

**Southern California Gas Company
December 2006 Activity Workpapers****Express Efficiency Rebate Program (EXP4)****Msr # 311002 Desc: Greenhouse Heat Curtain****Grs kWh:** 0.00**Grs Therms:** 0.32**Grs kW:** 0.00**NTG:** 0.96**End Use:** Space Cooling/Heating**Units:** Sqft**Life:** 5**Incentive:** \$0.20**Msr Cost:** \$0.49**Measure Life Type:** RET**Climate Zone:** Region-wide**Baseline Vintage:** No vintage distinction**DEER Run ID:** CFRM00AVHtCtn**Weight %:** 100**Name:** Greenhouse Heat Curtain

Savings Comment (11/01/05 08:09am) - Converted to per sqft consistent with the program

General Comment (12/14/06 10:38am) - See Express Efficiency Changes 12-13-06.pdf

Msr # 311005 Desc: Storage Water Heaters (LRG >75 MBTUH)**Grs kWh:** 0.00**Grs Therms:** 1.75**Grs kW:** 0.00**NTG:** 0.96**End Use:** Water Heating**Units:** MBtuh**Life:** 15**Incentive:** \$2.00**Msr Cost:** \$6.78**Measure Life Type:** ROB**Climate Zone:** Region-wide**Baseline Vintage:** No vintage distinction

Savings Comment (05/19/05 04:43pm) - See "Express and SBS Workpapers.pdf" Page Exp-181

Therm savings converted to Therms per MBTU as follows: 440Therms/251MBTU=1.753 Therms per MBTU

Cost Comment (05/20/05 04:43pm) - See "Express and SBS Workpapers.pdf" Page Exp-181

IMC converted from a unit to MBTU as follows: \$1,701/251 MBTU = \$6.78

Msr # 311006 Desc: Storage Water Heaters (SML <= 75 MBTUH)**Grs kWh:** 0.00**Grs Therms:** 0.66**Grs kW:** 0.00**NTG:** 0.96**End Use:** Water Heating**Units:** MBtuh**Life:** 15**Incentive:** \$2.00**Msr Cost:** \$2.69**Measure Life Type:** ROB**Climate Zone:** Region-wide**Baseline Vintage:** No vintage distinction

General Comment (12/14/06 10:38am) - See Express Efficiency Changes 12-13-06.pdf

Msr # 311007 Desc: Instantaneous Water Heaters (>= 200 MBTUH)**Grs kWh:** 0.00**Grs Therms:** 0.96**Grs kW:** 0.00**NTG:** 0.96**End Use:** Water Heating**Units:** MBtuh**Life:** 15**Incentive:** \$0.50**Msr Cost:** (\$1.32)**Measure Life Type:** RET**Climate Zone:** Region-wide**Baseline Vintage:** No vintage distinction

Savings Comment (01/04/06 08:18am) - See "Express and SBS Workpapers.pdf" Page Exp-184

Therm savings converted to Therms per MBTU as follows: 1,733 Therms/1,229 MBTU=1.41 Therms per MBTU

Cost Comment (01/05/06 08:18am) - See "Express and SBS Workpapers.pdf" Page Exp-185

IMC converted from a unit to MBTU as follows: \$(1,627)/1,229 MBTU = \$(1.32)

General Comment (12/14/06 10:38am) - See Express Efficiency Changes 12-13-06.pdf

Express Efficiency Rebate Program (EXP4)**Msr # 311008 Desc: Instantaneous Water Heaters (< 200 MBTUH)****Grs kWh:** 0.00 **Grs Therms:** 1.81 **Grs kW:** 0.00 **NTG:** 0.96**End Use:** Water Heating **Units:** MBtuh **Life:** 15 **Incentive:** \$2.00**Msr Cost:** (\$7.77)**Measure Life Type:** RET **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

Savings Comment (05/19/05 04:44pm) - See "Express and SBS Workpapers.pdf" Page Exp-184

Therm savings converted to Therms per MBTU as follows: 196 Therms/139 MBTU=1.41 Therms per MBTU

Cost Comment (05/20/05 04:44pm) - See "Express and SBS Workpapers.pdf" Page Exp-185

IMC converted from a unit to MBTU as follows: \$(1,080)/139 MBTU = (\$7.77)

General Comment (12/14/06 10:38am) - See Express Efficiency Changes 12-13-06.pdf

Msr # 311010 Desc: Infrared Film for Greenhouses**Grs kWh:** 0.00 **Grs Therms:** 0.17 **Grs kW:** 0.00 **NTG:** 0.96**End Use:** Space Cooling/Heating **Units:** Sqft **Life:** 5 **Incentive:** \$0.03**Msr Cost:** \$0.03**Measure Life Type:** RET **Climate Zone:** San Diego **Baseline Vintage:** No vintage distinction**DEER Run ID:** CFRM07AVIRFilm **Weight %:** 100 **Name:** Infrared Film for Greenhouses

Savings Comment (11/01/05 08:07am) - See "Infrared Film for Greenhouse Walls.doc"

Cost Comment (11/02/05 08:07am) - See "Infrared Film for Greenhouse Walls.doc"

General Comment (12/14/06 10:38am) - See Express Efficiency Changes 12-13-06.pdf

Msr # 311014 Desc: Space Heating Boilers - Large Water**Grs kWh:** 0.00 **Grs Therms:** 0.29 **Grs kW:** 0.00 **NTG:** 0.96**End Use:** Water Heating **Units:** MBtuh **Life:** 20 **Incentive:** \$0.25**Msr Cost:** \$3.57**Measure Life Type:** ROB **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

