

Schedule F2

Michigan Public Service Commission
 Upper Peninsula Power Company
 Summary of Present and Proposed Revenue by Rate Schedule

Case No.: U-16417
 Exhibit No.: A-6 (JMB-1)
 Schedule: F2
 Page: 1 of 1
 Witness: James M. Beyer

Line No.	(a) Description	(b) Total Present Revenue	(c) Total Proposed Revenue	(d) Total Net Increase/ (Decrease)	(e) Total Net Increase/ (Decrease) (%)
1	<u>INTEGRATED RETAIL SYSTEM</u>				
2	A-1	\$41,925,759	\$45,895,861	\$3,970,102	9.47%
3	AH-1	\$5,242,960	\$5,739,284	\$496,324	9.47%
4	C-1	\$10,305,844	\$10,872,813	\$566,969	5.50%
5	H-1	\$1,281,391	\$1,307,868	\$26,478	2.07%
6	P-1	\$12,323,330	\$13,000,210	\$676,880	5.49%
7	Cp-U	\$16,701,883	\$17,597,612	\$895,729	5.36%
8	Schedule A	\$0	\$0	\$0	0.00%
9	WP-3	\$2,498,236	\$2,548,316	\$50,080	2.00%
10	RTMP	\$291,597	\$291,597	\$0	0.00%
11	RTMP-D	\$0	\$0	\$0	0.00%
12	Z-3	\$367,107	\$401,882	\$34,775	9.47%
13	SL	\$1,404,245	\$1,537,266	\$133,020	9.47%
14	Total	\$92,342,353	\$99,192,710	\$6,850,357	7.42%
15					
16	<u>IRON RIVER SYSTEM</u>				
17	A-2	\$3,219,612	\$3,654,390	\$434,778	13.50%
18	AH-2	\$299,529	\$339,978	\$40,449	13.50%
19	C-2	\$1,046,952	\$1,151,636	\$104,684	10.00%
20	H-2	\$96,530	\$100,864	\$4,334	4.49%
21	P-2	\$1,230,975	\$1,354,864	\$123,888	10.06%
22	Cp-U	\$2,296,317	\$2,420,649	\$124,331	5.41%
23	Z-4	\$41,816	\$47,460	\$5,644	13.50%
24	SL	\$132,595	\$145,445	\$12,850	9.69%
25	Total	\$8,364,326	\$9,215,284	\$850,959	10.17%
26					
27	MPSC JURISDICTIONAL	\$100,706,679	\$108,407,994	\$7,701,315	7.65%

Schedule F3

Michigan Public Service Commission
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 Present and Proposed Revenue Detail

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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Residential - A-1						
2	Distribution						
3	Yr Round Customer Charge \$/Mo	473,469	Cust	\$10.00	\$4,734,690	\$11.00	\$5,208,159
4	Energy Charge \$/kWh	217,047,383	kWh	\$0.07806	\$16,942,719	\$0.09295	\$20,174,554
5	Total - Distribution				\$21,677,409		\$25,382,713
6							
7	COSS - Distribution						\$25,383,241
8	% Deficient						0.00%
9							
10	Power Supply						
11	Energy Charge \$/kWh	217,047,383	kWh	\$0.09605	\$20,847,401	\$0.09727	\$21,112,199
12	PSCR Revenues	217,047,383	kWh	-\$0.00276	-\$599,051	-\$0.00276	-\$599,051
13	Total - Power Supply				\$20,248,350		\$20,513,148
14							
15	Rate Realignment	217,047,383	kWh	\$0.00000	\$0	\$0.00000	\$0
16							
17	COSS - Power Supply						\$23,666,972
18	% Deficient						13.33%
19	Total Base				\$41,925,759		\$45,895,861

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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Residential Heating - AH-1						
2	Distribution						
3	Yr Round Customer Charge \$/Mo	41,204	Cust	\$10.00	\$412,040	\$11.00	\$453,244
4	Energy Charge - June- Sep \$/kWh	6,843,634	kWh	\$0.07806	\$534,214	\$0.09295	\$636,116
5	Energy Charge - <500 kWh Oct - May	10,653,442	kWh	\$0.08587	\$914,811	\$0.10225	\$1,089,314
6	Energy Charge >500 kWh Oct- May	12,889,822	kWh	\$0.03840	\$494,969	\$0.03503	\$451,530
7	Total - Distribution				\$2,356,034		\$2,630,205
8							
9	COSS - Distribution						\$2,630,208
10	% Deficient						0.00%
11							
12	Power Supply						
13	Energy Charge - June- Sep \$/kWh	6,843,634	kWh	\$0.09797	\$670,471	\$0.09936	\$679,983
14	Energy Charge - <500 kWh Oct - May	10,653,442	kWh	\$0.08824	\$940,060	\$0.08797	\$937,183
15	Energy Charge >500 kWh Oct- May	12,889,822	kWh	\$0.10553	\$1,360,263	\$0.12225	\$1,575,781
16	PSCR	30,386,898	kWh	-\$0.00276	-\$83,868	-\$0.00276	-\$83,868
17	Total - Power Supply				\$2,886,926		\$3,109,080
18							
19	Rate Realignment	30,386,898	kWh	\$0.00000	\$0	\$0.00000	\$0
20							
21	COSS - Power Supply						\$3,062,083
22	% Deficient						-1.53%
23	Total Base				\$5,242,960		\$5,739,284

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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Commercial C-1						
2	Distribution						
3	Yr Round Customer Charge \$/Mo	51,751	Cust	\$14.00	\$724,514	\$15.00	\$776,265
4	Energy Charge \$/kWh	53,836,770	kWh	\$0.05396	\$2,905,032	\$0.05850	\$3,149,451
5	Total - Distribution				\$3,629,546		\$3,925,716
6							
7	COSS - Distribution						\$3,925,861
8	% Deficient						0.00%
9							
10	Power Supply						
11	Energy Charge \$/kWh	53,836,770	kWh	\$0.12677	\$6,824,887	\$0.13180	\$7,095,686
12	PSCR	53,836,770	kWh	-\$0.00276	-\$148,589	-\$0.00276	-\$148,589
13	Total - Power Supply				\$6,676,298		\$6,947,097
14							
15	Rate Realignment	53,836,770	kWh	\$0.00000	\$0	\$0.00000	\$0
16							
17	COSS - Power Supply						\$6,100,269
18	% Deficient						-16.32%
19	Total Base				\$10,305,844		\$10,872,813

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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Commercial Heating - H-1						
2	Distribution						
3	Yr Round Customer Charge \$/Mo	2,592	Cust	\$14.00	\$36,288	\$15.00	\$38,880
4	Energy Charge - June- Sep \$/kWh	2,366,076	kWh	\$0.05396	\$127,673	\$0.05850	\$138,415
5	Energy Charge - <1000 kWh Oct - May	1,323,134	kWh	\$0.05936	\$78,541	\$0.06435	\$85,144
6	Energy Charge >1000 kWh Oct- May	4,520,124	kWh	\$0.02254	\$101,884	\$0.01068	\$48,275
7	Total - Distribution				\$344,386		\$310,714
8							
9	COSS - Distribution						\$310,716
10	% Deficient						0.00%
11							
12	Power Supply						
13	Energy Charge - June- Sep \$/kWh	2,366,076	kWh	\$0.12912	\$305,508	\$0.12552	\$296,990
14	Energy Charge - <1000 kWh Oct - May	1,323,134	kWh	\$0.12138	\$160,602	\$0.11732	\$155,230
15	Energy Charge >1000 kWh Oct- May	4,520,124	kWh	\$0.10919	\$493,552	\$0.12557	\$567,592
16	PSCR	8,209,334	kWh	-\$0.00276	-\$22,658	-\$0.00276	-\$22,658
17	Total - Power Supply				\$937,004		\$997,154
18							
19	Rate Realignment	8,209,334	kWh	\$0.00000	\$0	\$0.00000	\$0
20							
21	COSS - Power Supply						\$787,280
22	% Deficient						-26.66%
23	Total Base				\$1,281,391		\$1,307,868

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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Med Commercial - P-1 (> 25 Kw)						
2	Distribution						
3	Customer Charge	4,992	Cust	\$25.00	\$124,800	\$28.00	\$139,776
4	Demand Charge	273,321	kW	\$2.50	\$683,303	\$2.25	\$614,972
5	Energy Charge \$/kWh	82,976,843	kWh	\$0.02136	\$1,772,385	\$0.02559	\$2,123,377
6	Total - Distribution				\$2,580,488		\$2,878,126
7							
8	COSS - Distribution						\$2,878,275
9	% Deficient						0.01%
10							
11	Power Supply						
12	Demand Charge	273,321	kW	\$10.50	\$2,869,871	\$11.25	\$3,074,861
13	Energy Charge \$/kWh	82,976,843	kWh	\$0.08559	\$7,101,988	\$0.08769	\$7,276,239
14	PSCR	82,976,843	kWh	-\$0.00276	-\$229,016	-\$0.00276	-\$229,016
15	Total - Power Supply				\$9,742,842		\$10,122,085
16							
17	Rate Realignment	82,976,843	kWh	\$0.00000	\$0	\$0.00000	\$0
18							
19	COSS - Power Supply						\$9,217,708
20	% Deficient						-9.81%
21	Total Base				\$12,323,330		\$13,000,210

