## **NWE SD LIGHTING COST ANALYSIS - 09/30/14**

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# NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 1 - RATE 19 - U10 RESIDENTIAL REDDY-GUARD SUMMARY RESULTS

Line No.	Α	В	С	D	E	F	G	н	ı	J	к	L	М	N	0	Р	Q	R	s
1 2 3 4 5			NG STATIST	ics		Lumens	кwн/мо		SCALED TOT \$ INSTALLED	NET PLANT	ANNUAL KWH	ANNUAL UNITS	BASE	CURRENT MONTHLY CHARGE (1)					
7 8 9 10 11 12 13	Unmetere RR001 RR002 RR003 RR004 RR005 RR006 RR007	HPS HPS HPS HPS HPS HPS HPS	35 50 100 150 250 400 1000			4,095 5,850 11,700 17,550 29,250 46,800 117,000	14.07 19.77 49.58 69.68 107.87 166.16 389.94		\$0 \$46 \$69 \$124 \$136 \$139 \$0	\$0 \$68 \$6,384 \$18,764 \$3,464 \$1,368 \$0	711 115,329 271,999 70,178 37,894	0 36 2,262 3,786 614 229 0	\$120 \$11,374 \$19,856 \$4,550 \$2,016	\$3.19622 \$3.32325 \$5.02952 \$5.24555 \$7.42098 \$8.76245 \$18.33081					
16 17	RR010 RR011 RR012 RR013	MV MV MV	175 250 400 1000			8,750 12,500 20,000 50,000	72.36 100.84 158.79 380.23		\$201 \$214 \$0 \$0	\$123,846 \$2,418 \$0 \$0	1,070,927 27,619	14,914 272 0 0	\$49,782 \$1,151	\$3.33768 \$4.22287 \$6.27156 \$11.89056					
20 21	RR014 RR015 RR016	MH MH MH	175 250 400			21,750 34,800 87,000	68.68 97.15 153.43		\$0 \$198 \$303	\$0 \$485 \$149	4,607 4,037	0 60 35	\$263 \$210	\$3.41723 \$4.30244 \$6.38729					
25 26 27 28 29									TOTAL CHECK TOTAL	\$156,946 \$156,946	1,603,301 1,603,301	22,208 22,208	\$89,322 \$89,322						
30 31	Rev Code	e	Watts			Lumens	KWH/MO		SCALED TOT \$ INSTALLED	NET PLANT	ANNUAL KWH	ANNUAL UNITS	ANNUAL BASE REVENUES	MONTHLY CHARGE (1)					
34 35 36 37 38 39 40 41	Metered RR100 RR101 RR102 RR103 RR104 RR105 RR106	HPS HPS HPS HPS HPS HPS	35 50 100 150 250 400 1000			4,095 5,850 11,700 17,550 29,250 46,800 117,000	14.07 19.77 49.58 69.68 107.87 166.16 389.94		\$0 \$46 \$69 \$124 \$136 \$139 \$0	\$0 \$159 \$1,419 \$9,898 \$466 \$753 \$0	1,897 23,402 137,966 9,061 20,105	0 96 472 1,980 84 121	\$281 \$1,894 \$7,918 \$442 \$660	\$2.90 \$2.90 \$4.00 \$4.00 \$5.20 \$5.45 \$10.10					
44 45	RR110 RR111 RR112 RR113	MV MV MV	175 250 400 1000			8,750 12,500 20,000 50,000	72.36 100.84 158.79 380.23		\$201 \$214 \$0 \$0	\$70,755 \$631 \$0 \$0	623,671 7,361	8,619 73 0 0	\$15,947 \$167	\$1.85 \$2.30 \$2.90 \$4.85					
48	RR114 RR115 RR116	MH MH MH	250 400 1000			21,750 34,800 87,000	68.68 97.15 153.43		\$0 \$198 \$0	\$0 \$97 \$0	1,263	0 13 0	\$63	\$1.85 \$2.30 \$2.90					
51 52 53 54 55 56 57 58 59 60 61	NOTES		it monthly ch	arge exclu	ides fuel, ad	valorem, and t	transmission by		TOTAL CHECK TOTAL charge.	\$84,177 \$84,177	824,727 824,727	11,458 11,458	\$27,372 \$27,372						

<sup>(1)</sup> Current monthly charge excludes fuel, ad valorem, and transmission by others charge.

## NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 1 - RATE 19 - U10 RESIDENTIAL REDDY-GUARD SUMMARY RESULTS

Line F М Р В С D Ε G Н J Κ L Ν 0 Q R s No. Α UNMETERED ALLOCATED COSTS RESULTS PROD **TRANS** DIST TOT PTDG LIGHTING LIGHTING COST BASED CAPPED PERCENT CALCULATED PROPOSED CURRENT INCR/DECR 2 ANNUAL ANNUAL (WO LTG) NOE NOE PLANT CALCULATED PROPOSED EXISTING INCREASE/ ANNUAL ANNUAL ANNUAL 3 (Excl Fuel) ANNUAL \$0.00513 \$0.00235 \$0.03849 --- MONTHLY CHARGES (1) ---DECREASE REVENUES REVENUES REVENUES REVENUES 4 Rev Code Watts UNITS KWH \$0.01850 \$0.02598 \$0.02707 \$0.00962 Cap Adjustment Factors 6 Unmetered (0.25)0.45 **HPS** 35 0 \$0.07 \$0.03 \$0.26 \$0.37 \$0.38 \$0.54 RR001 8 0 \$0.07 \$0.03 \$0.26 \$0.37 \$0.38 \$0.54 \$1.29 \$4.00 \$3.20 25.00% \$0 \$0 \$0 9 RR002 **HPS** 50 711 \$3.65 \$1.67 \$13.15 \$18.47 \$19.25 \$27.37 \$120 36 \$0.76 \$4.15 25.00% \$65 \$150 10 \$0.10 \$0.05 \$0.37 \$0.51 \$0.53 \$1.81 \$3.32 \$29 RR003 **HPS** 100 115,329 \$591.64 \$271.02 \$2,133.59 \$2,996.25 \$3,121.96 \$4,439.01 11 12 2,262 \$0.26 \$0.12 \$0.94 \$1.32 \$1.38 \$1.96 \$4.67 \$6.29 \$5.03 25.00% \$10,557 \$14,221 \$11,374 \$2,846 **HPS** 271.999 \$639.20 13 RR004 150 \$1,395.35 \$5,031.98 \$7.066.53 \$7.363.01 \$10,469,24 14 3,786 \$0.37 \$0.17 \$1.33 \$1.87 \$1.94 \$2.77 \$6.58 \$6.56 \$5.25 24.99% \$24,899 \$24,823 \$19,856 \$4,967 15 RR005 **HPS** 250 70,178 \$360.01 \$164.92 \$1,298.29 \$1,823.22 \$1,899.72 \$2,701.15 \$0.59 \$0.27 \$2.11 \$2.97 \$3.09 \$10.46 \$10.00 \$7.42 34.79% \$6,424 \$6,142 \$4,550 \$1,591 16 614 \$4.40 17 RR006 **HPS** 400 37.894 \$194.40 \$89.05 \$701.04 \$984.49 \$1.025.79 \$1,458,54 18 229 \$0.85 \$0.39 \$3.06 \$4.30 \$4.48 \$6.37 \$15.15 \$12.71 \$8.76 45.00% \$3,469 \$2,910 \$2,016 \$893 HPS \$0.92 \$10.56 19 RR007 1000 0 \$2.00 \$7.21 \$10.13 \$15.01 20 0 \$2.00 \$0.92 \$7.21 \$10.13 \$10.56 \$15.01 \$35.70 \$26.58 \$18.33 45.00% \$0 \$0 \$0 21 22 RR010 MV 175 1,070,927 \$5,493.86 \$2,516.68 \$19,812.15 \$27,822.68 \$28.989.99 \$10,305.00 23 14,914 \$0.37 \$0.17 \$1.33 \$1.94 \$0.69 \$4.50 \$4.32 \$3.34 29.44% \$67,118 \$64,433 \$49.782 \$14.652 \$1.87 24 RR011 MV 250 27,619 \$141.69 \$64.90 \$510.95 \$717.54 \$747.65 \$265.76 25 272 \$0.52 \$0.24 \$1.88 \$2.64 \$2.75 \$0.98 \$6.36 \$6.12 \$4.22 45.00% \$1,731 \$1,666 \$1,151 \$514 26 RR012 MV 400 0 \$0.81 \$0.37 \$2.94 \$4.13 \$4.30 \$0.70 27 0 \$0.81 \$0.37 \$2.94 \$4.13 \$4.30 \$0.70 \$9.12 \$9.09 \$6.27 45.00% \$0 \$0 \$0 1000 \$0.89 \$7.03 \$9.88 \$10.29 28 RR013 MV 0 \$1.95 \$0.70 29 0 \$1.95 \$0.89 \$7.03 \$9.88 \$10.29 \$0.70 \$20.87 \$17.24 \$11.89 45.00% \$0 \$0 \$0 30 31 RR014 МН 175 0 \$0.35 \$0.16 \$1.27 \$1.78 \$1.86 \$2 64 32 0 \$0.35 \$0.16 \$1.27 \$1.78 \$1.86 \$2.64 \$6.29 \$4.95 \$3.42 45.00% \$0 \$0 \$0 33 RR015 MH 250 4,607 \$23.63 \$10.83 \$85.23 \$119.69 \$124.71 \$177.32 34 60 \$0.39 \$0.18 \$1.42 \$1.99 \$2.08 \$2.96 \$7.03 \$6.24 \$4.30 45.00% \$422 \$374 \$263 \$112 35 RR016 MH 400 4,037 \$20.71 \$9.49 \$74.68 \$104.88 \$109.28 \$155.38 36 35 \$0.59 \$0.27 \$2.13 \$3.00 \$3.12 \$4.44 \$10.56 \$9.26 \$6.39 45.00% \$370 \$324 \$210 \$114 37 38 TOTAL 22,208 1,603,301 **REV REQ** \$41,680 \$43,429 \$29,999 \$115,054 \$115,042 \$89,322 \$25,720 39 CHECK \$41,654 \$43,401 \$19,428 \$104,483 Present Revenues \$89,322 40 \$26 \$27 \$10,571 \$73.26 Increase \$25,720

NOTES

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<sup>(1)</sup> Current monthly charge excludes fuel, ad valorem, and transmission by others charge

<sup>(2)</sup> Revenue Codes with no annual kWh calculate monthly charges based on kWh/Mo rating from Table 7

## NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 1 - RATE 19 - U10 RESIDENTIAL REDDY-GUARD SUMMARY RESULTS

С D F М Р Α В Ε G Н J Κ L Ν 0 Q R s No. METERED ALLOCATED COSTS RESULTS PROD **TRANS** DIST TOT PTDG LIGHTING LIGHTING COST BASED CAPPED PERCENT CALCULATED PROPOSED CURRENT INCR/DECR 2 (WO LTG) ANNUAL ANNUAL (Excl Fuel) NOE NOE PLANT CALCULATED PROPOSED EXISTING INCREASE/ ANNUAL ANNUAL ANNUAL 3 ANNUAL \$0.00000 --- MONTHLY CHARGES (1) ---DECREASE REVENUES REVENUES REVENUES REVENUES 4 Rev Code Watts UNITS KWH \$0.01698 \$0.03593 \$0.00000 Cap Adjustment Factors 6 Metered (0.25)0.45 **HPS** 35 0 \$0.00 \$0.00 \$0.00 \$0.00 \$0.24 \$0.51 7 RR100 8 0 \$0.00 \$0.00 \$0.00 \$0.00 \$0.24 \$0.51 \$0.74 \$3.63 \$2.90 25.00% \$0.00 \$0 \$0 9 RR101 **HPS** 50 1,897 \$0.00 \$0.00 \$0.00 \$0.00 \$32.21 \$68.18 \$281 96 \$0.00 \$3.63 25.00% \$348 \$67 10 \$0.00 \$0.00 \$0.00 \$0.34 \$0.71 \$1.05 \$2.90 \$100.39 RR102 11 **HPS** 100 23,402 \$0.00 \$0.00 \$0.00 \$0.00 \$397.26 \$840.83 12 472 \$0.00 \$0.00 \$0.00 \$0.00 \$0.84 \$1.78 \$2.62 \$5.00 \$4.00 25.00% \$1,238.09 \$2,360 \$1,894 \$466 HPS 137.966 \$0.00 \$0.00 13 RR103 150 \$0.00 \$0.00 \$2.342.07 \$4,957.13 14 1,980 \$0.00 \$0.00 \$0.00 \$0.00 \$1.18 \$2.50 \$3.69 \$5.00 \$4.00 25.00% \$7,299,20 \$9.900 \$7,918 \$1,982 15 RR104 **HPS** 250 9,061 \$0.00 \$0.00 \$0.00 \$0.00 \$153.82 \$325.56 16 \$0.00 \$0.00 \$0.00 \$0.00 \$1.83 \$3.88 \$5.71 \$5.71 \$5.20 9.80% \$479.38 \$480 \$442 \$38 84 17 RR105 HPS 400 20,105 \$0.00 \$0.00 \$0.00 \$0.00 \$341.30 \$722.39 18 121 \$0.00 \$0.00 \$0.00 \$0.00 \$2.82 \$5.97 \$8.79 \$7.90 \$5.45 45.00% \$1,063.69 \$956 \$660 \$296 \$0.00 \$6.62 19 RR106 HPS 1000 0 \$0.00 \$0.00 \$0.00 \$14.01 20 0 \$0.00 \$0.00 \$0.00 \$0.00 \$6.62 \$14.01 \$20.63 \$14.65 \$10.10 45.00% \$0.00 \$0 \$0 21 \$10,587.22 22 RR110 MV 175 623,671 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 23 8.619 \$0.00 \$0.00 \$0.00 \$0.00 \$1.23 \$0.00 \$1.23 \$2.31 \$1.85 25.00% \$10.587.22 \$19.931 \$15.947 \$3.985 24 RR111 MV 250 7,361 \$0.00 \$0.00 \$0.00 \$0.00 \$124.96 \$0.00 25 73 \$0.00 \$0.00 \$0.00 \$0.00 \$1.71 \$0.00 \$1.71 \$2.88 \$2.30 25.00% \$124.96 \$210 \$167 \$43 26 RR112 MV 400 0 \$0.00 \$0.00 \$0.00 \$0.00 \$2.70 \$0.00 27 0 \$0.00 \$0.00 \$0.00 \$0.00 \$2.70 \$0.00 \$2.70 \$3.63 \$2.90 25.00% \$0.00 \$0 \$0 28 RR113 1000 \$0.00 \$0.00 \$6.45 MV 0 \$0.00 \$0.00 \$0.00 29 0 \$0.00 \$0.00 \$0.00 \$0.00 \$6.45 \$0.00 \$6.45 \$6.45 \$4.85 33.08% \$0.00 \$0 \$0 30 31 RR114 МН 250 0 \$0.00 \$0.00 \$0.00 \$0.00 \$1.17 \$2 47 32 0 \$0.00 \$0.00 \$0.00 \$0.00 \$1.17 \$2.47 \$3.63 \$3.34 \$1.85 80.41% \$0.00 \$0 \$0 \$21.44 33 RR115 MH 400 1,263 \$0.00 \$0.00 \$0.00 \$0.00 \$45.38 \$63 34 13 \$0.00 \$0.00 \$0.00 \$0.00 \$1.65 \$3,49 \$5.14 \$4.20 \$2.30 82.39% \$66.82 \$55 (\$8)35 RR116 MH 1000 0 \$0.00 \$0.00 \$0.00 \$0.00 \$2.60 \$5.51 36 0 \$0.00 \$0.00 \$0.00 \$0.00 \$2.60 \$5.51 \$8.12 \$4.21 \$2.90 45.00% \$0.00 \$0 \$0 37 38 TOTAL 11,458 824,727 **REV REQ** \$0 \$14,020 \$6,959 \$20,960 \$34,240 \$27,372 \$6,867 39 CHECK \$0 \$14,000 \$6,959 \$20,960 Present Revenues \$27,372 40 Difference due to no kWh in light units \$0 \$20 \$0 \$42.28 \$6,867

> Proposed Total Rate 19 U10 \$149,282 Current Total Rate 19 U10 \$116,695 Increase \$32,587

#### NOTES

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Line

- (1) Current monthly charge excludes fuel, ad valorem, and transmission by others charge.
- (2) Metered plant costs per lamp are not included in metered rates since they are metered and included with the customer;s service bill.
- (3) Revenue Codes with no annual kWh calculate monthly charges based on kWh/Mo rating from Table 7

## NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 2 - RATE 19 - U20 COMMERCIAL REDDY-GUARD SUMMARY RESULTS

Line Р Q В С D Ε F G Н Κ M Ν 0 R s No. J L BILLING STATISTICS **SCALED** PLANT ANNUAL CURRENT 2 NET ANNUAL ANNUAL MONTHLY 3 TOT \$ BASE 4 Rev Code Watts Lumens KWH/MO INSTALLED PLANT **KWH** UNITS **REVENUES CHARGE (1)** 6 Unmetered 7 RC001 HPS 35 4.095 14.07 \$39 \$19 177 12 \$40 \$3,19622 8 RC002 HPS 50 5,850 19.77 \$46 \$23 385 \$14 \$3.32325 9 RC003 HPS 100 11,700 49.58 \$69 \$5,168 93,824 1,834 \$9,223 \$5.02952 10 RC004 HPS 150 17,550 69.68 \$124 \$29,512 405,269 5,740 \$30,117 \$5.24555 5,947 11 RC005 HPS 250 29,250 107.87 \$136 \$33,378 644.541 \$44,131 \$7.42098 12 RC006 HPS 759.600 4.598 400 46.800 166.16 \$139 \$26,749 \$40.281 \$8.76245 13 RC007 HPS 1000 117,000 389.94 \$183 \$628 37,791 97 \$1,777 \$18.33081 14 15 RC010 MV 175 8.750 72.36 \$201 \$123,056 1,033,451 14,538 \$48,524 \$3,33768 16 RC011 MV 12,500 100.84 \$214 \$7,149 750 \$3,170 \$4.22287 250 75,889 17 RC012 MV 400 20,000 158.79 \$253 \$4,590 439 \$2,748 \$6.27156 69,511 18 RC013 MV 1000 50,000 380.23 \$0 \$0 0 \$11.89056 19 20 RC014 MH 175 15,225 68.68 \$0 \$0 0 \$3,41723 21 RC015 MH 21,750 97.15 890 \$3,818 \$4.30244 250 \$167 \$5,978 95,134 22 RC016 MH 400 34,800 153.43 \$198 \$18,902 392,163 2,289 \$14,609 \$6.38729 23 RC017 MH 1000 87,000 380.23 \$303 \$7,442 216,492 570 \$6,771 \$11.89056 24 25 TOTAL \$262,592 3,824,227 37,708 \$205,223 26 CHECK TOTAL \$262,592 3,824,227 37,708 \$205,223 27 28 29 **SCALED** PLANT ANNUAL CURRENT 30 ANNUAL ANNUAL BASE MONTHLY 31 TOT \$ NET KWH/MO INSTALLED PLANT UNITS **REVENUES CHARGE (1)** 32 Rev Code Watts Lumens KWH 33 34 Metered 35 RC100 HPS 35 4,095 14.07 \$0 \$0 \$0 \$2.90 \$1,231 36 RC101 HPS 50 5.850 19.77 \$46 \$795 8.400 425 \$2.90 37 RC102 HPS 100 11,700 49.58 \$69 \$2,094 34,656 699 \$2,794 \$4.00 38 RC103 HPS 17,550 69.68 \$124 \$12,449 168,486 2,418 \$9,675 \$4.00 150 39 RC104 HPS 29,250 107.87 \$136 \$21,319 414,976 3,847 \$20,001 \$5.20 250 46,800 40 RC105 HPS \$19,292 533,872 3,213 \$17,506 400 166.16 \$139 \$5 45 41 RC106 HPS 1000 117,000 389.94 \$183 \$1,076 56,541 145 \$1,471 \$10.10 42 43 RC110 MV 175 8,750 72.36 \$201 \$42,927 369,687 5,109 \$9,451 \$1.85 44 RC111 MV 250 12,500 100.84 \$214 \$3,785 44,367 440 \$1,012 \$2.30 153 45 RC112 MV 400 20,000 158.79 \$253 \$1,613 24.295 \$443 \$2.90 46 RC113 MV 1000 50,000 380.23 \$367 \$180 4,563 12 \$59 \$4.85 48 RC114 MH 175 15,225 68.68 \$0 \$0 Λ \$1.85 49 RC115 MH 250 21,750 97.15 \$167 \$4,176 50,712 522 \$2,720 \$2.30 50 RC116 MH 400 34,800 153.43 \$198 \$8,918 169,387 1,104 \$6,011 \$2.90 51 TOTAL 52 \$118,622 1,879,943 18,087 \$72,374 53 CHECK TOTAL \$118,622 1,879,943 18,087 \$72,374 54 55 NOTES:

55 NOTES 56 (1

<sup>(1)</sup> Current monthly charge excludes fuel, ad valorem, and transmission by others charge

## NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 2 - RATE 19 - U20 COMMERCIAL REDDY-GUARD SUMMARY RESULTS

Line В С D Ε F G Н Κ М Ν 0 Q R s No. **UNMETERED ALLOCATED COSTS RESULTS** В DIST TOT PTDG LIGHTING LIGHTING COST BASED CAPPED PERCENT CALCULATED PROPOSED CURRENT INCR/DECR 2 PROD **TRANS** ANNUAL ANNUAL (WO LTG) PLANT CALCULATED PROPOSED EXISTING INCREASE/ ANNUAL ANNUAL ANNUAL 3 (Excl Fuel) NOE NOE ANNUAL 4 Rev Code Watts UNITS **KWH** \$0.00513 \$0.00235 \$0.01850 \$0.02598 \$0.02707 \$0.03849 --- MONTHLY CHARGES (1) ---DECREASE REVENUES REVENUES REVENUES REVENUES \$0.00962 Cap Adjustment Factors (0.25)0.45 6 Unmetered RC001 HPS 35 177 \$0.91 \$0.42 \$3.27 \$4.60 \$4.79 \$6.81 12 \$0.08 \$0.03 \$0.27 \$0.38 \$0.40 \$0.57 \$1.35 \$4.00 \$3.20 25.00% \$16 \$48 \$40 \$8 9 RC002 HPS 50 385 \$1.98 \$0.90 \$7.12 \$10.00 \$10.42 \$14.82 10 4 \$0.49 \$0.23 \$1.78 \$2.50 \$2.61 \$3.70 \$8.81 \$4.15 \$3.32 24.84% \$35 \$17 \$14 \$3 11 RC003 HPS 100 93,824 \$481.32 \$220.49 \$1,735.74 \$2,437.55 \$2,539.82 \$3,611,29 \$0.26 \$0.12 \$0.95 \$1.33 25.00% \$8,589 \$11,530 12 1,834 \$1.38 \$1.97 \$4.68 \$6.29 \$5.03 \$9,223 \$2,307 13 RC004 HPS \$10,528.89 \$10,970.63 \$15,598.80 150 405,269 \$2,079.03 \$952.38 \$7,497.48 14 5.740 \$0.36 \$0.17 \$1.31 \$1.83 \$1.91 \$2.72 \$6.46 \$6.56 \$5.25 25.12% \$37.098 \$37.672 \$30.117 \$7.555 15 RC005 HPS 250 644,541 \$3,306.50 \$1,514.67 \$11,924.01 \$16,745.18 \$17,447.72 \$24,808.38 \$0.25 5,947 \$0.56 \$2.01 \$2.82 \$2.93 \$4.17 \$9.92 \$10.00 \$7.42 34.77% \$59,001 \$59,477 \$44,131 \$15,346 16 17 RC006 HPS 400 759,600 \$3,896.75 \$1,785.06 \$14.052.60 \$19.734.41 \$20.562.37 \$29,237.00 \$12.71 45.00% \$69,534 18 4,598 \$0.85 \$0.39 \$3.06 \$4.29 \$4.47 \$6.36 \$15.12 \$8.76 \$58,420 \$40,281 \$18,139 19 RC007 HPS 1000 37.791 \$193.87 \$88.81 \$699.13 \$981.81 \$1.023.00 \$1,454,58 20 97 \$2.00 \$0.92 \$7.21 \$10.12 \$10.55 \$15.00 \$35.66 \$26.58 \$18.33 45.00% \$3,459 \$2,578 \$1,777 \$801 21 22 RC010 MV \$2,428.61 \$19,118.84 \$26,849.06 \$27,975.52 \$9,944.38 175 1,033,451 \$5,301.60 23 14,538 \$0.36 \$0.17 \$1.32 \$1.85 \$1.92 \$0.68 \$4.46 \$4.32 \$3.34 29.29% \$64,769 \$62,734 \$48,524 \$14,210 \$1.971.60 24 RC011 MV 250 75.889 \$389.31 \$178.34 \$1,403,95 \$2.054.32 \$730.24 25 750 \$0.52 \$0.24 \$1.87 \$2.63 \$2.74 \$0.97 \$6.34 \$6.12 \$4.22 45.00% \$4.756 \$4.592 \$3,170 \$1,422 26 RC012 MV 400 69,511 \$356.59 \$163.35 \$1,285.95 \$1,805.90 \$1,881.66 \$668.87 439 \$2.93 \$4.11 \$4.29 \$4,356 \$3,992 27 \$0.81 \$0.37 \$1.52 \$9.92 \$9.09 \$6.27 45.00% \$2,748 \$1,244 28 RC013 MV 1000 \$1.95 \$9.88 \$10.29 \$0.70 0 \$0.89 \$7.03 29 0 \$1.95 \$0.89 \$7.03 \$9.88 \$10.29 \$0.70 \$20.87 \$17.24 \$11.89 45.00% \$0 \$0 \$0 30 31 RC014 MH 175 0 \$0.35 \$0.16 \$1.27 \$1.78 \$1.86 \$2.64 0 \$0 32 \$0.35 \$0.16 \$1.27 \$1.78 \$1.86 \$2.64 \$6.29 \$4.95 \$3.42 45.00% \$0 \$0 33 RC015 MH 250 95,134 \$488.04 \$223.56 \$1,759.98 \$2,471.58 \$2,575.28 \$3,661,71 34 890 \$0.55 \$0.25 \$1.98 \$2.78 \$2.89 \$9.78 \$6.24 \$4.30 45.00% \$8,709 \$5.552 \$3.818 \$1,735 \$4.11 \$7,255.02 \$10,188.39 \$10,615.85 \$15,094.35 35 RC016 MH 400 392,163 \$2,011.80 \$921.58 36 2,289 \$0.88 \$0.40 \$3.17 \$4.45 \$4.64 \$6.59 \$15.68 \$9.26 \$6.39 45.00% \$35,899 \$21,200 \$14,609 \$6,591 37 RC017 MH 1000 216,492 \$1,110.60 \$508.76 \$4,005.10 \$5,624.46 \$5,860.44 \$8,332.78 38 570 \$1.95 \$7.03 \$9.87 \$10.28 \$14.62 \$34.77 \$17.24 \$11.89 45.00% \$19,818 \$9,828 \$6,771 \$0.89 \$3,056 39 40 TOTAL 37,708 3,824,227 **REV REQ** \$99 365 \$103 534 \$103,220 \$316,039 \$277,640 \$205,223 \$72,417 41 CHECK \$99.353 \$103.522 \$101.821 \$304.696 Present Revenues \$205,223