Savings Comment (11/14/05 06:49pm) - See "Express and SBS Workpapers.pdf" Page Exp-182. Savings were converted from "per unit" to "per MBTU" 2528 Therms / 2351 MBTU = 1.0753 therms/MBTU

Cost Comment (11/15/05 06:49pm) - See "Express and SBS Workpapers.pdf" Page Exp-182. IMC was converted from "per unit" to "per MBTU" \$8393 / 2351 MBTU = \$3.57/MBTU

General Comment (12/14/06 10:38am) - See Express Efficiency Changes 12-13-06.pdf

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Express Efficiency Rebate Program (EXP4)**Msr # 311015 Desc: Commercial Boiler (Non-Space Heat, Non-Process)****Grs kWh:** 0.00 **Grs Therms:** 0.46 **Grs kW:** 0.00 **NTG:** 0.96**End Use:** Water Heating **Units:** MBtuh **Life:** 20 **Incentive:** \$0.50**Msr Cost:** \$3.57**Measure Life Type:** ROB **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

Savings Comment (11/14/05 06:29pm) - See "Express and SBS Workpapers.pdf" Page Exp-183

Therm savings converted to Therms per MBTU as follows: 1,913 Therms/1,330 MBTU=1.438 Therms per MBTU

Cost Comment (11/15/05 06:29pm) - See "Express and SBS Workpapers.pdf" Page Exp-183

IMC converted from a unit to MBTU as follows: \$4,748/1330 MBTU = \$3.57

General Comment (12/14/06 10:38am) - See Express Efficiency Changes 12-13-06.pdf

Msr # 311016 Desc: Process Boiler - Steam**Grs kWh:** 0.00 **Grs Therms:** 0.37 **Grs kW:** 0.00 **NTG:** 0.96**End Use:** Water Heating **Units:** MBtuh **Life:** 20 **Incentive:** \$0.50**Msr Cost:** \$3.57**Measure Life Type:** ROB **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

Savings Comment (11/14/05 06:32pm) - See "Express and SBS Workpapers.pdf" Page Exp-185

Therm savings converted to Therms per MBTU as follows: 2,861 Therms/2,745 MBTU=1.04 Therms per MBTU

Cost Comment (11/15/05 06:32pm) - See "Express and SBS Workpapers.pdf" Page Exp-185

IMC converted from a unit to MBTU as follows: \$9,800/2,745 MBTU = \$3.57

General Comment (12/14/06 10:38am) - See Express Efficiency Changes 12-13-06.pdf

Msr # 311017 Desc: Water Heating -Commercial Pool Heater**Grs kWh:** 0.00 **Grs Therms:** 2.41 **Grs kW:** 0.00 **NTG:** 0.96**End Use:** Water Heating **Units:** Mbtuh **Life:** 5 **Incentive:** \$2.00**Msr Cost:** \$2.00**Measure Life Type:** RET **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

Savings Comment (05/19/05 04:47pm) - See "Commercial Pool Heater Workpapers.doc"

Cost Comment (05/20/05 04:47pm) - See "Commercial Pool Heater Workpapers.doc"

Express Efficiency Rebate Program (EXP4)**Msr # 311018 Desc: Process Boiler - Water****Grs kWh:** 0.00**Grs Therms:** 0.54**Grs kW:** 0.00**NTG:** 0.96**End Use:** Water Heating**Units:** MBtuh**Life:** 20**Incentive:** \$0.50**Msr Cost:** \$3.57**Measure Life Type:** ROB**Climate Zone:** Region-wide**Baseline Vintage:** No vintage distinction

Savings Comment (11/14/05 06:50pm) - See "Express and SBS Workpapers.pdf" Page Exp-185

Therm savings converted to Therms per MBTU as follows: 2,861 Therms/2,745 MBTU=1.04 Therms per MBTU

Cost Comment (11/15/05 06:50pm) - See "Express and SBS Workpapers.pdf" Page Exp-185

IMC converted from a unit to MBTU as follows: \$9,800/2,745 MBTU = \$3.57

General Comment (12/14/06 10:38am) - See Express Efficiency Changes 12-13-06.pdf

Msr # 311024 Desc: Pipe Insulation - Hot Water Applic. (sq ft) 2 in**Grs kWh:****Grs Therms:** 2.90**Grs kW:****NTG:** 0.96**End Use:** Water Heating**Units:** LinearFt**Life:** 20**Incentive:** \$3.00**Msr Cost:** \$9.22**Measure Life Type:** RET**Climate Zone:** Region-wide**Baseline Vintage:** No vintage distinction

Savings Comment (05/20/05 10:19am) - See "Pipe and Tank Insulation Workpaper.doc"

Cost Comment (05/21/05 10:19am) - See "Pipe and Tank Insulation Workpaper.doc"

General Comment (12/14/06 10:38am) - See Express Efficiency Changes 12-13-06.pdf

Msr # 311025 Desc: Pipe Insulation - Low Pressure Steam Applic. (LF) 2 in**Grs kWh:****Grs Therms:** 14.30**Grs kW:****NTG:** 0.96**End Use:** Water Heating**Units:** LinearFT**Life:** 20**Incentive:** \$4.00**Msr Cost:** \$9.22**Measure Life Type:** RET**Climate Zone:** Region-wide**Baseline Vintage:** No vintage distinction