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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Industrial Cp-U (Integrated)						
2	Distribution Service						
3	Firm Demand Charge - Secondary	177,615	kW	\$4.65	\$825,910	\$6.00	\$1,065,690
4	Firm Demand Charge - Primary	77,482	kW	\$4.53	\$350,993	\$5.84	\$452,495
5	Firm Demand Charge - Transmission	51,605	kW	\$4.31	\$222,418	\$5.55	\$286,408
6							
7	Interruptible Demand Charge - Secondary	13,047	kW	\$5.50	\$71,759	\$6.00	\$78,282
8	Interruptible Demand Charge - Primary	3,381	kW	\$5.15	\$17,412	\$5.84	\$19,745
9	Interruptible Demand Charge - Transmission	71,826	kW	\$4.53	\$325,372	\$5.55	\$398,634
10							
11	Customer Demand Charge (Secondary)	224,124	kW	\$2.50	\$560,310	\$2.50	\$560,310
12	Customer Demand Charge (Primary)	86,912	kW	\$1.88	\$163,395	\$1.88	\$163,395
13	Substation Transformer Capacity (Transmission)	194,700	kVa	\$0.60	\$116,820	\$0.70	\$136,290
14							
15	Customer Charge - Secondary	576	Cust	\$250.00	\$144,000	\$300	\$172,800
16	Customer Charge - Primary	72	Cust	\$325.00	\$23,400	\$375	\$27,000
17	Customer Charge - Transmission	48	Cust	\$750.00	\$36,000	\$800	\$38,400
18							
19	Total Distribution Service				\$2,857,788		\$3,399,449
20							
21	COSS						\$3,106,106
22	% Deficient						-9.44%
23							
24	Power Supply						
25	Firm Demand Charge - Secondary	177,615	kW	\$8.35	\$1,483,085	\$7.50	\$1,332,113
26	Firm Demand Charge - Primary	77,482	kW	\$8.12	\$629,154	\$7.30	\$565,619
27	Firm Demand Charge - Transmission	42,550	kW	\$7.72	\$328,486	\$6.94	\$295,297
28							
29	Energy Charge -						
30	On-Peak Energy Charge (Secondary)	38,809,376	kWh	\$0.09642	\$3,742,000	\$0.10139	\$3,934,883
31	On-Peak Energy Charge (Primary)	18,530,766	kWh	\$0.09423	\$1,746,154	\$0.09908	\$1,836,028
32	On-Peak Energy Charge (Transmission)	22,939,955	kWh	\$0.09078	\$2,082,489	\$0.09545	\$2,189,619
33	Off-Peak Energy Charge (Secondary)	33,564,718	kWh	\$0.06268	\$2,103,837	\$0.06590	\$2,211,915
34	Off-Peak Energy Charge (Primary)	14,435,464	kWh	\$0.06125	\$884,172	\$0.06440	\$929,644
35	Off-Peak Energy Charge (Transmission)	19,250,280	kWh	\$0.05901	\$1,135,959	\$0.06204	\$1,194,287
36							
37	PSCR	147,530,559	kWh	-\$0.00276	-\$407,184	-\$0.00276	-\$407,184
38							
39	Total Power Supply Costs				\$13,728,152		\$14,082,220
40							
41	Rate Realignment	147,530,559	kWh	\$0.00000	\$0	\$0.00000	\$0
42	Standby Demand	57,972	kW	\$2.00	\$115,944	\$2.00	\$115,944
43	COSS						\$13,145,658
44	% Deficient						-7.12%
45	Total Base				\$16,701,883		\$17,597,612

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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Schedule A						
2	Distribution Service						
3	Customer Charge	0	Cust	\$750.00	\$0	\$800.00	\$0
4	Demand Charges Firm	0	kW	\$3.45	\$0	\$4.99	\$0
5	Demand Charges Interruptible	0	kW	\$4.53	\$0	\$4.99	\$0
6	Substation Capacity Transformer (\$/kVa)	0	kVa	\$0.60	\$0	\$0.70	\$0
7	Total Distribution Service				\$0		\$0
8	COSS						
9	% Deficient						
10							
11	Power Supply						
12	Demand Charge	0	kW	\$8.58	\$0	\$7.50	\$0
13	Demand Charge Interruptible	0	kW	\$0.00	\$0	\$0.00	\$0
14	Interruptible						
15	Energy Charge -						
16	Onpeak Energy Charge	0	kWh	\$0.07994	\$0	\$0.08050	\$0
17	Off Peak Energy Charge	0	kWh	\$0.05018	\$0	\$0.05053	\$0
18	Total Energy Charges				\$0		\$0
19	PSCR	0	kWh	-\$0.00276	\$0	-\$0.00276	\$0
20	Total Power Supply Costs				\$0		\$0
21							
22	Rate Realignment	0	kWh	\$0.00000	\$0	\$0.00000	\$0
23							
24	COSS						
25	% Deficient						
26	Total Base				\$0		\$0

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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(e) Proposed		(d)	(f)
		Quantity	Units	Rate	Revenue	Rate	Revenue		
1	Industrial WP-3								
2	Distribution Service								
3	Customer Charge	12	Cust	\$750.00	\$9,000	\$800.00	\$9,600		
4	Demand Charges Firm	0	kW	\$2.22	\$0	\$4.25	\$0		
5	Demand Charges Interruptible	72,756	kW	\$3.27	\$237,912	\$4.25	\$309,213		
6	Substation Capacity Transformer (\$/kVa)	147,600	kVa	\$0.60	\$88,560	\$0.70	\$103,320		
7	Total Distribution Service				\$335,472		\$422,133		
8	COSS						\$401,715		
9	% Deficient								-4.84%
10									
11	Power Supply								
12	Demand Charge	0	kW	\$9.81	\$0	\$8.24	\$0		
13	Demand Charge Interruptible	72,756	kW	\$1.26	\$91,673	\$0.74	\$53,839		
14	Interruptible								
15	Energy Charge -								
16	Onpeak Energy Charge	18,817,635	kWh	\$0.07274	\$1,368,795	\$0.07278	\$1,369,547		
17	Off Peak Energy Charge	16,635,059	kWh	\$0.04810	\$800,146	\$0.04813	\$800,645		
18	Total Energy Charges				\$2,168,941		\$2,170,193		
19	PSCR	35,452,694	kWh	-\$0.00276	-\$97,849	-\$0.00276	-\$97,849		
20	Total Power Supply Costs				\$2,162,764		\$2,126,183		
21									
22	Rate Realignment	35,452,694	kWh	\$0.00000	\$0	\$0.00000	\$0		
23									
24	COSS						\$1,888,212		
25	% Deficient								-11.19%
26	Total Base				\$2,498,236		\$2,548,316		

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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Real-Time Market Pricing (RTMP)						
2	Distribution Service						
3	Customer Charge	12	Cust	\$1,000.00	\$12,000	\$1,000.00	\$12,000
4	Demand Charge	376,897	kW	\$0.71	\$267,597	\$0.71	\$267,597
5							
6							
7	Power Supply						
8	Scheduling Charge	12	Cust	\$1,000.00	\$12,000	\$1,000.00	\$12,000
9	Energy Charge	177,760,494	kWh	\$0.00000	\$0	\$0.00000	\$0
10							
11	Total Base				\$291,597		\$291,597

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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Real-Time Market Pricing (RTMP-D)						
2	Distribution Service						
3	Customer Charge	0	Cust	\$1,000.00	\$0	\$1,000.00	\$0
4	Demand Charge	0	kW	\$3.27	\$0	\$4.25	\$0
5							
6	Power Supply						
7	Scheduling Charge	0	Cust	\$1,000.00	\$0	\$1,000.00	\$0
8	Energy Charge	0	kWh	\$0.00000	\$0	\$0.00000	\$0
9							
10	Total Base				\$0		\$0

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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Z-3						
2	100 watt (Sodium Vapor)	14,485	Lamps	\$17.26	\$250,011	\$18.88	\$273,477
3	250 watt (Sodium Vapor)	1,417	Lamps	\$26.46	\$37,494	\$28.94	\$41,008
4	400 watt (Sodium Vapor)	168	Lamps	\$32.02	\$5,379	\$35.02	\$5,883
5	175 watt (Mercury Vapor)	3,952	Lamps	\$15.30	\$60,466	\$16.73	\$66,117
6	400 watt (Mercury Vapor)	194	Lamps	\$28.61	\$5,550	\$31.29	\$6,070
7	400 watt (Metal Halide)	0	Lamps	\$31.81	\$0	\$34.79	\$0
8	1000 watt (Metal Halide)	12	Lamps	\$58.55	\$703	\$64.03	\$768
9	Add'l Wood Pole	1,788	Poles	\$3.59	\$6,419	\$3.93	\$7,027
10	Span of Conductor	1,860	Spans	\$2.59	\$4,817	\$2.83	\$5,264
11	Rate Realignment	1,352,188	kWh	\$0.00000	\$0	\$0.00000	\$0
12	PSCR	1,352,188	kWh	-\$0.00276	-\$3,732	-\$0.00276	-\$3,732
13	Total Base				\$367,107		\$401,882