\$12

\$12

\$1,399

\$27.15

Increase

\$72,417

55 NOTES:

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<sup>(1)</sup> Current monthly charge excludes fuel, ad valorem, and transmission by others charge

<sup>(2)</sup> Revenue Codes with no annual kWh calculate monthly charges based on kWh/Mo rating from Table

#### NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 2 - RATE 19 - U20 COMMERCIAL REDDY-GUARD SUMMARY RESULTS

No. С D Ε G Κ М Ν 0 Q R s C METERED ALLOCATED COSTS RESULTS

- 1	C	MILIEKE	DALLOC	A I ED COS	I S KESULI														
2 3 4	Rev Code	<b>e</b>	Watts	ANNUAL UNITS	ANNUAL KWH	PROD (Excl Fuel)	TRANS	DIST (WO LTG)	NOE \$0.00000	NOE \$0.01698		COST BASED CALCULATED F			INCREASE/	CALCULATED ANNUAL REVENUES	PROPOSED ANNUAL REVENUES	CURRENT ANNUAL REVENUES	INCR/DECR ANNUAL REVENUES
5		•							40.0000	40.0.000	\$0.00000	Cap Adjustm		(.)					
6	Metered										ψ0.00000	(0.25)	0.45						
	RC100		35		0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.24	\$0.51	(0.23)	0.43						
Ω	110100	0	55	0	O	\$0.00	\$0.00	\$0.00	\$0.00	\$0.24	\$0.51	\$0.74	\$3.63	\$2.90	25.00%	\$0	\$0	\$0	\$0
۵	RC101	HPS	50		8,400	\$0.00	\$0.00	\$0.00	\$0.00	\$142.60	\$301.82	Ψ0.74	ψ3.03	Ψ2.90	25.00 /6	ΨΟ	ΨΟ	ΨΟ	ΨΟ
10	KCIOI	111-3	30	425	0,400	\$0.00	\$0.00	\$0.00	\$0.00	\$0.34	\$0.71	\$1.05	\$3.63	\$2.90	25.00%	\$444	\$1,541	\$1,231	\$310
	RC102	пре	100		34,656	\$0.00	\$0.00	\$0.00	\$0.00	\$588.32	\$1,245.21	ψ1.05	ψ3.03	Ψ2.90	25.00 /6	ψ <del>444</del>	Ψ1,541	ψ1,231	ψ310
12	102	111-3	100	699	34,030	\$0.00	\$0.00	\$0.00	\$0.00	\$0.84	\$1.78	\$2.62	\$5.00	\$4.00	25.00%	\$1,834	\$3,495	\$2,794	\$701
	RC103	пре	150		168,486	\$0.00	\$0.00	\$0.00	\$0.00	\$2,860.16	\$6,053.71	Ψ2.02	ψ3.00	φ4.00	25.00 /6	ψ1,034	ψ5,435	Ψ2,134	Ψ/01
14	103	111-3	130	2,418	100,400	\$0.00	\$0.00	\$0.00	\$0.00	\$1.18	\$2.50	\$3.69	\$5.00	\$4.00	25.00%	\$8,914	\$12,090	\$9,675	\$2,415
	RC104	пре	250		414,976	\$0.00	\$0.00	\$0.00	\$0.00		\$14,910.08	ψ5.09	ψ3.00	φ4.00	25.00 /6	ψ0,514	\$12,030	ψ9,075	Ψ2,413
16	110104	0	250	3.847	414,570	\$0.00	\$0.00	\$0.00	\$0.00	\$1.83	\$3.88	\$5.71	\$5.71	\$5.20	9.80%	\$21,955	\$21,965	\$20,001	\$1,964
	RC105	HPS	400		533,872	\$0.00	\$0.00	\$0.00	\$0.00		\$19,182.02	ψ5.7 1	ψ3.7 1	Ψ3.20	3.0070	Ψ21,000	Ψ21,303	Ψ20,001	Ψ1,504
18	110105	0	700	3,213	333,072	\$0.00	\$0.00	\$0.00	\$0.00	\$2.82	\$5.97	\$8.79	\$7.90	\$5.45	45.00%	\$28,245	\$25,391	\$17,506	\$7,885
	RC106	HPS	1000		56.541	\$0.00	\$0.00	\$0.00	\$0.00	\$959.83	\$2,031.53	ψ0.73	Ψ1.50	ψ5.45	43.0070	Ψ20,243	Ψ20,001	Ψ17,500	Ψ1,000
20	100	111-3	1000	145	30,341	\$0.00	\$0.00	\$0.00	\$0.00	\$6.62	\$14.01	\$20.63	\$14.65	\$10.10	45.00%	\$2,991	\$2,124	\$1,471	\$653
21				145		φυ.υυ	Ψ0.00	Ψ0.00	Ψ0.00	ψ0.02	Ψ14.01	Ψ20.03	ψ14.05	Ψ10.10	45.00 /6	Ψ2,991	Ψ2,124	Ψ1,471	ψ055
	RC110	MV	175		369,687	\$0.00	\$0.00	\$0.00	\$0.00	\$6,275.68	\$0.00								
23	110110	IVIV	175	5.109	303,007	\$0.00	\$0.00	\$0.00	\$0.00	\$1.23	\$0.00	\$1.23	\$2.31	\$1.85	25.00%	\$6,276	\$11,815	\$9.451	\$2,363
	RC111	MV	250		44,367	\$0.00	\$0.00	\$0.00	\$0.00	\$753.17	\$0.00	Ψ1.23	Ψ2.51	Ψ1.05	25.0070	Ψ0,270	Ψ11,013	Ψ5,451	Ψ2,303
25	KOIII	IVIV	250	440	44,507	\$0.00	\$0.00	\$0.00	\$0.00	\$1.71	\$0.00	\$1.71	\$2.88	\$2.30	25.00%	\$753	\$1,265	\$1.012	\$253
	RC112	MV	400		24,295	\$0.00	\$0.00	\$0.00	\$0.00	\$412.42	\$0.00	Ψ1.71	Ψ2.00	Ψ2.50	25.0070	Ψ133	Ψ1,203	Ψ1,012	Ψ233
27	110112		100	153	2-1,200	\$0.00	\$0.00	\$0.00	\$0.00	\$2.70	\$0.00	\$2.70	\$3.63	\$2.90	25.00%	\$412	\$555	\$443	\$111
	RC113	MV	1000		4,563	\$0.00	\$0.00	\$0.00	\$0.00	\$77.45	\$0.00	Ψ2.7 Ο	ψ0.00	Ψ2.00	20.0070	Ψ112	φοσο	Ψ110	Ψιιι
29			.000	12	.,000	\$0.00	\$0.00	\$0.00	\$0.00	\$6.45	\$0.00	\$6.45	\$6.45	\$4.85	33.08%	\$77	\$77	\$59	\$19
30						ψ0.00	ψ0.00	ψ0.00	Ψ0.00	ψ00	Ψ0.00	ψο. 10	ψ0.10	ψσ	00.0070	Ψ	Ψ	<b>QUO</b>	Ψ.0
	RC114	МН	175		0	\$0.00	\$0.00	\$0.00	\$0.00	\$1.17	\$2.47								
32				0		\$0.00	\$0.00	\$0.00	\$0.00	\$1.17	\$2.47	\$3.63	\$2.68	\$1.85	45.00%	\$0	\$0		\$0
	RC115	МН	250		50,712	\$0.00	\$0.00	\$0.00	\$0.00	\$860.87	\$1,822.09	** **	•	•		* -	* -		• •
34				522	,	\$0.00	\$0.00	\$0.00	\$0.00	\$1.65	\$3.49	\$5.14	\$3.34	\$2.30	45.00%	\$2,683	\$1,741	\$2,720	(\$979)
35	RC116	МН	400		169,387	\$0.00	\$0.00	\$0.00	\$0.00	\$2,875.45	\$6,086.06	* -	*	•		* ,	* /	• ,	(** -/
36				1.104	,	\$0.00	\$0.00	\$0.00	\$0.00	\$2.60	\$5.51	\$8.12	\$4.20	\$2.90	44.66%	\$8.962	\$4,631	\$6,011	(\$1,380)
37				.,		72.20	<b></b>	+50	41.50			+-··=	Ţ <u>20</u>	<b>+</b> =.00		7-,-02	Ţ.,= <b>0</b> .	+-,5	(+ : , 5)
	TOTAL			18,087	1,879,943			REV REQ	\$0	\$31,915	\$51,633					\$83,546	\$86,689	\$72,374	\$14,315
39				-,	,,			CHECK	\$0	\$31,913	\$51,633				Pre	sent Revenues	\$72,374	. ,	* ,
40						Difference di	ue to no kWh			\$1	\$0						\$14,315		
								-									•		

Proposed Total Rate 19 U20 Current Total Rate 19 U20 \$277,598 Increase \$86,732

48 49

58 59 60

Line

(1) Current monthly charge excludes fuel, ad valorem, and transmission by others charge
(2) Metered plant costs per lamp are not included in metered rates since they are metered and included with the customer;s service bi
(3) Revenue Codes with no annual kWh calculate monthly charges based on kWh/Mo rating from Table

#### NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 3 - RATE 19 - U30 PUBLIC LIGHTING SUMMARY RESULTS

Line В Ε Р Q С D G Н Κ L M Ν 0 No. Α **BILLING STATISTICS** Α SCALED 2 TOT \$ NET ANNUAL ANNUAL BASE MONTHLY 3 4 **Rev Code** Watts Lumens KWH/MO INSTALLED PLANT KWH UNITS **REVENUES CHARGE (1)** 6 Unmetered 7 RM001 HPS 35 4.095 14.07 \$0 \$0 0 \$3.20 8 RM002 HPS 50 5,850 19.77 \$0 \$0 0 \$3.32 9 RM003 HPS 100 11,700 49.58 \$0 \$0 0 \$5.03 10 RM004 HPS 150 17,550 69.68 \$146 \$286 3,433 48 \$269 \$5.25 11 RM005 250 29,250 107.87 4 \$31 \$7.42 HPS \$0 \$0 0 12 RM006 HPS 400 46.800 \$0 \$0 0 \$8.76 166.16 13 RM007 HPS \$0 1000 117,000 389.94 \$0 0 \$18.33 14 \$222 15 RM010 MV 175 8,750 72.36 \$218 892 31 \$106 \$3.34 16 RM011 MV 250 12,500 100.84 \$0 0 \$4.22 \$0 17 RM012 MV 400 20,000 158.79 \$0 \$0 0 \$6.27 18 RM013 \$0 \$0 0 MV 1000 50,000 380.23 \$11.89 19 \$0 20 RM014 MH 175 15,225 68.68 \$0 0 \$3.42 21 RM015 MH 250 21,750 97.15 \$0 \$0 \$7.65 0 22 RM016 MH 400 34,800 153.43 \$324 \$159 2,054 14 \$107 \$9.04 23 24 25 TOTAL \$663 6,379 97 \$514 26 CHECK TOTAL \$663 6,379 97 \$514 27 28 29 **SCALED** ANNUAL CURRENT 30 31 ANNUAL ANNUAL BASE MONTHLY TOT \$ NET INSTALLED UNITS **REVENUES CHARGE (1)** 32 Rev Code Watts KWH/MO PLANT Lumens KWH 33 34 Metered 35 RM100 HPS 4,095 14.07 \$0 \$0 0 \$2.90 35 36 RM101 HPS 5.850 \$0 \$0 0 \$2.90 50 19.77 37 RM102 HPS 100 11,700 49.58 \$183 \$179 1,091 22 \$98 \$4.00 38 RM103 HPS 150 17,550 69.68 \$0 \$0 0 \$4.00 39 RM104 HPS 250 29,250 107.87 \$0 \$0 0 \$5.20 40 RM105 \$0 \$0 0 HPS 400 46,800 166.16 \$5.45 117,000 389.94 \$0 \$0 0 \$10.10 41 RM106 HPS 1000 42 43 RM110 MV 175 8,750 72.36 \$0 \$0 0 \$1.85 44 RM111 MV 250 12,500 100.84 \$0 \$0 0 \$2.30 45 RM112 20,000 158.79 \$0 \$0 0 \$2.90 MV 400 46 RM113 50,000 380.23 \$0 \$0 0 \$4.85 MV 1000 47 48 RM114 MH 175 15,225 68.68 \$0 \$0 0 \$1.85 49 RM115 MH 250 21,750 97.15 \$40 \$19 1,263 13 \$69 \$2.30 50 RM116 MH 400 34,800 153.43 \$0 \$0 0 \$2.90 51 52 **TOTAL** \$199 2,354 35 \$167 53 CHECK TOTAL 35 \$199 2.354 \$167 54 55 NOTES:

56

<sup>(1)</sup> Current monthly charge excludes fuel, ad valorem, and transmission by others charge

# NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 3 - RATE 19 - U30 PUBLIC LIGHTING SUMMARY RESULTS

Line No. В С D Ε G L N 0 Q

^	-			-	•	·		•	•		_	•••	.,	·	•	~		
В	UNN	IETERED AL	LOCATED	COSTS RES														
			ANNUAL	ANNUAL	PROD (Excl Fuel)	TRANS	DIST (WO LTG)	NOE	LIGHTING NOE	PLANT	COST BASED		FYISTING	INCREASE/	CALCULATED ANNUAL	ANNUAL	ANNUAL	INCR/DECR ANNUAL
Rev C	ode	Watts	UNITS	KWH	\$0.00513	\$0.00235	\$0.01850	\$0.02598	\$0.02707	\$0.03849		ILY CHARGES			REVENUES	REVENUES	REVENUES	
					• • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	***************************************	• • • • •	\$0.00962	Cap Adjustm	nent Factors						
Unme RM00		25		0	¢0.07	<b>¢</b> 0.02	<b>©</b> 0.00	¢0.27	<b>የ</b> ດ ວດ	<b>CO E 4</b>	(0.25)	0.45						
KIVIUU	I HPS	35	0	U	\$0.07 \$0.07	\$0.03 \$0.03	\$0.26 \$0.26	\$0.37 \$0.37	\$0.38 \$0.38	\$0.54 \$0.54	\$1.29	\$4.00	\$3.20	25.00%	\$0	\$0		\$0
RM002	2 HPS	50		0	\$0.10	\$0.05	\$0.37	\$0.51	\$0.54	\$0.76		ψ4.00	ψ0.20	20.0070	ΨΟ	ΨΟ		ΨΟ
			0		\$0.10	\$0.05	\$0.37	\$0.51	\$0.54	\$0.76	\$1.81	\$4.15	\$3.32	25.00%	\$0	\$0		\$0
RM003	B HPS	100	0	0	\$0.25 \$0.25	\$0.12 \$0.12	\$0.92 \$0.92	\$1.29 \$1.29	\$1.34 \$1.34	\$1.91 \$1.91	\$4.54	\$6.29	\$5.03	25.00%	\$0	\$0		\$0
RM004	4 HPS	150		3,433	\$17.61	\$8.07	\$63.51	\$89.19	\$92.93	\$132.14	φ4.54	\$0.29	φ5.03	25.00%	Φ0	φυ		Φ0
			48	•	\$0.37	\$0.17	\$1.32	\$1.86	\$1.94	\$2.75	\$6.55	\$6.56	\$5.25	25.00%	\$314	\$315	\$269	\$45
RM00	5 HPS	250		0	\$0.55	\$0.25	\$2.00	\$2.80	\$2.92	\$4.15	<b>.</b>					• • •	•••	
RM00	B HPS	400	4	0	\$0.14 \$0.85	\$0.06 \$0.39	\$0.50 \$3.07	\$0.70 \$4.32	\$0.73 \$4.50	\$1.04 \$6.40	\$2.47	\$10.00	\$7.42	34.70%	\$10	\$40	\$31	\$9
KIVIOO	, 111-3	400	0	U	\$0.85	\$0.39	\$3.07	\$4.32	\$4.50	\$6.40		\$12.71	\$8.76	45.00%	\$0	\$0		\$0
RM00	7 HPS	1000		0	\$2.00	\$0.92	\$7.21	\$10.13	\$10.56	\$15.01	, -	•	*		•	* -		•
			0		\$2.00	\$0.92	\$7.21	\$10.13	\$10.56	\$15.01	\$35.70	\$26.58	\$18.33	45.00%	\$0	\$0		\$0
RM010	) MV	175		892	\$4.58	\$2.10	\$16.50	\$23.17	\$24.15	\$8.58								
VIVIO IV	) IVIV	173	31	032	\$0.15	\$0.07	\$0.53	\$0.75	\$0.78	\$0.28	\$1.80	\$4.32	\$3.34	29.49%	\$56	\$134	\$106	\$28
RM01	1 MV	250		0	\$0.52	\$0.24	\$1.87	\$2.62	\$2.73	\$0.70		*	****				****	
		400	0		\$0.52	\$0.24	\$1.87	\$2.62	\$2.73	\$0.70		\$6.12	\$4.22	44.82%	\$0	\$0		\$0
M012	2 MV	400	0	0	\$0.81 \$0.81	\$0.37 \$0.37	\$2.94 \$2.94	\$4.13 \$4.13	\$4.30 \$4.30	\$0.70 \$0.70	\$9.12	\$9.09	\$6.27	45.00%	\$0	\$0		\$0
M01:	3 MV	1000		0	\$1.95	\$0.89	\$7.03	\$9.88	\$10.29	\$0.70		ψ9.09	φ0.27	45.00 /6	ΨΟ	ΨΟ		ΨΟ
			0		\$1.95	\$0.89	\$7.03	\$9.88	\$10.29	\$0.70	\$20.87	\$17.24	\$11.89	45.00%	\$0	\$0		\$0
M014	4 MH	175		0	\$0.35	\$0.16	\$1.27	\$1.78	\$1.86	\$2.64								
vio i-	+ 14111	173	0	U	\$0.35	\$0.16	\$1.27	\$1.78	\$1.86	\$2.64	\$6.29	\$4.95	\$3.42	45.00%	\$0	\$0		\$0
M01	5 <b>MH</b>	250		0	\$0.50	\$0.23	\$1.80	\$2.52	\$2.63	\$3.74								
		400	0	0.054	\$0.50	\$0.23	\$1.80	\$2.52	\$2.63	\$3.74	\$8.89	\$6.24	\$7.65	-18.42%	\$0	\$0		\$0
M016	6 <b>MH</b>	400	14	2,054	\$10.54 \$0.75	\$4.83 \$0.34	\$38.00 \$2.71	\$53.36 \$3.81	\$55.60 \$3.97	\$79.06 \$5.65		\$9.26	\$9.04	2.51%	\$188	\$130	\$107	\$23
					ψ0.73	ψ0.54	Ψ2.7 1	ψ0.01	ψ3.37	ψ3.03	ψ10.40	ψ3.20	Ψ5.04	2.5170	Ψ100	Ψ130	Ψ107	ΨΣΟ
OTAI	-		97	6,379			REV REQ	\$206		\$224					\$568	\$618	\$514	\$105
							CHECK	\$166 \$40	\$173 \$42	\$211 \$13				Pre	sent Revenues Increase			
								\$40	<b>\$42</b>	\$13	\$73.20				increase	\$105		
NOT	ES:																	
	(1) Curr				valorem, and													
	(2) Reve	enue Codes v	vith no ann	ual kWh calcu	ulate monthly	charges base	d on kWh/Mo	rating from T	able									

<sup>(1)</sup> Current monthly charge excludes fuel, ad valorem, and transmission by others charge (2) Revenue Codes with no annual kWh calculate monthly charges based on kWh/Mo rating from Table

#### NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 3 - RATE 19 - U30 PUBLIC LIGHTING SUMMARY RESULTS

Line No. В С D Ε G Κ L Ν 0

1 <b>C</b>	METE	RED ALLO	CATED CO	STS RESUL	.TS													
2			ANNUAL	ANNUAL	PROD (Excl Fuel)	TRANS	DIST (WO LTG)	TOT PTDG NOE	LIGHTING NOE	LIGHTING PLANT	COST BASED		EVICTING		CALCULATED ANNUAL	PROPOSED ANNUAL	CURRENT ANNUAL	INCR/DECR ANNUAL
4 Rev Co	de	Watts	UNITS	KWH	(Exci Fuel)		(WO LIG)	\$0.00000	\$0.01698	\$0.03593		ILY CHARGES			REVENUES	REVENUES		REVENUES
5	uc	mano	00					ψ0.00000	ψο.σ.τσσσ	\$0.00000	Cap Adjustm		( )	DEGREAGE	KEVENOLO	KETEMOLO	KEVENGEG	REVERGEO
6 Metered											-0.25	0.45						
7 RM101	HPS	50		0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.34	\$0.71								
8			0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.34	\$0.71	\$1.05	\$3.63	\$2.90	25.00%	\$0	\$0		\$0
9 RM102	HPS	100	•	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.84	\$1.78	00.00	<b>#</b> 5.00	04.00	05.000/	••	•		••
10 11 RM103	HPS	150	0	1.091	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.84 \$18.52	\$1.78 \$39.19	\$2.62	\$5.00	\$4.00	25.00%	\$0	\$0		\$0
12	пгэ	130	22	1,091	\$0.00	\$0.00	\$0.00	\$0.00	\$0.84	\$1.78	\$2.62	\$5.00	\$4.00	25.00%	\$58	\$110	\$98	\$12
13 RM104	HPS	250	22	0	\$0.00	\$0.00	\$0.00	\$0.00	\$1.83	\$3.88	Ψ2.02	ψ3.00	ψ4.00	23.00 /6	ψυσ	Ψ110	φθΟ	Ψ1Z
14	•	200	0	· ·	\$0.00	\$0.00	\$0.00	\$0.00	\$1.83	\$3.88	\$5.71	\$5.71	\$5.20	9.80%	\$0	\$0		\$0
15 RM105	HPS	400		0	\$0.00	\$0.00	\$0.00	\$0.00	\$2.82	\$5.97	• -	•	•		**	* -		**
16			0		\$0.00	\$0.00	\$0.00	\$0.00	\$2.82	\$5.97	\$8.79	\$7.90	\$5.45	45.00%	\$0	\$0		\$0
17 RM106	HPS	1000		0	\$0.00	\$0.00	\$0.00	\$0.00	\$6.62	\$14.01								
18			0		\$0.00	\$0.00	\$0.00	\$0.00	\$6.62	\$14.01	\$20.63	\$14.65	\$10.10	45.00%	\$0	\$0		\$0
19									4									
20 RM110	MV	175	•	0	\$0.00	\$0.00	\$0.00	\$0.00	\$1.23	\$0.00	04.00	00.04	04.05	05.000/	•			•
21 22 RM111	MV	250	0	0	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$1.23 \$1.71	\$0.00 \$0.00	\$1.23	\$2.31	\$1.85	25.00%	\$0	\$0		\$0
22 RIVITTI 23	IVIV	250	0	U	\$0.00	\$0.00	\$0.00	\$0.00	\$1.71 \$1.71	\$0.00	\$1.71	\$2.88	\$2.30	25.00%	\$0	\$0		\$0
24 RM112	MV	400	U	0	\$0.00	\$0.00	\$0.00	\$0.00	\$2.70	\$0.00	Ψ1.71	Ψ2.00	Ψ2.50	25.0070	ΨΟ	ΨΟ		ΨΟ
25			0	· ·	\$0.00	\$0.00	\$0.00	\$0.00	\$2.70	\$0.00	\$2.70	\$3.63	\$2.90	25.00%	\$0	\$0		\$0
26 RM113	MV	1000		0	\$0.00	\$0.00	\$0.00	\$0.00	\$6.45	\$0.00	•	• • • • • • • • • • • • • • • • • • • •	•		**	* -		* -
27			0		\$0.00	\$0.00	\$0.00	\$0.00	\$6.45	\$0.00	\$6.45	\$6.45	\$4.85	33.08%	\$0	\$0		\$0
28										_								
29 RM114	МН	175		0	\$0.00	\$0.00	\$0.00	\$0.00	\$1.17	\$2.47	00.00	00.00	04.05	45.000/	•			•
30 31 RM115	МН	250	0	0	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$1.17 \$1.65	\$2.47 \$3.49	\$3.63	\$2.68	\$1.85	45.00%	\$0	\$0		\$0
31 RM115 32	IVIH	250	0	U	\$0.00 \$0.00	\$0.00	\$0.00	\$0.00 \$0.00	\$1.65 \$1.65	\$3.49 \$3.49	\$5.14	\$3.34	\$2.30	45.00%	\$0	\$0		\$0
33 RM116	МН	400	U	1.263	\$0.00	\$0.00	\$0.00	\$0.00	\$21.44	\$45.38	ψ5.14	ψ3.34	Ψ2.50	45.00 /6	ΨΟ	ΨΟ		ΨΟ
34		-100	13	1,200	\$0.00	\$0.00	\$0.00	\$0.00	\$1.65	\$3.49	\$5.14	\$4.20	\$2.90	44.66%	\$67	\$55	\$69	(\$14)
35					*****	*****	******	******	*	******	*****	· · · · · ·	4		***	***	***	(+ · · /
36 TOTAL			35	2,354			REV REQ	\$0	\$67	\$85					\$125	\$164.54	\$166.86	(\$2.33)
37							CHECK	\$0	\$40	\$85				Pres	sent Revenues			
38					Difference d	lue to no kWh	n in light units	\$0	\$27	\$0	\$33.16				Decrease	(\$2.33)		
39																		
40																		

Proposed Total Rate 19 U20	\$681
Current Total Rate 19 U20	\$693
Decrease	(\$12

### NOTES:

58 59 60

(1) Current monthly charge excludes fuel, ad valorem, and transmission by others charge
(2) Metered plant costs per lamp are not included in metered rates since they are metered and included with the customer;s service bi
(3) Revenue Codes with no annual kWh calculate monthly charges based on kWh/Mo rating from Table

# NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 4 - RATE 56 - U30 DISTRIBUTION POLE SUMMARY RESULTS

Line No. В С D Ε G Н Κ L M 0 s

1	Α	DILLIN	IG STATISTICS									
2			Watts				SCALED TOT \$	NET	ANNUAL	ANNUAL	BASE	MONTHLY
R	ev Code	•	Company Owned (*)		Lumens	KWH/MO	INSTALLED	PLANT	KWH	UNITS	REVENUES	CHARGE (1)
SI	MD37	HPS	100 *	With Pole	11,700	49.58	\$572	\$74,970	77,386	1,550	\$7,793	\$5.03
	MD38	HPS	100		11,700	49.58	\$0	\$0	24,612	498	\$513	\$1.03
	MD39 MD40	HPS HPS	150 * 150	With Pole	17,550 17,550	69.68	\$654	\$700,123	882,832	13,052 292	\$68,463 \$425	\$5.25
	MD40 MD41	HPS	250 *	With Pole	29,250	69.68 107.87	\$0 \$672	\$0 \$199,690	19,620 377,291	3,547	\$425 \$26,338	\$1.45 \$7.42
	MD42	HPS	250	WILLIT OIG	29,250	107.87	\$0	\$133,030	188,135	1,789	\$3,973	\$2.22
	MD43	HPS	400 *	With Pole	46,800	166.16	\$679	\$18,327	52,651	326	\$2,860	\$8.76
	MD44	HPS	400		46,800	166.16	\$0	\$0	627,102	3,921	\$12,984	\$3.31
	MD45	HPS	1000 *	With Pole	117,000	389.94	\$0	\$0	0	0		\$18.33
i	MD46	HPS	1000		117,000	389.94	\$0	\$0	0	0		\$8.23
:1	MD47	MV	175 *	With Pole	8,750	72.36	\$766	\$1,985,952	2,202,890	30,864	\$103,010	\$3.34
	MD48	MV	175	William Old	8,750	72.36	\$0	\$0	190,918	2,827	\$4,207	\$1.49
	MD49	MV	250 *	With Pole	12,500	100.84	\$788	\$40,167	57,482	577	\$2,437	\$4.22
	MD50	MV	250		12,500	100.84	\$0	\$0	7,320	75	\$141	\$1.92
	/ID51	MV	400 *	With Pole	20,000	158.79	\$846	\$13,534	29,472	187	\$1,178	\$6.27
	/D52	MV	400	With Dala	20,000	158.79	\$0	\$0	9,820	62	\$208	\$3.37
	MD53 MD54	MV MV	1000 * 1000	With Pole	50,000 50,000	380.23 380.23	\$1,006 \$0	\$12,074 \$0	15,339 0	39 0	\$464	\$11.89 \$7.04
	WD34	IVIV	1000		50,000	300.23	Φυ	Φ0	U	U		\$7.04
ı	MD55	MH	250 *	With Pole	21,750	97.15	\$724	\$2,895	2,354	24	\$187	\$7.65
SI	MD56	MH	250		21,750	97.15	\$0	\$0	0	0		\$2.45
	MD57	MH	400 *	With Pole	34,800	153.43	\$776	\$776	2,061	13	\$122	\$9.04
١	/ID58	МН	400		34,800	153.43	\$0	\$0	0	0		\$3.59
							TOTAL	\$3,048,507	4,767,285	59,643	\$235,302	
							CHECK TOTAL		4,767,285	59,643	\$235,302	
								*-,-	, - ,	,-	*,	
							Company Owned		3,699,758	50,179	\$212,852	
							Customer Owned	\$0	1,067,527	9,464	\$22,450	
							Total	\$3,048,507	4,767,285	59,643	\$235,302	
	NOTES											
			it monthly charge excludes fue	el, ad valorem, and	transmission I	oy others charge.						
	( -		,	,		,						

<sup>(1)</sup> Current monthly charge excludes fuel, ad valorem, and transmission by others charge.

# NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 4 - RATE 56 - U30 DISTRIBUTION POLE SUMMARY RESULTS

	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S
1 2	В	ALLO	CATED COSTS RESUL Watts	TS ANNUAL	ANNUAL	PROD (Excl Fuel)	TRANS	DIST (WO LTG)	TOT PTDG NOE	LIGHTING NOE	LIGHTING PLANT	COST BASED CALCULATED		EXISTING	PERCENT INCREASE/	CALCULATED ANNUAL	PROPOSED ANNUAL	CURRENT ANNUAL	INCR/DECR ANNUAL
	Rev Code	•	Company Owned (*	UNITS	KWH	\$0.00357	\$0.00163	\$0.01297	\$0.01817 \$0.01241	\$0.08520	\$0.03132		ILY CHARGES	(1)	DECREASE	REVENUES	REVENUES	REVENUES	REVENUES
4 5			Customer Owned			\$0.00244	\$0.00111	\$0.00886	\$0.01241	\$0.00000	\$0.00542 \$0.00783	Cap Adjustn (0.25)	nent Factors 0.45						
6	SMD37	HPS	100 *		77,386	\$276.27	\$126.14	\$1,003.70	\$1,406.10	\$6,593.29	\$2,423.73	` ′							
7 8 \$	SMD38	HPS	100	1,550	24,612	\$0.18 \$60.05	\$0.08 \$27.32	\$0.65 \$218.06	\$0.91 \$305.43	\$4.25 \$0.00	\$1.56 \$133.40	\$6.72	\$6.72	\$5.03	33.70%	\$10,423	\$10,423	\$7,793	\$2,630
9	OIVIDOO			498	24,012	\$0.12	\$0.05	\$0.44	\$0.61	\$0.00	\$0.27	\$0.88	\$1.29	\$1.03	25.00%	\$439	\$641	\$513	\$128
10 S	SMD39	HPS	150 *	13,052	882,832	\$3,151.71 \$0.24	\$1,439.02 \$0.11	\$11,450.33 \$0.88	\$16,041.06 \$1.23	\$75,217.29 \$5.76	\$27,650.30 \$2.12	\$9.11	\$7.61	\$5.25	45.00%	\$118,909	\$99.274	<b>#CO_4CO</b>	\$30,811
	SMD40	HPS	150	13,032	19,620	\$47.87	\$21.78	\$173.83	\$243.48	\$0.00	\$106.34	<b>ф</b> 9.11	\$7.01	φυ.20	45.00%	\$110,909	\$99,274	\$68,463	φ3U,011
13	014044	upo	050 *	292	077.004	\$0.16	\$0.07	\$0.60	\$0.83	\$0.00	\$0.36	\$1.20	\$1.81	\$1.45	25.00%	\$350	\$528	\$425	\$102
14 S 15	SMD41	HPS	250 *	3,547	377,291	\$1,346.93 \$0.38	\$614.98 \$0.17	\$4,893.46 \$1.38	\$6,855.38 \$1.93	\$32,145.19 \$9.06	\$11,816.75 \$3.33	\$14.33	\$10.76	\$7.42	45.00%	\$50,817	\$38,167	\$26,338	\$11,829
16 \$	SMD42	HPS	250		188,135	\$459.05	\$208.83	\$1,666.88	\$2,334.76	\$0.00	\$1,019.69								
17 18 \$	SMD43	HPS	400 *	1,789	52,651	\$0.26 \$187.96	\$0.12 \$85.82	\$0.93 \$682.88	\$1.31 \$956.67	\$0.00 \$4,485.87	\$0.57 \$1,649.03	\$1.88	\$2.78	\$2.22	25.00%	\$3,354	\$4,967	\$3,973	\$994
19	OIVID-10			326	02,001	\$0.58	\$0.26	\$2.09	\$2.93	\$13.76	\$5.06	\$21.75	\$12.71	\$8.76	45.00%	\$7,092	\$4,142	\$2,860	\$1,282
20 S 21	SMD44	HPS	400	3,921	627,102	\$1,530.13 \$0.39	\$696.08 \$0.18	\$5,556.12 \$1.42	\$7,782.34 \$1.98	\$0.00 \$0.00	\$3,398.89 \$0.87	\$2.85	\$4.14	\$3.31	25.00%	\$11,181	\$16,235	\$12,984	\$3,251
	SMD45	HPS	1000 *	3,921	0	\$1.39	\$0.16	\$5.06	\$7.09	\$33.22	\$12.21	Ψ2.03	φ4.14	ψ3.31	23.00 /8	φ11,101	φ10,233	\$12,904	φ3,231
23 24 \$	SMD46	HPS	1000	0	0	\$1.39 \$0.95	\$0.64 \$0.43	\$5.06 \$3.45	\$7.09 \$4.84	\$33.22 \$0.00	\$12.21 \$2.11	\$52.52	\$26.58	\$18.33	45.00%	\$0	\$0		\$0
25	SIVID40	пгэ	1000	0	U	\$0.95	\$0.43	\$3.45 \$3.45	\$4.84	\$0.00	\$2.11	\$6.95	\$10.29	\$8.23	25.00%	\$0	\$0		\$0
26	01.15.1=		.== +						****										
27 S 28	SMD47	MV	175 *	30,864	2,202,890	\$7,864.32 \$0.25	\$3,590.71 \$0.12	\$28,571.48 \$0.93	\$40,026.51 \$1.30	187,686.23 \$6.08	\$17,248.63 \$0.56	\$7.94	\$4.84	\$3.34	45.00%	\$244,961	\$149,370	\$103,010	\$46,361
29	SMD48	MV	175	·	190,918	\$465.84	\$211.92	\$1,691.53	\$2,369.29	\$0.00	\$1,494.89			•					
30 31 \$	SMD49	MV	250 *	2,827	57,482	\$0.16 \$205.21	\$0.07 \$93.70	\$0.60 \$745.54	\$0.84 \$1,044.45	\$0.00 \$4,897.47	\$0.53 \$450.08	\$1.37	\$1.86	\$1.49	25.00%	\$3,864	\$5,257	\$4,207	\$1,050
32				577		\$0.36	\$0.16	\$1.29	\$1.81	\$8.49	\$0.78	\$11.08	\$6.12	\$4.22	45.00%	\$6,392	\$3,533	\$2,437	\$1,096
33 S 34	SMD50	MV	250	75	7,320	\$17.86 \$0.24	\$8.13 \$0.11	\$64.86 \$0.86	\$90.84 \$1.21	\$0.00 \$0.00	\$57.32 \$0.76	\$1.98	\$1.98	\$1.92	2.73%	\$148	\$148	\$141	\$7
	SMD51	MV	400 *	73	29,472	\$105.22	\$48.04	\$382.25	\$535.51	\$2,511.01	\$230.77	φ1.90	ψ1.50	ψ1.5Z	2.7370	\$140	ψ140	ψ1 <del>4</del> 1	Ψ
36	CMDEO	NA) /	100	187	0.000	\$0.56	\$0.26	\$2.04	\$2.86	\$13.43	\$1.23	\$17.53	\$9.09	\$6.27	45.00%	\$3,277	\$1,701	\$1,178	\$523
37 S 38	SMD52	MV	400	62	9,820	\$23.96 \$0.39	\$10.90 \$0.18	\$87.01 \$1.40	\$121.87 \$1.97	\$0.00 \$0.00	\$76.89 \$1.24	\$3.21	\$4.21	\$3.37	25.00%	\$199	\$261	\$208	\$54
	SMD53	MV	1000 *	00	15,339	\$54.76	\$25.00	\$198.95	\$278.71	\$1,306.88	\$120.10	040.74	047.04	<b>644.00</b>	45.000/	64 700	0070	0404	#000
40 41 \$	SMD54	MV	1000	39	0	\$1.40 \$0.93	\$0.64 \$0.42	\$5.10 \$3.37	\$7.15 \$4.72	\$33.51 \$0.00	\$3.08 \$0.00	\$43.74	\$17.24	\$11.89	45.00%	\$1,706	\$672	\$464	\$208
42				0		\$0.93	\$0.42	\$3.37	\$4.72	\$0.00	\$0.00	\$4.72	\$8.80	\$7.04	25.00%	\$0	\$0		\$0
43 44 S	SMD55	мн	250 *		2,354	\$8.40	\$3.84	\$30.53	\$42.77	\$200.56	\$73.73								
45				24		\$0.35	\$0.16	\$1.27	\$1.78	\$8.36	\$3.07	\$13.21	\$11.10	\$7.65	45.00%	\$317	\$266	\$187	\$79
46 S	SMD56	МН	250	0	0	\$0.24 \$0.24	\$0.11 \$0.11	\$0.86 \$0.86	\$1.21 \$1.21	\$0.00 \$0.00	\$0.53 \$0.53	\$1.73	\$3.07	\$2.45	25.00%	\$0	\$0		\$0
48 \$	SMD57	МН	400 *		2,061	\$7.36	\$3.36	\$26.73	\$37.45	\$175.60	\$64.55	•		•		**	* -		•
49 50 \$	SMD58	МН	400	13	0	\$0.57 \$0.37	\$0.26 \$0.17	\$2.06 \$1.36	\$2.88 \$1.90	\$13.51 \$0.00	\$4.97 \$0.83	\$21.35	\$13.10	\$9.04	45.00%	\$278	\$170	\$122	\$49
51	OIVIDOO		400	0	O O	\$0.37	\$0.17	\$1.36	\$1.90	\$0.00	\$0.83	\$2.74	\$4.48	\$3.59	25.00%	\$0	\$0		\$0
52															npany Owned	\$444,172	\$307,719		
53 54	TOTAL			59,643	4,767,285			REV REQ	\$80,492	\$315,253	\$68,031			Cusi	tomer Owned	\$19,535 \$463,707	\$28,037 \$335,756	\$235,302	\$100,454
55						D:"		CHECK	\$80,473	\$315,219	\$48,336	\$444,028			Pres	sent Revenues	\$235,302		
56 57						Difference d	lue to no kWI	n in light units	\$20	\$33	\$19,694					Increase	\$100,454		
58																			
59 60	NOTES:		t monthly charge exclud	les fuel ad v	/alorem_and	transmission h	hy others cha	arge											
61	(2)	) Plant c	osts per lamp are not in	cluded in Cu	ustomer-Own	ed rates.	-	•											
62 63	(3)	) Reven	ue Codes with no annua	al kWh calcu	late monthly	charges base	d on kWh/Mo	rating from T	able 7										

<sup>(1)</sup> Current monthly charge excludes fuel, ad valorem, and transmission by others charge.
(2) Plant costs per lamp are not included in Customer-Owned rates.
(3) Revenue Codes with no annual kWh calculate monthly charges based on kWh/Mo rating from Table 7

# NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 5 - RATE 56 - U30 METAL POLE SUMMARY RESULTS

Line No. Р В С D Ε G Н K M N Q L О s

	^	_	·		-	•	••	•	•••	-	•••	
1	Α	BILLI	NG STATISTICS				SCALED				ANNUAL	CURRENT
3	Rev Cod	е	Watts Company Owned (*)		Lumens	кwн/мо	TOT \$ INSTALLED	NET PLANT	ANNUAL KWH	ANNUAL UNITS	BASE REVENUES	MONTHLY CHARGE (1)
5 6	SMM01	HPS	100 *	With Pole	11,700	49.58	\$0	\$0		0		\$13.28
7	SMM02	HPS	100		11,700	49.58	\$0	\$0	5,509	112		\$1.03
8	SMM03	HPS	150 *	With Pole	17,550	69.68	\$801	\$162,805	370,705	5,332		\$13.50
	SMM04	HPS	150		17,550	69.68	\$0	\$0	82,560	1,197		\$1.45
	SMM05	HPS	250 *	With Pole	29,250	107.87	\$820	\$298,387	1,016,287	9,503		\$15.32
	SMM06	HPS	250	vviui i Oie	29,250		\$0	\$0	13,104	123		\$2.22
	SMM07	HPS	400 *	With Pole								
				with Pole	46,800		\$826	\$156,702	802,619	4,976		\$16.56
13	SMM08	HPS	400	1454 5 1	46,800		\$0	\$0	1,615,082	10,042		\$3.31
14	SMM09	HPS	1000 *	With Pole	117,000		\$0	\$0		0		\$26.28
15 16	SMM10	HPS	1000		117,000	389.94	\$0	\$0		0		\$8.23
	SMM11	MV	175 *	With Pole	8,750	72.36	\$914	\$413	894	12	\$118	\$9.59
	SMM12	MV	175	vviui i Oie	8,750		\$0	\$0	034	0		\$1.49
	SMM13	MV	250 *	With Pole			\$935	\$23,223	CO 205	622		\$11.37
				with Pole	12,500				63,365			
20	SMM14	MV	250	1400 B :	12,500		\$0	\$0	00.055	0		\$1.92
	SMM15	MV	400 *	With Pole	20,000		\$993	\$23,324	92,656	580		\$13.17
	SMM16	MV	400		20,000		\$0	\$0		0		\$3.37
	SMM17	MV	1000 *	With Pole	50,000		\$0	\$0		0		\$20.19
24	SMM18	MV	1000		50,000	380.23	\$0	\$0		0		\$7.04
25	CNANAAO	NAL I	175 *	With Dala	24.750	00.00	<b>CO24</b>	£400	4 224	40	£400	£44.00
	SMM19	MH		With Pole	21,750		\$931	\$420	1,331	12		\$14.98
	SMM20	MH	250 *	With Pole	20,000	97.15	\$993	\$449	2,052	12		\$18.00
	SMM21	MH	400 *	With Pole	8,750	153.43	\$914	\$1,651	3,444	49	\$665	\$20.42
29 30	SMM22	HPS	50		5,850	24.79	\$0	\$0	2,448	49	\$25	\$0.51
31 32	SLM15	LED	50			47.91	\$0	\$0	57,956	1,205	\$1,199	\$0.99
34 35 36 37 38 39 40 41 42 43 44 45 46 47 48							TOTAL CHECK TOTAL Company Owned Customer Owned Total	\$667,374 \$667,374 \$0	4,130,012 4,130,012 2,353,353 1,776,659 4,130,012	33,826 33,826 21,098 12,728 33,826	\$352,444 \$315,633 \$36,604	
0123456789012345	NOTES (1		nt monthly charge exclude	es fuel, ad valorem, and	d transmission	by others charge						

<sup>(1)</sup> Current monthly charge excludes fuel, ad valorem, and transmission by others charge.

# NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 5 - RATE 56 - U30 METAL POLE SUMMARY RESULTS

ine o.	Α	В	С	D	E	F	G	Н	ı	J	К	L	M	N	0	Р	Q	R	s
1 2	В	ALLO	CATED COSTS RESUL Watts	TS ANNUAL	ANNUAL	PROD (Excl Fuel)	TRANS	DIST (WO LTG)	TOT PTDG NOE	LIGHTING NOE	LIGHTING PLANT	COST BASED CALCULATED		EXISTING	PERCENT INCREASE/	CALCULATED ANNUAL	PROPOSED ANNUAL	CURRENT ANNUAL	INCR/DECR ANNUAL
3 Rev	v Code		Company Owned (*	UNITS	KWH	\$0.00357 \$0.00244	\$0.00163 \$0.00111	\$0.01297 \$0.00886	\$0.01817 \$0.01241	\$0.08520 \$0.00000	\$0.03132 \$0.00542		ILY CHARGE	S (1)	DECREASE	REVENUES	REVENUES	REVENUES	REVENUES
5			Customer Owned			<b>\$0.00244</b>	\$0.00111	\$0.00886	\$0.01241	\$0.00000	\$0.00542	Cap Adjustn (0.25)	0.45						
6 SM	M01	HPS	100 *	0	0	\$0.18 \$0.18	\$0.08 \$0.08	\$0.64 \$0.64	\$0.90 \$0.90	\$4.22 \$4.22	\$1.55 \$1.55	\$6.68	\$16.60	\$13.28	25.00%	\$0	\$0		\$0
, 8 SM	M02	HPS	100	U	5,509	\$13.44	\$6.11	\$48.81	\$68.37	\$0.00	\$29.86	φυ.υο	\$10.00	\$13.20	25.00%	20	ΦΟ		ΦΟ
9	1.400		450+	112	070 705	\$0.12	\$0.05	\$0.44	\$0.61	\$0.00	\$0.27	\$0.88	\$1.29	\$1.03	25.00%	\$98	\$144	\$115	\$29
0 SM 1	M03	HPS	150 *	5,332	370,705	\$1,323.42 \$0.25	\$604.25 \$0.11	\$4,808.04 \$0.90	\$6,735.71 \$1.26	\$31,584.07 \$5.92	\$11,610.48 \$2.18	\$9.36	\$16.87	\$13.50	25.00%	\$49,930	\$89,948	\$71,958	\$17,990
	M04	HPS	150		82,560	\$201.45	\$91.64	\$731.48	\$1,024.57	\$0.00	\$447.48		0.0.	0.4.5	0= 000/		00.400		
3 4 SM	M05	HPS	250 *	1,197	1,016,287	\$0.17 \$3,628.14	\$0.08 \$1,656.55	\$0.61 \$13,181.24	\$0.86 \$18,465.93	\$0.00 \$86,587.65	\$0.37 \$31,830.11	\$1.23	\$1.81	\$1.45	25.00%	\$1,472	\$2,163	\$1,729	\$434
5				9,503		\$0.38	\$0.17	\$1.39	\$1.94	\$9.11	\$3.35	\$14.40	\$19.15	\$15.32	25.00%	\$136,884	\$181,994	\$145,595	\$36,399
S SM	M06	HPS	250	123	13,104	\$31.97 \$0.26	\$14.55 \$0.12	\$116.10 \$0.94	\$162.62 \$1.32	\$0.00 \$0.00	\$71.02 \$0.58	\$1.90	\$2.78	\$2.22	25.00%	\$234	\$341	\$271	\$70
SM	M07	HPS	400 *		802,619	\$2,865.35	\$1,308.27	\$10,409.97	\$14,583.59	\$68,383.14	\$25,138.03								
9 D SM	M08	HPS	400	4,976	1,615,082	\$0.58 \$3,940.80	\$0.26 \$1,792.74	\$2.09 \$14,309.63	\$2.93 \$20,043.17	\$13.74 \$0.00	\$5.05 \$8,753.74	\$21.73	\$21.73	\$16.56	31.17%	\$108,105	\$108,105	\$82,398	\$25,707
1				10,042		\$0.39	\$0.18	\$1.42	\$2.00	\$0.00	\$0.87	\$2.87	\$4.14	\$3.31	25.00%	\$28,797	\$41,580	\$33,265	\$8,315
2 SM 3	M09	HPS	1000 *	0	0	\$1.39 \$1.39	\$0.64 \$0.64	\$5.06 \$5.06	\$7.09 \$7.09	\$33.22 \$33.22	\$12.21 \$12.21	\$52.52	\$38.11	\$26.28	45.00%	\$0	\$0		\$0
	M10	HPS	1000	U	0	\$0.95	\$0.43	\$3.45	\$4.84	\$0.00	\$2.11	Ψ32.32	ψ30.11	Ψ20.20	45.0070	ΨΟ	ΨΟ		ΨΟ
5 6				0		\$0.95	\$0.43	\$3.45	\$4.84	\$0.00	\$2.11	\$6.95	\$10.29	\$8.23	25.00%	\$0	\$0		\$0
	M11	MV	175 *		894	\$3.19	\$1.46	\$11.60	\$16.24	\$76.17	\$7.00								
3 9 SM	M12	MV	175	12	0	\$0.27 \$0.18	\$0.12 \$0.08	\$0.97 \$0.64	\$1.35 \$0.90	\$6.35 \$0.00	\$0.58 \$0.00	\$8.28	\$11.98	\$9.59	25.00%	\$99	\$144	\$118	\$26
) )	IVIIZ	IVIV	175	0	U	\$0.18	\$0.08	\$0.64	\$0.90	\$0.00	\$0.00	\$0.90	\$1.86	\$1.49	25.00%	\$0	\$0		\$0
	M13	MV	250 *	000	63,365	\$226.21 \$0.36	\$103.28 \$0.17	\$821.84	\$1,151.34 \$1.85	\$5,398.70 \$8.68	\$496.15 \$0.80	\$11.33	\$14.22	£44.07	25.00%	¢7.040	\$8,842	<b>©7.004</b>	¢4.700
2 3 SM	M14	MV	250	622	0	\$0.36	\$0.17	\$1.32 \$0.89	\$1.25	\$0.00	\$0.00	\$11.33	φ14.2Z	\$11.37	25.00%	\$7,046	φ0,042	\$7,081	\$1,762
4 5 SM	N445	MV	400 *	0	92,656	\$0.25 \$330.78	\$0.11	\$0.89 \$1,201.75	\$1.25	\$0.00	\$0.00 \$725.50	\$1.25	\$1.98	\$1.92	3.16%	\$0	\$0		\$0
) SIVI	M15	IVIV	400	580	92,030	\$0.57	\$151.03 \$0.26	\$2.07	\$1,683.56 \$2.90	\$7,894.29 \$13.61	\$1.25	\$17.76	\$17.76	\$13.17	34.87%	\$10,303	\$10,303	\$7,624	\$2,679
	M16	MV	400	0	0	\$0.39	\$0.18	\$1.41	\$1.97	\$0.00	\$0.00	£4.07	£4.04	<b>#2.27</b>	25 000/	\$0	¢o.		\$0
B B SM	M17	MV	1000 *	U	0	\$0.39 \$1.36	\$0.18 \$0.62	\$1.41 \$4.93	\$1.97 \$6.91	\$0.00 \$32.40	\$0.00 \$0.00	\$1.97	\$4.21	\$3.37	25.00%	20	\$0		\$0
) CM	1440	MV	1000	0	0	\$1.36	\$0.62	\$4.93 \$3.37	\$6.91 \$4.72	\$32.40	\$0.00 \$0.00	\$39.30	\$29.28	\$20.19	45.00%	\$0	\$0		\$0
SM	M18	IVIV	1000	0	U	\$0.93 \$0.93	\$0.42 \$0.42	\$3.37	\$4.72	\$0.00 \$0.00	\$0.00	\$4.72	\$8.80	\$7.04	25.00%	\$0	\$0		\$0
CM	M19	мн	175 *		1,331	\$4.75	\$2.17	\$17.26	\$24.18	\$113.40	\$41.69								
SM	WITS	IVITI	175	12	1,331	\$0.40	\$0.18	\$17.20	\$2.02	\$9.45	\$3.47	\$14.94	\$18.73	\$14.98	25.00%	\$179	\$225	\$193	\$31
SM	M20	МН	250 *	12	2,052	\$7.33 \$0.61	\$3.34 \$0.28	\$26.61 \$2.22	\$37.28 \$3.11	\$174.83 \$14.57	\$64.27 \$5.36	\$23.03	\$23.03	\$18.00	27.92%	\$276	\$276	\$207	\$70
	M21	МН	400 *	12	3,444	\$12.30	\$5.61	\$44.67	\$62.58	\$293.43	\$107.87	φ23.03	Ψ23.03	φ10.00	21.52/0	φ210	\$270	φ201	\$10
CM	M22	HPS	50	49	2,448	\$0.25 \$5.97	\$0.11 \$2.72	\$0.91 \$21.69	\$1.28 \$30.38	\$5.99 \$0.00	\$2.20 \$13.27	\$9.47	\$25.53	\$20.42	25.00%	\$464	\$1,251	\$665	\$586
SM 1	IVIZZ	пгэ	50	49	2,440	\$0.12	\$0.06	\$0.44	\$0.62	\$0.00	\$0.27	\$0.89	\$0.73	\$0.51	45.00%	\$44	\$36	\$25	\$11
	M15	LED	50		57,956	\$141.41	\$64.33	\$513.49	\$719.23	\$0.00	\$314.12								*
3 4				1,205		\$0.12	\$0.05	\$0.43	\$0.60	\$0.00	\$0.26	\$0.86	\$1.24	\$0.99 Co	86.21% ompany Owned	\$1,033 \$313,287	\$1,498 \$401,088	\$1,199	\$299
5	<b>T</b> 4.1			00.004	4.070.050			DEV/DEO	004007	#000 F70	<b>#70.000</b>				stomer Owned	\$31,678	\$45,762	<b>6050 444</b>	<b>CO 4 407</b>
7 TO	TAL			32,621	4,072,056			REV REQ CHECK		\$200,576 \$200,506	\$79,666 \$78,422	\$343,736			Pre	\$344,965 esent Revenues	\$446,851 \$352,444	\$352,444	\$94,407
3									\$29	\$70	\$1,245					Increase	\$94,407		
) ) N	IOTES:								υιπerence dι	ue to no kWh	in light units								
61	(1)		t monthly charge exclud				by others cha	irge.											
62 63			osts per lamp are not in ue Codes with no annua				d on kWh/Mo	rating from T	able 7										
64	. ,				,	-		-											