Savings Comment (05/19/05 04:49pm) - See "Pipe and Tank Insulation Workpaper.doc"

Cost Comment (05/20/05 04:49pm) - See "Pipe and Tank Insulation Workpaper.doc"

General Comment (12/14/06 10:38am) - See Express Efficiency Changes 12-13-06.pdf

Msr # 311028 Desc: Pipe Insulation - Hot Water Applic. (sq ft) 1 in**Grs kWh:****Grs Therms:** 2.60**Grs kW:****NTG:** 0.96**End Use:** Water Heating**Units:** LinearFt**Life:** 20**Incentive:** \$2.00**Msr Cost:** \$5.67**Measure Life Type:** RET**Climate Zone:** Region-wide**Baseline Vintage:** No vintage distinction

Savings Comment (05/19/05 04:51pm) - See "Pipe and Tank Insulation Workpaper.doc"

Cost Comment (05/20/05 04:51pm) - See "Pipe and Tank Insulation Workpaper.doc"

General Comment (12/14/06 10:38am) - See Express Efficiency Changes 12-13-06.pdf

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Express Efficiency Rebate Program (EXP4)**Msr # 311029 Desc: Pipe Insulation - Low Pressure Steam Applic. (LF) 1 in****Grs kWh:** **Grs Therms:** 13.40 **Grs kW:** **NTG:** 0.96**End Use:** Water Heating **Units:** LinearFt **Life:** 20 **Incentive:** \$3.00**Msr Cost:** \$5.67**Measure Life Type:** RET **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

Savings Comment (05/19/05 04:52pm) - See "Pipe and Tank Insulation Workpaper.doc"

Cost Comment (05/20/05 04:52pm) - See "Pipe and Tank Insulation Workpaper.doc"

General Comment (12/14/06 10:38am) - See Express Efficiency Changes 12-13-06.pdf

Msr # 311033 Desc: Steam Trap Replacement - Commercial/Other**Grs kWh:** 0.00 **Grs Therms:** 139.00 **Grs kW:** 0.00 **NTG:** 0.96**End Use:** Water Heating **Units:** Unit **Life:** 15 **Incentive:** \$100.00**Msr Cost:** \$223.00**Measure Life Type:** RET **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

General Comment (12/05/05 10:06am) - See: "Steam Trap Workpapers.doc" & "Steam Trap Workpapers.xls"

Savings Comment (12/06/05 10:06am) - See: "Steam Trap Workpapers.doc" & "Steam Trap Workpapers.xls"

Cost Comment (12/07/05 10:06am) - See: "Steam Trap Workpapers.doc" & "Steam Trap Workpapers.xls"

General Comment (12/14/06 10:38am) - See Express Efficiency Changes 12-13-06.pdf

Multi-Family Rebate Program (MFR4)

Msr # 312002 Desc: Natural Gas Storage Water Heater (EF>= 0.63)
Grs kWh: 0.00 **Grs Therms:** 10.08 **Grs kW:** 0.00 **NTG:** 0.89
End Use: Water Heating **Units:** Hot Water Tank **Life:** 13 **Incentive:** \$30.00 **Msr Cost:** \$175.30
Measure Life Type: ROB **Climate Zone:** Riverside **Baseline Vintage:** No vintage distinction
DEER Run ID: RMFM10AVWHGTa **Weight %:** 100 **Name:** High Efficiency Water Heater

Msr # 312004 Desc: Attic Insulation
Grs kWh: 0.18 **Grs Therms:** 0.05 **Grs kW:** 0.00 **NTG:** 0.89
End Use: Space Cooling/Heating **Units:** 1000 sqft roof, 10(**Life:** 20 **Incentive:** \$0.15 **Msr Cost:** \$0.76
Measure Life Type: RET **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction
DEER Run ID: RMFm1075RCV30 **Weight %:** 60 **Name:** Ceiling Vintage to R-30 Insulation-Batts
DEER Run ID: RMFm1085RCV30 **Weight %:** 30 **Name:** Ceiling Vintage to R-30 Insulation-Batts
DEER Run ID: RMFm1096RCV30 **Weight %:** 10 **Name:** Ceiling Vintage to R-30 Insulation-Batts

Savings Comment (10/28/05 07:19pm) - Savings are converted to per sqare foot consistent with program and IMC. Used Riverside climate zone as representative climate zone for the forecast.

Msr # 312005 Desc: Wall Insulation
Grs kWh: 0.10 **Grs Therms:** 0.06 **Grs kW:** 0.00 **NTG:** 0.89
End Use: Space Cooling/Heating **Units:** sqft **Life:** 20 **Incentive:** \$0.15 **Msr Cost:** \$1.32
Measure Life Type: **Climate Zone:** Riverside **Baseline Vintage:** Built before 1978
DEER Run ID: RMFm1075RW413 **Weight %:** 100 **Name:** Wall Blow-In R-0 to R-13 Insulation

Savings Comment (10/28/05 07:20pm) - Used inland empire (climate zone 10 as forecast climate zone
Converted from per 1,000 sqft to sqft

Msr # 312008 Desc: Central System Natural Gas Water Heater
Grs kWh: 0.00 **Grs Therms:** 257.00 **Grs kW:** 0.00 **NTG:** 0.89
End Use: Water Heating **Units:** Unit **Life:** 15 **Incentive:** \$500.00 **Msr Cost:** \$1,701.00
Measure Life Type: ROB **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

Savings Comment (12/10/05 03:51pm) - Savings value is from November 26, 2001 analysis performed by A. Ahmed for SoCalGas. See Excel workbook "MFRCPNov26.xls".