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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	SL						
2	SI-3 - Energy	636,877	kWh	\$0.14820	\$94,385	\$0.13697	\$87,233
3	SI-3 - Customer Charge	1,140	Cust	\$0.00	\$0	\$15.00	\$17,100
4	SI-5 0-99 watt (LED)	0	Lamps	\$8.86	\$0	\$9.69	\$0
5	SI-5 100-199 watt (LED)	0	Lamps	\$11.64	\$0	\$12.73	\$0
6	SI-5 200-299 watt (LED)	0	Lamps	\$14.43	\$0	\$15.78	\$0
7	SI-5 300-399 watt (LED)	0	Lamps	\$17.21	\$0	\$18.82	\$0
8	SI-5 100 watt (Sodium Vapor)	24	Lamps	\$9.85	\$236	\$10.77	\$258
9	SI-5 150 watt (Sodium Vapor)	2,412	Lamps	\$11.66	\$28,124	\$12.75	\$30,753
10	SI-5 250 watt (Sodium Vapor)	300	Lamps	\$15.14	\$4,542	\$16.56	\$4,968
11	SI -5 400 watt (Sodium Vapor)	24	Lamps	\$19.21	\$461	\$21.01	\$504
12	SI-5 400 watt (Mercury Vapor)	252	Lamps	\$22.78	\$5,741	\$24.91	\$6,277
13	SI-5 Add'l Wood Pole	12	Poles	\$3.59	\$43	\$3.93	\$47
14	SI-5 Span of Conductor	12	Spans	\$2.59	\$31	\$2.83	\$34
15	SI-6 100 watt (Sodium Vapor)	57,044	Lamps	\$15.37	\$876,766	\$16.79	\$957,769
16	SI-6 150 watt (Sodium Vapor)	15,867	Lamps	\$18.68	\$296,396	\$20.44	\$324,321
17	SI-6 250 watt (Sodium Vapor)	1,333	Lamps	\$21.20	\$28,260	\$23.18	\$30,899
18	SI-6 400 watt (Sodium Vapor)	193	Lamps	\$29.82	\$5,755	\$32.61	\$6,294
19	SI-6 175 watt (Mercury Vapor)	2,925	Lamps	\$15.68	\$45,864	\$17.15	\$50,164
20	SI-6 400 watt (Mercury Vapor)	24	Lamps	\$28.80	\$691	\$31.49	\$756
21	SI-6 175 watt (Metal Halide)	180	Lamps	\$25.58	\$4,604	\$27.97	\$5,035
22	SI-6 400 watt (Metal Halide)	0	Lamps	\$31.49	\$0	\$34.44	\$0
23	SL-6 1000 watt (Metal Halide)	0	Lamps	\$58.03	\$0	\$63.46	\$0
24	SI-6 Add'l Wood Pole	4,224	Poles	\$3.59	\$15,164	\$3.93	\$16,600
25	SI-6 Span of Conductor	4,464	Spans	\$2.59	\$11,562	\$2.83	\$12,633
26	Rate Realignment	5,210,165	kWh	\$0.00000	\$0	\$0.00000	\$0
27	PSCR	5,210,165	kWh	-\$0.00276	-\$14,380	-\$0.00276	-\$14,380
28	Total Base				\$1,404,245		\$1,537,266

Schedule F3

Michigan Public Service Commission
 Upper Peninsula Power Company
 Present and Proposed Revenue Detail

Case No.: U-16417
 Exhibit No.: A-6 (JMB-1)
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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Residential - A-2						
2	Distribution						
3	Yr Round Customer Charge \$/Mo	38,801	Cust	\$10.00	\$388,010	\$11.00	\$426,811
4	Energy Charge \$/kWh	18,164,102	kWh	\$0.07928	\$1,440,050	\$0.08493	\$1,542,677
5	Total - Distribution				\$1,828,060		\$1,969,488
6							
7	COSS - Distribution						\$1,969,418
8	% Deficient						0.00%
9							
10	Power Supply						
11	Energy Charge \$/kWh	18,164,102	kWh	\$0.07937	\$1,441,685	\$0.09552	\$1,735,035
12	PSCR Revenues	18,164,102	kWh	-\$0.00276	-\$50,133	-\$0.00276	-\$50,133
13	Total - Power Supply				\$1,391,552		\$1,684,902
14							
15	Rate Realignment	18,164,102	kWh	\$0.00000	\$0	\$0.00000	\$0
16							
17	COSS - Power Supply						\$2,002,587
18	% Deficient						15.86%
19	Total Base				\$3,219,612		\$3,654,390

Schedule F3

Michigan Public Service Commission
 Upper Peninsula Power Company
 Present and Proposed Revenue Detail

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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Residential Heating - AH-2						
2	Distribution						
3	Yr Round Customer Charge \$/Mo	2,192	Cust	\$10.00	\$21,920	\$11.00	\$24,112
4	Energy Charge - June- Sep \$/kWh	392,267	kWh	\$0.07928	\$31,099	\$0.08493	\$33,315
5	Energy Charge - <500 kWh Oct - May	623,320	kWh	\$0.08721	\$54,360	\$0.09342	\$58,231
6	Energy Charge >500 kWh Oct- May	791,488	kWh	\$0.03206	\$25,375	\$0.02284	\$18,078
7	Total - Distribution				\$132,754		\$133,735
8							
9	COSS - Distribution						\$133,736
10	% Deficient						0.00%
11							
12	Power Supply						
13	Energy Charge - June- Sep \$/kWh	392,267	kWh	\$0.11586	\$45,448	\$0.13702	\$53,748
14	Energy Charge - <500 kWh Oct - May	623,320	kWh	\$0.07144	\$44,530	\$0.08703	\$54,248
15	Energy Charge >500 kWh Oct- May	791,488	kWh	\$0.10333	\$81,784	\$0.13043	\$103,234
16	PSCR Revenues	1,807,075	kWh	-\$0.00276	-\$4,988	-\$0.00276	-\$4,988
17	Total - Power Supply				\$166,775		\$206,242
18							
19	Rate Realignment	1,807,075	kWh	\$0.00000	\$0	\$0.00000	\$0
20							
21	COSS - Power Supply						\$184,190
22	% Deficient						-11.97%
23	Total Base				\$299,529		\$339,978

Schedule F3

Michigan Public Service Commission
 Upper Peninsula Power Company
 Present and Proposed Revenue Detail

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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Commercial C-2						
2	Distribution						
3	Yr Round Customer Charge \$/Mo	4,812	Cust	\$14.00	\$67,368	\$15.00	\$72,180
4	Energy Charge \$/kWh	6,293,101	kWh	\$0.04597	\$289,294	\$0.04546	\$286,084
5	Total - Distribution				\$356,662		\$358,264
6							
7	COSS - Distribution						\$358,269
8	% Deficient						0.00%
9							
10	Power Supply						
11	Energy Charge \$/kWh	6,293,101	kWh	\$0.11245	\$707,659	\$0.12883	\$810,740
12	PSCR Revenues	6,293,101	kWh	-\$0.00276	-\$17,369	-\$0.00276	-\$17,369
13	Total - Power Supply				\$690,290		\$793,371
14							
15	Rate Realignment	6,293,101	kWh	\$0.00000	\$0	\$0.00000	\$0
16							
17	COSS - Power Supply						\$721,876
18	% Deficient						-9.90%
19	Total Base				\$1,046,952		\$1,151,636

Schedule F3

Michigan Public Service Commission
 Upper Peninsula Power Company
 Present and Proposed Revenue Detail

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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Commercial Heating - H-2						
2	Distribution						
3	Yr Round Customer Charge \$/Mo	288	Cust	\$14.00	\$4,032	\$15.00	\$4,320
4	Energy Charge - June- Sep \$/kWh	150,753	kWh	\$0.04597	\$6,930	\$0.04546	\$6,853
5	Energy Charge - <1000 kWh Oct - May	121,745	kWh	\$0.05057	\$6,157	\$0.05001	\$6,088
6	Energy Charge >1000 kWh Oct- May	385,302	kWh	\$0.02875	\$11,077	\$0.01673	\$6,446
7	Total - Distribution				\$28,196		\$23,708
8							
9	COSS - Distribution						\$23,709
10	% Deficient						0.00%
11							
12	Power Supply						
13	Energy Charge - June- Sep \$/kWh	150,753	kWh	\$0.11546	\$17,406	\$0.13214	\$19,921
14	Energy Charge - <1000 kWh Oct - May	121,745	kWh	\$0.10785	\$13,130	\$0.12428	\$15,130
15	Energy Charge >1000 kWh Oct- May	385,302	kWh	\$0.10281	\$39,613	\$0.11399	\$43,921
16	PSCR Revenues	657,800	kWh	-\$0.00276	-\$1,816	-\$0.00276	-\$1,816
17	Total - Power Supply				\$68,334		\$77,156
18							
19	Rate Realignment	657,800	kWh	\$0.00000	\$0	\$0.00000	\$0
20							
21	COSS - Power Supply						\$64,222
22	% Deficient						-20.14%
23	Total Base				\$96,530		\$100,864