<sup>(1)</sup> Current monthly charge excludes fuel, ad valorem, and transmission by others charge.
(2) Plant costs per lamp are not included in Customer-Owned rates.
(3) Revenue Codes with no annual kWh calculate monthly charges based on kWh/Mo rating from Table 7

# NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 6 - RATE 56 - U30 WOOD POLE SUMMARY RESULTS

Line No. С A B D Е F G L М N Р Q 0 s

NO.	А	В	C	U	E	F	G	н	ı	J	ĸ	L	IVI	N	O	Р	Q	К	5
1	Α	BILLI	NG STATISTICS																
2			Watts						SCALED TOT \$	NET	ANNUAL	ANNUAL	ANNUAL BASE	CURRENT MONTHLY					
	Rev Cod	le	Company Owned (*)			Lumens	KWH/MO		INSTALLED		KWH	UNITS		CHARGE (1)					
6	SMW19 SMW20	HPS HPS	100 * 100	W	/ith Pole	11,700 11,700	49.58 49.58		\$572 \$0			3,264 0		\$7.68 \$1.03					
8	SMW21	HPS	150 *	W	/ith Pole	17,550	69.68		\$654	\$397,260		16,219		\$7.90					
	SMW22	HPS	150			17,550	69.68		\$0		0	0		\$1.45					
	SMW23 SMW24	HPS HPS	250 * 250	VV	/ith Pole	29,250 29,250	107.87 107.87		\$672 \$0		662,573 0	6,225 0		\$10.57 \$2.22					
	SMW25	HPS	400 *	W	/ith Pole	46,800	166.16		\$679			533		\$2.22 \$11.81					
	SMW26	HPS	400	**	THE TOIC	46,800	166.16		\$0		02,002	0		\$3.31					
14	SMW27	HPS	1000 *	W	/ith Pole	117,000	389.94		\$0	\$0		0	\$0	\$21.58					
15 16	SMW28	HPS	1000			117,000	389.94		\$0	\$0	0	0	\$0	\$8.23					
	SMW29	MV	175 *	W	ith Pole	8,750	72.36		\$766			24,005		\$5.84					
	SMW30	MV	175	141	ru- D-I-	8,750	72.36		\$0		0	0		\$1.49					
	SMW31 SMW32	MV MV	250 * 250	VV	/ith Pole	12,500 12,500	100.84 100.84		\$788 \$0		50,094 0	509 0		\$9.02 \$1.92					
	SMW33	MV	400 *	W	/ith Pole	20,000	158.79		\$788			592		\$9.97					
	SMW34	MV	400			20,000	158.79		\$0	\$0	0	0		\$3.37					
	SMW35	MV	1000 *	W	/ith Pole	50,000	380.23		\$0			0		\$16.34					
25		MV	1000			50,000	380.23		\$0			0		\$7.04					
	SMW37	MH	250 *		/ith Pole	21,750	97.15		\$788			12		\$13.25					
27	SMW38	МН	400 *	VV	/ith Pole	20,000	153.43		\$788	\$1,067	6,118	36	\$444	\$15.67					
29																			
30								_		\$1,388,604		51,395							
31 32								C	HECK TOTAL	\$1,388,604	3,868,277	51,395	\$376,408						
33 34									mpany Owned stomer Owned			51,395 0							
35										\$1,388,604		51,395							
36																			
37 38																			
39																			
40																			
41																			
42 43																			
44																			
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47 48																			
49																			
50																			
51																			
52																			
53 54																			
55																			
56																			
57																			
58																			
59 60			nt monthly charge exclude	es fuel ad va	lorem and	transmission h	ov others charge												
61		., Oui16	o.itiliy ollargo oxolude	au, au va	, and		s, salors orialge	•											
62																			
63																			
64 65																			
00																			

<sup>(1)</sup> Current monthly charge excludes fuel, ad valorem, and transmission by others charge.

# NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 6 - RATE 56 - U30 WOOD POLE SUMMARY RESULTS

Line No.	A	В	С	D	E	F	G	н	1	J	к	L	М	N	o	P	Q	R	s
1 2 3 <b>F</b>	B Rev Code		CATED COSTS RESU Watts Company Owned (*	LTS ANNUAL UNITS	ANNUAL KWH	PROD (Excl Fuel) \$0.00357	TRANS \$0.00163	DIST (WO LTG) \$0.01297	NOE \$0.01817	NOE \$0.08520	PLANT \$0.03132		PROPOSED		INCREASE/	CALCULATED ANNUAL REVENUES	PROPOSED ANNUAL REVENUES	CURRENT ANNUAL REVENUES	INCR/DECR ANNUAL REVENUES
4			Customer Owned			\$0.00244	\$0.00111	\$0.00886	\$0.01241	\$0.00000	\$0.00542	Cap Adjustn							
5	SMW19	HPS	100 *		162,007	¢570.26	\$264.07	\$2,101.23	\$2,943.67	\$13,803.00	<b>\$0.00136</b> \$5,074.06	(0.25)	0.45						
7	SIVIVV 19	пРЗ	100	3,264	162,007	\$578.36 \$0.18	\$264.07	\$2,101.23	\$2,943.67	\$13,803.00	\$5,074.06 \$1.55	\$6.69	\$8,49	\$7.68	10.55%	\$21,821	\$27,709	\$25.067	\$2,643
8.5	SMW20	HPS	100	3,204	0	\$0.10	\$0.06	\$0.04	\$0.62	\$0.00	\$0.27	φ0.09	φ0.49	φ1.00	10.55 /6	Ψ21,021	\$27,709	φ25,007	φ2,043
9	SIVIVIZO	0	100	0	Ü	\$0.12	\$0.06	\$0.44	\$0.62	\$0.00	\$0.27	\$0.88	\$1.29	\$1.03	25.00%	\$0	\$0	\$0	\$0
10 8	SMW21	HPS	150 *		1,091,030	\$3,894.98	\$1,778.38	* -	\$19,824.02	\$92,955.76	\$34,171.06	*****	***=*	*		**	**	**	**
11				16,219		\$0.24	\$0.11	\$0.87	\$1.22	\$5.73	\$2.11	\$9.06	\$9.05	\$7.90	14.63%	\$146,951	\$146,789	\$128,055	\$18,733
	SMW22	HPS	150		0	\$0.17	\$0.08	\$0.62	\$0.86	\$0.00	\$0.38								
13				0		\$0.17	\$0.08	\$0.62	\$0.86	\$0.00	\$0.38	\$1.24	\$1.81	\$1.45	25.00%	\$0	\$0	\$0	\$0
	SMW23	HPS	250 *	0.005	662,573	\$2,365.39	\$1,079.99		\$12,038.95	\$56,451.22		64404	01101	640.57	05.000/	<b>#</b> 00.040	600.040	<b>*</b> 05.000	<b>600 440</b>
15	SMW24	HPS	250	6,225	0	\$0.38 \$0.26	\$0.17 \$0.12	\$1.38 \$0.96	\$1.93 \$1.34	\$9.07 \$0.00	\$3.33 \$0.58	\$14.34	\$14.34	\$10.57	35.62%	\$89,242	\$89,242	\$65,802	\$23,440
17	SIVIVV24	пго	230	0	U	\$0.26	\$0.12	\$0.96	\$1.34	\$0.00	\$0.58	\$1.92	\$2.78	\$2.22	25.00%	\$0	\$0	\$0	\$0
	SMW25	HPS	400 *	O	82,892	\$295.92	\$135.11	\$1,075.11	\$1,506.15	\$7,062.40	\$2,596.18	Ψ1.32	Ψ2.70	ΨΖ.ΖΖ	23.0070	ΨΟ	ΨΟ	ΨΟ	ΨΟ
19	5	0		533	02,002	\$0.56	\$0.25	\$2.02	\$2.83	\$13.25	\$4.87	\$20.95	\$17.13	\$11.81	45.00%	\$11.165	\$9,129	\$6,281	\$2,848
20 8	SMW26	HPS	400		0	\$0.41	\$0.18	\$1.47	\$2.06	\$0.00	\$0.90	•		•		, ,	***	* - ,	* /-
21				0		\$0.41	\$0.18	\$1.47	\$2.06	\$0.00	\$0.90	\$2.96	\$4.14	\$3.31	25.00%	\$0	\$0	\$0	\$0
	SMW27	HPS	1000 *		0	\$1.39	\$0.64	\$5.06	\$7.09	\$33.22	\$12.21								
23				0	_	\$1.39	\$0.64	\$5.06	\$7.09	\$33.22	\$12.21	\$52.52	\$31.29	\$21.58	45.00%	\$0	\$0	\$0	\$0
	SMW28	HPS	1000		0	\$0.95	\$0.43	\$3.45	\$4.84	\$0.00	\$2.11	00.05	640.00	<b>#0.00</b>	05.000/	00	60	••	60
25 26				0		\$0.95	\$0.43	\$3.45	\$4.84	\$0.00	\$2.11	\$6.95	\$10.29	\$8.23	25.00%	\$0	\$0	\$0	\$0
	SMW29	MV	175 *		1,720,304	\$6,141.49	\$2,804.10	\$22 312 34	\$31,257.92	146,569.90	\$2,331.01								
28	SIVIVVEO		170	24,005	1,720,004	\$0.26	\$0.12	\$0.93	\$1.30	\$6.11	\$0.10	\$7.51	\$7.51	\$5.84	28.56%	\$180,159	\$180,159	\$140,123	\$40,035
	SMW30	MV	175	,	0	\$0.18	\$0.08	\$0.64	\$0.90	\$0.00	\$0.00	*****		70.0		*****	*****	******	*,
30				0		\$0.18	\$0.08	\$0.64	\$0.90	\$0.00	\$0.00	\$0.90	\$1.86	\$1.49	25.00%	\$0	\$0	\$0	\$0
	SMW31	MV	250 *		50,094	\$178.84	\$81.65	\$649.72	\$910.21	\$4,268.01	\$67.88								
32				509		\$0.35	\$0.16	\$1.28	\$1.79	\$8.39	\$0.13	\$10.31	\$10.31	\$9.02	14.23%	\$5,246	\$5,246	\$4,587	\$659
	SMW32	MV	250		0	\$0.25	\$0.11	\$0.89	\$1.25	\$0.00	\$0.00	04.05	<b>64.00</b>	<b>64.00</b>	0.400/	00	60	•••	60
34	SMW33	MV	400 *	0	91,924	\$0.25 \$328.17	\$0.11 \$149.84	\$0.89 \$1,192.25	\$1.25 \$1,670.26	\$0.00 \$7,831.92	\$0.00 \$124.56	\$1.25	\$1.98	\$1.92	3.16%	\$0	\$0	\$0	\$0
36	SIVIVVSS	IVIV	400	592	91,924	\$0.55	\$0.25	\$1,192.23	\$2.82	\$13.23	\$0.21	\$16.26	\$14.46	\$9.97	45.00%	\$9.627	\$8,560	\$5.915	\$2,645
	SMW34	MV	400	332	0	\$0.39	\$0.23	\$1.41	\$1.97	\$0.00	\$0.00	Ψ10.20	Ψ14.40	Ψ3.31	43.0070	Ψ3,021	ψ0,500	ψ5,515	Ψ2,043
38			100	0	ŭ	\$0.39	\$0.18	\$1.41	\$1.97	\$0.00	\$0.00	\$1.97	\$4.21	\$3.37	25.00%	\$0	\$0	\$0	\$0
39 8	SMW35	MV	1000 *		0	\$1.36	\$0.62	\$4.93	\$6.91	\$32.40	\$0.00								
40				0		\$1.36	\$0.62	\$4.93	\$6.91	\$0.00	\$0.00	\$6.91	\$20.43	\$16.34	25.00%	\$0	\$0	\$0	\$0
	SMW36	MV	1000		0	\$0.93	\$0.42	\$3.37	\$4.72	\$0.00	\$0.00	_	_				_		
42				0		\$0.93	\$0.42	\$3.37	\$4.72	\$0.00	\$0.00	\$4.72	\$8.80	\$7.04	25.00%	\$0	\$0	\$0	\$0
43	CN 414/07	MILL	250 *		4 225	¢4.77	<b>60.40</b>	647.04	<b>604.00</b>	£440.74	£44.04								
44 8	SMW37	МН	250 *	12	1,335	\$4.77 \$0.40	\$2.18 \$0.18	\$17.31 \$1.44	\$24.26 \$2.02	\$113.74 \$9.48	\$41.81 \$3.48	\$14.98	\$14.98	\$13.25	13.05%	\$180	\$180	\$134	\$45
	SMW38	МН	400 *	12	6,118	\$21.84	\$9.97	\$79.35	\$111.16	\$521.25	\$191.62	ψ14.50	\$14.50	φ13.23	13.03 /6	\$100	\$100	φ134	Φ43
47	JIVIVVJO	IVIII	400	36	0,110	\$0.61	\$0.28	\$2.20	\$3.09	\$14.48	\$5.32	\$22.89	\$22.73	\$15.67	45.00%	\$824	\$818	\$444	\$375
48											*				npany Owned	\$465,214	\$467,832	****	
49															tomer Owned	\$0	\$0		
	ΓΟΤΑL			51,395	3,868,277			REV REQ	\$70,319	\$329,643	\$65,366					\$465,214	\$467,832	\$376,408	\$91,424
51								CHECK	\$70,287	\$329,577	\$62,827	\$462,690			Pre	sent Revenues	\$376,408		
52						Difference d	lue to no kWh	n in light units	\$33	\$66	\$2,540					Increase	\$91,424		

- (1) Current monthly charge excludes fuel, ad valorem, and transmission by others charge.
  (2) Plant costs per lamp are not included in Customer-Owned rates.
  (3) Revenue Codes with no annual kWh calculate monthly charges based on kWh/Mo rating from Table 7

Lina								TA	BLE 7 - COS	T CALCUATI	ON DETAILS	SUPPORTIN	IG TABLES 1	I- <del>(</del>					
Line No.		В	С	D	E	F	G	н	1	J	κ	L	М	N	0	Р	Q	R	S
5 6 7 8 9 10	Rate URREV CORROOT RR002 RR003 RR004 RR005 RR006 RR007	10 - Redo de HPS HPS HPS HPS HPS	DY GUARD  dy-Guard - Re  Watts	esidential	l Unmetered	Lumens 4,095 5,850 11,700 17,550 29,250 46,800 117,000	KWH/MO 14.07 19.77 49.58 69.68 107.87 166.16 389.94	# UNITS YR END 0 3 189 309 52 20	\$47 \$47 \$47 \$47 \$47	FIXTURE \$ \$29 \$44 \$89 \$197 \$221 \$228 \$288	TOTAL \$ INSTALLED \$0 \$91 \$136 \$244 \$268 \$275 \$0	NET PLANT \$0 \$68 \$6,384 \$18,764 \$3,464 \$1,368		SCALED TO GROSS PLT COSTS \$0 \$139 \$13,016 \$38,256 \$7,063 \$2,790 \$0	SCALED TOT \$ INSTALLED \$0 \$46 \$69 \$124 \$136 \$139 \$0	ANNUAL KWH 711 115,329 271,999 70,178 37,894	ANNUAL UNITS 36 2,262 3,786 614 229	ANNUAL BASE REVENUES \$120 \$11,374 \$19,856 \$4,550 \$2,016	CURRENT MONTHLY CHARGE (1) \$3.19622 \$3.32325 \$5.02952 \$5.24555 \$7.42098 \$8.76245 \$18.33081
13 14 15	RR010 RR011 RR012 RR013	MV MV	175 250 400 1000			8,750 12,500 20,000 50,000	72.36 100.84 158.79 380.23	1,255 23 0 0	\$47 \$47	\$350 \$376 \$452 \$645	\$397 \$422 \$0 \$0	\$0	\$497,652 \$9,716 \$0 \$0	\$252,501 \$4,930 \$0 \$0	\$201 \$214 \$0 \$0	1,070,927 27,619	14,914 272	\$49,782 \$1,151	\$3.33768 \$4.22287 \$6.27156 \$11.89056
18 19	RR014 RR015 RR016	MH	175 250 400			21,750 34,800 87,000	68.68 97.15 153.43	0 5 1 1,857 1,857	\$47 \$78	\$266 \$343 \$520	\$0 \$390 \$598	\$0 \$485 \$149 \$156,946 \$156,946	\$0 \$1,948 \$598 \$630,659	\$0 \$988 \$303 \$319,986 \$319,986	\$0 \$198 \$303	4,607 4,037 1,603,301	60 35 22,208	<b>\$263</b> <b>\$210</b> \$89,322	\$3.41723 \$4.30244 \$6.38729
23 24 25 26 27 28 29 30		Mercury Other	<sup>,</sup> Vapor											RATIO	0.51	1,098,546 504,755	15,186 7,022	\$50,933 \$38,389	
31 32 33 34 35 36 37 38 39 40 41	Rate U' Rev Co RR100 RR101 RR102 RR103 RR104 RR105 RR106	de HPS HPS HPS HPS HPS HPS	dy-Guard - Re Watts 35 50 100 150 250 400 1000	esidential	l Metered	Lumens 4,095 5,850 11,700 17,550 29,250 46,800 117,000	KWH/MO 14.07 19.77 49.58 69.68 107.87 166.16 389.94	# UNITS YR END 0 7 42 163 7 11	\$47 \$47 \$47 \$47 \$47	FIXTURE \$ \$29 \$44 \$89 \$197 \$221 \$228 \$282	TOTAL \$ INSTALLED \$0 \$91 \$136 \$244 \$268 \$275 \$0	NET PLANT \$0 \$159 \$1,419 \$9,898		SCALED TO GROSS PLT COSTS \$0 \$324 \$2,892 \$20,181 \$951 \$1,534 \$0	SCALED TOT \$ INSTALLED 0 \$46 \$69 \$124 \$136 \$139 \$0	ESTIMATED ANNUAL KWH  1,897 23,402 137,966 9,061 20,105	ANNUAL UNITS 96 472 1,980 84 121	ANNUAL BASE REVENUES \$281 \$1,894 \$7,918 \$442 \$660	CURRENT MONTHLY CHARGE (1) \$2.90 \$2.90 \$4.00 \$4.00 \$5.20 \$5.45 \$10.10
44 45	RR110 RR111 RR112 RR113	MV MV	175 250 400 1000			8,750 12,500 20,000 50,000	72.36 100.84 158.79 380.23	717 6 0 0	\$47 \$47	\$350 \$376 \$452 \$645	\$397 \$422 \$0 \$0	\$0	\$284,316 \$2,535 \$0 \$0	\$144,257 \$1,286 \$0 \$0	\$201 \$214 \$0 \$0	623,671 7,361	8,619 73	\$15,947 \$167	\$1.85 \$2.30 \$2.90 \$4.85
49		MH	250 400 1000			21,750 34,800 87,000	68.68 97.15 153.43		\$47	\$266 \$343 \$520	\$0 \$390 \$0		\$0 \$390 \$338,251	\$0 \$198 \$0 \$171,623 \$171,623 RATIO	\$0 \$198 \$0 0.51	1,263 824,727 631,032 193,695	13 11,458 8,692 2,766	\$63 \$27,372 \$16,114 \$11,259	\$1.85 \$2.30 \$2.90
70 71																			

Line								1 A	BLE 7 - COS	I CALCUATI	ON DETAILS	SUPPORTIN	IG TABLES	I-t					
No		В	С	D	E	F	G	н	I	J	K	L	M	N	0	Р	Q	R	s
73 74 75 76 77 78 79 80		de HPS HPS HPS HPS HPS	Watts 35 50 100 150 250 400 1000	ommercial (	Unmetered	Lumens 4,095 5,850 11,700 17,550 29,250 46,800 117,000	KWH/MO 14.07 19.77 49.58 69.68 107.87 166.16 389.94	# UNITS YR END 1 153 486 501 391	BRACKET \$ \$47 \$47 \$47 \$47 \$47 \$47 \$47 \$78	FIXTURE \$ \$29 \$44 \$89 \$197 \$221 \$228 \$282	TOTAL \$ INSTALLED \$76 \$91 \$136 \$244 \$268 \$275 \$360			SCALED TO GROSS PLT COSTS \$39 \$46 \$10,537 \$60,170 \$68,052 \$54,536 \$1,280	SCALED TOT \$ INSTALLED \$39 \$46 \$69 \$124 \$139 \$139 \$183	ANNUAL KWH 177 385 93,824 405,269 644,541 759,600 37,791	ANNUAL UNITS 12 4 1,834 5,740 5,947 4,598 97	ANNUAL BASE REVENUES \$40 \$14 \$9,223 \$30,117 \$44,131 \$40,281 \$1,777	CURRENT MONTHLY CHARGE (1) \$3.19622 \$3.32325 \$5.02952 \$5.24555 \$7.42098 \$8.76245 \$18.33081
82 83 84 85	RC010 RC011 RC012 RC013	MV MV MV	175 250 400 1000			8,750 12,500 20,000 50,000	72.36 100.84 158.79 380.23	1,247 68 37 0	\$47 \$47 \$47 \$47 \$78	\$350 \$376 \$452 \$645	\$397 \$422 \$498 \$0	\$123,056 \$7,149 \$4,590 \$0	\$494,480 \$28,725 \$18,443 \$0	\$250,891 \$14,575 \$9,358 \$0	\$201 \$214 \$253 \$0	1,033,451 75,889 69,511	14,538 750 439	\$48,524 \$3,170 \$2,748	\$3.33768 \$4.22287 \$6.27156 \$11.89056
89 90 97	RC014 RC015 RC016 RC017	MH MH	175 250 400 1000			15,225 21,750 34,800 87,000	68.68 97.15 153.43 380.23	0 73 195 50 3,210	\$47 \$47 \$47 \$78 Total	\$266 \$282 \$343 \$520		\$0 \$5,978 \$18,902 \$7,442 \$262,592	\$0 \$24,020 \$75,954 \$29,903	\$0 \$12,187 \$38,538 \$15,172 \$535,381	\$0 \$167 \$198 \$303	95,134 392,163 216,492	890 2,289 570	\$3,818 \$14,609 \$6,771	\$3.41723 \$4.30244 \$6.38729 \$11.89056
93 94	3 1							3,210	Unmetered			\$262,592	\$1,055,178	\$535,381 RATIO	0.51	3,824,227	37,708	\$205,223	
95 97 98 98	5 7 3 9	Mercury Other	/ Vapor													1,178,851 2,645,376	15,727 21,981	\$54,443 \$150,781	
100 107 108 109 110 111 112	Rev Co RC100 RC100 RC101 RC103 RC103 RC104 RC103 RC105 RC106	de HPS HPS HPS HPS HPS	dy-Guard - Co Watts 35 50 100 150 250 400 1000	ommercial I	Metered	Lumens 4,095 5,850 11,700 17,550 29,250 46,800 117,000	KWH/MO 14.07 19.77 49.58 69.68 107.87 166.16 389.94	# UNITS YR END 0 35 62 205 320 282 12	BRACKET\$ \$47 \$47 \$47 \$47 \$47 \$47 \$47 \$78	FIXTURE \$ \$29 \$44 \$89 \$197 \$221 \$228 \$282	TOTAL \$ INSTALLED \$0 \$91 \$136 \$244 \$268 \$275 \$360		ESTIMATED PLT COSTS \$0 \$3,193 \$8,415 \$50,022 \$85,667 \$77,521 \$4,324		SCALED TOT \$ INSTALLED \$0 \$46 \$69 \$124 \$136 \$139 \$183	ESTIMATED ANNUAL KWH 0 8,400 34,656 168,486 414,976 533,872 56,541	ANNUAL UNITS 0 425 699 2,418 3,847 3,213	ANNUAL BASE REVENUES \$0 \$1,231 \$2,794 \$9,675 \$20,001 \$17,506 \$1,471	CURRENT MONTHLY CHARGE (1) \$2.90 \$2.90 \$4.00 \$4.00 \$5.20 \$5.45 \$10.10
116 117 118 119	RC110 RC111 RC112 RC113	MV MV	175 250 400 1000			8,750 12,500 20,000 50,000	72.36 100.84 158.79 380.23	435 36 13 1	\$47 \$47 \$47 \$78	\$350 \$376 \$452 \$645	\$397 \$422 \$498 \$723	\$42,927 \$3,785 \$1,613 \$180	\$172,493 \$15,208 \$6,480 \$723	\$87,520 \$7,716 \$3,288 \$367	\$201 \$214 \$253 \$367	369,687 44,367 24,295 4,563	5,109 440 153 12	\$9,451 \$1,012 \$443 \$59	\$1.85 \$2.30 \$2.90 \$4.85
122	RC114 RC115 RC116	MH	175 250 400			15,225 21,750 34,800	68.68 97.15 153.43	0 51 92 1,544 1,544	\$47 \$47 \$47 Metered	\$266 \$282 \$343	\$0 \$329 \$390	\$0 \$4,176 \$8,918 \$118,622 \$118,622	\$0 \$16,781 \$35,835 <b>\$476,662</b>	\$0 \$8,515 \$18,182 \$0 \$241,851 RATIO	\$0 \$167 \$198 0.51	50,712 169,387 1,879,943	522 1,104 18,087	\$2,720 \$6,011 \$72,374	\$1.85 \$2.30 \$2.90
127 128 129 130 133 133 134 135 137 138 139 140 141	7	Mercun Other	/ Vapor													442,912 1,437,031	5,714 12,373	\$10,966 \$61,409	