Cost Comment (12/11/05 03:51pm) - - IMC from Statewide Express Efficiency (GAS_B)

**Southern California Gas Company
December 2006 Activity Workpapers****Multi-Family Rebate Program (MFR4)****Msr # 312009 Desc: Central System Gas Boiler: Water Heating Only****Grs kWh:** 0.00 **Grs Therms:** 750.00 **Grs kW:** 0.00 **NTG:** 0.89**End Use:** Water Heating **Units:** Unit **Life:** 20 **Incentive:** \$1,500.00 **Msr Cost:** \$4,060.00**Measure Life Type:** ROB **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

Savings Comment (06/24/05 03:44pm) - Savings value is from November 26, 2001 analysis performed by A. Ahmed for SoCalGas. See Excel workbook "MFRCPNov26.xls".

Cost Comment (06/25/05 03:44pm) - IMC from Statewide Express Efficiency (GAS_D)

Msr # 312010 Desc: Central System Gas Boiler: Space and Water Heating**Grs kWh:** 0.00 **Grs Therms:** 1,900.00 **Grs kW:** 0.00 **NTG:** 0.89**End Use:** Space Cooling/Heating **Units:** Unit **Life:** 20 **Incentive:** \$1,500.00 **Msr Cost:** \$4,060.00**Measure Life Type:** ROB **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

Savings Comment (06/24/05 03:45pm) - Savings value is from November 26, 2001 analysis performed by A. Ahmed for SoCalGas. See Excel workbook "MFRCPNov26.xls".

Cost Comment (06/25/05 03:45pm) - IMC from Statewide Express Efficiency (GAS_C)

Msr # 312012 Desc: Gas Wtr Htr Controller (<30 units) Pre 1970**Grs kWh:** 0.00 **Grs Therms:** 1,125.00 **Grs kW:** 0.00 **NTG:** 0.89**End Use:** Water Heating **Units:** Unit **Life:** 10 **Incentive:** \$750.00 **Msr Cost:** \$1,400.00**Measure Life Type:** RET **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

General Comment (01/25/06 11:04am) - 2006-2008 water-heater controller workpaper--2005-12-19.doc

Savings Comment (01/26/06 11:04am) - 2006-2008 water-heater controller workpaper--2005-12-19.doc

Cost Comment (01/27/06 11:04am) - 2006-2008 water-heater controller workpaper--2005-12-19.doc

Msr # 312014 Desc: Gas Wtr Htr Controller (>= 30 units) Pre 1970**Grs kWh:** 0.00 **Grs Therms:** 2,250.00 **Grs kW:** 0.00 **NTG:** 0.89**End Use:** Water Heating **Units:** Unit **Life:** 10 **Incentive:** \$1,500.00 **Msr Cost:** \$1,550.00**Measure Life Type:** RET **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

General Comment (01/25/06 11:04am) - 2006-2008 water-heater controller workpaper--2005-12-19.doc

Savings Comment (01/26/06 11:04am) - 2006-2008 water-heater controller workpaper--2005-12-19.doc

Cost Comment (01/27/06 11:04am) - 2006-2008 water-heater controller workpaper--2005-12-19.doc

**Southern California Gas Company
December 2006 Activity Workpapers****Multi-Family Rebate Program (MFR4)**

Msr # 312015 Desc: Gas Wtr Htr Controller (<30 units) Post 1970
Grs kWh: 0.00 **Grs Therms:** 850.00 **Grs kW:** 0.00 **NTG:** 0.89
End Use: Water Heating **Units:** Unit **Life:** 10 **Incentive:** \$750.00 **Msr Cost:** \$1,400.00
Measure Life Type: RET **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

General Comment (01/25/06 11:05am) - 2006-2008 water-heater controller workpaper--2005-12-19.doc

Savings Comment (01/26/06 11:05am) - 2006-2008 water-heater controller workpaper--2005-12-19.doc

Cost Comment (01/27/06 11:05am) - 2006-2008 water-heater controller workpaper--2005-12-19.doc

Msr # 312017 Desc: Clothes Washer Energy Star Tier II MEF = 1.60 (In Coin-Op Laundry Area)
Grs kWh: 0.00 **Grs Therms:** 101.77 **Grs kW:** 0.00 **NTG:** 0.80
End Use: Water Heating **Units:** Clothes Washer, (**Life:** 10 **Incentive:** \$50.00 **Msr Cost:** \$853.00
Measure Life Type: ROB **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction
DEER Run ID: RRes00AVC3T2D **Weight %:** 100 **Name:** Energy Star Clothes Washer - 3.5 cf
Savings Comment (11/12/05 07:03pm) - See "Coin-op.xls"

Msr # 312021 Desc: Energy Star Dishwasher Tier I (EF=.62)
Grs kWh: 0.00 **Grs Therms:** 3.90 **Grs kW:** 0.00 **NTG:** 0.80
End Use: Water Heating **Units:** Dishwasher, DW₂ **Life:** 13 **Incentive:** \$30.00 **Msr Cost:** \$183.64
Measure Life Type: ROB **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction
DEER Run ID: RMFM00AVDW160 **Weight %:** 100 **Name:** Energy Star Dish Washer
Savings Comment (11/11/05 05:40pm) - See "Clothes and Dishwashers.xls"
Cost Comment (11/12/05 05:40pm) - See "Clothes and Dishwashers.xls"