Schedule F3

Michigan Public Service Commission
 Upper Peninsula Power Company
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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Med Commercial - P-2 (> 25 Kw)						
2	Distribution						
3	Customer Charge	672	Cust	\$25.00	\$16,800	\$28.00	\$18,816
4	Demand Charge	30,342	kW	\$6.95	\$210,877	\$2.25	\$68,270
5	Energy Charge \$/kWh	8,382,470	kWh	\$0.00185	\$15,508	\$0.02559	\$214,507
6	Total - Distribution				\$243,184		\$301,593
7							
8	COSS - Distribution						\$238,734
9	% Deficient						-26.33%
10							
11	Power Supply						
12	Demand Charge	30,342	kW	\$3.05	\$92,543	\$11.25	\$341,348
13	Energy Charge \$/kWh	8,382,470	kWh	\$0.10956	\$918,383	\$0.08769	\$735,059
14	PSCR Revenues	8,382,470	kWh	-\$0.00276	-\$23,136	-\$0.00276	-\$23,136
15	Total - Power Supply				\$987,791		\$1,053,271
16							
17	Rate Realignment	8,382,470	kWh	\$0.00000	\$0	\$0.00000	\$0
18							
19	COSS - Power Supply						\$937,584
20	% Deficient						-12.34%
21	Total Base				\$1,230,975		\$1,354,864

Schedule F3

Michigan Public Service Commission
 Upper Peninsula Power Company
 Present and Proposed Revenue Detail

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 Witness: James M. Beyer

Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Cp-U (Iron River)						
2	Distribution						
3	Firm Demand Charge - Secondary	21,484	kW	\$4.65	\$99,901	\$6.00	\$128,904
4	Firm Demand Charge - Transmission	25,200	kW	\$4.31	\$108,612	\$5.55	\$139,860
5							
6	Interruptible Demand Charge - Transmission	14,535	kW	\$4.53	\$65,844	\$5.55	\$80,669
7							
8	Customer Demand Charge - Secondary	26,540	kW	\$2.50	\$66,350	\$2.50	\$66,350
9							
10	Customer Charge - Secondary	72	Cust	\$250	\$18,000	\$300	\$21,600
11	Customer Charge - Transmission	12	Cust	\$750	\$9,000	\$800	\$9,600
12							
13	Total - Distribution				\$367,706		\$446,983
14							
15	COSS - Distribution						\$489,902
16	% Deficient						8.76%
17							
18	Power Supply						
19	Firm Demand Charge - Secondary	21,484	kW	\$8.35	\$179,391	\$7.50	\$161,130
20	Firm Demand Charge - Transmission	25,200	kW	\$7.72	\$194,544	\$6.94	\$174,888
21							
22	On-Peak Energy Charge (Secondary)	4,365,735	kWh	\$0.09642	\$420,944	\$0.10139	\$442,642
23	On-Peak Energy Charge (Transmission)	5,877,632	kWh	\$0.09078	\$533,571	\$0.09545	\$561,020
24	Off-Peak Energy Charge (Secondary)	3,389,334	kWh	\$0.06268	\$212,443	\$0.06590	\$223,357
25	Off-Peak Energy Charge (Transmission)	7,561,650	kWh	\$0.05901	\$446,213	\$0.06204	\$469,125
26							
27	PSCR Revenues	21,194,351	kWh	-\$0.00276	-\$58,496	-\$0.00276	-\$58,496
28							
29	Total - Power Supply				\$1,928,611		\$1,973,665
30							
31	Rate Realignment	21,194,351	kWh	\$0.00000	\$0	\$0.00000	\$0
32							
33	COSS - Power Supply						\$2,293,018
34	% Deficient						13.93%
35	Total Base				\$2,296,317		\$2,420,649

Schedule F3

Michigan Public Service Commission
 Upper Peninsula Power Company
 Present and Proposed Revenue Detail

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 Witness: James M. Beyer

Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Z-4						
2	100 watt (Sodium Vapor)	2,099	Lamps	\$12.76	\$26,783	\$14.50	\$30,436
3	250 watt (Sodium Vapor)	339	Lamps	\$22.97	\$7,787	\$26.08	\$8,841
4	400 watt (Sodium Vapor)	12	Lamps	\$24.15	\$290	\$27.43	\$329
5	175 watt (Mercury Vapor)	353	Lamps	\$13.16	\$4,645	\$14.93	\$5,270
6	400 watt (Metal Halide)	12	Lamps	\$24.03	\$288	\$27.30	\$328
7	1000 watt (Metal Halide)	0	Lamps	\$40.92	\$0	\$46.49	\$0
8	Add'l Wood Pole	408	Poles	\$3.59	\$1,465	\$3.93	\$1,603
9	Span of Conductor	396	Spans	\$2.59	\$1,026	\$2.83	\$1,121
10	Rate Realignment	169,654	kWh	\$0.00000	\$0	\$0.00000	\$0
11	PSCR	169,654	kWh	-\$0.00276	-\$468	-\$0.00276	-\$468
12	Total Base				\$41,816		\$47,460

Schedule F3

Michigan Public Service Commission
 Upper Peninsula Power Company
 Present and Proposed Revenue Detail

Case No.: U-16417
 Exhibit No.: A-6 (JMB-1)
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 Witness: James M. Beyer

Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	SL-10						
2	SI-10 70 watt (Sodium Vapor)	4,662	Lamps	\$14.42	\$67,226	\$16.36	\$76,270
3	SI-10 100 watt (Sodium Vapor)	1,044	Lamps	\$16.65	\$17,383	\$16.79	\$17,529
4	SI-10 150 watt (Sodium Vapor)	1,680	Lamps	\$18.53	\$31,130	\$20.44	\$34,339
5	SI-10 250 watt (Sodium Vapor)	430	Lamps	\$24.39	\$10,488	\$23.18	\$9,967
6	SI -10 400 watt (Sodium Vapor)	0	Lamps	\$28.88	\$0	\$32.61	\$0
7	SI-10 175 watt (Mercury Vapor)	352	Lamps	\$14.98	\$5,273	\$17.15	\$6,037
8	SI-10 400 watt (Metal Halide)	0	Lamps	\$29.99	\$0	\$34.44	\$0
9	SI-10 1000 watt (Metal Halide)	0	Lamps	\$48.49	\$0	\$63.46	\$0
10	SI-10 Add'l Wood Pole	348	Poles	\$3.59	\$1,249	\$3.93	\$1,368
11	SI-10 Span of Conductor	372	Spans	\$2.59	\$963	\$2.83	\$1,053
12	Rate Realignment	406,300	kWh	\$0.00000	\$0	\$0.00000	\$0
13	PSCR	404,979	kWh	-\$0.00276	-\$1,118	-\$0.00276	-\$1,118
14	Total Base				\$132,595		\$145,445

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

Case No.: U-16417
 Exhibit No.: A-6 (JMB-1)
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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Amount	Percent	Proposed \$/kWh	
INTEGRATED RETAIL SYSTEM: RATE A-1									
1		0		\$10.00	\$11.00	\$1.00	10.00%	NA	
2		50		\$18.57	\$20.37	\$1.81	9.72%	\$0.40746	
3		100		\$27.14	\$29.75	\$2.61	9.62%	\$0.29746	
4		150		\$35.70	\$39.12	\$3.42	9.57%	\$0.26079	
5		200		\$44.27	\$48.49	\$4.22	9.54%	\$0.24246	
6		250		\$52.84	\$57.87	\$5.03	9.52%	\$0.23146	
7		300		\$61.41	\$67.24	\$5.83	9.50%	\$0.22413	
8		350		\$69.97	\$76.61	\$6.64	9.49%	\$0.21889	
9		400		\$78.54	\$85.98	\$7.44	9.48%	\$0.21496	
10		450		\$87.11	\$95.36	\$8.25	9.47%	\$0.21190	
11		500		\$95.68	\$104.73	\$9.06	9.46%	\$0.20946	
12		550		\$104.24	\$114.10	\$9.86	9.46%	\$0.20746	
13		600		\$112.81	\$123.48	\$10.67	9.45%	\$0.20579	
14		650		\$121.38	\$132.85	\$11.47	9.45%	\$0.20438	
15		700		\$129.95	\$142.22	\$12.28	9.45%	\$0.20317	

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

Case No.: U-16417
 Exhibit No.: A-6 (JMB-1)
 Schedule F4
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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Amount	Percent	Proposed \$/kWh	
INTEGRATED RETAIL SYSTEM: RATE AH-1									
1		0		\$10.00	\$11.00	\$1.00	10.00%	NA	
2		100		\$27.20	\$29.82	\$2.62	9.62%	\$0.29816	
3		300		\$61.60	\$67.45	\$5.85	9.50%	\$0.22482	
4		500		\$96.00	\$105.08	\$9.08	9.46%	\$0.21016	
5		700		\$126.37	\$138.32	\$11.95	9.46%	\$0.19760	
6		1,000		\$171.93	\$188.18	\$16.25	9.45%	\$0.18818	
7		1,500		\$247.87	\$271.28	\$23.41	9.44%	\$0.18085	
8		2,000		\$323.80	\$354.37	\$30.57	9.44%	\$0.17719	
9		2,500		\$399.74	\$437.47	\$37.74	9.44%	\$0.17499	
10		3,000		\$475.67	\$520.57	\$44.90	9.44%	\$0.17352	