Line No.	Α	В	С	D	E	F	G	н '	ABLE 7 - COS	J	K	L	M	N	О	Р	Q	R	s
144 145 146 147 148 149 150 151	Rev Coo RM001 RM002 RM003 RM004 RM005 RM006 RM007	de HPS HPS HPS HPS HPS	Watts 35 50 100 150 250 400 1000	Unmetered		Lumens 4,095 5,850 11,700 17,550 29,250 46,800 117,000	KWH/MO 14.07 19.77 49.58 69.68 107.87 166.16 389.94	# UNITS YR END 0 0 0 0 4 0 0	\$47 \$47 \$78 \$78 \$78	FIXTURE \$ \$33 \$51 \$101 \$209 \$234 \$243 \$445	TOTAL \$ INSTALLED \$0 \$0 \$0 \$288 \$0 \$0 \$0	NET PLANT \$0 \$0 \$0 \$286 \$0 \$0 \$0		SCALED TO GROSS PLT COSTS \$0 \$0 \$584 \$0 \$0 \$0	SCALED TOT \$ INSTALLED \$0 \$0 \$0 \$146 \$0 \$0 \$0	ANNUAL KWH 3,433 0	ANNUAL UNITS 48 4	ANNUAL BASE REVENUES \$269 \$31	CURRENT MONTHLY CHARGE (1) \$3.20 \$3.32 \$5.03 \$5.25 \$7.42 \$8.76 \$18.33
155 156 157	RM010 RM011 RM012 RM013	MV MV	175 250 400 1000			8,750 12,500 20,000 50,000	72.36 100.84 158.79 380.23	2 0 0 0	\$78 \$78	\$359 \$387 \$465 \$678	\$438 \$0 \$0 \$0	\$218 \$0 \$0 \$0	\$875 \$0 \$0 \$0	\$444 \$0 \$0 \$0	\$222 \$0 \$0 \$0	892	31	\$106	\$3.34 \$4.22 \$6.27 \$11.89
160 161 162 163 164 165	RM014 RM015 RM016	MH MH	175 250 400			15,225 21,750 34,800	68.68 97.15 153.43		\$78	\$266 \$372 \$561	\$0 \$0 \$639	\$0 \$0 \$159 \$663 \$663	\$0 \$0 \$639 \$2,665	\$0 \$0 \$324 \$1,352 \$1,352 RATIO	\$0 \$0 \$324	<b>2,054</b> 6,379	14 97	\$514	\$3.42 \$7.65 \$9.04
166 167 168 169 170 171 172		Mercury Other	Vapor													892 5,487	31 66	\$106 \$408	
174 175 176 177 178 179 180 181	Rev Coo RM100 RM101 RM102 RM103 RM104 RM105 RM106	de HPS HPS HPS HPS HPS	Watts 35 50 100 150 250 400 1000	Metered		Lumens 4,095 5,850 11,700 17,550 29,250 46,800 117,000	KWH/MO 14.07 19.77 49.58 69.68 107.87 166.16 389.94	# UNITS YR END 0 0 2 2 0 0 0	\$47 \$47 \$78 \$78 \$78	FIXTURE \$ \$188 \$0 \$314 \$394 \$0 \$642 \$1,182	TOTAL \$ INSTALLED \$0 \$0 \$360 \$360 \$0 \$0 \$0	NET PLANT \$0 \$0 \$179 \$0 \$0 \$0 \$0		SCALED TO GROSS PLT COSTS \$0 \$0 \$366 \$0 \$0 \$0	SCALED TOT \$ INSTALLED \$0 \$0 \$183 \$0 \$0 \$0 \$0	ESTIMATED ANNUAL KWH 1,091	ANNUAL UNITS 22		CURRENT MONTHLY CHARGE (1) \$2.90 \$4.00 \$4.00 \$5.20 \$5.45 \$10.10
184 185 186	RM110 RM111 RM112 RM113	MV MV	175 250 400 1000			8,750 12,500 20,000 50,000	72.36 100.84 158.79 380.23	0 0 0 0	\$78 \$78	\$310 \$326 \$402 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0		\$0 \$0 \$0 \$0				\$1.85 \$2.30 \$2.90 \$4.85
189 190 191 192	RM114 RM115 RM116	MH	175 250 400			15,225 21,750 34,800	68.68 97.15 153.43		\$78 \$78 3 Total	\$266 \$0 \$0	\$0 \$78 \$0	\$0 \$19 \$0 \$199	\$0 \$78 \$0	\$0 \$405	\$0 \$40 \$0	<b>1,263</b>	13		\$1.85 \$2.30 \$2.90
193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213		Mercury Other	Vapor						B Metered			\$199	\$799	\$405 RATIO	0.51	2,354 0 2,354	35 0 35	\$167 \$0 \$167	

Line No. Α В С D F G 0 Р Q R s

RATE 19 - REDDY GUARD SUMMARY														
	Year End Metered Units Inmetered Metered	Year End Unmetered Units	Year End No. of Units 1,857 954	Estimated Gross Plant Cost \$630,659 \$338,251		Gross Plant \$319,986 \$171,623	Net Plant \$156,946 \$84,177	Unmetered Annual kWh 1,603,301		Total Rate 19 Annual kWh 1,603,301 824,727		Present Annual Rev \$89,322 \$27,372	Cost Based Calculated Annual Rev \$115,054 \$20,960	Pro
Rate U20 - Reddy-Guard - Commercial Rate U20 - Reddy-Guard - Commercial	Unmetered Metered	İ	3,210 1,544	\$1,055,178 \$476,662	42.14% 19.03%	\$535,381 \$241,851	\$262,592 \$118,622	3,824,227	1,879,943	3,824,227 1,879,943	37,708 18,087	\$205,223 \$72,374	\$316,039 \$83,546	\$2
Rate U30 - Public Lighting - Unmetered Rate U30 - Public Lighting - Metered			7 3	\$2,665 \$799	0.11% 0.03%	\$1,352 \$405	\$663 \$199	6,379	2,354	6,379 2,354	97 35	\$514 \$167	\$568 \$125	
otal Rate 19 otal Unmetered otal Metered	2501	5,074	7,575	\$2,504,214	100.00%	\$1,270,599 \$856,719 \$413,880	\$623,200 \$420,201 \$202,999	5,433,907	2,707,024	8,140,931	89,593	\$394,973 \$295,059 \$99,914	\$536,291 \$409,763 \$104,630	\$1
Average Unit Installation Cost (2)				\$330.59		\$167.74						COS Study \$391,458 3,515	\$514,393 \$21,898	\$5
								Rate U20	- Reddy-Gua ate U30 - Pu	ard - Commer blic Lighting - Public Lightir T	cial Metered - Unmetered ng - Metered otal Rate 19	\$334,258	\$180,135	
								Rate U20	- Reddy-Gua ate U30 - Pu	blic Lighting -	cial Metered - Unmetered			
											l Unmetered otal Metered	\$288,305 \$45,953	\$121,458 \$58,676	
NOTES:  1. Current monthly charge exclude 2. Includes Bracket & Fixture 3. Net Operating Expense (NOE) 4. Plant recovery cost is calculate	= Total Ope	erating Exper	nses less Othe	er Operating Re	evenues & Wi	nolesale Reve kpenses	nues Excl Fo	uel and Exterr	al Transmiss	sion				

Rate U10 - Reddy-Guard - Residential Unmetered Rate U10 - Reddy-Guard - Residential Metered Rate U20 - Reddy-Guard - Commercial Unmetered Rate U20 - Reddy-Guard - Commercial Metered Rate U30 - Public Lighting - Unmetered Rate U30 - Public Lighting - Metered		Plant (4)	Revenue Incr/Decr 22.36% 20.06% 26.08% 16.51% 16.92% -1.41%
Total Rate 19 Total Unmetered Total Metered	\$288,305	\$180,135 \$121,458 \$58,676	

- 1. Current monthly charge excludes fuel, ad valorem, and transmission by others charge.
  2. Includes Bracket & Fixture
  3. Net Operating Expense (NOE) = Total Operating Expenses less Other Operating Revenues & Wholesale Revenues Excl Fuel and External Transmission
  4. Plant recovery cost is calculated as difference between Proposed Revenue less Net Operating Expenses

								TA			G COST ANA ON DETAILS			1-€					
Line No.	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	O	Р	Q	R	s
1 2	RATE 56	- COMP	ANY OR C	JSTOME	R OWNED HI	GHWAY, STR	EET AND AR	EA LIGHTING	SYSTEMS										
4 5 6 7 8 9 10 11 12 13 14 15 16	Rev Code SMD37   SMD38   SMD39   SMD40   SMD41   SMD42   SMD43   SMD44   SMD45   SMD46	e Comp HPS HPS HPS HPS HPS HPS HPS HPS HPS HPS	oution Pole Watts Dany Owner 100 * 100 * 150 * 150 250 * 250 * 400 * 400 1000 *		With Pole With Pole With Pole With Pole With Pole	Lumens 11,700 11,700 17,550 29,250 29,250 46,800 46,800 117,000	KWH/MO 49.58 49.58 69.68 107.87 107.87 166.16 166.16 389.94 389.94	# UNITS YR END 131 45 1,071 26 297 151 27 336 0	POLE \$ \$575 \$575 \$575 \$575 \$575	\$185 \$294 \$318 \$327 \$529	\$760 \$760 \$869 \$893 \$902 \$902 \$0 \$0	NET PLANT \$74,970 \$0 \$700,123 \$0 \$199,690 \$0 \$18,327 \$0 \$0 \$0	\$99,618 \$0 \$930,304 \$0 \$265,343 \$0 \$24,352 \$0 \$0	COSTS \$74,970 \$0 \$700,123 \$0 \$199,690 \$18,327 \$0 \$0	TOT \$ INSTALLED \$572 \$0 \$654 \$0 \$672 \$0 \$679 \$0 \$0	ANNUAL KWH 77,386 24,612 882,832 19,620 377,291 188,135 52,651 627,102	ANNUAL UNITS 1,550 498 13,052 292 3,547 1,789 326 3,921	\$7,793 \$513 \$68,463 \$425 \$26,338 \$3,973 \$2,860 \$12,984	CURRENT MONTHLY CHARGE (1) \$5.03 \$1.03 \$5.25 \$1.45 \$7.42 \$2.22 \$8.76 \$3.31 \$18.33 \$8.23
18 19 20 21 22 23	SMD47   SMD48   SMD49   SMD50   SMD51   SMD52   SMD53   SMD54	MV MV MV MV MV MV	175 * 175 250 * 250 * 400 * 400 1000 *		With Pole With Pole With Pole With Pole	8,750 8,750 12,500 12,500 20,000 20,000 50,000 50,000	72.36 72.36 100.84 100.84 158.79 158.79 380.23 380.23	2,591 238 51 6 16 5 12	\$575 \$575 \$575 \$575	\$443 \$471 \$549 \$762	\$1,018 \$0 \$1,047 \$0 \$1,124 \$0 \$1,337	\$1,985,952 \$0 \$40,167 \$0 \$13,534 \$0 \$12,074	\$2,638,878 \$0 \$53,372 \$0 \$17,983 \$0 \$16,043	\$0	\$766 \$0 \$788 \$0 \$846 \$0 \$1,006	2,202,890 190,918 57,482 7,320 29,472 9,820 15,339	30,864 2,827 577 75 187 62 39	\$103,010 \$4,207 \$2,437 \$141 \$1,178 \$208 \$464	\$3.34 \$1.49 \$4.22 \$1.92 \$6.27 \$3.37 \$11.89 \$7.04
26 27 28	SMD55   SMD56   SMD57   SMD58	MH MH	250 * 250 400 * 400		With Pole With Pole	21,750 21,750 34,800 34,800	97.15 97.15 153.43 153.43	4 0 1 0	\$575 \$575	\$386 \$456	\$962 \$0 \$1,031 \$0	\$2,895 \$0 \$776 \$0	\$3,846 \$0 \$1,031 \$0	\$2,895 \$0 \$776 \$0	\$724 \$0 \$776 \$0	2,354 2,061	24 13	\$187 \$122	\$7.65 \$2.45 \$9.04 \$3.59
31 32 33 34 35 36								807	Total Company Ow Customer Ow Check	rned rned		\$0	\$4,050,773 \$0 \$4,050,773	\$0	0.75	4,767,285 3,699,758 1,067,527	59,643 50,179 9,464	\$235,302 212,852 22,450	
37 38 39 40 41 42 43 445 46 47 48 49 51 52 53 54 55 66 67 68 69 67 71	[	Mercurý \ Other - C	/apor - Com /apor - Cust ompany Ow ustomer Ow	tomér Ov med												2,305,183 208,058 1,394,575 859,469	31,667 2,964 18,512 6,500	\$107,090 \$4,555 \$105,763 \$17,895	

Line								TA	BLE 7 - COS	T CALCUATI	ON DETAILS	SUPPORTIN	IG TABLES	1-€					
No.	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	О	P	Q	R	S
73 74 75 76 77 78 79 80 81 82 83	Rev Coc SMM01 SMM02 SMM03 SMM04 SMM05 SMM06 SMM07 SMM08 SMM08	de C HPS HPS HPS HPS HPS HPS HPS	150 1 250 2 400	vned (*) ) * 00 ) * 50 ) * 50 ) * 50 ) * 50 ) *	With Pole With Pole With Pole With Pole	Lumens 11,700 11,700 17,550 17,550 29,250 29,250 46,800 46,800 117,000	KWH/MO 49.58 49.58 69.68 69.68 107.87 106.16 166.16 389.94 389.94	# UNITS YR END 0 10 450 90 806 10 420 825 0 0	INSTALL & POLE \$ \$771 \$771 \$771 \$771	FIXTURE & BRACKET \$ \$185 \$294 \$318 \$327 \$529	TOTAL \$ INSTALLED \$0 \$0 \$1,065 \$0 \$1,090 \$1,098 \$0 \$50 \$0			SCALED TO GROSS PLT COSTS \$0 \$0 \$360,597 \$0 \$660,899 \$0 \$347,081 \$0 \$0 \$0 \$0	SCALED TOT \$ INSTALLED \$0 \$0 \$801 \$0 \$820 \$0 \$826 \$0 \$826 \$0 \$0 \$0 \$0	ANNUAL KWH 5,509 370,705 82,560 1,016,287 13,104 802,619 1,615,082	ANNUAL UNITS 112 5,332 1,197 9,503 123 4,976 10,042	ANNUAL BASE REVENUES \$115 \$71,958 \$1,729 \$145,595 \$271 \$82,398 \$33,265	CURRENT MONTHLY CHARGE (1) \$13.28 \$1.03 \$13.50 \$1.45 \$15.32 \$2.22 \$16.56 \$3.31 \$26.28 \$8.23
87 88 89 90 91 92	SMM11 SMM12 SMM13 SMM14 SMM15 SMM16 SMM17 SMM18	MV MV MV MV MV	250 2 400	75 ) * 50 ) * 00 ) *	With Pole With Pole With Pole With Pole	8,750 8,750 12,500 12,500 20,000 20,000 50,000	72.36 72.36 100.84 100.84 158.79 158.79 380.23 380.23	1 0 55 0 52 0 0	\$771 \$771 \$771 \$771	\$443 \$471 \$549 \$762	\$1,215 \$0 \$1,243 \$0 \$1,320 \$0 \$0 \$0	\$413 \$0 \$23,223 \$0 \$23,324 \$0 \$0 \$0	\$1,215 \$0 \$68,347 \$0 \$68,646 \$0 \$0	\$914 \$0 \$51,436 \$0 \$51,661 \$0 \$0	\$914 \$0 \$935 \$0 \$993 \$0 \$0 \$0	894 63,365 92,656	12 622 580	\$118 \$7,081 \$7,624	\$9.59 \$1.49 \$11.37 \$1.92 \$13.17 \$3.37 \$20.19 \$7.04
95 96 97 98		MH	179 250 400	) *	With Pole With Pole With Pole	21,750 20,000 8,750	68.68 97.15 153.43	1 1 4	\$771 \$771 \$771	\$466 \$549 \$443	\$1,237 \$1,320 \$1,215	\$420 \$449 \$1,651	\$1,237 \$1,320 \$4,859	\$931 \$993 \$3,656	\$931 \$993 \$914	1,331 2,052 3,444	12 12 49	\$193 \$207 \$665	\$14.98 \$18.00 \$20.42
99 100	SMM22	HPS		50		5,850	24.79	4			\$0	\$0	\$0	\$0	\$0	2,448	49	\$25	\$0.51
101 102	SLM15	LED		50			47.91	97			\$0	\$0	\$0	\$0	\$0	57,956	1,205	\$1,199	\$0.99
103 104 105 106 107 108								1,036	Total Company Ov Customer Ov Check			\$0	\$1,964,151 \$0 <b>\$1,964,151</b>	\$1,478,169 \$1,478,169 \$0 \$1,478,169 RATIO	0.75	4,130,012 2,353,353 1,776,659	33,826 21,098 12,728	\$352,444 \$315,839 \$36,604	
109 110 1111 112 113 114 115 116 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 132 133 134 135 136 137 138 139 141 141		Mercu Other	ury Vapor - I ury Vapor - I - Company - Customer	Customer Owned												156,915 0 2,196,438 1,776,659	1,214 0 19,884 12,728	\$14,823 \$0 \$301,016 \$36,604	

Lina								TA	BLE 7 - COS	T CALCUATI	ON DETAILS	SUPPORTI	NG TABLES 1	I <b>-</b> €					
Line No.		В	С	D	E	F	G	н	I	J	K	L	M	N	О	Р	Q	R	S
143 144 145 146 147 148 149 150 151 152 153 154	SMW19 H SMW20 H SMW21 H SMW22 H SMW23 H SMW24 H SMW25 H SMW26 H SMW27 H	Compa IPS IPS IPS IPS IPS IPS IPS IPS	Pole Mount Watts any Owned 100 * 150 * 150 * 250 * 250 * 400 * 400 0	•	With Pole With Pole With Pole With Pole With Pole	Lumens 11,700 11,700 17,550 17,550 29,250 29,250 46,800 46,800 117,000	KWH/MO 49.58 49.58 69.68 69.68 107.87 107.87 166.16 166.16 389.94	# UNITS YR END 281 0 1,346 527 0 555 0 0	INSTALL & POLE \$ \$575 \$575 \$575 \$575 \$575 \$575	\$294 \$318 \$327	TOTAL \$ INSTALLED \$760 \$0 \$869 \$0 \$893 \$0 \$9902 \$0 \$0 \$0	NET PLANT \$72,605 \$0 \$397,260 \$0 \$159,976 \$0 \$16,855 \$0 \$0	ESTIMATED PLT COSTS \$213,685 \$0	SCALED TO GROSS PLT COSTS \$160,814 \$0 \$879,893 \$0 \$354,332 \$0 \$37,332 \$0 \$0 \$0 \$0	SCALED TOT \$ INSTALLED \$572 \$0 \$654 \$0 \$672 \$70 \$679 \$0 \$0 \$0	ANNUAL KWH 162,007 1,091,030 662,573 82,892	ANNUAL UNITS 3,264 16,219 6,225 533	ANNUAL BASE REVENUES \$25,067 \$128,055 \$65,802 \$6,281	CURRENT MONTHLY CHARGE (1) \$7.68 \$1.03 \$7.90 \$1.45 \$10.57 \$2.22 \$11.81 \$3.31 \$21.58 \$8.23
156 157 158 159 160 161 162 163 164	SMW29 N SMW30 N SMW31 N SMW32 N SMW34 N SMW35 N	AV AV AV AV AV	175 * 175 250 * 250 * 250 400 * 400 1000 *		With Pole With Pole With Pole With Pole	8,750 8,750 12,500 12,500 20,000 20,000 50,000	72.36 72.36 100.84 100.84 158.79 158.79 380.23 380.23	2,036 0 45 0 56 0	\$575 \$575 \$575 \$814	\$471 \$471	\$1,018 \$0 \$1,047 \$0 \$1,047 \$0 \$0 \$0 \$0	\$704,570 \$0 \$16,001 \$0 \$19,913 \$0 \$0	·	\$1,560,555 \$0 \$35,441 \$0 \$44,105 \$0 \$0	\$766 \$0 \$788 \$0 \$788 \$0 \$0 \$0	1,720,304 50,094 91,924 0	24,005 509 592 0	\$140,123 \$4,587 \$5,915 \$0	\$5.84 \$1.49 \$9.02 \$1.92 \$9.97 \$3.37 \$16.34 \$7.04
166 167			250 * 400 *		With Pole With Pole	21,750 20,000	97.15 153.43	1 3	\$575 \$575		\$1,047 \$1.047	\$356 \$1.067	\$1,047 \$3,140	\$788 \$2,363	\$788 \$788	<b>1,335</b> 6.118	<b>12</b> 36	<b>\$134</b> \$444	\$13.25 \$15.67
168 169 170 171 172 173						_5,666	100110	4,350 4,350 0	Company Ov Customer Ov Check	vned	ψ.,σ	\$1,388,604 \$1,388,604 \$0	\$4,086,803 \$0 \$4,086,803	\$3,075,622 \$3,075,622 \$0	0.75	3,868,277 3,868,277 0	51,395 51,395 0	\$376,408 \$376,408 \$0	<b>V</b> .0.01
175 176 177 178 179 180 181 182 183 184 185 186 187 190 191 192 193 194 195 196 201 202 203 204 205 206 207 208 209 210 211 212 213	N C C	Nercury Va Other - Co	apor - Com apor - Cust mpany Owi stomer Owi	omer O												1,862,322 0 2,005,955 0	25,106 0 26,289 0	\$150,625 \$0 \$225,782 \$0	

Line No. Α В С D F G М 0 Р Q R S

214 RATE 56 - COMPANY OR CUSTOMER OWNED HIGHWAY, STREET AND AREA LIGHTING SYSTEMS SUMMARY

tate U30 - Distribution Pole Mounting Company ( tate U30 - Distribution Pole Mounting Company ( tate U30 - Distribution Pole Mounting Customer ( tate U30 - Metal Pole Mounting Company Owned tate U30 - Metal Pole Mounting Customer Owned tate U30 - Wood Pole Mounting Company Owned tate U30 - Wood Pole Mounting Customer Owned tate U30 - STKLR (Kaylor Cust Owned)	Year End Units 4,201 807 1,790 1,036 4,350 0	Year End Year End # of Units 4,201 807 1,790 1,036 4,350 0 50	Estimated Plant Cost \$4,050,773 \$0 \$1,964,151 \$0 \$4,086,803 \$0	Estimated Plant Cost % 40.10% 0.00% 19.44% 0.00%	Gross Plant \$3,048,507 \$0 \$1,478,169 \$0 \$3,075,622 \$0	\$0 \$667,374 \$0		Cust Owned Annual kWh 1,067,527 1,776,659 0		Annual Units 50,179 9,464 21,098 12,728 51,395 0 609	Present Annual Rev \$212,852 \$22,450 \$315,839 \$36,604 \$376,408 \$0 \$1,744	Cost Based Calculated Annual Rev \$444,172 \$19,535 \$313,287 \$31,678 \$465,214 \$0	Propo
otal Rate 56 otal Company Owned otal Customer Owned Company Owned Average Unit Installation Cost	12,184 10,341 1,843	12,234 10,341 1,893	\$10,101,726 \$10,101,726 \$0 \$829.10	100.00%	\$7,602,298 \$7,602,298 \$0 <b>\$623.96</b>	\$3,432,339 \$0	9,921,388 9,921,388 0	2,844,186 0 2,844,186	12,765,574 9,921,388 2,844,186	145,473 122,672 22,801	\$905,099 \$60,798 COS Study	\$1,273,886 \$1,222,673 \$51,213 \$1,250,439	\$1,176 \$73
ompany consumeration and the second			<del>-</del>		<b>40-000</b>						19,403 2.05%	\$23,447	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
						Rate U	J30 - Distribu I30 - Distribu Rate U30 - N Rate U30 - W Rate U30 - W Rate U30 - W	tion Pole Mo letal Pole Mo letal Pole Mo lood Pole Mo	unting Custo ounting Com ounting Custo ounting Com	omer Owned pany Owned omer Owned pany Owned		Plant (4)	Rever Incr/E 30 19 21 20 19
									Total Com	otal Rate 56 pany Owned omer Owned	\$1,025,554	\$189,593 \$175,307 \$14,286	

Rate U30 - Distribution Pole Mounting Company Owner Rate U30 - Distribution Pole Mounting Customer Owner Rate U30 - Metal Pole Mounting Company Owner Rate U30 - Metal Pole Mounting Customer Owner Rate U30 - Wood Pole Mounting Company Owner Rate U30 - Wood Pole Mounting Customer Owner	 	Plant (4)	Revenue Incr/Decr 30.83% 19.93% 21.25% 20.01% 19.54% N/A
Total Rate 56 Total Company Owned Total Customer Owned	\$1,025,554	\$189,593 \$175,307 \$14,286	

270 NOTES: 271 1 272 2 273 3

- .

