Pass	Pass	
N	Single Family, Electric	Torchieres		1.55	1.52	1.52	1.74	1.85	1.98	1.19	1.15	1.12	Pass	Pass	Pass	
N	Mobile Home, Electric	Torchieres		1.55	1.52	1.52	1.74	1.85	1.98	1.19	1.15	1.12	Pass	Pass	Pass	
Y	Single Family, Electric	Central Air Conditioner Service	Climate Zone 15	1.87	1.80	1.78	1.60	1.69	1.81	1.54	1.46	1.41	Pass	Pass	Pass	
N	Multifamily, Electric	Water Heater Conservation		1.08	1.08	1.09	1.56	1.67	1.80	0.84	0.82	0.81	Pass	Pass	Pass	
N	Multifamily, Electric	CFLs (Screw-In)		1.40	1.38	1.38	1.51	1.61	1.73	1.09	1.05	1.03	Pass	Pass	Pass	
N	Mobile Home, Electric	CFLs (Screw-In)		1.40	1.38	1.38	1.51	1.61	1.73	1.09	1.05	1.03	Pass	Pass	Pass	
N	Single Family, Electric	CFLs (Screw-In)		1.40	1.38	1.38	1.51	1.61	1.73	1.09	1.05	1.03	Pass	Pass	Pass	
Y	Mobile Home, Electric	Central Air Conditioner Service	Climate Zone 14	1.83	1.76	1.73	1.33	1.40	1.50	1.56	1.48	1.43	Pass	Pass	Pass	
Y	Single Family, Electric	Central Air Conditioner Service	Climate Zone 13	1.76	1.70	1.68	1.32	1.39	1.49	1.48	1.42	1.37	Pass	Pass	Pass	
Y	Single Family, Electric	Central Air Conditioner Service	Climate Zone 14	1.61	1.56	1.54	1.23	1.30	1.40	1.36	1.29	1.26	Pass	Pass	Pass	
Y	Mobile Home, Electric	Central Air Conditioner Service	Climate Zone 13	1.87	1.79	1.76	1.20	1.26	1.34	1.62	1.53	1.48	Pass	Pass	Pass	
Y	Mobile Home, Electric	Envelope and Air Sealing	Climate Zone 14	0.72	0.71	0.71	1.16	1.22	1.30	0.66	0.65	0.65	Pass	Pass	Pass	
Y	Mobile Home, Electric	Envelope and Air Sealing	Climate Zone 13	0.69	0.69	0.69	1.14	1.21	1.28	0.63	0.63	0.63	Pass	Pass	Pass	
N	Mobile Home, Electric	Refrigerators		1.02	1.02	1.04	1.13	1.22	1.31	0.79	0.78	0.77	Pass	Pass	Pass	
Y	Mobile Home, Electric	Duct Test and Seal	Climate Zone 15	1.51	1.47	1.46	1.12	1.18	1.26	1.28	1.23	1.20	Pass	Pass	Pass	
Y	Single Family, Electric	Duct Test and Seal	Climate Zone 15	1.49	1.46	1.45	1.11	1.17	1.25	1.27	1.22	1.19	Pass	Pass	Pass	
Y	Mobile Home, Electric	Envelope and Air Sealing	Climate Zone 10	0.69	0.68	0.69	1.11	1.17	1.25	0.63	0.62	0.62	Pass	Pass	Pass	
N	Single Family, Electric	Refrigerators		1.00	1.00	1.01	1.11	1.19	1.28	0.77	0.76	0.75	Pass	Pass	Pass	
Y	Multifamily, Electric	Envelope and Air Sealing	Climate Zone 14	0.65	0.65	0.65	1.05	1.11	1.19	0.60	0.59	0.59	Pass	Pass	Pass	
Y	Multifamily, Electric	Duct Test and Seal	Climate Zone 15	1.33	1.30	1.30	0.99	1.05	1.12	1.13	1.09	1.07	Pass	Pass	Pass	
N	Multifamily, Electric	Refrigerators		0.86	0.87	0.88	0.96	1.04	1.12	0.67	0.66	0.66	Pass	Pass	Pass	
Y	Single Family, Electric	Envelope and Air Sealing	Climate Zone 14	0.58	0.58	0.59	0.94	1.00	1.06	0.54	0.53	0.53	Pass	Pass	Pass	
Y	Single Family, Electric	Envelope and Air Sealing	Climate Zone 13	0.56	0.56	0.57	0.92	0.98	1.04	0.51	0.51	0.51	Pass	Pass	Pass	