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

Case No.: U-16417
 Exhibit No.: A-6 (JMB-1)
 Schedule F4
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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed	Proposed
						Amount	Percent		\$/kWh
INTEGRATED RETAIL SYSTEM: RATE C-1									
1		0		\$14.00	\$15.00	\$1.00	7.14%		NA
2		100		\$31.80	\$33.75	\$1.96	6.15%		\$0.33754
3		300		\$67.39	\$71.26	\$3.87	5.74%		\$0.23754
4		500		\$102.99	\$108.77	\$5.79	5.62%		\$0.21754
5		700		\$138.58	\$146.28	\$7.70	5.56%		\$0.20897
6		1,000		\$191.97	\$202.54	\$10.57	5.51%		\$0.20254
7		2,500		\$458.93	\$483.85	\$24.93	5.43%		\$0.19354
8		5,000		\$903.85	\$952.70	\$48.85	5.40%		\$0.19054
9		7,500		\$1,348.78	\$1,421.55	\$72.78	5.40%		\$0.18954
10		10,000		\$1,793.70	\$1,890.40	\$96.70	5.39%		\$0.18904

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

Case No.: U-16417
 Exhibit No.: A-6 (JMB-1)
 Schedule F4
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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Amount	Percent	Increase	Proposed \$/kWh
INTEGRATED RETAIL SYSTEM: RATE H-1									
1		0		\$14.00	\$15.00	\$1.00	7.14%		NA
2		100		\$31.88	\$32.97	\$1.09	3.43%		\$0.32969
3		300		\$67.63	\$68.91	\$1.28	1.89%		\$0.22969
4		500		\$103.38	\$104.85	\$1.47	1.42%		\$0.20969
5		700		\$139.13	\$140.79	\$1.65	1.19%		\$0.20112
6		1,000		\$192.76	\$194.69	\$1.93	1.00%		\$0.19469
7		1,500		\$265.80	\$269.40	\$3.60	1.35%		\$0.17960
8		2,000		\$338.85	\$344.11	\$5.26	1.55%		\$0.17205
9		2,500		\$411.89	\$418.81	\$6.92	1.68%		\$0.16753
10		3,000		\$484.93	\$493.52	\$8.59	1.77%		\$0.16451

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

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 Exhibit No.: A-6 (JMB-1)
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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Amount	Percent	Proposed \$/kWh	
INTEGRATED RETAIL SYSTEM: RATE P-1									
1		0	0	\$25.00	\$28.00	\$3.00	12.00%	NA	
2		1,000	10	\$259.19	\$273.52	\$14.33	5.53%	\$0.27352	
3		4,000	15	\$636.76	\$672.58	\$35.82	5.63%	\$0.16815	
4		9,000	25	\$1,287.71	\$1,360.18	\$72.47	5.63%	\$0.15113	
5		13,000	35	\$1,834.47	\$1,937.26	\$102.79	5.60%	\$0.14902	
6		17,000	45	\$2,381.23	\$2,514.34	\$133.11	5.59%	\$0.14790	
7		20,000	55	\$2,823.80	\$2,980.90	\$157.10	5.56%	\$0.14905	
8		23,000	65	\$3,266.37	\$3,447.46	\$181.09	5.54%	\$0.14989	
9		25,000	75	\$3,604.75	\$3,803.50	\$198.75	5.51%	\$0.15214	
10		27,000	85	\$3,943.13	\$4,159.54	\$216.41	5.49%	\$0.15406	
11		29,000	95	\$4,281.51	\$4,515.58	\$234.07	5.47%	\$0.15571	
12		31,000	105	\$4,619.89	\$4,871.62	\$251.73	5.45%	\$0.15715	

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

Case No.: U-16417
 Exhibit No.: A-6 (JMB-1)
 Schedule F4
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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Amount	Percent	Proposed \$/kWh	
INTEGRATED RETAIL SYSTEM: RATE CP-U									
1		0	0	\$2,388.67	\$2,763.17	\$374.50	15.68%	NA	
2		160,000	420	\$21,083.59	\$22,356.18	\$1,272.59	6.04%	\$0.13973	
3		320,000	840	\$39,778.51	\$41,949.19	\$2,170.69	5.46%	\$0.13109	
4		480,000	1,260	\$58,473.43	\$61,542.21	\$3,068.78	5.25%	\$0.12821	
5		640,000	1,680	\$77,168.35	\$81,135.22	\$3,966.88	5.14%	\$0.12677	
6		800,000	2,100	\$95,863.27	\$100,728.24	\$4,864.97	5.07%	\$0.12591	
7		960,000	2,520	\$114,558.19	\$120,321.25	\$5,763.06	5.03%	\$0.12533	
8		1,120,000	2,940	\$133,253.11	\$139,914.26	\$6,661.16	5.00%	\$0.12492	
9		1,280,000	3,360	\$151,948.03	\$159,507.28	\$7,559.25	4.97%	\$0.12462	
10		1,440,000	3,780	\$170,642.95	\$179,100.29	\$8,457.35	4.96%	\$0.12438	
11		1,600,000	4,200	\$189,337.87	\$198,693.31	\$9,355.44	4.94%	\$0.12418	

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

Case No.: U-16417
 Exhibit No.: A-6 (JMB-1)
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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed	Proposed
						Amount	Percent		\$/kWh
INTEGRATED RETAIL SYSTEM: RATE SCHEDULE A									
1		0	0	\$20,910.00	\$24,320.00	\$3,410.00	14.02%		NA
2		1,140,000	2,000	\$102,349.06	\$107,207.33	\$4,858.28	4.53%		\$0.09404
3		2,280,000	4,000	\$183,788.11	\$190,094.66	\$6,306.55	3.32%		\$0.08337
4		3,420,000	6,000	\$265,227.17	\$272,982.00	\$7,754.83	2.84%		\$0.07982
5		4,560,000	8,000	\$346,666.22	\$355,869.33	\$9,203.10	2.59%		\$0.07804
6		5,700,000	10,000	\$428,105.28	\$438,756.66	\$10,651.38	2.43%		\$0.07697
7		6,840,000	12,000	\$509,544.34	\$521,643.99	\$12,099.66	2.32%		\$0.07626
8		7,980,000	14,000	\$590,983.39	\$604,531.32	\$13,547.93	2.24%		\$0.07576
9		9,120,000	16,000	\$672,422.45	\$687,418.66	\$14,996.21	2.18%		\$0.07537
10		10,260,000	18,000	\$753,861.50	\$770,305.99	\$16,444.48	2.13%		\$0.07508
11		11,400,000	20,000	\$835,300.56	\$853,193.32	\$17,892.76	2.10%		\$0.07484

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

Case No.: U-16417
 Exhibit No.: A-6 (JMB-1)
 Schedule F4
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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Amount	Percent	Proposed \$/kWh	
INTEGRATED RETAIL SYSTEM: RATE WP-3									
1		0	0	\$8,130.00	\$9,410.00	\$1,280.00	15.74%	NA	
2		600,000	1,200	\$48,753.36	\$50,606.60	\$1,853.24	3.80%	\$0.08434	
3		1,200,000	2,400	\$89,376.72	\$91,803.20	\$2,426.48	2.71%	\$0.07650	
4		1,800,000	3,600	\$130,000.08	\$132,999.80	\$2,999.72	2.31%	\$0.07389	
5		2,400,000	4,800	\$170,623.44	\$174,196.40	\$3,572.96	2.09%	\$0.07258	
6		3,000,000	6,000	\$211,246.80	\$215,393.00	\$4,146.20	1.96%	\$0.07180	
7		3,600,000	7,200	\$251,870.16	\$256,589.60	\$4,719.44	1.87%	\$0.07127	
8		4,200,000	8,400	\$292,493.52	\$297,786.20	\$5,292.68	1.81%	\$0.07090	
9		4,800,000	9,600	\$333,116.88	\$338,982.80	\$5,865.92	1.76%	\$0.07062	
10		5,400,000	10,800	\$373,740.24	\$380,179.40	\$6,439.16	1.72%	\$0.07040	
11		6,000,000	12,000	\$414,363.60	\$421,376.00	\$7,012.40	1.69%	\$0.07023	

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

Case No.: U-16417
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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed	Proposed
						Amount	Percent		\$/kWh
INTEGRATED RETAIL SYSTEM: RATE RTMP									
1		0	0	\$2,000.00	\$2,000.00	\$0.00	0.00%		NA
2		600,000	1,200	\$2,852.00	\$2,852.00	\$0.00	0.00%		\$0.00475
3		1,200,000	2,400	\$3,704.00	\$3,704.00	\$0.00	0.00%		\$0.00309
4		1,800,000	3,600	\$4,556.00	\$4,556.00	\$0.00	0.00%		\$0.00253
5		2,400,000	4,800	\$5,408.00	\$5,408.00	\$0.00	0.00%		\$0.00225
6		3,000,000	6,000	\$6,260.00	\$6,260.00	\$0.00	0.00%		\$0.00209
7		3,600,000	7,200	\$7,112.00	\$7,112.00	\$0.00	0.00%		\$0.00198
8		4,200,000	8,400	\$7,964.00	\$7,964.00	\$0.00	0.00%		\$0.00190
9		4,800,000	9,600	\$8,816.00	\$8,816.00	\$0.00	0.00%		\$0.00184
10		5,400,000	10,800	\$9,668.00	\$9,668.00	\$0.00	0.00%		\$0.00179
11		6,000,000	12,000	\$10,520.00	\$10,520.00	\$0.00	0.00%		\$0.00175