  1. Current monthly charge excludes fuel, ad valorem, and transmission by others charge.

  2. Rate U30 kWh are estimated based kwh/Month \* No of Units

  3. Net Operatin Expense (NOE) = Total Operating Expenses less Other Operating Revenues & Wholesale Revenues Excl Fuel and External Transmission

  4. Plant Recovery cost is calculated as difference between Proposed Revenue less Net Operating Expenses

# NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 8 - FUNCTIONAL SYSTEM COSTS SUMMARY PER KWH

			IADLE	6 - FUNCTIONA	LSTSTEWICC	JS IS SUIVINA	KI PEK KWH							
	Α	В	С	D	E	F	F	G	н	I	J	K	L	М
Line		CURRENT	PROPOSED				PROPOSED							
No.		REVENUE	REVENUE		KWH		REVENUE							
		@ 3.91%	@ 7.76%		(COS)		\$/KWH							
1	Reddy-Guard (Rate 19)	000.405	***		5 400 007		00.00745							
2	Production	\$22,185	\$38,833		5,433,907		\$0.00715							
3 4	Transmission	\$11,794	\$19,776		5,433,907		\$0.00364							
5	Distribution Substations & Primary	\$54,166	\$77,181		5.433.907		\$0.01420							
6	Secondary	\$27,708	\$43,744		5,433,907		\$0.00805							
7	Total Distribution	\$81,874	\$120,925		3,433,307		\$0.00003							
8	Services, Meters, & Meter Reading	\$0	\$0		5,433,907		\$0.00000							
9	Street Lighting	\$160,716	\$207,018		5,433,907		\$0.03810							
10	Customer Rec & Other	\$110,043	\$119,484		5,433,907		\$0.02199							
11	Energy (non fuel)	\$4,846	\$8,357		5,433,907		\$0.00154							
12	Fuel	\$0	\$0											
13	Subtotal Rate 19 (Excl Fuel) - COS Rev	\$391,458	\$514,393				\$0.09466	System Charg	es per kWh					
14	Subtotal Rate 19 (Excl Fuel) - Input Rev	\$394,973												
15	Subtotal Rate 19 (Excl Fuel) - Proposed R	ev	\$514,394											
16														
17	Highway, Street & Area Lighting (Rate 56)	***	450 500		10 771 050		Фо осоос							
18 19	Production Transmission	\$23,537 \$13,980	\$50,583 \$26,945		12,771,953 12,771,953		\$0.00396 \$0.00211							
20	Distribution	\$13,900	\$20,945		12,771,933		φυ.υυ2 1 1							
21	Primary	\$88,087	\$125,827		12,771,953		\$0.00985							
22	Secondary	\$37,791	\$64,096		12,771,953		\$0.00502							
23	Total Distribution	\$125,878	\$189,923		.2,,000		\$0.01487							
24	Metering	\$0	\$0		12,771,953		\$0.00000							
25	Street Lighting	\$760,112	\$953,109		12,771,953		\$0.07463							
26	Customer Rec & Other	\$17,581	\$18,711		12,771,953		\$0.00147							
27	Energy (non fuel)	\$5,406	\$11,168		12,771,953		\$0.00087							
28	Fuel	\$0	\$0											
29	Subtotal Rate 56 (Excl Fuel) - COS Rev	\$946,494	\$1,250,439				\$0.09791	System Charg	es per kWh					
30	Subtotal Rate 56 (Excl Fuel) - Input Rev	\$965,897	¢4 050 400											
31 32	Subtotal Rate 56 (Excl Fuel) - Proposed R	ev	\$1,250,438											
33	Total Lighting - COS Revenue	\$1,337,952	\$1,764,832											
34	Total Lighting - Input Revenue	\$1,360,870	ψ.,.σ.,σσ <u>2</u>											
35	Total Lighting - Proposed Lighting Study Re		\$1,764,832											
36			(\$0)	Difference										
37	_													
38	SUMMARY OF CALCULATED COSTS PER KW			COMP	ANY OWNED						CUSTOME			
39 40		RATE 19	RATE 19 NOE	DATE 40	RATE 19 NOE	RATE 56	RATE 56 NOE	DATE SC	RATE 19	RATE 19	DATE 40	RATE 56	RATE 56	DATE EC
40 41	DATA SOURCE:	PLANT TABLE 9	TABLE 11A	RATE 19 TOTAL	TABLE 11A	PLANT TABLE 9	TABLE 11A	RATE 56 TOTAL	PLANT (1) TABLE 9	NOE TABLE 11B	RATE 19 TOTAL	PLANT (1) TABLE 9	NOE TABLE 11B	RATE 56 TOTAL
42	JAIA GOGROL	UNMETERED	IADEL IIA	UNMETERED	METERED	INDEL	ADEL HA	·O·AL	INDEL	ADEL III	IOIAL	INDEL	. ADEL 110	IOIAL
43	PRODUCTION	\$0.00378	\$0.00513	\$0.00513		\$0.00601	\$0.00357	\$0.00958			\$0.00000	\$0.00601	\$0.00244	\$0.00845
44			*********	Ţ			********	,			,		******	
45	TRANSMISSION	\$0.00180	\$0.00235	\$0.00235		\$0.00287	\$0.00163	\$0.00450			\$0.00000	\$0.00287	\$0.00111	\$0.00398
46			4-											
47	DISTRIBUTION	\$0.00891	\$0.01850	\$0.01850		\$0.01430	\$0.01297	\$0.02727			\$0.00000	\$0.01430	\$0.00886	\$0.02316
48 49	BEDDY LIGHTING (Boto 10) LINMETERED	¢n n2040	\$0.02707	\$0.06556		\$0.00000	\$0.00000	\$0.00000			20000 02		\$0.00000	200000
50	REDDY LIGHTING (Rate 19) - UNMETERED METERED	\$0.03849 \$0.03593	φυ.υ2/0/	φ0.0005b	\$0.01698	φυ.υυυυυ	φυ.υυυυυ	φυ.υυυυυ			\$0.00000		φυ.υυυυυ	\$0.00000
51	HIGHWAY, ST, & SGNL LTG (Rate 56)	ψυ.υυυυυ	\$0.00000	\$0.00000	ψ0.01030	\$0.10347	\$0.08520	\$0.18867			\$0.00000	\$0.00000	\$0.00000	\$0.00000
52			ψο.οοσσο	ψο.οοσσο		ψ00047	Ţ <u>-</u>	300007			20.00000	ψ0.00000	40.0000	\$0.0000
53	SUBTOTAL		\$0.05305	\$0.09154	\$0.01698	\$0.12665	\$0.10337	\$0.23002	\$0.00000	\$0.00000	\$0.00000	\$0.02318	\$0.01241	\$0.03559
54	-					\$0.03132						\$0.00542		
55	0.40==1.011.00=0========================			UNMETERED	METERED									
56	SYSTEM CHARGES PER KWH APPILCABLE	TO LIGHTING I	KWH ESTIMATE	\$0.09154	\$0.05291			\$0.13469						\$0.01783
57 59	LED Fragge O	MotorodICD	£0.0675 <i>4</i>	Unmetered LED	¢0.01600	Company	unod LED FOR	0.04125				Cuntomar	wood I ED FA	¢0 02550
58 59	LED Energy Costs:	Metered LED	<b>Φ</b> 0.00/ 04	Omnetered LED	φυ.01096	Company Ov	wned LED - 56 S	90.04135				Customer Ov	vned LED - 56	\$0.03559

Notes:
60 (1) Plant costs for customer-owned lighting are not included in metered rates since customer has incurred the costs
61 (2) Net Operating Expenses (NOE) are calculated as Total Operating Expense less Other Operating Revenue and Wholesale Revenue

## NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 9 - NET PLANT AND FUNCTIONAL COST DEVELOPMENT

Line No.	A	B UMETERED RATE 19 NET PLT	C METERED RATE 19 NET PLT	D Co Owned RATE 56 NET PLT (5)	E Cust Owned RATE 56 NET PLT (5)	F TOTAL LIGHTING NET PLT	G TOTAL RATE 19 LTG PLT REV RECOVER®	H Co Owned RATE 56 LTG PLT	I Cust Owned RATE 56 LTG PLT	J RATE 19 SALES	K Co Owned RATE 56 SALES	L Cust Owned RATE 56 SALES	M RATE 19 I \$/KWH	N Co Owned ( RATE 56 UNIT COSTS \$/KWH	RATE 56
2	PROPROSED REVENUE FACTOR						KLV KLCOVLK	LV KLCOVLK	NEW RECOVER I	9.68%	16.87%	16.87%	φ//((44))	φ/ FX V V I I	φ//\\\
3 <b>PI</b> 4 5	RODUCTION (1) PRODUCTION	\$212,120		\$353,548	\$101,352	\$667,020	\$20,542	\$59,654	\$17,101	5,433,907	9,921,388	2,844,186	\$0.00378	\$0.00601	\$0.00601
6 <b>TF</b> 7	RANSMISSION (2) TRANSMISSION	\$101,244		\$168,748	\$48,375	\$318,367	\$9,804	\$28,473	\$8,162	5,433,907	9,921,388	2,844,186	\$0.00180	\$0.00287	\$0.00287
10	STRIBUTION (3) PRIMARY SUBSTATIONS	\$118,297		\$199,153	\$57,092	\$374,542	\$11,456	\$33,603	\$9,633	5,433,907	9,921,388	2,844,186	\$0.00211	\$0.00339	\$0.00339
11 12	PRIMARY LINES	\$177,900		\$299,495	\$85,857	\$563,252	\$17,228	\$50,534	\$14,487	5,433,907	9,921,388	2,844,186	\$0.00317	\$0.00509	\$0.00509
13 14	SECONDARY LINES	\$96,857		\$163,058	\$46,744	\$306,659	\$9,380	\$27,513	\$7,887	5,433,907	9,921,388	2,844,186	\$0.00173	\$0.00277	\$0.00277
15 16	TRANSFORMERS	\$106,451		\$179,210	\$51,375	\$337,036	\$10,309	\$30,238	\$8,668	5,433,907	9,921,388	2,844,186	\$0.00190	\$0.00305	\$0.00305
17 18	SERVICES	\$0		\$0	\$0	\$0									
19 20	METERS	\$0		\$0	\$0	\$0									
21 22	LIGHTING														
23 24 25 26	371 - INSTALL ON CUST PREM-UNMET (7 371 - INSTALL ON CUST PREM-METERED		\$202,999	\$0	\$0	\$623,200	\$40,692 \$19,658	\$0	\$0	3,155,618 1,633,080			\$0.01290 \$0.01204	\$0.00000	\$0.00000
27 28	372 - LEASED PROPERTY	\$0		\$0	\$0	\$0	\$0	\$0	\$0						
29 30	373 - ST LTG & SIGNAL SYS (7)	\$0		\$3,432,339	\$0	\$3,432,339	\$0	\$579,139	\$0		5,596,968	2,636,128	\$0.00000	\$0.10347	\$0.00000
31 32 33	SUBTOTAL LIGHTING	\$420,201	\$202,999	\$3,432,339	\$0	\$4,055,539	\$60,351	\$579,139	\$0						
34 TO 35 TO	OTAL NET PLANT OTAL NET PLANT (COS STUDY CHECK) OTAL CALCULATED PORTION OF NET PLANT	\$1,233,070 <b>\$1,436,068</b> \$121,458	\$202,999 \$58,676	\$4,795,551 <b>\$5,186,347</b> \$175,307 \$189,593	\$390,795 \$14,286	\$6,622,415 <b>\$6,622,415</b>	\$139,069	\$809,153	\$65,939				\$0.03943	\$0.12665	\$0.02318
39 <b>B</b> /40 41	ASE REVENUE FACTORS		REVENUE EXCLUDING &M FUEL & ET	TOTAL COMPANY NET PLANT	REVENUE PER NET PLANT \$ (4)				SUMMARY OF PLA			RATE 19 PER KWH METERED	RATE 56 PER KWH CO OWNED		ED
43	ATE 19 - REDDY-GUARD PRESENT	\$391,458	\$16,128	\$1,436,068	1.12%				PRODUCTION (1)		\$0.00378		\$0.00601	\$0.00601	
44 45	PROPOSED INCREASE	\$514,393 \$122,935	\$139,063 \$122,935	\$1,436,068	9.68%				TRANSMISSION (2	2)	\$0.00180		\$0.00287	\$0.00287	
46 47	PERCENT INCREASE BASE TOTAL O&M W/O FUEL & EXTERNAL TRAN	\$0.31 \$375,330	\$7.62						DISTRIBUTION (3)		\$0.00891		\$0.01430	\$0.01430	
	ATE 56 - HIGHWAY, STREET & AREA LIGHTING	}							REDDY-GUARD LI	GHTING	\$0.01290	\$0.01204	\$0.00000	\$0.00000	
50 51	PRESENT PROPOSED	\$946,494 \$1,250,439	(\$111,659) \$875,109	\$5,186,347 \$5,186,347	-2.15% 16.87%				HIGHWAY, ST, & S	GNL LTG	\$0.00000		\$0.10347	\$0.00000	
52 53 54	INCREASE PERCENT INCREASE BASE TOTAL O&M W/O FUEL & EXTERNAL TRAN	\$303,945 \$0.32 \$1,058,153	\$986,768 (\$8.84)						TOTAL PLANT TOTAL CALCULAT	ED PLANT (5	\$0.02739 \$0.03849	\$0.01204 \$0.03593	\$0.12665 \$0.03132	\$0.02318 \$0.00542	
55 56 No	otes: (1) Production kWh charge excludes hase fuel ex	nansas							Note: kWh charge	rounded to 5	decimals.				

- 56 Notes:
  57 (1) Production kWh charge excludes base fuel expenses.
  58 (2) Transmission kWh charge excludes external transmission expenses.
  59 (3) Distribution kWh charge excludes services, meters, and meter reading expenses.
  60 (4) Factor is calculated as (Total Present Revenues less Operating Expense) divided by Total Net Plant, rounded to 5 decimals
  61 (5) Total plant charges are calculated using net plant (Table 7) divided by kWh sales
  61 (6) KWh sales for mercury vapor units are not included

# NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 10 - FUNCTIONAL GROSS PLANT, ACCUMULATED DEPRECIATION, & NET PLANT

	Α	В	С	D	E	F	G	н	1	J	K	L	М	N
Lin			GROSS PLAN			JM DEPRECIA			TOMER DISTR		D-1-40	NET PLANT	Tatalita	TOTAL LTG
No	•	Rate 19	Rate 56	Total Ltg	Rate 19	Rate 56	Total Ltg	Rate 19	Rate 56	Total Ltg	Rate 19	Rate 56	Total Ltg	% DEP
1 2 3	PRODUCTION PRODUCTION	\$310,669	\$723,779	\$1,034,448	\$116,187	\$270,686	\$386,873	\$17,637.93	\$1,806.90	\$19,445	\$212,120	\$454,900	\$667,020	37.40%
4 5 6 7	TRANSMISSION TRANSMISSION	\$142,106	\$331,071	\$473,177	\$49,280	\$114,811	\$164,092	\$8,418.54	\$862.43	\$9,281	\$101,244	\$217,123	\$318,367	34.68%
8 9 10	DISTRIBUTION PRIMARY SUBSTATIONS	\$146,066	\$343,721	\$489,787	\$37,606	\$88,494	\$126,100	\$9,836.48	\$1,017.82	\$10,854	\$118,297	\$256,245	\$374,542	25.75%
11 12		\$295,728	\$695,900	\$991,628	\$132,620	\$312,079	\$444,699	\$14,792.54	\$1,530.65	\$16,323	\$177,900	\$385,352	\$563,252	44.85%
13 14	SECONDARY LINES	\$153,313	\$360,773	\$514,085	\$64,510	\$151,803	\$216,313	\$8,053.71	\$833.35	\$8,887	\$96,857	\$209,803	\$306,659	42.08%
15 16	TRANSFORMERS	\$121,643	\$286,249	\$407,892	\$24,044	\$56,579	\$80,623	\$8,851.48	\$915.90	\$9,767	\$106,451	\$230,585	\$337,036	19.77%
17 18	SERVICES	\$0	\$0	\$0	\$0	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0	\$0	
19 20	METERS	\$0	\$0	\$0	\$0	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0	\$0	
21 22	LIGHTING													
23 24 25	371 - INSTALL ON CUST PREM	\$1,270,599	\$0	\$1,270,599	\$699,219	\$0	\$699,219	\$51,819.59	\$0.00	\$51,820	\$623,200	\$0	\$623,200	55.03%
26 27	372 - LEASED PROPERTY	\$0	\$0	\$0	\$0	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0	\$0	
28 29	373 - ST LTG & SIGNAL SYS	\$0	\$7,602,298	\$7,602,298	\$0	\$4,183,593	\$4,183,593	\$0.00	\$13,633.49	\$13,633	\$0	\$3,432,339	\$3,432,339	55.03%
30 31	SUBTOTAL LIGHTING	\$1,270,599	\$7,602,298	\$8,872,897	\$699,219	\$4,183,593	\$4,882,811	\$51,820	\$13,633	\$65,453	\$623,200	\$3,432,339	\$4,055,539	55.03%
32 33 34 35 36 37 38	CUSTOMER DISTRIBUTION (1) CUSTOMER METER READING CUSTOMER RECORDS CUSTOMER SERVICE & INFO SUBTOTAL CUSTOMER DISTRIBUTION	\$0 \$25,632 \$142,919 \$168,552	\$0 \$3,917 \$25,162 \$29,078	\$0 \$29,549 \$168,081 \$197,630	\$0 \$7,473 \$41,668 \$49,141	\$0 \$1,142 \$7,336 \$8,478	\$0 \$8,615 \$49,004 \$57,619	\$119,410	\$20,601	\$140,011				29.16% 29.16% 29.16%
39 40		\$2,608,675	\$10,372,869	\$12,981,544	\$1,172,607	\$5,186,523	\$6,359,130	\$119,410	\$20,601	\$140,011			\$0.01	48.99%
41 42														
43 44		\$2,440,123	\$10,343,791	\$12,783,914	\$1,123,465	\$5,178,045	\$6,301,510				\$1,436,068	\$5,186,347	\$6,622,415	
45 46 47 48 49													\$6,482,404 \$140,011 ch	eck
50 51 52 53 54 55	Notes: (1) Customer Distribution is allocated to Produ (2) Source for Gross Plant and Accumulated D						l-16-14.xls"							

# NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 11A - FUNCTIONAL NET OPERATING EXPENSE DETAIL AND UNIT COSTS (COMPANY OWNED

Line No.		B RATE 19 LIGHTING NET OPER EXPENSE (4)	C RATE 56 LIGHTING NET OPER EXPENSE (4)	D RATE 19 CUSTOMER DIST EXPENSE	E RATE 56 CUSTOMER DIST EXPENSE	F RATE 19 TOTAL LIGHTING NOE	G RATE 56 CO OWNED TOTAL LIGHTING NOE	H RATE 19 SALES KWH (5)	I RATE 56 CO OWNED SALES KWH (5)	J RATE 19 UNMETERED COSTS PER KWH F	COSTS	L RATE 56 UNIT NOE COSTS PER KWH
1 2 3 4 5 6	PRODUCTION GROSS PRODUCTION EXPENSE BASE FUEL BASE AND ENERGY	\$170,950 <b>\$153,274</b> <b>\$17,676</b>	\$339,745 <b>\$304,873</b> <b>\$34,872</b>	\$10,214	\$526	\$27,889	\$35,397	5,433,907	9,921,388	\$0.00513		\$0.00357
7 8 9 10	TRANSMISSION TRANSMISSION EXTERNAL TRANSMISSOIN	\$8,090 \$14,103	\$15,931 \$28,052	\$4,675	\$240	\$12,764	\$16,171	5,433,907	9,921,388	\$0.00235		\$0.00163
11 12 13	DISTRIBUTION PRIMARY SUBSTATIONS	\$12,068	\$24,003	\$6,973	\$362	\$19,041	\$24,365	5,433,907	9,921,388	\$0.00350		\$0.00246
14	PRIMARY LINES	\$31,399	\$62,455	\$18,143	\$941	\$49,542	\$63,396	5,433,907	9,921,388	\$0.00912		\$0.00639
15 16	SECONDARY LINES	\$16,041	\$31,906	\$9,269	\$481	\$25,310	\$32,387	5,433,907	9,921,388	\$0.00466		\$0.00326
17 18	LINE TRANSFORMERS	\$4,219	\$8,392	\$2,438	\$126	\$6,657	\$8,518	5,433,907	9,921,388	\$0.00123		\$0.00086
19 20	SERVICES	\$0	\$0									
21 22	METERS	\$0	\$0									
23 24 25 26 27 28 29	LIGHTING REDDY-GUARD - UNMETERED REDDY-GUARD - METERED HIGHWAY, STREET, & AREA LIGHTING TOTAL LIGHTING	\$93,230 \$45,953 \$0 \$139,183	\$0 \$832,768 \$832,768	\$53,871 \$0	\$0 \$12,552	\$147,101 \$0	\$0 \$845,319	5,433,907 2,707,024	9,921,388	\$0.02707 \$0.00000	\$0.01698	\$0.00000 \$0.08520
30 31 32	TOTAL DIST OPERATING EXP EXPENSE TOT DIST EXCL SERV, METERS, & LTG	\$202,910 \$63,726	\$959,524 \$126,756	\$90,695	\$14,462	\$247,651 \$100,550	\$973,986 \$128,667					
32 33 34 35 36 37 38 39	CUSTOMER DISTRIBUTION  CUSTOMER METER READING CUSTOMER RECORDS CUSTOMER SERVICE & INFO TOTAL CUSTOMER DISTRIBUTION TOTAL CUST DIST EXCL MET READING	\$0 \$24,627 \$80,956 \$105,583 \$105,583	\$0 \$3,181 \$12,047 \$15,228 \$15,228	\$105,583	\$15,228	\$288,305	\$1,025,554	SUMMARY		RATE 19 PER KWH UNMETERED \$0.00513	RATE 19 PER KWH	RATE 56 PER KWH CO OWNED \$0.00357
40				Ψ100,000	Ψ10,220	Ψ200,303	ψ1,020,004	TRANSMIS	SION (2)	\$0.00235		\$0.00163
41 42	TOTAL NET OPER EXP EXPENSE (7) TOTAL NET OPER EXP EXPENSE (COS Check)	\$501,636 <b>\$501,636</b>	\$1,358,480 <b>\$1,454,715</b>					DISTRIBUT	ION (3)	\$0.01850		\$0.01297
43 44 45	TOTAL NOE EXCL BASE FUEL & EXT TRANSM	\$334,258	\$1,025,554					REDDY-GU	ARD LIGHTING	\$0.02707	\$0.01698	\$0.00000
45 46 47	TOTAL NET OPER EXP EXCL FUEL, EXT TRANSM	\$182,722	\$1,010,326					HIGHWAY,	ST, & SGNL LTC	\$0.00000		\$0.08520
47 48 49	SERVICES, METERS, MET LTG & CUST DIST							TOTAL OPE	ERATING EXP	\$0.05305	\$0.01698	\$0.10337
	Notes: (1) Production kWh charge excludes peak production	and base fuel ex						Note: kWh	charge rounded t	to 5 decimals.		

- 52 53 54 55 56 57 58
- Note: KV

  (1) Production kWh charge excludes peak production and base fuel expenses.

  (2) Transmission kWh charge excludes external transmission expenses.

  (3) Distribution kWh charge excludes services, meters, and meter reading expenses.

  (4) Detail Net Operating Expense (NOE) from Workpaper 4

  (5) kWh Sales are actual consumption for these units. The kWh for customer owned are not included in COS model in the lighting rate but are booked in class where owned

  (6) Metered Unit Cost includes Net Operating Expenses associated with only metered units

  (7) Net Operating Expense (NOE) exclude Ad Valorem Expenses

# NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 11B - FUNCTIONAL NET OPERATING EXPENSE DETAIL AND UNIT COSTS (CUSTOMER OWNED

Line No.	А	B TOTAL RATE 56 STREET LTG OPER EXP	C CUST OWNED RATE 56 STREET LTG OPER EXP	E RATE 56 CUSTOMER DISTRIBUTION EXPENSE	F RATE 56 TOTAL LIGHTING NOE (4)	G RATE 56 CUST OWNED SALES KWH (5)	H RATE 56 UNIT NOE COSTS PER KWH	
1	PRODUCTION	V	V		(.,	(0)	. =	
2	PRODUCTION EXPENSE	\$401,937	\$62,193					
3	BASE FUEL	\$360,682	\$55,809					
4	= BASE AND ENERGY	\$41,255	\$6,384	\$547	\$6,931	2,844,186	\$0.00244	
5								
6	TRANSMISSION							
7 8	TRANSMISSION TRANSMISSION	\$18,847	\$2,916	\$250	\$3,166	2,844,186	\$0.00111	
9	EXTERNAL TRANSMISSOIN	\$33,188	\$5,135	Ψ230	ψ3,100	2,044,100	ψ0.00111	
10	EXTERIVAL TRAINOMIOGOM	ψ55,100	ψ0,100					
11	DISTRIBUTION							
12	PRIMARY SUBSTATIONS	\$28,397	\$4,394	\$377	\$4,771	2,844,186	\$0.00168	
13								
14	PRIMARY LINES	\$73,888	\$11,433	\$981	\$12,413	2,844,186	\$0.00436	
15								
16	SECONDARY LINES	\$37,747	<b>\$5,841</b>	\$501	\$6,342	2,844,186	\$0.00223	
17 18	LINE TRANSFORMERS	\$9,928	\$1,536	\$132	\$1.668	2,844,186	\$0.00059	
19	LINE TRANSFORMERS	\$9,920	\$1,550	φ132	\$1,000	2,044,100	φυ.υυυυσ	
20	SERVICES	\$0	\$0					
21	CERTICES	•••	•					
22	METERS	\$0	\$0					
23								
24	LIGHTING							
25	REDDY-GUARD - UNMETERED	\$0	\$0	\$0	\$0		\$0.00000	
26	REDDY-GUARD - METERED							
27	HIGHWAY, STREET, & AREA LIGHTING	\$832,768	<b>\$0</b>	\$0	\$0	2,844,186	\$0.00000	
28	TOTAL LIGHTING	\$832,768	\$0					
29 30	TOTAL DIST OPERATING EXP EXPENSE	\$982,727	\$23,204	\$1,990	\$25,194			
31	TOT DIST EXCL SERV, METERS, & LTG	\$149,960	\$23,204	Ψ1,330	\$25,194			
32	TOT BIOT EXCE CERT, METERO, GETO	Ψ1-10,000	Ψ20,201		Ψ20,101			
33								
34	CUSTOMER DISTRIBUTION					SUMMARY OF OPE	RATING EXP CHAR	GES
35	CUSTOMER METER READING	\$0	\$0					RATE 56
36	CUSTOMER RECORDS	\$3,763	\$582					PER KWH
37	CUSTOMER SERVICE & INFO	\$14,253	\$2,205					CUST OWNED
38	TOTAL CUSTOMER DISTRIBUTION	\$18,016	\$2,788	40.700	40= 004	PRODUCTION (1)		\$0.00244
39 40	TOTAL CUST DIST EXCL MET READING	\$18,016	\$2,788	\$2,788	\$35,291	TDANICMICCIONI (2)		¢0 00111
41	TOTAL NET OPER EXP EXPENSE (6)	\$1,454,715	\$96,236			TRANSMISSION (2)		\$0.00111
42	TOTAL NET OPER EXP EXPENSE (6)	\$1,454,715	ψ30,230			DISTRIBUTION (3)		\$0.00886
43	TOTAL NET OF ER EXI EN EN CONCOR)	ψ1,454,715				DIGITALDOTION (3)		ψ0.00000
44	TOTAL NOE EXP EXCL BASE FUEL & EXT TRANSM	\$1,060,846	\$35,291			REDDY-GUARD LIG	HTING	\$0.00000
45								
46	TOTAL NOE EXCL FUEL, EXTERNAL TRANSM	\$1,042,830	\$32,504			HIGHWAY, ST, & SC	INL LTG	\$0.00000
47	SERVICES, METERS, & CUSTOMER DIST							
48			45.45			TOTAL OPERATING	EXP	\$0.01241
49	PERCENT OF CUSTOMER OWNED UNITS		15.47%			NI-1- INAMI		
50	Notes					Note: kWh charge ro	ounded to 5 decimals.	
51	Notes:							

- (1) Production kWh charge excludes fuel expenses.
  (2) Transmission kWh charge excludes external transmission expenses.
  (3) Distribution kWh charge excludes services, meters, and meter reading expenses.
  (4) Detail Net Operating Expense (NOE) from Workpaper 4
  (5) Source: Table 13

- 52 53 54 55 56 57 58 (6) Net Operating Expense excludes Ad Valorem Expenses

7 76% Pate of Poture

# NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 12 - LIGHTING INSTALLED COST ESTIMATES LIGHTING SCHEDULE RESULTS FOR GROSS PLANT DERIVATION

e			LIGHTING SCH	EDULE RESULTS	FOR GROSS PL	ANT DERIVAT	ION			
A	В	С	D	E	F	G	Н	ı	J	K
Lights - Street Light a	nd Reddy Guard									
					30.00% I	nstallation Ad	der			
Light Fixture	Watt	Fixture Cost	Bulb Cost	Total Cost	Fixture Cost	Bulb Cost	<b>Total Installed Co</b>	ost		
HPS	35	\$22.59		\$25.68	\$29.37	\$4.02	\$33.38			LEGEND
HPS	50	\$34.23		\$38.91	\$44.50	\$6.08	\$50.58		HPS	High Pressure Sodiu
HPS	100	\$68.46	\$9.36	\$77.82		\$12.17	\$101.17		MV	Mercury Vapor
HPS	150	\$151.75		\$161.04	\$197.28	\$12.08	\$209.35		MH	Metal Halide
HPS	250	\$169.98		\$180.10		\$13.16	\$234.13		LED	Light Emitting Diode
HPS	400	\$175.51	\$11.14	\$186.65		\$14.48	\$242.65			
) HPS	250/400	\$216.92	\$11.14	\$228.06	\$282.00	\$14.48	\$296.48			
HPS	1000	\$325.38	\$16.71	\$342.09	\$422.99	\$21.72	\$444.72			
!										
MV	175	\$269.08	7.23	\$276.31	\$349.80	\$9.40	\$359.20 E	D 28 Mogul Ba	ase	
MV	250	\$289.00		\$297.88		\$11.54		D 28 Mogul Ba	ase	
5 MV	400	\$347.48	\$9.97	\$357.45	\$451.73	\$12.96	\$464.69 B	T 37 Mogul		
6 MV	1000	\$496.28	\$25.00	\$521.28	\$645.17	\$32.50	\$677.67 E	39 Mogul Base	Ballast Kit \$1	148.45
7										
MH	175	\$204.94	\$10.77	\$215.70		\$14.00	\$280.41			
) MH	250/400	\$217.16	\$15.38	\$232.54	\$282.31	\$19.99	\$302.30			
) MH	400	\$263.67	\$22.52	\$286.19	\$342.77	\$29.28	\$372.05			
MH	1000	\$399.80	\$31.68	\$431.48	\$519.74	\$41.18	\$560.92			
2										
3										
Į.										
5					Replacement		Installation Adde			
Luminaire (1)	Watt	Lumens	Luminaire Cost			uminaire Cost	Total Installed Co	ost		
	oper-Caretaker (2)				Light Engine**					
LED	48	4,814	\$120.00	\$120.00		\$156.00	\$156.00			
) LED	73	6,910	\$144.24	\$144.24		\$187.51	\$187.51			
Area/Site/Roadway	Cooper-XNV									
LED	51	3,748	\$241.21	\$241.21	\$84.67	\$313.57	\$313.57			
LED	103	7,548	\$303.03	\$303.03	\$84.67	\$393.94	\$393.94			
	oper-Navion(NVN)									
LED	154	11,324	\$493.75	\$493.75		\$641.88	\$641.88			
LED	206	14,774	\$675.62	\$675.62		\$878.31	\$878.31			
LED .	309	22,111	\$909.08	\$909.08	\$117.82	\$1,181.80	\$1,181.80			
	ch-NEMA Head (3)					4	4			
B LED	43	4,000	\$238.78	\$238.78		\$310.41	\$310.41			
) LED	70	5,500	\$250.90	\$250.90		\$326.17	\$326.17			
) LED	90	8,000	\$309.09	\$309.09	\$194.55	\$401.82	\$401.82			
Notes										

Line No. 2 3

39 40 41

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58 59 60

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74 75

87 88

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- 42 43 44 (1) Luminaires include lamp, photovoltaic electric relay (PER), and photocell, Cooper NVN & XNV include driver surge protection, MaTech brochure shows includes driver and 36 kV Surge Suppression
  - (2) MaTech replacement light engines mounted on the bird guard only do not include driver or surge suppessor. (2) There are no replacement panels for Caretaker, Luminaire includes Refractor, Arm, and Suppressor
  - (2) MaTech replacement light engines mounted on the bird guard only do not include driver or surge suppessor.

