

## CUSTOMER RATE IMPACT CALCULATION

### Energy Efficiency Adjustment Rate Calculation

3 Year South Dakota Plan	Electric Residential	Electric Non-Residential
Plan Development Costs	\$ 61,033	\$ 79,314
Program Costs	\$ 1,056,663	\$ 1,373,165
Lost Margin Recovery @ 30%	\$ 316,999	\$ 411,949
Total	\$ 1,434,695	\$ 1,864,429
Forecasted Three Year Sales Units	1,598,331,000 kWh	2,242,348,302 kWh
<b>Proposed Rate</b>	<b>\$ 0.0009 /kWh</b>	<b>\$ 0.0008 /kWh</b>

## RESIDENTIAL CUSTOMER BILL IMPACT

**\$6.48 annual, or \$0.54 monthly (~.8%), impact – No program adoption  
(\$127) net annual savings (14.6%) – Refrigerator Pick-up program adoption**

## RESIDENTIAL CUSTOMER MONTHLY BILL IMPACT CALCULATION

LINE NO.	RESIDENTIAL CUSTOMER	ELECTRIC RATES	ESTIMATED MONTHLY	TOTAL
1				
2	<u>Current Monthly Electric Bill</u>			
3				
4	Customer Charge - Monthly Base Rate	\$ 8.25000	1 mos	\$ 8.25
5	Energy Charge - Base Rate	\$ 0.10200 x	600 KWh	\$ 61.20
6	Energy Cost Adjustment	\$ 0.00496 x	600 KWh	\$ 2.98
7	Current Total Bill			\$ 72.43
8				
9				
10	<u>Example Energy Efficiency Electric Bill - Residential Refrigerator Pick-up Program</u>			
11				
12	Service and Facility - Monthly Base Rate	\$ 8.25000	1 mos	\$ 8.25
13	Energy Charge - Base Rate	\$ 0.10200 x	600 KWh	\$ 61.20
14	Average Energy Charge Savings - Refrigerator Pick-up	\$ 0.10200	(103) KWh	\$ (10.53)
15	Energy Cost Adjustment (ECA)	\$ 0.00496 x	600 KWh	\$ 2.98
16	Average ECA Savings - Refrigerator Pick-up Program	\$ 0.00496	(103) KWh	\$ (0.51)
17	Bill Sub-Total			\$ 61.38
18	Energy Efficiency Charge	\$ 0.0009		\$ 0.45
19	Example Energy Efficiency Total Bill			\$ 61.83
20				
21				
22	Projected Average Savings (line 7 - line 19)			\$ 10.60

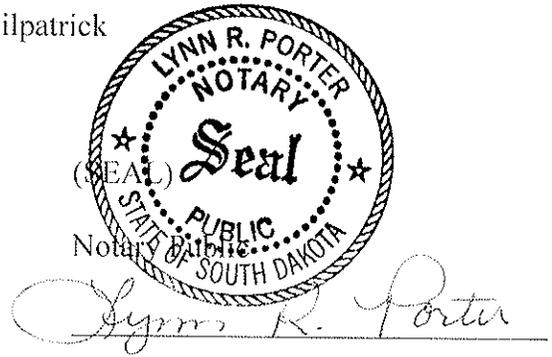
1 STATE OF SOUTH DAKOTA )

2 COUNTY OF PENNINGTON )

3 I, Christopher J. Kilpatrick, being duly sworn, do hereby depose and say that I am  
4 the Director of Rates for Black Hills Corporation; that I am authorized to act on  
5 tariff and rate matters for Black Hills Power, Inc.; that the testimony supporting  
6 the Company's Energy Efficiency Solutions Adjustment Tariff in this proceeding  
7 is mine; and the facts set forth therein are true and correct to the best of my  
8 knowledge, information, and belief.

9 By: *Christopher J. Kilpatrick*  
10 Christopher J. Kilpatrick

11  
12 Signed and sworn to me on this 25<sup>th</sup> day of January 2011 by Christopher J.  
13 Kilpatrick



14  
15  
16  
17  
18 My Commission expires: 12/1/14