Y	Single Family, Electric	Envelope and Air Sealing	Climate Zone 10	0.56	0.56	0.56	0.90	0.96	1.02	0.51	0.51	0.51	Pass	Pass	Pass	
N	All Housing Types, Electric	Pool Pumps		0.98	0.97	0.98	0.89	0.96	1.03	0.80	0.78	0.77	Pass	Pass	Pass	
Y	Single Family, Electric	Duct Test and Seal	Climate Zone 14	1.43	1.39	1.38	0.86	0.91	0.97	1.25	1.21	1.18	Pass	Pass	Pass	
Y	Mobile Home, Electric	Duct Test and Seal	Climate Zone 14	1.42	1.38	1.37	0.85	0.90	0.96	1.24	1.20	1.17	Pass	Pass	Pass	
Y	Mobile Home, Electric	Envelope and Air Sealing	Climate Zone 8	0.47	0.48	0.49	0.84	0.89	0.95	0.43	0.43	0.44	Pass	Pass	Pass	
Y	Multifamily, Electric	Envelope and Air Sealing	Climate Zone 13	0.46	0.46	0.47	0.76	0.81	0.87	0.42	0.42	0.43	Pass	Pass	Pass	
Y	Single Family, Electric	Evaporative Cooler Maintenance	Climate Zone 15	0.77	0.77	0.77	0.74	0.81	0.88	0.62	0.61	0.59	Pass	Pass	Pass	
Y	Mobile Home, Electric	Evaporative Cooler Maintenance	Climate Zone 15	0.77	0.77	0.77	0.74	0.81	0.88	0.62	0.61	0.59	Pass	Pass	Pass	
Y	Single Family, Electric	Duct Test and Seal	Climate Zone 13	1.16	1.14	1.14	0.73	0.77	0.83	1.01	0.99	0.97	Pass	Pass	Pass	
Y	Single Family, Electric	Envelope and Air Sealing	Climate Zone 8	0.37	0.38	0.39	0.67	0.71	0.76	0.34	0.34	0.35	Pass	Pass	Pass	
Y	Mobile Home, Electric	Duct Test and Seal	Climate Zone 13	1.06	1.05	1.05	0.67	0.71	0.76	0.92	0.90	0.89	Pass	Pass	Pass	
Y	Mobile Home, Electric	Envelope and Air Sealing	Climate Zone 9	0.37	0.38	0.39	0.64	0.68	0.73	0.34	0.35	0.35	Pass	Pass	Pass	
Y	Multifamily, Electric	Duct Test and Seal	Climate Zone 14	1.06	1.04	1.04	0.64	0.68	0.73	0.93	0.90	0.89	Pass	Pass	Pass	
Y	Mobile Home, Electric	Envelope and Air Sealing	Climate Zone 15	0.39	0.40	0.40	0.63	0.68	0.72	0.36	0.36	0.36	Pass	Pass	Pass	
Y	Single Family, Electric	Evaporative Cooler Installation	Climate Zone 15	0.75	0.75	0.76	0.62	0.67	0.73	0.60	0.59	0.59	Pass	Pass	Pass	
Y	Mobile Home, Electric	Envelope and Air Sealing	Climate Zone 16	0.43	0.43	0.44	0.62	0.66	0.70	0.40	0.40	0.40	Pass	Pass	Pass	
Y	Mobile Home, Electric	Evaporative Cooler Installation	Climate Zone 15	0.73	0.73	0.74	0.60	0.65	0.71	0.59	0.58	0.58	Pass	Pass	Pass	
Y	Multifamily, Electric	Duct Test and Seal	Climate Zone 13	0.83	0.83	0.83	0.52	0.56	0.61	0.72	0.71	0.71	Pass	Pass	Pass	
Y	Single Family, Electric	Envelope and Air Sealing	Climate Zone 9	0.29	0.30	0.30	0.50	0.53	0.57	0.27	0.27	0.27	Pass	Pass	Pass	
Y	Single Family, Electric	Envelope and Air Sealing	Climate Zone 15	0.31	0.31	0.31	0.49	0.53	0.57	0.28	0.28	0.29	Pass	Pass	Pass	
Y	Single Family, Electric	Envelope and Air Sealing	Climate Zone 16	0.34	0.34	0.35	0.48	0.52	0.55	0.31	0.31	0.32	Pass	Pass	Pass	
Y	Mobile Home, Electric	Evaporative Cooler Maintenance	Climate Zone 16	0.49	0.49	0.49	0.46	0.51	0.56	0.39	0.38	0.38	Pass	Pass	Pass	