Msr # 312027 Desc: Gas Wtr Htr Controller (>=30 units) Post 1970
Grs kWh: **Grs Therms:** 1,699.00 **Grs kW:** **NTG:** 0.89
End Use: Water Heating **Units:** Unit **Life:** 10 **Incentive:** \$1,500.00 **Msr Cost:** \$1,550.00
Measure Life Type: RET **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction
General Comment (01/25/06 11:05am) - 2006-2008 water-heater controller workpaper--2005-12-19.doc
Savings Comment (01/26/06 11:05am) - 2006-2008 water-heater controller workpaper--2005-12-19.doc
Cost Comment (01/27/06 11:05am) - 2006-2008 water-heater controller workpaper--2005-12-19.doc

Local Business Energy Efficiency Program (NRF4)

Msr # 314001 Desc: EER Convection Oven
Grs kWh: 0.00 **Grs Therms:** 323.00 **Grs kW:** 0.00 **NTG:** 1.00
End Use: Cooking **Units:** Unit **Life:** 12 **Incentive:** \$500.00 **Msr Cost:** \$3,144.00
Measure Life Type: RET **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

General Comment (11/09/05 03:10pm) - Life derived from Food Service Gas Measure Workpapers 11-08-05.xls
Savings Comment (11/10/05 03:10pm) - Savings derived from Food Service Gas Measure Workpapers 11-08-05.xls
Cost Comment (11/11/05 03:10pm) - IMC derived from Food Service Gas Measure Workpapers 11-08-05.xls
General Comment (10/03/06 04:22pm) - See Boiler-FoodService-LV_Rack-Addition.pdf

Msr # 314003 Desc: EER Griddle
Grs kWh: 0.00 **Grs Therms:** 88.00 **Grs kW:** 0.00 **NTG:** 1.00
End Use: Cooking **Units:** Unit **Life:** 12 **Incentive:** \$125.00 **Msr Cost:** \$4,575.00
Measure Life Type: ROB **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

General Comment (11/09/05 03:07pm) - Life derived from Food Service Gas Measure Workpapers 11-08-05.xls
Savings Comment (11/10/05 03:07pm) - Savings derived from Food Service Gas Measure Workpapers 11-08-05.xls
Cost Comment (11/11/05 03:07pm) - IMC derived from Food Service Gas Measure Workpapers 11-08-05.xls
General Comment (10/03/06 04:22pm) - See Boiler-FoodService-LV_Rack-Addition.pdf

Msr # 314006 Desc: EER Fryer - High Effic. Unit
Grs kWh: 0.00 **Grs Therms:** 505.00 **Grs kW:** 0.00 **NTG:** 1.00
End Use: Cooking **Units:** Unit **Life:** 12 **Incentive:** \$500.00 **Msr Cost:** \$3,796.00
Measure Life Type: ROB **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

General Comment (11/09/05 03:06pm) - Life derived from Food Service Gas Measure Workpapers 11-08-05.xls
Savings Comment (11/10/05 03:06pm) - Savings derived from Food Service Gas Measure Workpapers 11-08-05.xls
Cost Comment (11/11/05 03:06pm) - IMC derived from Food Service Gas Measure Workpapers 11-08-05.xls
General Comment (10/03/06 04:22pm) - See Boiler-FoodService-LV_Rack-Addition.pdf

Msr # 314008 Desc: PER Furnace Replacement
Grs kWh: 0.00 **Grs Therms:** 1.00 **Grs kW:** 0.00 **NTG:** 0.80
End Use: Space Cooling/Heating **Units:** Therm **Life:** 20 **Incentive:** \$0.60 **Msr Cost:** \$4.60
Measure Life Type: ROB **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

Cost Comment (03/15/07 04:53pm) - See "BEEP Project_ Summary File 2006.xls"

Local Business Energy Efficiency Program (NRF4)**Msr # 314010 Desc: PER Oven Replacement****Grs kWh:** 0.00 **Grs Therms:** 1.00 **Grs kW:** 0.00 **NTG:** 0.80**End Use:** Cooking **Units:** Therm **Life:** 20 **Incentive:** \$0.65**Msr Cost:** \$15.97**Measure Life Type:** **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

Cost Comment (03/15/07 04:58pm) - See "BEEP Project_ Summary File 2006.xls"

Msr # 314011 Desc: CPI Heat Recovery**Grs kWh:** 0.00 **Grs Therms:** 1.00 **Grs kW:** 0.00 **NTG:** 0.80**End Use:** Other **Units:** Therm **Life:** 20 **Incentive:** \$0.60**Msr Cost:** \$0.95**Measure Life Type:** RET **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

Cost Comment (03/15/07 04:55pm) - See "BEEP Project_ Summary File 2006.xls"

Msr # 314012 Desc: PER Misc. Process Equip. Replacement**Grs kWh:** 0.00 **Grs Therms:** 1.00 **Grs kW:** 0.00 **NTG:** 0.80**End Use:** Other **Units:** Therm **Life:** 20 **Incentive:** \$0.65**Msr Cost:** \$5.47**Measure Life Type:** ROB **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

General Comment (10/03/06 04:22pm) - See Boiler-FoodService-LV_Rack-Addition.pdf

Cost Comment (03/15/07 05:03pm) - See "BEEP Project_ Summary File 2006.xls"