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Amount	Percent	Proposed \$/kWh	
INTEGRATED RETAIL SYSTEM: RATE RTMP-D									
1		0	0	\$2,000.00	\$2,000.00	\$0.00	0.00%	NA	
2		600,000	1,200	\$5,924.00	\$7,100.00	\$1,176.00	19.85%	\$0.01183	
3		1,200,000	2,400	\$9,848.00	\$12,200.00	\$2,352.00	23.88%	\$0.01017	
4		1,800,000	3,600	\$13,772.00	\$17,300.00	\$3,528.00	25.62%	\$0.00961	
5		2,400,000	4,800	\$17,696.00	\$22,400.00	\$4,704.00	26.58%	\$0.00933	
6		3,000,000	6,000	\$21,620.00	\$27,500.00	\$5,880.00	27.20%	\$0.00917	
7		3,600,000	7,200	\$25,544.00	\$32,600.00	\$7,056.00	27.62%	\$0.00906	
8		4,200,000	8,400	\$29,468.00	\$37,700.00	\$8,232.00	27.94%	\$0.00898	
9		4,800,000	9,600	\$33,392.00	\$42,800.00	\$9,408.00	28.17%	\$0.00892	
10		5,400,000	10,800	\$37,316.00	\$47,900.00	\$10,584.00	28.36%	\$0.00887	
11		6,000,000	12,000	\$41,240.00	\$53,000.00	\$11,760.00	28.52%	\$0.00883	

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

Case No.: U-16417
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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed	Proposed
						Amount	Percent		\$/kWh
INTEGRATED RETAIL SYSTEM: RATE SL-3									
1		0		\$0.00	\$15.00	\$15.00		NA	NA
2		100		\$14.54	\$28.42	\$13.88		95.41%	\$0.28421
3		200		\$29.09	\$41.84	\$12.75		43.85%	\$0.20921
4		300		\$43.63	\$55.26	\$11.63		26.66%	\$0.18421
5		400		\$58.18	\$68.68	\$10.51		18.06%	\$0.17171
6		500		\$72.72	\$82.11	\$9.39		12.91%	\$0.16421
7		600		\$87.26	\$95.53	\$8.26		9.47%	\$0.15921
8		700		\$101.81	\$108.95	\$7.14		7.01%	\$0.15564
9		800		\$116.35	\$122.37	\$6.02		5.17%	\$0.15296
10		900		\$130.90	\$135.79	\$4.89		3.74%	\$0.15088
11		1,000		\$145.44	\$149.21	\$3.77		2.59%	\$0.14921

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

Case No.: U-16417
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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Amount	Percent	Proposed \$/kWh	
INTEGRATED RETAIL SYSTEM: RATE SL-5 (1 Pole, 1 Span)									
1	100W - SV	100		\$15.75	\$17.25	\$1.50	9.52%	\$0.17254	
2	150W - SV	100		\$17.56	\$19.23	\$1.67	9.51%	\$0.19234	
3	250W - SV	100		\$21.04	\$23.04	\$2.00	9.50%	\$0.23044	
4	400W - SV	100		\$25.11	\$27.49	\$2.38	9.48%	\$0.27494	
5	400W - MV	100		\$28.68	\$31.39	\$2.71	9.45%	\$0.31394	
6									
7	100W - SV	100		\$21.27	\$23.27	\$2.00	9.40%	\$0.23274	
8	150W - SV	100		\$24.58	\$26.92	\$2.34	9.52%	\$0.26924	
9	250W - SV	100		\$27.10	\$29.66	\$2.56	9.45%	\$0.29664	
10	400W - SV	100		\$35.72	\$39.09	\$3.37	9.43%	\$0.39094	
11	175W - MV	100		\$21.58	\$23.63	\$2.05	9.50%	\$0.23634	
12	400W - MV	100		\$34.70	\$37.97	\$3.27	9.42%	\$0.37974	
13	175W - MH	100		\$31.48	\$34.45	\$2.97	9.43%	\$0.34454	
14	400W - MH	100		\$37.39	\$40.92	\$3.53	9.44%	\$0.40924	
15	1000W - MH	100		\$63.93	\$69.94	\$6.01	9.40%	\$0.69944	

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Amount	Percent	Proposed \$/kWh	
INTEGRATED RETAIL SYSTEM: RATE Z-3 (1 Pole, 1 Span)									
1	100W - SV	100		\$23.16	\$25.64	\$2.48	10.69%	\$0.25640	
2	250W - SV	100		\$32.36	\$35.70	\$3.34	10.31%	\$0.35700	
3	400W - SV	100		\$37.92	\$41.78	\$3.86	10.17%	\$0.41780	
4	175W - MV	100		\$21.20	\$23.49	\$2.29	10.78%	\$0.23490	
5	400W - MV	100		\$34.51	\$38.05	\$3.54	10.25%	\$0.38050	
6	400W - MH	100		\$37.71	\$41.55	\$3.84	10.17%	\$0.41550	
7	1000W - MH	100		\$64.45	\$70.79	\$6.34	9.83%	\$0.70790	

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Amount	Percent	Proposed \$/kWh	
IRON RIVER SYSTEM: RATE A-2									
1		0		\$10.00	\$11.00	\$1.00	10.00%	NA	
2		50		\$17.79	\$19.88	\$2.09	11.75%	\$0.39769	
3		100		\$25.59	\$28.77	\$3.18	12.43%	\$0.28769	
4		150		\$33.38	\$37.65	\$4.27	12.79%	\$0.25102	
5		200		\$41.18	\$46.54	\$5.36	13.02%	\$0.23269	
6		250		\$48.97	\$55.42	\$6.45	13.17%	\$0.22169	
7		300		\$56.77	\$64.31	\$7.54	13.28%	\$0.21436	
8		350		\$64.56	\$73.19	\$8.63	13.37%	\$0.20912	
9		400		\$72.36	\$82.08	\$9.72	13.43%	\$0.20519	
10		450		\$80.15	\$90.96	\$10.81	13.49%	\$0.20213	
11		500		\$87.95	\$99.85	\$11.90	13.53%	\$0.19969	
12		550		\$95.74	\$108.73	\$12.99	13.57%	\$0.19769	
13		600		\$103.53	\$117.61	\$14.08	13.60%	\$0.19602	
14		650		\$111.33	\$126.50	\$15.17	13.63%	\$0.19461	
15		700		\$119.12	\$135.38	\$16.26	13.65%	\$0.19340	

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

Case No.: U-16417
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 Schedule F4
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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed	
						Amount	Percent	\$/kWh	
IRON RIVER SYSTEM: RATE AH-2									
1		0		\$10.00	\$11.00	\$1.00	10.00%		NA
2		100		\$26.81	\$30.15	\$3.35	12.49%		\$0.30152
3		300		\$60.42	\$68.46	\$8.04	13.31%		\$0.22819
4		500		\$94.03	\$106.76	\$12.74	13.54%		\$0.21352
5		700		\$124.54	\$141.44	\$16.91	13.58%		\$0.20206
6		1,000		\$170.30	\$193.46	\$23.16	13.60%		\$0.19346
7		1,500		\$246.57	\$280.17	\$33.59	13.62%		\$0.18678
8		2,000		\$322.85	\$366.87	\$44.02	13.63%		\$0.18343
9		2,500		\$399.12	\$453.57	\$54.45	13.64%		\$0.18143
10		3,000		\$475.39	\$540.27	\$64.88	13.65%		\$0.18009

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

Case No.: U-16417
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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed	Proposed
						Amount	Percent		\$/kWh
IRON RIVER SYSTEM: RATE C-2									
1		0		\$14.00	\$15.00	\$1.00	7.14%		NA
2		100		\$29.57	\$32.15	\$2.59	8.75%		\$0.32153
3		300		\$60.70	\$66.46	\$5.76	9.49%		\$0.22153
4		500		\$91.83	\$100.77	\$8.94	9.73%		\$0.20153
5		700		\$122.96	\$135.07	\$12.11	9.85%		\$0.19296
6		1,000		\$169.66	\$186.53	\$16.87	9.94%		\$0.18653
7		2,500		\$403.15	\$443.83	\$40.68	10.09%		\$0.17753
8		5,000		\$792.30	\$872.65	\$80.35	10.14%		\$0.17453
9		7,500		\$1,181.45	\$1,301.48	\$120.03	10.16%		\$0.17353
10		10,000		\$1,570.60	\$1,730.30	\$159.70	10.17%		\$0.17303