Y	Single Family, Electric	Evaporative Cooler Maintenance	Climate Zone 16	0.49	0.49	0.49	0.45	0.51	0.56	0.39	0.38	0.38	Pass	Pass	Pass	
Y	Single Family, Electric	Room Air Conditioner Replacement	Climate Zone 15	0.65	0.65	0.66	0.46	0.49	0.54	0.54	0.53	0.53	Pass	Pass	Pass	
Y	Single Family, Electric	Evaporative Cooler Maintenance	Climate Zone 13	0.46	0.46	0.46	0.44	0.48	0.53	0.37	0.36	0.35	Pass	Pass	Pass	
Y	Mobile Home, Electric	Evaporative Cooler Maintenance	Climate Zone 13	0.46	0.46	0.46	0.44	0.48	0.53	0.37	0.36	0.35	Pass	Pass	Pass	
Y	Mobile Home, Electric	Room Air Conditioner Replacement	Climate Zone 15	0.59	0.59	0.60	0.40	0.43	0.47	0.49	0.49	0.49	Pass	Pass	Pass	
Y	Multifamily, Electric	Envelope and Air Sealing	Climate Zone 10	0.24	0.24	0.24	0.38	0.41	0.44	0.22	0.22	0.22	Pass	Pass	Pass	
Y	Mobile Home, Electric	Heat Pump Replacement	Climate Zone 14	0.43	0.44	0.45	0.38	0.42	0.46	0.32	0.32	0.33	Pass	Pass	Pass	
Y	Single Family, Electric	Evaporative Cooler Maintenance	Climate Zone 14	0.39	0.40	0.40	0.38	0.42	0.46	0.32	0.31	0.31	Pass	Pass	Pass	
Y	Mobile Home, Electric	Evaporative Cooler Maintenance	Climate Zone 14	0.39	0.40	0.40	0.38	0.42	0.46	0.32	0.31	0.31	Pass	Pass	Pass	
Y	Mobile Home, Electric	Heat Pump Replacement	Climate Zone 15	0.44	0.45	0.46	0.36	0.39	0.43	0.34	0.34	0.34	Pass	Pass	Pass	
Y	Multifamily, Electric	Heat Pump Replacement	Climate Zone 13	0.37	0.38	0.39	0.35	0.38	0.42	0.29	0.28	0.28	Pass	Pass	Pass	
Y	Mobile Home, Electric	Heat Pump Replacement	Climate Zone 13	0.40	0.41	0.42	0.34	0.37	0.41	0.31	0.31	0.31	Pass	Pass	Pass	
Y	Multifamily, Electric	Central Air Conditioner Replacement	Climate Zone 15	0.47	0.48	0.49	0.33	0.36	0.40	0.38	0.38	0.38	Pass	Pass	Pass	
Y	Mobile Home, Electric	Central Air Conditioner Replacement	Climate Zone 15	0.50	0.51	0.51	0.32	0.35	0.38	0.40	0.40	0.40	Pass	Pass	Pass	
Y	Single Family, Electric	Central Air Conditioner Replacement	Climate Zone 15	0.48	0.48	0.49	0.31	0.33	0.37	0.39	0.39	0.39	Pass	Pass	Pass	
Y	Multifamily, Electric	Heat Pump Replacement	Climate Zone 14	0.32	0.32	0.33	0.30	0.33	0.36	0.23	0.23	0.24	Pass	Pass	Pass	
Y	Single Family, Electric	Evaporative Cooler Installation	Climate Zone 14	0.37	0.38	0.39	0.30	0.33	0.36	0.30	0.30	0.30	Pass	Pass	Pass	
Y	Mobile Home, Electric	Evaporative Cooler Installation	Climate Zone 14	0.37	0.38	0.39	0.29	0.32	0.35	0.30	0.30	0.30	Pass	Pass	Pass	
Y	Single Family, Electric	Heat Pump Replacement	Climate Zone 13	0.31	0.32	0.33	0.29	0.31	0.34	0.23	0.23	0.23	Pass	Pass	Pass	
Y	Single Family, Electric	Heat Pump Replacement	Climate Zone 14	0.30	0.31	0.32	0.28	0.31	0.34	0.22	0.22	0.23	Pass	Pass	Pass	

Amended Revised Attachment F4
(December 2, 2011)

LIEE Cost-Effectiveness - Measures
SCE
Ratio of Benefits Over Costs