Msr # 314013 Desc: CPI Equip. Modernization**Grs kWh:** 0.00 **Grs Therms:** 1.00 **Grs kW:** 0.00 **NTG:** 0.80**End Use:** Other **Units:** Therm **Life:** 20 **Incentive:** \$0.65**Msr Cost:** \$0.88**Measure Life Type:** RET **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

Cost Comment (03/15/07 04:52pm) - See "BEEP Project_ Summary File 2006.xls"

**Southern California Gas Company
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Local Business Energy Efficiency Program (NRF4)**Msr # 314016 Desc: EER Combination Oven****Grs kWh:** 0.00**Grs Therms:** 403.00**Grs kW:** 0.00**NTG:** 1.00**End Use:** Cooking**Units:** Unit**Life:** 12**Incentive:** \$750.00**Msr Cost:** \$21,797.00**Measure Life Type:** ROB**Climate Zone:** Region-wide**Baseline Vintage:** No vintage distinction

General Comment (11/09/05 03:11pm) - Life derived from Food Service Gas Measure Workpapers 11-08-05.xls

Savings Comment (11/10/05 03:11pm) - Savings derived from Food Service Gas Measure Workpapers 11-08-05.xls

Cost Comment (11/11/05 03:11pm) - IMC derived from Food Service Gas Measure Workpapers 11-08-05.xls

General Comment (10/03/06 04:22pm) - See Boiler-FoodService-LV_Rack-Addition.pdf

Msr # 314042 Desc: Grant (SPC Equivalent Measure)**Grs kWh:** 0.00**Grs Therms:** 1.00**Grs kW:** 0.00**NTG:** 0.80**End Use:** Space Cooling/Heating**Units:** Therm**Life:** 15**Incentive:** \$0.50**Msr Cost:** \$4.61**Measure Life Type:** RET**Climate Zone:** Region-wide**Baseline Vintage:** No vintage distinctionCost Comment (03/15/07 04:54pm) - See "BEEP Project_ Summary File 2006.xls"

Msr # 314050 Desc: PER Boiler Replacement**Grs kWh:** 0.00**Grs Therms:** 1.00**Grs kW:** 0.00**NTG:** 1.00**End Use:** Space Cooling/Heating**Units:** Therm**Life:** 20**Incentive:** \$0.65**Msr Cost:** \$2.44**Measure Life Type:** RET**Climate Zone:** Region-wide**Baseline Vintage:** No vintage distinctionGeneral Comment (10/03/06 04:22pm) - See Boiler-FoodService-LV_Rack-Addition.pdf

Home Efficiency Rebate Program (SFR4)

Msr # 315002 Desc: Gas Storage Water Heater (EF>= 0.62)
Grs kWh: 0.00 **Grs Therms:** 11.22 **Grs kW:** 0.00 **NTG:** 0.89
End Use: Water Heating **Units:** Hot Water Tank **Life:** 13 **Incentive:** \$30.00 **Msr Cost:** \$175.30
Measure Life Type: ROB **Climate Zone:** Riverside **Baseline Vintage:** No vintage distinction
DEER Run ID: RSFM10AVWHGTa **Weight %:** 100 **Name:** High Efficiency Water Heater
Savings Comment (01/04/06 08:42am) - Used Riverside climate zone as forecast climate zone

Msr # 315003 Desc: Central Gas Furnace 90% AFUE
Grs kWh: 0.00 **Grs Therms:** 34.56 **Grs kW:** 0.00 **NTG:** 0.89
End Use: Space Cooling/Heating **Units:** 72 kBtuh unit **Life:** 18 **Incentive:** \$100.00 **Msr Cost:** \$479.52
Measure Life Type: ROB **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction
DEER Run ID: RSFm1075RFC90 **Weight %:** 50 **Name:** Condensing 90 AFUE (1.11 HIR) Furnace
DEER Run ID: RSFm1085RFC90 **Weight %:** 50 **Name:** Condensing 90 AFUE (1.11 HIR) Furnace
Savings Comment (11/04/05 02:03pm) - Used Riverside climate zone as forecast climate zone - Used 72 Kbtu as the common unit per DEER

Msr # 315004 Desc: Attic Insulation
Grs kWh: 0.16 **Grs Therms:** 0.03 **Grs kW:** 0.00 **NTG:** 0.89
End Use: Space Cooling/Heating **Units:** sqft **Life:** 20 **Incentive:** \$0.15 **Msr Cost:** \$0.76
Measure Life Type: RET **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction
DEER Run ID: RSFm1075RCV30 **Weight %:** 50 **Name:** Ceiling Vintage to R-30 Insulation-Batts
DEER Run ID: RSFm1085RCV30 **Weight %:** 50 **Name:** Ceiling Vintage to R-30 Insulation-Batts
Savings Comment (10/27/05 07:52pm) - Savings are converted to per square foot consistent with program and IMC. Used Riverside climate zone as representative climate zone for the forecast.

