

Northern States Power Company
 Electric Utility - South Dakota
VOLTAGE DISCOUNT ANALYSIS
Demand Charge

ocket No. EL14_____
 Exhibit____(JPG-1), Schedule 5
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	Distribution Cost - 2014	Secondary	Primary	Transmission Transformed	Total
1	Sec - Line 34	\$1,820			\$1,820
2	Pri - Line 33	\$1,605	\$365		\$1,970
3	Sub - Line 32	\$1,895	\$531		\$2,426
4	Total	\$5,321	\$896	\$0	\$6,216

Billing KW

5	Sec	2,629			2,629
6	Pri	2,629	582		3,211
7	Sub	2,629	582		3,211

Losses

8	Sec	1.0000		
9	Pri	1.0207	1.0000	
10	Sub	1.0368	1.0157	1.0000

Billing KW with Losses

11	Sec	2,629			2,629
12	Pri	2,684	582		3,266
13	Sub	2,726	591	0	3,317

Cost per kW - 2014

14	Sec (1) / (11)	\$0.69			\$0.69	(a)
15	Pri (2) / (12)	\$0.61	\$0.63		\$0.60	(b)
16	Sub (3) / (13)	\$0.72	\$0.91		\$0.73	(c)

Demand Voltage Discount

	2014 Cost	Present	Proposed
Primary (a)	\$0.69	\$0.70	\$0.70
Tr Transformed (a) + (b)	\$1.30	\$1.40	\$1.35
Transmission (a) + (b) + (c)	\$2.03	\$2.00	\$2.00

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Energy Charge

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	Secondary	Primary	Transmission Transformed	Transmission
1 Loss Difference	0.00%	2.29%	4.62%	4.80%
<u>Proposed General Service - per kWh</u>				
2 Base Energy and Fuel	6.434 ¢	6.287 ¢	6.134 ¢	6.114 ¢
<u>Proposed Energy Voltage Discount - per kWh</u>				
3 Discount from Secondary		0.147 ¢	0.300 ¢	0.320 ¢
Present Discounts		0.109 ¢	0.260 ¢	0.280 ¢