Weather Sensitive?	Type	Measure	Climate Zone	Utility Cost Test			Modified Participant Test			Total Resource Cost Test		
				2009	2010	2011	2009	2010	2011	2009	2010	2011
Y	Single Family, Electric	Evaporative Cooler Installation	Climate Zone 13	0.34	0.34	0.35	0.27	0.30	0.33	0.27	0.27	0.27
Y	Multifamily, Electric	Envelope and Air Sealing	Climate Zone 8	0.15	0.15	0.16	0.27	0.29	0.31	0.14	0.14	0.14
Y	Mobile Home, Electric	Evaporative Cooler Installation	Climate Zone 13	0.33	0.34	0.34	0.26	0.29	0.32	0.26	0.27	0.27
Y	Single Family, Electric	Evaporative Cooler Installation	Climate Zone 16	0.43	0.44	0.45	0.26	0.29	0.31	0.37	0.37	0.37
Y	Multifamily, Electric	Central Air Conditioner Replacement	Climate Zone 14	0.36	0.37	0.38	0.25	0.28	0.30	0.29	0.29	0.29
Y	Mobile Home, Electric	Central Air Conditioner Replacement	Climate Zone 14	0.46	0.46	0.47	0.25	0.27	0.29	0.37	0.38	0.38
Y	Multifamily, Electric	Heat Pump Replacement	Climate Zone 15	0.29	0.29	0.30	0.24	0.27	0.30	0.22	0.22	0.22
Y	Single Family, Electric	Envelope and Air Sealing	Climate Zone 6	0.14	0.14	0.14	0.24	0.26	0.28	0.12	0.13	0.13
Y	**Single Family, Electric**	**Evaporative Cooler Maintenance**	**Climate Zone 10**	**0.24**	**0.24**	**0.24**	**0.23**	**0.25**	**0.28**	**0.19**	**0.19**	**0.18**
Y	**Mobile Home, Electric**	**Evaporative Cooler Maintenance**	**Climate Zone 10**	**0.24**	**0.24**	**0.24**	**0.23**	**0.25**	**0.28**	**0.19**	**0.19**	**0.18**
Y	Single Family, Electric	Heat Pump Replacement	Climate Zone 15	0.26	0.27	0.27	0.22	0.24	0.26	0.20	0.20	0.20
Y	Single Family, Electric	Room Air Conditioner Replacement	Climate Zone 14	0.36	0.36	0.37	0.21	0.23	0.25	0.30	0.30	0.31
Y	Mobile Home, Electric	Room Air Conditioner Replacement	Climate Zone 14	0.37	0.38	0.38	0.21	0.23	0.25	0.32	0.32	0.32
Y	**Single Family, Electric**	**Evaporative Cooler Installation**	**Climate Zone 10**	**0.25**	**0.25**	**0.26**	**0.20**	**0.22**	**0.24**	**0.20**	**0.20**	**0.20**
Y	Single Family, Electric	Room Air Conditioner Replacement	Climate Zone 13	0.30	0.30	0.31	0.19	0.21	0.23	0.25	0.25	0.25
Y	Multifamily, Electric	Envelope and Air Sealing	Climate Zone 9	0.11	0.11	0.12	0.19	0.21	0.22	0.10	0.10	0.11
Y	**Mobile Home, Electric**	**Evaporative Cooler Installation**	**Climate Zone 10**	**0.25**	**0.25**	**0.26**	**0.19**	**0.21**	**0.23**	**0.20**	**0.20**	**0.20**
Y	Multifamily, Electric	Envelope and Air Sealing	Climate Zone 15	0.12	0.12	0.12	0.19	0.20	0.22	0.11	0.11	0.11
Y	Multifamily, Electric	Envelope and Air Sealing	Climate Zone 16	0.13	0.13	0.14	0.19	0.20	0.22	0.12	0.12	0.13
Y	Mobile Home, Electric	Evaporative Cooler Installation	Climate Zone 16	0.35	0.35	0.36	0.19	0.20	0.22	0.29	0.30	0.30
Y	Mobile Home, Electric	Central Air Conditioner Replacement	Climate Zone 13	0.28	0.29	0.30	0.17	0.19	0.21	0.23	0.23	0.23