10K LED Surge Suppressor Small Acrylic Refractor Mounting Bracket (24" Wood Pole Pipe Arr 100 foot span of cable \* \$19.39 \$24.24 \$60.00 5' #14 Lead \* \$7.27

\* not usually required for street lighting

A Driver regulates the power to a LED or string of LEDs. It supplies a constant amount of power so that it does not become too hot.(Drivers for outdoor use typically include surge protection)

U										10/0 Nate Of Neturn
1	Poles Poles							LED		LED Pole Adder
2		Type	Size (Feet)	Pole Cost	Installation Cost To	otal Pole Install	Bracket/Suppord	le Installation	30 Year Life	\$/Month
3		Wood	30	\$325	\$164	\$488	\$84.15	\$572.49	\$1.59	\$1.71
4		Wood	35	\$411	\$164	\$575	\$84.15	\$659.28	\$1.83	\$1.97
5		Wood	40	\$650	\$164	\$814	\$84.15	\$898.31	\$2.50	\$2.69
6		Wood	45	\$795	\$164	\$959	\$84.15	\$1,043.33	\$2.90	\$3.12
7										
8		Aluminum	20	\$608	\$164	\$771	\$84.15	\$855.43	\$2.38	\$2.56
9										
0		Distribution Pole	same as above	\$411	\$164	\$575	\$84.15	\$659.28	\$1.83	\$1.97

Cabling - pricing only includes conductor - does not include conduit or hardware

ОН UG Conduit \$0.60 \$1.70 \$0.85 Cost per foot

Brackets/Support

reet	Cost	installed Cost
2	\$24.24	\$31.51
4	\$35.95	\$46.74
6	\$60.25	\$78.33
8	\$64.73	\$84.15
10	\$69.25	\$99.72

<u>Crew</u> 2 Man Crew Truck 2014 Rates \$138.78 \$24.98 per hour per hour Truck =Labor \* 18.00% \$163.76

### **NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE 13 - KWH SALES AND UNIT COUNT**

Line	Α	D	G	
No.	Rate Class (1)	kWh (Meter)	Annual Custome	ers
1	10 - Residential Basic	395,788,644	468,590	
2	11 - Residential w/Sp Htg	172,532,334	113,192	
3	14 - Residential Sp Htg & Cooling	15,817,735	12,396	
4	15 - Residential Dual-Fuel	118,424	84	
5	16,18 - Irrigation Interruptible Service	1,925,351	687	
6	17 - Irrigation Service	213,896	129	
7	21 - Commercial Gen Serv	80,936,617	100,166	
8	23 - Commercial Sep Mtr Space Htg	640,725	983	
9	24 - Commercial Sp Htg & Cooling	40,650,676	6,236	
10	25 - Commercial All-Inclusive Comm	45,854,268	8,948	
11	33 - Commercial & Industrial	156,439,813	22,877	
12	34 - Comercial & Industrial Large	650,099,285	6,158	
13	41 - Municipal Pumping	6,985,310	3,157	
14	19 - Reddy-Guard Lighting	5,427,528	42,674	5,433,907
15	56 - Highway, Street, & Area Lighting	12,771,953	1,637	12,765,574
16	70 - Controlled Off-Peak	49,859	48	
17	Total SD	1,586,252,418	787,962	18,199,481
18				

20
21
22
23

24	kWh Source: Table 7		Estimated				
25		Unmetered	Metered	Total	Total	Total	cos
26		kWh	kWh	kWh	CP	Non CP	
27	19 - Reddy-Guard Lighting						
28	Input	5,433,907		5,433,907			
29	Mercury Vapor	2,278,289	1,073,944				
30	Other	3,155,618	1,633,080				
31	Total Reddy-Guard Lighting	5,433,907		5,433,907	238	1,426	5,427,528
32							Does not include
33							6,379
34		Co Owned	Cust Owned				
35		kWh	kWh				
36	56 - Highway, Street, & Area Lighti	ng					
37	Input	9,921,388	2,844,186	12,765,574			
38	Mercury Vapor	4,324,420	208,058	4,532,478			
39	Other	5,596,968	2,636,128	8,233,096			
40	Total Highway, Street, & Area Ligh	9,921,388	2,844,186	12,765,574	555	3,355	12,771,953
41							Includes U30-F
42	Total Lighting						(6,379)
43	Input	15,355,295	2,844,186	18,199,481			
44	Total Lighting	15,355,295	2,844,186	18,199,481			
45							
46	Total Unmetered kWh			18,199,481			18,199,481
47							

48
48
49
50

Annual Number of Units	Co Owned	Cust Owned	Total	Avg # of Cust
Source: Table 7	<b>EOY Units</b>	EOY Units	EOY Units	cos
19 - Reddy-Guard Lighting	7,575		7,575	3,556
56 - Highway, Street, & Area Light	10,341	1,893	12,234	136
Total Lighting	17,916	1,893	19,809	3,693

### 58 Notes:

<sup>(1)</sup> Source file "TY2014 Adjusted NWE SD Elec Embedded ACOS Rev @ 11-16-14.xls"

# NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE WP 1 - SYSTEM OVERALL REVENUE REQUIREMENT DETAILS

Line No.		PRESENT	BASE INCREASE	PROPOSED
1	GROSS PLANT	\$12,981,544		\$12,981,544
2 3	TOTAL SALES RATE REVENUES EXCL FUEL	\$73,327,430	36.15%	\$99,857,806
4 5	O&M EXCL FUEL	\$104,131,279		\$104,131,279
6 7	BASE REV W/O O&M	-\$30,803,849		-\$4,273,473
8 9 10	BASE REV TO GROSS PLANT	-\$2.37290		-\$0.32920
11 12 13 14 15 16 17 18 19 20 21 22	TOTAL REVENUE TO GROSS PLANT	\$5.64859		\$7.69229
23 24	REVIEW			
27 28 29 30 31	RATE REVENUE FROM COST OF SERVICE MODILIGHTING RATE 19 REVENUE LIGHTING RATE 56 REVENUE LIGHTING REVENUE	PRESENT \$391,458 \$946,494 \$1,337,952	INCREASE \$122,935 \$303,945 \$426,880	PROPOSED \$514,393 \$1,250,439 \$1,764,832
34 35	RATE REVENUE CALCULATED WITHIN LIGHTING LIGHTING RATE 19 REVENUE (2) LIGHTING RATE 56 REVENUE (3) LIGHTING REVENUE	\$394,973 \$964,154 \$1,359,127		
39 40 41	RATE REVENUE CALCULATED WITH NEW RATES LIGHTING RATE 19 REVENUE LIGHTING RATE 56 REVENUE LIGHTING REVENUE			\$514,394 \$1,250,438 \$1,764,832
44 45 46 47 48 49 50	LIGHTING REVENUE DIFFERENCE (Line 30-Line 44)  Notes:	4)		\$0
	(1) Source for present rate revenue from file "TY2014	Adjusted NWE SE	Elec Embedded AC	COS Rev @ 11-16-

 <sup>52 (1)</sup> Source for present rate revenue from file "TY2014 Adjusted NWE SD Elec Embedded ACOS Rev @ 11-16-14.xls" 1
 53 and source for proposed rate revenue from file "Proposed RevenuesTY2014 Adjusted NWE SD Elec Embedded ACO

<sup>54 (2)</sup> Source for calculated rate revenue from Tables 1, 2 and 3.

<sup>55 (3)</sup> Source for calculated rate revenue from Tables 4, and 5.

							August 2014 Rates		\$0.037360		
								\$0.003540	\$0.002020		2014
Line No.		Rev Code	Watts/Hour	Monthly kWh per Unit	Company Owned Rate (Present Rate)	Customer Owned Rate (Present Rate)	Cost of Fuel	Ad Valorem	Transm. By Others	Unit Rate Per Month with Fuel, Ad Valorem, Transm	End of Year Number of Units
2 3 4	RATE 19 - REDDY GUARD  Rate U10 - Reddy-Guard - Residential II 4095 HPS 35 WATT - 14 KWH/MO 5850 HPS 50 WATT - 20 KWH/MO	Jnmetered RR001 RR002	42 59	14.07 19.77	\$3.19622 \$3.32325		\$0.447426 \$0.628527	\$0.049808 \$0.069968	\$0.028421 \$0.039925	\$3.72187 \$4.06167	0
	11700 HPS 100 WATT - 50 KWH/MO	RR003	148	49.58	\$5.02952		\$1.576644	\$0.175513	\$0.100152	\$6.88183	189
	17550 HPS 150 WATT - 70 KWH/MO	RR004	208	69.68	\$5.24555		\$2.215824	\$0.246667	\$0.140754	\$7.84879	309
8		RR005	322	107.87	\$7.42098		\$3.430266	\$0.381860	\$0.217897	\$11.45100	52
9		RR006	496	166.16	\$8.76245		\$5.283888	\$0.588206	\$0.335643	\$14.97018	20
10	117000 HPS 1000 WATT - 390 KWH/M	CRR007	1164	389.94	\$18.33081		\$12.400092	\$1.380388	\$0.787679	\$32.89896	0
11											
	8750 MV 175 WATT - 72 KWH/MO	RR010	216	72.36			\$2.301048	\$0.256154	\$0.146167	\$6.04105	1,255
	12500 MV 250 WATT - 101 KWH/MO	RR011	301	100.84	\$4.22287		\$3.206553	\$0.356956	\$0.203687	\$7.99007	23
	20000 MV 400 WATT - 159 KWH/MO	RR012	474	158.79	\$6.27156		\$5.049522	\$0.562117	\$0.320756	\$12.20395	0
	50000 MV 1000 WATT - 380 KWH/MO	RR013	1135	380.23	\$11.89056		\$12.091155	\$1.345997	\$0.768055	\$26.09577	0
16	21750 MH 175 WATT 60 KWH/MO	DD014	205	60.60	¢2 44722		¢2 102065	¢0 242110	¢0 120724	¢E 00202	
18	21750 MH 175 WATT - 69 KWH/MO 34800 MH 250 WATT - 97 KWH/MO	RR014 RR015	203	68.68 97.15	\$3.41723 \$4.30244		\$2.183865 \$3.089370	\$0.243110 \$0.343911	\$0.138724 \$0.196243	\$5.98293 \$7.93196	0 5
	87000 MH 400 WATT - 153 KWH/MO	RR016	458	153.43			\$4.879074	\$0.543311	\$0.309929	\$12.11943	1
20	07000 WIT 400 W/TT 100 KWT//WO	TUTOTO	450	100.40	ψ0.507.25		φ+.07307+	ψ0.040142	ψ0.000020	Ψ12.11545	•
21											
22											
23											
24											
25	Rate U10 - Reddy-Guard - Residential I										
	4095 HPS 35 WATT - 14 KWH/MO	RR100	42	14.07		\$2.90				\$2.90	0
	5850 HPS 50 WATT - 20 KWH/MO	RR101	59	19.77		\$2.90				\$2.90	7
	11700 HPS 100 WATT - 50 KWH/MO	RR102	148	49.58		\$4.00				\$4.00	42
	17550 HPS 150 WATT - 70 KWH/MO	RR103	208	69.68		\$4.00				\$4.00	163
	29250 HPS 250 WATT - 108 KWH/MO	RR104	322	107.87		\$5.20 \$5.45				\$5.20	7 11
	46800 HPS 400 WATT - 166 KWH/MO 117000 HPS 1000 WATT - 390 KWH/M	RR105	496 1164	166.16 389.94		\$5.45 \$10.10				\$5.45 \$10.10	0
33	117000111 3 1000 WATT - 390 KWII/W	CICICIOO	1104	303.34		\$10.10				Ψ10.10	•
	8750 MV 175 WATT - 72 KWH/MO	RR110	216	72.36		\$1.85				\$1.85	717
35		RR111	301	100.84		\$2.30				\$2.30	6
36	20000 MV 400 WATT - 159 KWH/MO	RR112	474	158.79		\$2.90				\$2.90	0
37	50000 MV 1000 WATT - 380 KWH/MO	RR113	1135	380.23		\$4.85				\$4.85	0
38											
39	21750 MH 250 WATT - 69 KWH/MO	RR114	205	68.68		\$1.85				\$1.85	0
40	34800 MH 400 WATT - 97 KWH/MO	RR115	290	97.15		\$2.30				\$2.30	1
	87000 MH 1000 WATT - 153 KWH/MO	RR116	458	153.43		\$2.90				\$2.90	0
42											
43 44											
44 45											
	Pata U20 Paddy Cuard Commercial	Unmotored									

August 2014 Rates

\$0.037360

						\$0.003540		φυ.υ37300	2014
Rev Line No.	Code Watts/Hour	Monthly kWh per Unit	Company Owned Rate (Present Rate)	Customer Owned Rate (Present Rate)	Cost of Fuel	·	Transm. By Others	Unit Rate Per Month with Fuel, Ad Valorem, Transm	End of Year Number of Units
47 4095 HPS 35 WATT - 14 KWH/MO RC0	01 42	14.07	\$3.19622		\$0.447426	\$0.049808	\$0.028421	\$3.72187	1
48 5850 HPS 50 WATT - 20 KWH/MO RC0		19.77	\$3.32325		\$0.628527	\$0.069968	\$0.039925	\$4.06167	i
49 11700 HPS 100 WATT - 50 KWH/MO RC0		49.58	\$5.02952		\$1.576644	\$0.175513	\$0.100152	\$6.88183	153
50 17550 HPS 150 WATT - 70 KWH/MO RC0		69.68	\$5.24555		\$2.215824	\$0.246667	\$0.140754	\$7.84879	486
51 29250 HPS 250 WATT - 108 KWH/MO RC0		107.87	\$7.42098		\$3.430266	\$0.381860	\$0.217897	\$11.45100	501
52 46800 HPS 400 WATT - 166 KWH/MO RC0		166.16			\$5.283888	\$0.588206	\$0.335643	\$14.97018	391
53 117000 HPS 1000 WATT - 390 KWH/MCRC0 54			\$18.33081		\$12.400092	\$1.380388	\$0.787679	\$32.89896	7
55 8750 MV 175 WATT - 72 KWH/MO RC0	10 <b>216</b>	72.36	\$3.33768		\$2.301048	\$0.256154	\$0.146167	\$6.04105	1,247
56 12500 MV 250 WATT - 101 KWH/MO RC0	11 <b>301</b>	100.84	\$4.22287		\$3.206553	\$0.356956	\$0.203687	\$7.99007	68
57 20000 MV 400 WATT - 159 KWH/MO RC0	12 <b>474</b>	158.79	\$6.27156		\$5.049522	\$0.562117	\$0.320756	\$12.20395	37
58 50000 MV 1000 WATT - 380 KWH/MO RC0 59	13 <b>1135</b>	380.23	\$11.89056		\$12.091155	\$1.345997	\$0.768055	\$26.09577	0
60 15225 MH 175 WATT - 69 KWH/MO RC0	14 <b>205</b>	68.68	\$3.41723		\$2.183865	\$0.243110	\$0.138724	\$5.98293	0
61 21750 MH 250 WATT - 97 KWH/MO RC0	15 <b>290</b>	97.15	\$4.30244		\$3.089370	\$0.343911	\$0.196243	\$7.93196	73
62 34800 MH 400 WATT - 153 KWH/MO RC0	16 <b>458</b>	153.43	\$6.38729		\$4.879074	\$0.543142	\$0.309929	\$12.11943	195
63 87000 MH 1000 WATT - 380 KWH/MO RC0	17 <b>1081</b>	380.23	\$11.89056		\$12.091155	\$1.345997	\$0.768055	\$26.09577	50
64									
65									
66									
67 68									
69									
70 Rate U20 - Reddy-Guard - Commercial Meter	-ed								
71 4095 HPS 35 WATT - 14 KWH/MO RC1		14.07		\$2.90				\$2.90	0
72 5850 HPS 50 WATT - 20 KWH/MO RC1		19.77		\$2.90				\$2.90	35
73 11700 HPS 100 WATT - 50 KWH/MO RC1		49.58		\$4.00				\$4.00	62
74 17550 HPS 150 WATT - 70 KWH/MO RC1		69.68		\$4.00				\$4.00	205
75 29250 HPS 250 WATT - 108 KWH/MO RC1		107.87		\$5.20				\$5.20	320
76 46800 HPS 400 WATT - 166 KWH/MO RC1		166.16		\$5.45				\$5.45	282
77 117000 HPS 1000 WATT - 390 KWH/MCRC1	06 <b>1164</b>	389.94		\$10.10				\$10.10	12
78									
79 8750 MV 175 WATT - 72 KWH/MO RC1	10 <b>216</b>	72.36		\$1.85				\$1.85	435
80 12500 MV 250 WATT - 101 KWH/MO RC1		100.84		\$2.30				\$2.30	36
81 20000 MV 400 WATT - 159 KWH/MO RC1		158.79		\$2.90				\$2.90	13
82 50000 MV 1000 WATT - 380 KWH/MO RC1	13 <b>1135</b>	380.23		\$4.85				\$4.85	1
83				A				<b>*</b> • • •	_
84 15225 MH 175 WATT - 69 KWH/MO RC1				\$1.85				\$1.85	0
85 21750 MH 250 WATT - 97 KWH/MO RC1		97.15		\$2.30				\$2.30	51
86 34800 MH 400 WATT - 153 KWH/MO RC1	16 <b>458</b>	153.43		\$2.90				\$2.90	92
87									
88 89									
90									
91 Rate U30 - Public Lighting - Unmetered									
92 4095 HPS 35 WATT - 14 KWH/MO RM0	01 42	14.07	\$3.19622		\$0.447426	\$0.049808	\$0.028421	\$3.72187	0
	· ·		,			,	,	,	•

							August 2014 Rates \$0.031800 \$0.003540 \$0.002020			\$0.037360	0044
							\$0.031800	\$0.003540	\$0.002020		2014
Line No.		Rev Code	Watts/Hour	Monthly kWh per Unit	Company Owned Rate (Present Rate)	Customer Owned Rate (Present Rate)	Cost of Fuel	Ad Valorem	Transm. By Others	Unit Rate Per Month with Fuel, Ad Valorem, Transm	End of Year Number of Units
03	ESEC LIDS EC WATT OF KINIHAMO	RM002	<b>5</b> 0	10.77	¢2 2222E		¢0 620527	¢0 060069	¢0 020025	¢4.06467	0
	5850 HPS 50 WATT - 20 KWH/MO		59	19.77	\$3.32325		\$0.628527	\$0.069968	\$0.039925	\$4.06167	0
	11700 HPS 100 WATT - 50 KWH/MO	RM003	148	49.58			\$1.576644	\$0.175513	\$0.100152	\$6.88183	0
	17550 HPS 150 WATT - 70 KWH/MO	RM004	208	69.68			\$2.215824	\$0.246667	\$0.140754	\$7.84879	4
	29250 HPS 250 WATT - 108 KWH/MO	RM005	322	107.87	\$7.42098		\$3.430266	\$0.381860	\$0.217897	\$11.45100	0
97		RM006	496	166.16			\$5.283888	\$0.588206	\$0.335643	\$14.97018	0
98 99	117000 HPS 1000 WATT - 390 KWH/M	CRM007	1164	389.94	\$18.33081		\$12.400092	\$1.380388	\$0.787679	\$32.89896	0
	8750 MV 175 WATT - 72 KWH/MO	RM010	216	72.36	\$3.33768		\$2.301048	\$0.256154	\$0.146167	\$6.04105	2
	12500 MV 250 WATT - 101 KWH/MO	RM011	301	100.84	\$4.22287		\$3.206553	\$0.356956	\$0.203687	\$7.99007	0
102		RM012	474	158.79			\$5.049522	\$0.562117	\$0.320756	\$12.20395	Ŏ
	50000 MV 1000 WATT - 380 KWH/MO	RM013	1135	380.23			\$12.091155	\$1.345997	\$0.768055	\$26.09577	Ö
103	30000 WY 1000 WATT - 300 KWT//WO	KWO15	1133	300.23	\$11.03030		ψ12.091100	ψ1.545537	ψ0.700033	Ψ20.09377	•
	15225 MH 175 WATT - 69 KWH/MO	RM014	205	68.68	\$3.41723		\$2.183865	\$0.243110	\$0.138724	\$5.98293	0
106		RM015	290	97.15			\$3.089370	\$0.343911	\$0.196243	\$11.28196	0
107		RM016	458	153.43			\$4.879074	\$0.543142	\$0.309929	\$14.76943	1
108 109 110 111					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,	,		,	
112											
	Rate U30 - Public Lighting - Metered	<b>D14400</b>								40.00	_
114		RM100	42	14.07		\$2.90				\$2.90	0
	5850 HPS 50 WATT - 20 KWH/MO	RM101	59	19.77		\$2.90				\$2.90	0
116		RM102	148	49.58		\$4.00				\$4.00	2
	17550 HPS 150 WATT - 70 KWH/MO	RM103	208	69.68		\$4.00				\$4.00	0
	29250 HPS 250 WATT - 108 KWH/MO	RM104	322	107.87		\$5.20				\$5.20	0
119	46800 HPS 400 WATT - 166 KWH/MO	RM105	496	166.16		\$5.45				\$5.45	0
	117000 HPS 1000 WATT - 390 KWH/M	CRM106	1164	389.94		\$10.10				\$10.10	0
121		511116								0	_
	8750 MV 175 WATT - 72 KWH/MO	RM110	216	72.36		\$1.85				\$1.85	0
123		RM111	301	100.84		\$2.30				\$2.30	0
	20000 MV 400 WATT - 159 KWH/MO	RM112	474	158.79		\$2.90				\$2.90	0
	50000 MV 1000 WATT - 380 KWH/MO	RM113	1135	380.23		\$4.85				\$4.85	0
126	15225 MLI 175 MATT 60 MMII/MO	DM114	205	60.60		64.05				<b>#4.0</b> F	•
	15225 MH 175 WATT - 69 KWH/MO	RM114	205	68.68		\$1.85				\$1.85	0
128		RM115	290	97.15		\$2.30				\$2.30	1
129 130	34800 MH 400 WATT - 153 KWH/MO	RM116	458	153.43		\$2.90				\$2.90	0