Msr # 315005 Desc: Wall Insulation
Grs kWh: 0.41 **Grs Therms:** 0.10 **Grs kW:** 0.00 **NTG:** 0.89
End Use: Space Cooling/Heating **Units:** sqft **Life:** 20 **Incentive:** \$0.15 **Msr Cost:** \$1.32
Measure Life Type: RET **Climate Zone:** Riverside **Baseline Vintage:** Built before 1978
DEER Run ID: RSFm1075RW413 **Weight %:** 100 **Name:** Wall Blow-In R-0 to R-13 Insulation
Savings Comment (10/27/05 07:56pm) - Converted from per 1,000 sqft to sqft

**Southern California Gas Company
December 2006 Activity Workpapers****Home Efficiency Rebate Program (SFR4)****Msr # 315006 Desc: Energy Star Labeled Dishwasher Tier I EF=0.62****Grs kWh:** 0.00 **Grs Therms:** 5.30 **Grs kW:** 0.00 **NTG:** 0.80**End Use:** Water Heating **Units:** Dishwasher **Life:** 13 **Incentive:** \$30.00**Msr Cost:** \$183.64**Measure Life Type:** ROB **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction**DEER Run ID:** RSFM00AVDW215 **Weight %:** 100 **Name:** Energy Star Dish Washer

Savings Comment (11/08/05 05:38pm) - See "Dishwasher Workpapers.xls"

Cost Comment (11/09/05 05:38pm) - See "Dishwasher Workpapers.xls"

Msr # 315008 Desc: Clothes Washer Tier I**Grs kWh:** 0.00 **Grs Therms:** 19.65 **Grs kW:** 0.00 **NTG:** 0.80**End Use:** Water Heating **Units:** Clothes Washer, (**Life:** 14 **Incentive:** \$35.00**Msr Cost:** \$246.14**Measure Life Type:** ROB **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction**DEER Run ID:** RRes00AVC3T1D **Weight %:** 100 **Name:** Energy Star Clothes Washer - 3.5 cf**Msr # 315014 Desc: Central Gas Furnace 92% AFUE****Grs kWh:** 0.00 **Grs Therms:** 40.18 **Grs kW:** 0.00 **NTG:** 0.89**End Use:** Space Cooling/Heating **Units:** 72 kBtuh unit **Life:** 18 **Incentive:** \$200.00**Msr Cost:** \$549.36**Measure Life Type:** ROB **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction**DEER Run ID:** RSFm1075RFC92 **Weight %:** 50 **Name:** Condensing 92 AFUE (1.08 HIR) Furnace**DEER Run ID:** RSFm1085RFC92 **Weight %:** 50 **Name:** Condensing 92 AFUE (1.08 HIR) Furnace

Savings Comment (11/11/05 06:33pm) - Used Riverside climate zone as forecast climate zone - Used 72 Kbtu as the common unit per DEER

**Southern California Gas Company
December 2006 Activity Workpapers****Advanced Home Program (EED4)****Msr # 316007 Desc: Single Family, Maximum Cooling Capacity, CZ 8****Grs kWh:** 246.15 **Grs Therms:** 13.39 **Grs kW:** 0.27 **NTG:** 0.80**End Use:** Space Cooling/Heating **Units:** Dwelling Unit **Life:** 15 **Incentive:** \$150.00 **Msr Cost:** \$225.00**Measure Life Type:** NEW **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

Savings Comment (05/20/05 09:38am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

Cost Comment (05/21/05 09:38am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

Msr # 316018 Desc: Single Family, Verified Ducting System, CZ 9**Grs kWh:** 271.96 **Grs Therms:** 14.98 **Grs kW:** 0.30 **NTG:** 0.80**End Use:** Space Cooling/Heating **Units:** Dwelling Unit **Life:** 18 **Incentive:** \$100.00 **Msr Cost:** \$125.00**Measure Life Type:** NEW **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

General Comment (01/03/06 07:29am) - Changed per May 13th 2005 DEER Measure Life Update

Savings Comment (01/04/06 07:29am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

Cost Comment (01/05/06 07:29am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

Msr # 316019 Desc: Single Family, Verified Ducting System, CZ 10**Grs kWh:** 543.93 **Grs Therms:** 20.62 **Grs kW:** 0.60 **NTG:** 0.80**End Use:** Space Cooling/Heating **Units:** Dwelling Unit **Life:** 18 **Incentive:** \$100.00 **Msr Cost:** \$125.00**Measure Life Type:** NEW **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

General Comment (05/19/05 09:40am) - Changed per May 13th 2005 DEER Measure Life Update

Savings Comment (05/20/05 09:40am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

Cost Comment (05/21/05 09:40am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

Msr # 316022 Desc: Single Family, Verified Ducting System, CZ 15**Grs kWh:** 2,874.58 **Grs Therms:** 9.87 **Grs kW:** 3.15 **NTG:** 0.80**End Use:** Space Cooling/Heating **Units:** Dwelling Unit **Life:** 18 **Incentive:** \$100.00 **Msr Cost:** \$125.00**Measure Life Type:** NEW **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

General Comment (01/03/06 07:29am) - Changed per May 13th 2005 DEER Measure Life Update

Savings Comment (01/04/06 07:29am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

Cost Comment (01/05/06 07:29am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

**Southern California Gas Company
December 2006 Activity Workpapers****Advanced Home Program (EED4)****Msr # 316028 Desc: Single Family, Quality Insulation Installation, CZ 9****Grs kWh:** 254.75 **Grs Therms:** 14.45 **Grs kW:** 0.28 **NTG:** 0.80**End Use:** Space Cooling/Heating **Units:** Dwelling Unit **Life:** 20 **Incentive:** \$175.00 **Msr Cost:** \$300.00**Measure Life Type:** NEW **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

Savings Comment (01/04/06 07:31am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

Cost Comment (01/05/06 07:31am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

Msr # 316029 Desc: Single Family, Quality Insulation Installation, CZ 10**Grs kWh:** 468.19 **Grs Therms:** 38.41 **Grs kW:** 0.51 **NTG:** 0.80**End Use:** Space Cooling/Heating **Units:** Dwelling Unit **Life:** 20 **Incentive:** \$175.00 **Msr Cost:** \$300.00**Measure Life Type:** NEW **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