Y	**Multifamily, Electric**	**Room Air Conditioner Replacement**	**Climate Zone 15**	**0.23**	**0.24**	**0.25**	**0.17**	**0.18**	**0.20**	**0.19**	**0.19**	**0.20**
Y	Single Family, Electric	Central Air Conditioner Replacement	Climate Zone 14	0.38	0.38	0.39	0.17	0.18	0.20	0.32	0.32	0.32
Y	Mobile Home, Electric	Envelope and Air Sealing	Climate Zone 6	0.09	0.10	0.10	0.16	0.18	0.19	0.08	0.09	0.09
Y	Mobile Home, Electric	Room Air Conditioner Replacement	Climate Zone 13	0.29	0.29	0.30	0.16	0.18	0.20	0.24	0.25	0.25
Y	Single Family, Electric	Room Air Conditioner Replacement	Climate Zone 10	0.25	0.26	0.26	0.15	0.16	0.18	0.22	0.22	0.22
Y	Multifamily, Electric	Central Air Conditioner Replacement	Climate Zone 13	0.22	0.23	0.23	0.15	0.16	0.18	0.17	0.18	0.18
Y	**Mobile Home, Electric**	**Room Air Conditioner Replacement**	**Climate Zone 10**	**0.25**	**0.25**	**0.26**	**0.12**	**0.14**	**0.15**	**0.22**	**0.22**	**0.22**
Y	Single Family, Electric	Central Air Conditioner Replacement	Climate Zone 13	0.24	0.25	0.25	0.12	0.13	0.15	0.20	0.20	0.21
Y	Multifamily, Electric	Envelope and Air Sealing	Climate Zone 6	0.05	0.05	0.05	0.08	0.09	0.10	0.04	0.04	0.05
Y	**Multifamily, Electric**	**Room Air Conditioner Replacement**	**Climate Zone 14**	**0.13**	**0.14**	**0.14**	**0.08**	**0.09**	**0.10**	**0.11**	**0.11**	**0.12**
Y	**Multifamily, Electric**	**Room Air Conditioner Replacement**	**Climate Zone 13**	**0.10**	**0.10**	**0.11**	**0.06**	**0.07**	**0.08**	**0.08**	**0.09**	**0.09**
Y	**Multifamily, Electric**	**Room Air Conditioner Replacement**	**Climate Zone 10**	**0.09**	**0.09**	**0.09**	**0.05**	**0.05**	**0.06**	**0.08**	**0.08**	**0.08**
Y	**Single Family, Electric**	**New Construction 13-16 SEER Central AC Upgrade**	**Climate Zone 13**		**0.08**	**0.08**		**0.01**	**0.01**		**0.08**	**0.08**
Y	**Single Family, Electric**	**New Construction 13-16 SEER Central AC Upgrade**	**Climate Zone 14**		**0.10**	**0.10**		**0.01**	**0.01**		**0.10**	**0.10**
Y	**Single Family, Electric**	**New Construction 13-16 SEER Central AC Upgrade**	**Climate Zone 15**		**0.05**	**0.06**		**0.01**	**0.01**		**0.05**	**0.05**
Y	**Multifamily, Electric**	**New Construction 13-16 SEER Central AC Upgrade**	**Climate Zone 13**		**0.08**	**0.09**		**0.03**	**0.03**		**0.08**	**0.08**
Y	**Multifamily, Electric**	**New Construction 13-16 SEER Central AC Upgrade**	**Climate Zone 14**		**0.09**	**0.10**		**0.03**	**0.03**		**0.09**	**0.09**
Y	**Multifamily, Electric**	**New Construction 13-16 SEER Central AC Upgrade**	**Climate Zone 15**		**0.10**	**0.11**		**0.04**	**0.05**		**0.09**	**0.10**

*These items fall below the 0.25 threshold but are added back into the program for health comfort and safety reasons.

(END OF ATTACHMENT F)