SOUTH DAKOTA ENERGY EFFICIENCY PLAN - 2011 OTTER TAIL POWER COMPANY June 16, 2010

	2011 Proposed Savings, Costs and Benefits				2011 Actual Savings, Costs and Benefits			
DIRECT IMPACT PROJECTS	ENERGY SAVINGS (KWH)	PROPOSED BUDGET	TOTAL BENEFITS	UTILITY NET BENEFITS	ENERGY SAVINGS (KWH)	ACTUAL BUDGET	TOTAL BENEFITS	UTILITY NET BENEFITS
RESIDENTIAL								
Residential Demand Control	3,587	\$5,000	\$76,337	\$71,337				
Air Source Heat Pumps - Residential	168,130	\$14,000	\$119,363	\$105,363				
Geothermal Heat Pumps - Residential	120,400	\$19,000	\$292,358	\$273,358				
Air Conditioning Control *	1,464	\$6,000	\$63,106	\$57,106				
Total - Residential	293,581	\$44,000	\$551,164	\$507,164				
COMMERCIAL								
Grant	967,500	\$74,000	\$684,700	\$610,700				
Motors	37,733	\$10,000	\$32,060	\$22,060				
Lighting	280,094	\$30,000	\$246,323	\$216,323				
Air Source Heat Pumps - Commercial	184,943	\$25,000	\$134,835	\$109,835				
Geothermal Heat Pumps - Commercial	350,719	\$45,000	\$806,144	\$761,144				
Total - Commercial	1,820,989	\$184,000	\$1,904,060	\$1,720,060				
Total - Direct Impact	2,114,570	\$228,000	\$2,455,224	\$2,227,224				
INDIRECT IMPACT PROJECTS	1							
Advertising & Education	0	\$10,000	\$0	(\$10,000)				
Development	0	\$25,000	\$0	(\$25,000)				
Total - Indirect Impact	0	\$35,000	\$0	(\$35,000)				
TOTAL - ALL PROGRAMS	2,114,570	\$263,000	\$2,455,224	\$2,192,224				

^{*} Air conditioning programs include summer load reductions, which are not coincident to the system winter-peak Programs evaluted using DSMore software, no environmental externalities used, all dollars discounted to 2011

SOUTH DAKOTA ENERGY EFFICIENCY PLAN - 2011 OTTER TAIL POWER COMPANY

APPENDIX B

Table 3

Calculated Values Based on Pre-Year Inputs

Incentive Plan Forecast

Original Budget \$263,000 Energy Savings Goal at Original Budget

2,114,570

Multiplier for each 10% of energy savings goal

0.342770%

((Budget x 30 percent) / Projected Net benefits @ 150% of goal) / 7

Estimated Net Benefits at Proposed Filing \$2.192.224

Calculation of Estimated Incentive

Derived Numbers Give the Percent of Net Benefits Awarded at Different Percentages of Energy Savings Goal

			Estimated	
			Benefits	Estimated
Percent of KWH Savings Goal	kWh Savings	Percent of Base	Achieved	Incentive
90 % of savings goal	1,903,113	0.34277%	\$1,973,002	\$6,763
100 % of savings goal	2,114,570	0.68554%	\$2,192,224	\$15,029
110 % of savings goal	2,326,027	1.02831%	\$2,411,446	\$24,797
120 % of savings goal	2,537,484	1.37108%	\$2,630,669	\$36,069
130 % of savings goal	2,748,941	1.71385%	\$2,849,891	\$48,843
140 % of savings goal	2,960,398	2.05662%	\$3,069,114	\$63,120
150 % of savings goal	3,171,855	2.39939%	\$3,288,336	\$78,900

Incentive cap = 30% of budget	\$263,000
	30%
	\$78,900

Determine incentive - post year

Inputs from previous sheet results (or enter arbitrary numbers for calculating and viewing)

2010 Actual Energy Savings Achieved 2.114.570 100.00%

2010 Actual Expenditures \$263,000 2010 Actual Net Benefits \$2.192.224

Actual percentage applied to net benefits 0.69% Percent of actual net benefits \$15.029

Incentive not to go negative or to exceed incentive CAP

Calculated Incentive \$15,029