136 RATE 56 - COMPANY OR CUSTOMER OWNED HIGHWAY, STREET AND AREA LIGHTING SYSTEMS

138 Rate U30 - Distribution Pole Mounting

						Au	gust 2014 Ra	ites	\$0.037360	
						\$0.031800	\$0.003540	\$0.002020		2014
Line No.	Rev Code	Watts/Hour	Monthly kWh per Unit	Company Owned Rate (Present Rate)	Customer Owned Rate (Present Rate)	Cost of Fuel	Ad Valorem	Transm. By Others	Unit Rate Per Month with Fuel, Ad Valorem, Transm	End of Year Number of Units
139	11700 HPS With Pole 100 * WATT - 50 K'SMD37	148	49.58			\$1.576644	\$0.175513	\$0.100152	\$6.88183	131
140	11700 HPS 100 WATT - 50 KWH/MO SMD38	148	49.58		\$1.03	\$1.576644	\$0.175513	\$0.100152	\$2.88183	45
141	17550 HPS With Pole 150 * WATT - 70 K'SMD39	208	69.68			\$2.215824	\$0.246667	\$0.140754	\$7.84879	1,071
	17550 HPS 150 WATT - 70 KWH/MO SMD40	208	69.68		\$1.45	\$2.215824	\$0.246667	\$0.140754	\$4.04879	26
143	29250 HPS With Pole 250 * WATT - 108 ISMD41	322	107.87			\$3.430266	\$0.381860	\$0.217897	\$11.45100	297
144	29250 HPS 250 WATT - 108 KWH/MO SMD42	322	107.87		\$2.22	\$3.430266	\$0.381860	\$0.217897	\$6.25100	151
145	46800 HPS With Pole 400 * WATT - 166 ISMD43	496	166.16	\$8.76		\$5.283888	\$0.588206	\$0.335643	\$14.97018	27
146	46800 HPS 400 WATT - 166 KWH/MO SMD44	496	166.16		\$3.31	\$5.283888	\$0.588206	\$0.335643	\$9.52018	336
147	117000 HPS With Pole 1000 * WATT - 39 SMD45	1164	389.94	\$18.33		\$12.400092	\$1.380388	\$0.787679	\$32.89896	0
148	117000 HPS 1000 WATT - 390 KWH/MCSMD46	1164	389.94		\$8.23	\$12.400092	\$1.380388	\$0.787679	\$22.79896	0
149										
150	8750 MV With Pole 175 * WATT - 72 KWI SMD47	216	72.36	\$3.34		\$2.301048	\$0.256154	\$0.146167	\$6.04105	2,591
151	8750 MV 175 WATT - 72 KWH/MO SMD48	216	72.36		\$1.49	\$2.301048	\$0.256154	\$0.146167	\$4.19105	238
152	12500 MV With Pole 250 * WATT - 101 K'SMD49	301	100.84	\$4.22		\$3.206553	\$0.356956	\$0.203687	\$7.99007	51
153	12500 MV 250 WATT - 101 KWH/MO SMD50	301	100.84		\$1.92	\$3.206553	\$0.356956	\$0.203687	\$5.69007	6
154	20000 MV With Pole 400 * WATT - 159 K'SMD51	474	158.79	\$6.27		\$5.049522	\$0.562117	\$0.320756	\$12.20395	16
155	20000 MV 400 WATT - 159 KWH/MO SMD52	474	158.79		\$3.37	\$5.049522	\$0.562117	\$0.320756	\$9.30395	5
156	50000 MV With Pole 1000 * WATT - 380 ISMD53	1135	380.23	\$11.89		\$12.091155	\$1.345997	\$0.768055	\$26.09577	12
157	50000 MV 1000 WATT - 380 KWH/MO SMD54	1135	380.23		\$7.04	\$12.091155	\$1.345997	\$0.768055	\$21.24577	0
158										
159	21750 MH With Pole 250 * WATT - 97 KV SMD55	290	97.15	\$7.65		\$3.089370	\$0.343911	\$0.196243	\$11.28196	4
160	21750 MH 250 WATT - 97 KWH/MO SMD56	290	97.15		\$2.45	\$3.089370	\$0.343911	\$0.196243	\$6.08196	0
161	34800 MH With Pole 400 * WATT - 153 K SMD57	458	153.43		•	\$4.879074	\$0.543142	\$0.309929	\$14.76943	1
162	34800 MH 400 WATT - 153 KWH/MO SMD58	458	153.43		\$3.59	\$4.879074	\$0.543142	\$0.309929	\$9.31943	0
163			.00.10		<b>V</b> 0.00	ψσ.σσ	ψ0.0 .0 · · · 2	<b>40.00002</b> 0	φοιστοιο	•
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181	Rate U30 - Metal Pole Mounting									
	11700 HPS With Pole 100 * WATT - 50 K'SMM01	148	49.58	\$13.28		\$1.576644	\$0.175513	\$0.100152	\$15.13183	0
	11700 HPS 100 WATT - 50 KWH/MO SMM02	148	49.58		\$1.03	\$1.576644	\$0.175513	\$0.100152	\$2.88183	10
	17550 HPS With Pole 150 * WATT - 70 K'SMM03	208	69.68		Ţ <b>.</b>	\$2.215824	\$0.246667	\$0.140754		450

							Au	gust 2014 Ra	ites	\$0.037360	
							\$0.031800	\$0.003540	\$0.002020		2014
Line No.		Rev Code	Watts/Hour	Monthly kWh per Unit	Company Owned Rate (Present Rate)	Customer Owned Rate (Present Rate)	Cost of Fuel	Ad Valorem	Transm. By Others	Unit Rate Per Month with Fuel, Ad Valorem, Transm	End of Year Number of Units
405	47550 LIDO 450 MATT 70 KM LIMO	0141404		00.00		04.45	00.045004	00.040007	00.440754	0404070	
185	17550 HPS 150 WATT - 70 KWH/MO	SMM04	208	69.68	£45.00	\$1.45	\$2.215824	\$0.246667	\$0.140754	\$4.04879	90
186			322	107.87	\$15.32	40.00	\$3.430266	\$0.381860	\$0.217897	\$19.35100	806
187		SMM06	322	107.87	040.50	\$2.22	\$3.430266	\$0.381860	\$0.217897	\$6.25100	10
188	46800 HPS With Pole 400 * WATT - 166		496	166.16	\$16.56	00.04	\$5.283888	\$0.588206	\$0.335643	\$22.77018	420
189	46800 HPS 400 WATT - 166 KWH/MO		496	166.16	***	\$3.31	\$5.283888	\$0.588206	\$0.335643	\$9.52018	825
190	117000 HPS With Pole 1000 * WATT - 39		1164	389.94	\$26.28		\$12.400092	\$1.380388	\$0.787679	\$40.84896	0
	117000 HPS 1000 WATT - 390 KWH/MC	SMM10	1164	389.94		\$8.23	\$12.400092	\$1.380388	\$0.787679	\$22.79896	0
192											
193	8750 MV With Pole 175 * WATT - 72 KW		216	72.36	\$9.59		\$2.301048	\$0.256154	\$0.146167	\$12.29105	1
	8750 MV 175 WATT - 72 KWH/MO	SMM12	216	72.36		\$1.49	\$2.301048	\$0.256154	\$0.146167	\$4.19105	0
195	12500 MV With Pole 250 * WATT - 101 K		301	100.84	\$11.37		\$3.206553	\$0.356956	\$0.203687	\$15.14007	55
196	12500 MV 250 WATT - 101 KWH/MO	SMM14	301	100.84		\$1.92	\$3.206553	\$0.356956	\$0.203687	\$5.69007	0
197			474	158.79	\$13.17		\$5.049522	\$0.562117	\$0.320756	\$19.10395	52
198	20000 MV 400 WATT - 159 KWH/MO	SMM16	474	158.79		\$3.37	\$5.049522	\$0.562117	\$0.320756	\$9.30395	0
199	50000 MV With Pole 1000 * WATT - 380		1135	380.23	\$20.19		\$12.091155	\$1.345997	\$0.768055	\$34.39577	0
	50000 MV 1000 WATT - 380 KWH/MO	SMM18	1135	380.23		\$7.04	\$12.091155	\$1.345997	\$0.768055	\$21.24577	0
201											
	21750 MH With Pole 175 * WATT - 69 KV		290	68.68	\$13.52	\$1.47	\$2.183865	\$0.243110	\$0.138724	\$17.55016	1
203	20000 MH With Pole 250 * WATT - 97 KV		458	97.15	\$15.55	\$2.45	\$3.089370	\$0.343911	\$0.196243	\$21.63440	1
204 205	8750 MH With Pole 400 * WATT - 153 KV	SMM21	205	153.43	\$16.84	\$3.59	\$4.879074	\$0.543142	\$0.309929	\$26.15672	4
206 207	5850 HPS 50 WATT - 25 KWH/MO	SMM22	74	24.79	\$0.00	\$0.51	\$0.788322	\$0.087757	\$0.050076	\$1.43209	4
208	LED 155	SLM15	143	47.91	\$0.00	\$0.99	\$1.523379	\$0.169584	\$0.096768	\$2.78446	97
209											
210											
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224											
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226											
227	Rate U30 - Wood Pole Mounting										
228	11700 HPS With Pole 100 * WATT - 50 K	SMW19	148	49.58	\$7.68		\$1.576644	\$0.175513	\$0.100152	\$9.53183	281
229	11700 HPS 100 WATT - 50 KWH/MO	SMW20	148	49.58		\$1.03	\$1.576644	\$0.175513	\$0.100152	\$2.88183	0
230	17550 HPS With Pole 150 * WATT - 70 K	SMW21	208	69.68	\$7.90		\$2.215824	\$0.246667	\$0.140754	\$10.49879	1,346

					Au \$0.031800	gust 2014 Ra \$0.003540	tes \$0.002020	\$0.037360	2014
Rev Code Line No.	Watts/Hour	Monthly kWh per Unit	Company Owned Rate (Present Rate)	Customer Owned Rate (Present Rate)	Cost of Fuel	Ad Valorem	Transm. By Others	Unit Rate Per Month with Fuel, Ad Valorem, Transm	End of Year Number of Units
231 17550 HPS 150 WATT - 70 KWH/MO SMW22	208	69.68		\$1.45	\$2.215824	\$0.246667	\$0.140754	\$4.04879	0
232 29250 HPS With Pole 250 * WATT - 108 ISMW23	322	107.87	\$10.57	ψ1.40	\$3.430266	\$0.381860	\$0.217897	\$14.60100	527
233 29250 HPS 250 WATT - 108 KWH/MO SMW24	322	107.87	Ψ10.57	\$2.22	\$3.430266	\$0.381860	\$0.217897	\$6.25100	0
234 46800 HPS With Pole 400 * WATT - 166 ISMW25	496	166.16	\$11.81	<b>V</b> 2.22	\$5.283888	\$0.588206	\$0.335643	\$18.02018	55
235 46800 HPS 400 WATT - 166 KWH/MO SMW26	496	166.16	<b>V</b>	\$3,31	\$5.283888	\$0.588206	\$0.335643	\$9.52018	0
236 117000 HPS With Pole 1000 * WATT - 39 SMW27	1164	389.94	\$21.58	<b>40.0</b> .	\$12.400092	\$1.380388	\$0.787679	\$36.14896	Ö
237 117000 HPS 1000 WATT - 390 KWH/MCSMW28	1164	389.94	<b>*</b>	\$8,23	\$12.400092	\$1.380388	\$0.787679	\$22.79896	Ō
238				•	•	•	•	,	
239 8750 MV With Pole 175 * WATT - 72 KWI SMW29	216	72.36	\$5.84		\$2.301048	\$0.256154	\$0.146167	\$8.54105	2,036
240 8750 MV 175 WATT - 72 KWH/MO SMW30	216	72.36	•	\$1.49	\$2.301048	\$0.256154	\$0.146167	\$4.19105	. 0
241 12500 MV With Pole 250 * WATT - 101 K'SMW31	301	100.84	\$9.02		\$3.206553	\$0.356956	\$0.203687	\$12.79007	45
242 12500 MV 250 WATT - 101 KWH/MO SMW32	301	100.84		\$1.92	\$3.206553	\$0.356956	\$0.203687	\$5.69007	0
243 20000 MV With Pole 400 * WATT - 159 K'SMW33	474	158.79	\$9.97		\$5.049522	\$0.562117	\$0.320756	\$15.90395	56
244 20000 MV 400 WATT - 159 KWH/MO SMW34	474	158.79		\$3.37	\$5.049522	\$0.562117	\$0.320756	\$9.30395	0
245 50000 MV With Pole 1000 * WATT - 380 ISMW35	1135	380.23	\$16.34		\$12.091155	\$1.345997	\$0.768055	\$30.54577	0
246 50000 MV 1000 WATT - 380 KWH/MO SMW36	1135	380.23		\$7.04	\$12.091155	\$1.345997	\$0.768055	\$21.24577	0
247									
248 21750 MH With Pole 250 * WATT - 97 KV SMW37	290	97.15	\$10.80	\$2.45	\$3.089370	\$0.343911	\$0.196243	\$16.88440	1
249 20000 MH With Pole 400 * WATT - 153 K SMW38	458	153.43	\$12.09	\$3.59	\$4.879074	\$0.543142	\$0.309929	\$21.40672	3
250									
251									
252									

### **NOTES**:

266 1. Source file: light1408 rates.xlsx

## NWE SD LIGHTING COST ANALYSIS - 09/30/14 TABLE WP 3 - COMPANY BURNING HOURS

		Daily	Monthly
1	JANUARY	13.9	430.9
2	FEBRUARY	12.8	358.4
3	MARCH	11.3	350.3
4	APRIL	9.7	291.0
5	MAY	8.4	260.4
6	JUNE	7.7	231.0
7	JULY	8.1	251.1
	AUGUST	9.2	285.2
	SEPTEMBER	10.7	321.0
10	OCTOBER	13.3	412.3
11	NOVEMBER	13.6	408.0
12	DECEMBER	14.3	443.3
13			
14	ANNUAL		4,042.9
15	MONTHLY AVERAGE		336.9
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

Α	В	С	D	E	F	G	н	I	J	K	L
RATE 19	METERED OPERATING EXPENSE(1)	NET ADJ OPERATING EXPENSE (Col E- Col N)	Operating Expenses Reddy-Guard	Total Expenses (Col H to Col M)	Operation O&M Exp	Maintenance O&M Exp	О&М Ехр	Depreciation Expense	Regulatory Credits	TOIT	Income Taxes
Reddy-Guard A&G	(Col E- Col N)	(COI E- COI N)		(Col H to Col M)							
PRODUCTION PRODUCTION EXPENSE BASE FUEL BASE	\$0	\$170,950 \$153,274 \$17,676	Fuel Production Base + Energy	\$157,633 \$18,746	\$157,633 \$6,618	\$0 \$6,618	\$157,633 \$13,236	\$0 \$5,017	\$0 \$26	\$0 \$896	\$
TRANSMISSION TRANSMISSION EXTERNAL TRANSMISSION		\$8,090 \$14,103	Transmission External Transmission	\$8,673 \$14,103	\$2,041 \$14,103	\$2,041 \$0	\$4,081 \$14,103	\$4,578 \$0	\$50 \$0	\$146 \$0	\$
DISTRIBUTION PRIMARY SUBSTATIONS		\$12,068	Distribution Substations	\$12,285	\$0	\$7,296	\$7,296	\$4,680	\$159	\$399	\$
PRIMARY LINES		\$31,399	Distribution Primary	\$32,419	\$6,063	\$12,315	\$18,378	\$13,256	\$375	\$927	\$
SECONDARY LINES		\$16,041	Distribution Secondary	\$16,543	\$3,116	\$6,328	\$9,444	\$6,689	\$197	\$486	\$0
LINE TRANSFORMERS		\$4,219	Distribution - Transformers	\$4,376	\$417	\$847	\$1,264	\$3,027	\$64	\$171	\$(
SERVICES		\$0	Services	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
METERS		\$0	Meters	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$
<b>LIGHTING</b> REDDY-GUARD HIGHWAY, STREET, & AREA	\$139,183	\$139,183 \$0	Reddy Guard Highway, Street, & Area Ltg	\$140,356 \$0	\$13,756	\$53,065	\$66,822	\$70,586	\$1,490	\$3,726	\$
TOTAL LIGHTING	\$0	\$139,183	Total Street Lighting	\$140,356	\$13,756	\$53,065	\$66,822				
TOTAL DIST OPERATING EXP EXPENSE TOT DIST EXCL SERV, METERS, & LTC	\$139,183 \$0	\$202,910 \$63,726		\$205,980 \$65,624							
CUSTOMER DISTRIBUTION											
CUSTOMER METER READING CUSTOMER RECORDS CUSTOMER SERVICE & INFO		\$0 \$24,627 \$80,956	Customer Meter Reading Customer Records Customer Other	\$0 \$24,832 \$81,551	\$0 \$0 \$4,846	\$0 \$0 \$0	\$0 \$22,683 \$69,059	\$0 \$1,673 \$9,326	\$0 \$222 \$1,240	\$0 \$548 \$2,933	\$( \$( \$(
TOTAL CUSTOMER DISTRIBUTION TOTAL CUST DIST EXCL MET READING		\$105,583 \$105,583									
TOTAL OPER EXP EXPENSE (2) TOTAL NOE EXCL AD VALOREM (COS Ck)	\$139,183	\$501,636 \$511,516	Ad Valorem Total Operating Expenses Total Oper Exp Excl Ad Valo	\$21,447 \$532,963 r \$511,516	\$208,592	\$88,511	<b>\$0</b> \$384,000	<b>\$0</b> \$118,831	<b>\$1,603</b> \$5,426	<b>\$19,844</b> \$30,076	<b>\$</b> (\$6
TOTAL ADJ EXP EXCL BASE FUEL & EXT TRANS	\$139,183	\$334,258		\$375,330							
TOTAL ADJ EXP EXCL FUEL, EXT TRANSM, SERVICES, METERS, & CUSTOMER DIST	\$139,183	\$228,675		\$233,398							
Notes:	001111111111111111111111111111111111111		F								
<ul><li>(1) Customer Owned Operating Expenses exclude (</li><li>(2) Total Operating Expense excludes Ad Valorem</li></ul>	oaivi iviaintenance	and Depreciation I	Expense								

<sup>(1)</sup> Customer Owned Operating Expenses exclude O&M Maintenance and Depreciation Expense

<sup>(2)</sup> Total Operating Expense excludes Ad Valorem
(3) Net Operating Expense (NOE) equals Total Operating Expenses less Other Operating Revenue and Wholesale Sales Revenue
(4) Source for Operating Expense data is file TY2014 NWE SD Elec Embedded ACOS Rev @ 11-16-14.xls, sheets "ByClass" and "ByFunction"

				TABLE WP 4 - I	NET OPERATING E
	A	М	N	O Other	Р
Line	RATE 19	Adjust to Taxes	Total Other Revenues	Other Operating Revenues	Wholesale Revenues
No.			(Col O + Col P)		
1	Reddy-Guard A&G		,		
2	PRODUCTION PRODUCTION EXPENSE				
4	BASE FUEL	\$0	\$4,359	\$0	\$4,359
5	= BASE	(\$429)	\$1,070	\$1,357	(\$287)
6 7					
8	TRANSMISSION				
9 10	TRANSMISSION EXTERNAL TRANSMISSION	(\$182) <b>\$</b> 0	\$583 \$0	\$583 \$0	\$0 \$0
11	EXTERNAL TRANSIVISSION	φU	Φ0	φU	<b>\$</b> 0
12	DISTRIBUTION				
13 14	PRIMARY SUBSTATIONS	(\$249)	\$218	\$218	\$0
15	PRIMARY LINES	(\$517)	\$1,020	\$1,020	\$0
16					
17 18	SECONDARY LINES	(\$273)	\$503	\$503	\$0
19	LINE TRANSFORMERS	(\$150)	\$157	\$157	\$0
20	SERVICES	to.	r <sub>O</sub>	to.	***
21 22	SERVICES	\$0	\$0	\$0	\$0
23	METERS	\$0	\$0	\$0	\$0
24 25	LIGHTING				
26	REDDY-GUARD	(\$2,268)	\$1,172	\$1,172	\$0
27	HIGHWAY, STREET, & AREA	(, , , , ,	* ,	• /	
28 29	TOTAL LIGHTING				
30	TOTAL DIST OPERATING EXP EXPENSE				
31	TOT DIST EXCL SERV, METERS, & LTG				
32 33					
34	CUSTOMER DISTRIBUTION				
35	CUSTOMER METER READING	\$0	\$0	\$0	\$0
36 37	CUSTOMER RECORDS CUSTOMER SERVICE & INFO	(\$294) (\$1,008)	\$205 \$595	\$205 \$595	\$0 \$0
38	TOTAL CUSTOMER DISTRIBUTION	(41,000)	4000	*****	•
39	TOTAL CUST DIST EXCL MET READING	••		**	**
40 41	TOTAL OPER EXP EXPENSE (2)	<b>\$0</b> (\$5,370)	\$0 \$9,881	<b>\$0</b> \$5,809	<b>\$0</b> \$4,072
42	TOTAL NOE EXCL AD VALOREM (COS Ck)	(\$0,0.0)	\$8,861	\$4,789	\$4,072
43	TOTAL ADJEVE EVEL DAGE FUEL & EVE TRANS				
44 45	TOTAL ADJ EXP EXCL BASE FUEL & EXT TRANS				
46	TOTAL ADJ EXP EXCL FUEL, EXT TRANSM,				
47 48	SERVICES, METERS, & CUSTOMER DIST				
49					
50					
51 52					
53					
54					
55 56	Notes: (1) Customer Owned Operating Expenses exclude				
57	(2) Total Operating Expense excludes Ad Valorem				
58 59	(3) Net Operating Expense (NOE) equals Total Op				
60	(4) Source for Operating Expense data is file TY20				
61					
62					
63 64					

С Е н κ L

Line No. 1 2	RATE 56  Highway, Street, & Area Lighting A&G PRODUCTION	NET CUST OWN OPERATING EXPENSE(1) (Col E- Col N)	NET OPERATING EXPENSE (Col E- Col N)	Operating Expenses Highway, Street, & Area Lighti ((	Total Expenses ing Col H to Col M)	Operation O&M Exp	Maintenance O&M Exp	О&М Ехр	Depreciation Expense	Regulatory Credits	тоіт	Income Taxes
3 4 5 6	PRODUCTION EXPENSE BASE FUEL BASE	\$401,937 \$360,682 \$41,255	\$401,937 \$360,682 \$41,255	Fuel Production Base + Energy	\$370,939 \$43,742	\$370,939 \$15,444	\$0 \$15,444	\$370,939 \$30,888	\$0 \$11,689	\$0 \$61	\$0 \$2,105	\$0 \$0
8 9 10 11	TRANSMISSION TRANSMISSION EXTERNAL TRANSMISSION	\$18,847 \$33,188	\$18,847 \$33,188	Transmission External Transmission	\$20,205 \$33,188	\$4,754 \$33,188	\$4,754 \$0	\$9,508 \$33,188	\$10,665 \$0	\$117 \$0	\$340 \$0	\$0 \$0
13		\$28,397	\$28,397	Distribution Substations	\$28,910	\$0	\$17,169	\$17,169	\$11,012	\$375	\$939	\$0
14 15	PRIMARY LINES	\$73,888	\$73,888	Distribution Primary	\$76,287	\$14,267	\$28,980	\$43,247	\$31,193	\$882	\$2,182	\$0
16 17 18	SECONDARY LINES	\$37,747	\$37,747	Distribution Secondary	\$38,930	\$7,332	\$14,892	\$22,224	\$15,741	\$462	\$1,145	\$0
19 20		\$9,928	\$9,928	Distribution - Transformers	\$10,299	\$982	\$1,994	\$2,975	\$7,123	\$151	\$402	\$0
21 22	SERVICES	\$0	\$0	Services	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
23 24	METERS	\$0	\$0	Meters	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
25 26 27 28 29 30 31	LIGHTING REDDY-GUARD HIGHWAY, STREET, & AREA TOTAL LIGHTING  TOTAL DIST OPERATING EXP EXPENSE TOT DIST EXCL SERV, METERS, & LTG	\$0 \$149,960 \$149,960	\$0 \$832,768 \$832,768 \$982,727 \$149,960	Reddy Guard Highway, Street, & Area Ltg Total Street Lighting	\$0 \$839,781 \$839,781 \$994,206 \$154,425	\$82,308 \$82,308	\$317,502 \$317,501.54	<b>\$399,809</b> \$399,809	\$422,333	\$8,915	\$22,293	\$0
32 33 34 35 36 37 38 39	CUSTOMER DISTRIBUTION CUSTOMER METER READING CUSTOMER RECORDS CUSTOMER SERVICE & INFO TOTAL CUSTOMER DISTRIBUTION	\$0 \$3,763 \$14,253 \$18,016 \$18,016	\$0 \$3,763 \$14,253 \$18,016 \$18,016	Customer Meter Reading Customer Records Customer Other	\$0 \$3,794 \$14,357	\$0 \$0 \$853	\$0 \$0 \$0	\$0 \$3,466 \$12,158	\$0 \$256 \$1,642	\$0 \$34 \$218	\$0 \$84 \$516	\$0 \$0 \$0
40 41 42 43	TOTAL OPER EXP EXPENSE (2) TOTAL NOE EXCL AD VALOREM (COS Ck)	\$621,948 \$228,078	\$1,454,715 \$1,480,431 \$1,060,846	Ad Valorem Total Operating Expenses Total Oper Exp Excl Ad Valor	\$50,467 \$1,530,899 \$1,480,431 \$1,530,899 ck \$1,159,960	\$530,066	\$400,735	<b>\$0</b> \$945,572	<b>\$0</b> \$511,654	<b>\$3,772</b> \$14,987	<b>\$46,696</b> \$76,702	<b>\$0</b> \$0
45		<b>⊅∠∠0,</b> 078	\$1,060,846		\$1,159,960							
47 48 49	SERVICES, METERS, & CUSTOMER DIST		ψ1,0π <u>2,</u> 000		\$2,063,862							

<sup>(1)</sup> Net Customer Owned Operating Expenses exclude Lighting Expenses
(2) Total Operating Expense excludes Ad Valorem
(3) Net Operating Expense (NOE) equals Total Operating Expenses less Other Operating Revenue and Wholesale Sales Revenue
(4) Source for Operating Expense data is file TY2014 NWE SD Elec Embedded ACOS Rev @ 11-16-14.xls, sheets "ByClass" and "ByFunction"

	Α	М	N	O Other	Р
Line	RATE 56	Adjust to Taxes	Total Other Revenues	Operating Revenues	Wholesale Revenues
<b>No.</b> 1 2	Highway, Street, & Area Lighting A&G PRODUCTION		(Col O + Col P)		
3 4 5	PRODUCTION EXPENSE BASE FUEL BASE	<b>\$0</b> (\$1,002)	\$10,257 \$2,487	\$0 \$3,161	\$10,257 (\$675)
6 7 8	TRANSMISSION	(4.3-2-)	<b>4</b> -,	***	(4010)
9 10	TRANSMISSION EXTERNAL TRANSMISSION	(\$425) <b>\$</b> 0	\$1,358 \$0	\$1,358 \$0	\$0 \$0
11 12 13	DISTRIBUTION PRIMARY SUBSTATIONS	(\$585)	\$513	\$513	\$0
14 15 16	PRIMARY LINES	(\$1,217)	\$2,399	\$2,399	\$0
17 18	SECONDARY LINES	(\$642)	\$1,183	\$1,183	\$0
19 20	LINE TRANSFORMERS	(\$353)	\$370	\$370	\$0
21 22	SERVICES	\$0	\$0	\$0	\$0
23 24	METERS	\$0	\$0	\$0	\$0
25 26 27 28	LIGHTING REDDY-GUARD HIGHWAY, STREET, & AREA TOTAL LIGHTING	(\$13,569)	\$7,013	\$7,013	\$0
29 30 31 32 33	TOTAL DIST OPERATING EXP EXPENSE TOT DIST EXCL SERV, METERS, & LTG				
34 35 36 37 38	CUSTOMER DISTRIBUTION CUSTOMER METER READING CUSTOMER RECORDS CUSTOMER SERVICE & INFO TOTAL CUSTOMER DISTRIBUTION	\$0 (\$45) (\$177)	\$0 \$31 \$105	\$0 \$31 \$105	\$0 \$0 \$0
39 40	TOTAL CUST DIST EXCL MET READING	\$0	\$0	\$0	\$0
41 42 43	TOTAL OPER EXP EXPENSE (2) TOTAL NOE EXCL AD VALOREM (COS Ck)	(\$18,016)	\$25,716 \$23,317	\$16,134 \$13,735	\$9,582 \$9,582
44 45	TOTAL OPER EXP EXCL BASE FUEL & EXT TRAN				
46 47 48 49 50 51 52	TOTAL OPER EXP EXCL FUEL, EXT TRANSM, SERVICES, METERS, & CUSTOMER DIST				
53 54 55 56 57 58 59 60 61 62 63 64 65	Notes: (1) Net Customer Owned Operating Expenses excl (2) Total Operating Expense excludes Ad Valorem (3) Net Operating Expense (NOE) equals Total Ope (4) Source for Operating Expense data is file TY20				