Savings Comment (05/20/05 09:40am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

Cost Comment (05/21/05 09:40am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

Msr # 316065 Desc: Multi-family, Verified Ducting System, CZ 6**Grs kWh:** 4.50 **Grs Therms:** 5.68 **Grs kW:** 0.00 **NTG:** 0.80**End Use:** Space Cooling/Heating **Units:** Dwelling Unit **Life:** 18 **Incentive:** \$60.00 **Msr Cost:** \$100.00**Measure Life Type:** NEW **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

General Comment (01/03/06 07:46am) - Changed per May 13th 2005 DEER Measure Life Update

Savings Comment (01/04/06 07:46am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

Cost Comment (01/05/06 07:46am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

Msr # 316068 Desc: Multi-family, Verified Ducting System, CZ 9**Grs kWh:** 137.15 **Grs Therms:** 6.14 **Grs kW:** 0.15 **NTG:** 0.80**End Use:** Space Cooling/Heating **Units:** Dwelling Unit **Life:** 18 **Incentive:** \$60.00 **Msr Cost:** \$100.00**Measure Life Type:** NEW **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

General Comment (05/19/05 09:42am) - Changed per May 13th 2005 DEER Measure Life Update

Savings Comment (05/20/05 09:42am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

Cost Comment (05/21/05 09:42am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

Advanced Home Program (EED4)**Msr # 316075** **Desc:** Multi-family, High Quality Insulation Installation, CZ 6**Grs kWh:** 9.74 **Grs Therms:** 5.91 **Grs kW:** 0.01 **NTG:** 0.80**End Use:** Space Cooling/Heating **Units:** Dwelling Unit **Life:** 20 **Incentive:** \$50.00 **Msr Cost:** \$100.00**Measure Life Type:** NEW **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

Savings Comment (01/04/06 07:48am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

Cost Comment (01/05/06 07:48am) - See "Advanced Home Workpapers.xls" and "Advanced Home Measure Potential Study.doc"

**Southern California Gas Company
December 2006 Activity Workpapers**

Education & Training Program (EET4)

Msr # 318004 Desc: Burners and burner related equipment
Grs kWh: **Grs Therms:** 516,111.00 **Grs kW:** **NTG:** 0.80
End Use: Other **Units:** projects **Life:** 20 **Incentive:** **Msr Cost:** \$405,000.0
Measure Life Type: RET **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction
Cost Comment (03/15/07 04:36pm) - See "Industrial Education 2006.xls"
Savings Comment (03/15/07 09:56pm) - See "Industrial Education.ppt"

Msr # 318005 Desc: Equipment repair/upgrades
Grs kWh: **Grs Therms:** 1,301,235.00 **Grs kW:** **NTG:** 0.80
End Use: Other **Units:** Projects **Life:** 3 **Incentive:** **Msr Cost:** \$71,600.00
Measure Life Type: RET **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction
Cost Comment (03/15/07 04:35pm) - See "Industrial Education 2006.xls"
Savings Comment (03/15/07 09:57pm) - See "Industrial Education.ppt"

Msr # 318006 Desc: Maintenance and Tune-up
Grs kWh: **Grs Therms:** 125,074.00 **Grs kW:** **NTG:** 0.80
End Use: Other **Units:** Projects **Life:** 1 **Incentive:** **Msr Cost:** \$4,212.00
Measure Life Type: RET **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction
Cost Comment (03/15/07 04:38pm) - See "Industrial Education 2006.xls"
Savings Comment (03/15/07 09:57pm) - See "Industrial Education.ppt"

**Southern California Gas Company
December 2006 Activity Workpapers**

Codes & Standards Program (CS4)**Msr # 322001** **Desc:** C&S from Mahone Report - Therms**Grs kWh:** **Grs Therms:** 1.00 **Grs kW:** **NTG:** 0.50**End Use:** Other **Units:** **Life:** 10 **Incentive:****Msr Cost:** \$0.00**Measure Life Type:** **Climate Zone:** Region-wide **Baseline Vintage:** No vintage distinction

**Southern California Gas Company
December 2006 Activity Workpapers**

3P Laundry Coin-Op Program (LCO4)

Msr # 351001	Desc: MF, Gas Clothes Washer					
Grs kWh: 0.00	Grs Therms: 79.00	Grs kW: 0.00	NTG: 0.80			
End Use:	Units: Washing Machine	Life: 10	Incentive: \$136.50	Msr Cost: \$425.00		
Measure Life Type:	Climate Zone: Region-wide	Baseline Vintage: No vintage distinction				

Msr # 351002	Desc: NonRes, Gas Clothes Washer					
Grs kWh: 0.00	Grs Therms: 79.00	Grs kW: 0.00	NTG: 0.80			
End Use:	Units: Washing Machine	Life: 8	Incentive: \$136.50	Msr Cost: \$425.00		
Measure Life Type:	Climate Zone: Region-wide	Baseline Vintage: No vintage distinction				

Msr # 351003	Desc: NonRes, Gas Pipe Insulation					
Grs kWh: 0.00	Grs Therms: 9.00	Grs kW: 0.00	NTG: 0.80			
End Use:	Units: Installation	Life: 15	Incentive: \$40.00	Msr Cost: \$39.33		
Measure Life Type:	Climate Zone: Region-wide	Baseline Vintage: No vintage distinction				