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed	Proposed
						Amount	Percent		\$/kWh
IRON RIVER RETAIL SYSTEM: RATE H-2									
1		0		\$14.00	\$15.00	\$1.00	7.14%		NA
2		100		\$29.67	\$32.26	\$2.60	8.75%		\$0.32263
3		300		\$61.00	\$66.79	\$5.79	9.49%		\$0.22263
4		500		\$92.33	\$101.32	\$8.99	9.73%		\$0.20263
5		700		\$123.66	\$135.84	\$12.18	9.85%		\$0.19406
6		1,000		\$170.66	\$187.63	\$16.97	9.94%		\$0.18763
7		1,500		\$240.04	\$259.43	\$19.39	8.08%		\$0.17295
8		2,000		\$309.42	\$331.22	\$21.80	7.05%		\$0.16561
9		2,500		\$378.80	\$403.01	\$24.22	6.39%		\$0.16121
10		3,000		\$448.18	\$474.81	\$26.63	5.94%		\$0.15827

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

Case No.: U-16417
 Exhibit No.: A-6 (JMB-1)
 Schedule F4
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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Amount	Percent	Proposed \$/kWh	
IRON RIVER RETAIL SYSTEM: RATE P-2 - combined with P-1									
1		0	0	\$25.00	\$28.00	\$3.00	12.00%	NA	
2		1,000	10	\$233.65	\$273.52	\$39.87	17.06%	\$0.27352	
3		4,000	15	\$609.60	\$672.58	\$62.98	10.33%	\$0.16815	
4		9,000	25	\$1,252.85	\$1,360.18	\$107.33	8.57%	\$0.15113	
5		13,000	35	\$1,787.45	\$1,937.26	\$149.81	8.38%	\$0.14902	
6		17,000	45	\$2,322.05	\$2,514.34	\$192.29	8.28%	\$0.14790	
7		20,000	55	\$2,748.00	\$2,980.90	\$232.90	8.48%	\$0.14905	
8		23,000	65	\$3,173.95	\$3,447.46	\$273.51	8.62%	\$0.14989	
9		25,000	75	\$3,491.25	\$3,803.50	\$312.25	8.94%	\$0.15214	
10		27,000	85	\$3,808.55	\$4,159.54	\$350.99	9.22%	\$0.15406	
11		29,000	95	\$4,125.85	\$4,515.58	\$389.73	9.45%	\$0.15571	
12		31,000	105	\$4,443.15	\$4,871.62	\$428.47	9.64%	\$0.15715	

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

Case No.: U-16417
 Exhibit No.: A-6 (JMB-1)
 Schedule F4
 Page: 19 of 21
 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed	Proposed
						Amount	Percent		\$/kWh
IRON RIVER RETAIL SYSTEM: RATE CP-U									
1		0	0	\$2,388.67	\$2,763.17	\$374.50	15.68%		NA
2		25,000	70	\$5,379.00	\$5,896.49	\$517.49	9.62%		\$0.23586
3		50,000	140	\$8,369.33	\$9,029.81	\$660.48	7.89%		\$0.18060
4		75,000	210	\$11,359.67	\$12,163.14	\$803.47	7.07%		\$0.16218
5		100,000	280	\$14,350.00	\$15,296.46	\$946.46	6.60%		\$0.15296
6		125,000	350	\$17,340.34	\$18,429.79	\$1,089.45	6.28%		\$0.14744
7		150,000	420	\$20,330.67	\$21,563.11	\$1,232.44	6.06%		\$0.14375
8		175,000	490	\$23,321.00	\$24,696.43	\$1,375.43	5.90%		\$0.14112
9		200,000	560	\$26,311.34	\$27,829.76	\$1,518.42	5.77%		\$0.13915
10		225,000	630	\$29,301.67	\$30,963.08	\$1,661.41	5.67%		\$0.13761
11		250,000	700	\$32,292.01	\$34,096.40	\$1,804.40	5.59%		\$0.13639

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

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 Witness: James M. Beyer

Line No.	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Amount	Percent	Proposed \$/kWh	
IRON RIVER RETAIL SYSTEM: RATE SL-10 (1 Pole, 1 Span) - combined with SL-6									
1	70W - SV	100		\$20.05	\$23.12	\$3.07	15.32%	\$0.23120	
2	100W - SV	100		\$22.28	\$23.55	\$1.27	5.71%	\$0.23550	
3	150W - SV	100		\$24.16	\$27.20	\$3.04	12.59%	\$0.27200	
4	250W - SV	100		\$30.02	\$29.94	-\$0.08	-0.26%	\$0.29940	
5	400W - SV	100		\$34.51	\$39.37	\$4.86	14.09%	\$0.39370	
6	175W - MV	100		\$20.61	\$23.91	\$3.30	16.02%	\$0.23910	
7	400W - MH	100		\$35.62	\$41.20	\$5.58	15.67%	\$0.41200	
8	1000W - MH	100		\$54.12	\$70.22	\$16.10	29.75%	\$0.70220	

Schedule F4

Michigan Public Service Commission
 Upper Peninsula Power Company
 Comparison of Present and Proposed Monthly Bills

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Line No.	(a) Jurisdiction	(b) Monthly kWh Use	(c) Monthly kW	(d) Present Net Monthly Bill	(e) Proposed Net Monthly Bill	(f) Increase		(g)	(h) Proposed \$/kWh
						Amount	Percent		
IRON RIVER RETAIL SYSTEM: RATE Z-4 (1 Pole, 1 Span)									
1	100W - SV	100		\$18.66	\$21.26	\$2.60	13.91%		\$0.21260
2	250W - SV	100		\$28.87	\$32.84	\$3.97	13.74%		\$0.32840
3	400W - SV	100		\$30.05	\$34.19	\$4.14	13.76%		\$0.34190
4	175W - MV	100		\$19.06	\$21.69	\$2.63	13.77%		\$0.21690
5	400W - MH	100		\$29.93	\$34.06	\$4.13	13.78%		\$0.34060
6	1000W - MH	100		\$46.82	\$53.25	\$6.43	13.72%		\$0.53250

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C2. Standard Rules & Regulations—Terms and Conditions of Service

Continued from Sheet No. C-8.00

2. Location of Meters - Meters for all single family residential service will be installed outdoors. Meters for other services may be installed outdoors if they are located so they are protected from traffic and are readily accessible for reading and testing. Meters which must be protected from inclement weather while being serviced or tested shall be located indoors or in a suitable housing where such work can be performed.

Meters located indoors shall be as near as possible to the service entrance, in a clean, dry place, reasonably secure from injury, not subject to vibration, and readily accessible for reading and testing.

In cases of multiple buildings such as two-family flats or apartment buildings, if the meters are installed indoors, they shall be located within the premises served or at a common location readily accessible to the tenants and the Company.

An authorized representative of the Company will determine the acceptability of the meter location in all cases.

F. Special Charges

The Company will make such charges for reasonable special services as necessary to discourage abuse, and to minimize subsidy of such services by other customers. The following schedule shall apply where applicable:

1. Special Meter Readings
 - a. When the Company, at the request of the customer:
 - (1) Reads a meter on a day other than the scheduled meter reading date, and/or
 - (2) Issues a written bill on a day other than the scheduled billing date.

The customer will be billed a \$30.00 charge unless there is a change in the customer of record.

- b. The customer may read his/her meter(s) and provide the reading(s) to the Company. The Company will then calculate the amount due and provide this information to the customer ~~verbally, at no cost, and no written bill will be issued.~~

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C2. Standard Rules & Regulations--Terms and Conditions of Service

Continued from Sheet No. C-10.00

2. Meter Test Charge \$33.00

3. Reconnection Billing - Same Customer

The Company's rate schedules assume continuous use of service for extended periods and do not contemplate temporary disconnection except in those cases where it is requested by seasonal customers or others who occupy premises part of the time. Temporary disconnection by any customer shall not void responsibility for annual minimum charges or payment of the annual monthly fixed charge.

In the event of disconnection, when service is resumed at the same premises by the same customer within a 12-month period, and if there has been no service at such location to another customer during the intervening period, the customer shall be billed the fixed charges* for the disconnection period, plus a charge shall be made according to the following conditions:

a. For the general electric service the charge shall be:

During Regular Hours** - All Territory Served \$50.00
Outside Regular Hours - All Territory Served \$80.00

b. For separately metered service (water heating, space heating, etc.), there shall be no additional charge when such service is reconnected along with the customer's general electric service.

* These fixed charge billings shall not apply to customers disconnected for nonpayment.

** Regular Hours are defined as Monday through Friday, 7:00am to 3:30pm CST (Iron River System) and 7:30am to 4:00pm EDT (Integrated System), not including those days designated as company holidays or legal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.

c. The appropriate regular or outside regular hours charges will apply in situations when returning to the customer's location a second (and each subsequent) time to perform required work, when the second (and each subsequent) call is required due to the customer not being present or being ready for the Company to perform the requested work.

4. Unhonored Checks And Electronic Transfers

When a customer issues a check or authorizes an electronic transfer payment to the Company that a bank or other financial institution fails to honor (for reasons of insufficient funds, account closed, stop payment order issued, etc.), the customer shall be billed an additional charge of \$20.00 per check or electronic transfer.

5. Connection or Disconnection Outside Regular Working Hours

When application is made for service with the request that meters be connected or disconnected outside regular hours or on Saturdays, Sundays or holidays, the charges specified for reconnections outside regular hours shall apply.

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C3. Standard Rules & Regulations-Line Extension Construction Policy

Continued from Sheet No. C-19.40

2. h. 9) The company, when requested by one or more applicants, shall install when and where feasible, underground electric service laterals. The applicant shall provide, at no expense to the company, grading within six inches of finished grade of the area so that the service lateral can be properly installed in relation to the finished grade.
- 10) Within developments served by an underground electric distribution system, the lighting facilities shall also be served by underground facilities.
- i. WINTER CONSTRUCTION CHARGE:
1. Winter Construction Charges are subject to the following conditions:
 - a) Subdivision Customers: Except as noted, Winter Construction costs will be charged for any underground facilities installed in the Company's service territory between ~~December~~ November 1 and ~~March 31~~ April 15. The Winter Construction Charge will not be charged, however, if the customer's application for subdivisions is received by the Company prior to October 1, and the customer's premises and/or the construction site is ready for underground facilities installation prior to November 1, and the company receives the total advance customer payment required for the installation of facilities prior to November 1.
 - b) Non-Subdivision Customers: Except as noted, Winter Construction costs will be charged for any underground facilities installed in the Company's service territory between ~~December~~ November 1 and ~~March 31~~ April 15. The Winter Construction Charge will not be charged, however, if the application for service is received by the Company prior to October 15 and the customer's premises and/or the construction site is ready for underground facilities installation prior to November 15, and the company receives the total advance customer payment required for the installation of facilities prior to November 15.
 2. The Winter Construction Charge will be waived by Company if the Company's underground contractors do not actually charge the Company for winter construction conditions.
 3. Winter Construction Charges are in addition to any other charges contemplated in these rules, and are non-refundable, except as voted.

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C3. Standard Rules & Regulations-Line Extension Construction Policy

Continued from Sheet No. C-19.60

- 3. b. 1) b) Service to a location that will not contain a building structure shall:
Require evidence that there will be a continuing need for electric service to that location, e.g., well, constructed billboard, other types of permanent facilities requiring electricity.

All requests for electric service not meeting the preceding criteria shall not be given an extension allowance until meeting these criteria.

2) Extension Allowances

- a) The extension allowances of this section reflect the company's projected embedded average cost of distribution facilities for the coming year and shall be revised annually. Said annual revision shall be calculated and submitted to the Michigan Public Service Commission prior to the start of the calendar year and shall apply to construction performed for the succeeding 12 month period commencing January 1st of the following year.
- b) Extension allowances shall only apply to applicants who meet the requirements of sections 3.b.1).
- c) Extensions shall be made without charge or guarantee provided that the estimated investment does not exceed the extension allowance.
- d) The extension allowance per customer shall be as follows:

~~(1) Residential Customers~~

~~Investment in distribution system:
\$495 Year Round Residential
\$248 Seasonal Residential~~

<u>Customer Class</u>	<u>Allowance</u>
<u>Residential - Year Round</u>	<u>\$497</u>
<u>Residential - Seasonal</u>	<u>\$249</u>
<u>Commercial and Industrial (Energy Only)</u>	<u>\$713</u>
<u>Commercial and Industrial (Energy and Demand)</u>	<u>\$66/kW</u>

- e) The estimated demand shall be the maximum annual 15 minute kW expected to be placed on the electric facilities of the company. Company experience with existing customers will be used as a basis for developing the demand estimate. Failure of the customer to install the electric equipment used in the calculation of the demand estimate shall result in a recalculation of the extension allowance and an appropriate adjustment of customer payments.

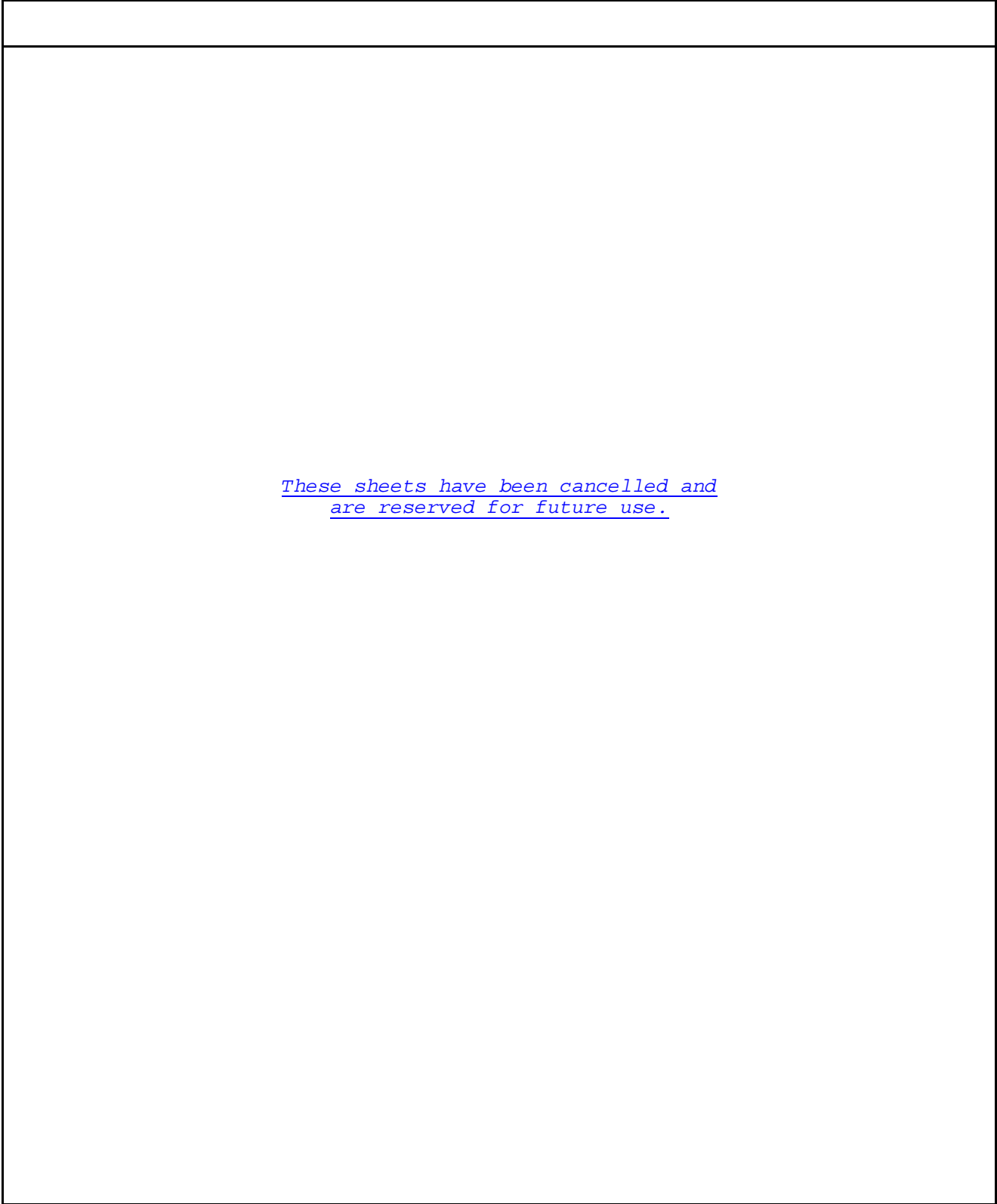
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(To combine cancelled tariff sheets)

2nd Rev. Sheet No. C-19.80
1st Rev. Sheet No. C-19.80



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C3. Standard Rules & Regulations-Line Extension Construction Policy

Continued from Sheet No. C-19.90

- 3) Extensions Exceeding Extension Allowance
- a) Applicant shall make a refundable cash payment in advance of construction equal to the investment in standard electric facilities that exceeds the extension allowance. Refundable cash payments shall be retained by the company interest free and shall only be refunded in accordance with section 3.b.5) of these rules.
- b) The estimated investment of an extension will be divided equally among the original customers on the original extension, with similar type of service, unless they elect to have it apportioned in some other manner that is mutually satisfactory to them. No payments shall be required from additional customers connecting to this extension and considered part of this extension in accordance with Section 1.a. of these extension rules.
- 4) Adjustment to Actual
Estimated investments used in determining customer obligations prior to construction shall be adjusted to reflect actual investment for changes in the size, or number of units installed, major rock or frost removal and similar items affecting the scope of the project. The estimate shall not be adjusted for inclement weather, truck or equipment breakdowns, changed site conditions, such as mud following wet weather, snow or traffic congestion, special all-terrain equipment required for a changed condition such as deep snow or mud, use of contractor crews vs. company crews, material price changes and other items of a similar nature. Adjustment of customer requirements (refund or additional payment) to reflect actual investment shall be made if the adjustment is greater than \$~~20~~100. This adjustment, if applicable, will normally occur within six months of completion of construction.
- 5) Refunds
- a) If, during the development period, as defined in section 1.g., there are additional permanent customers connected to the extension, refunds as outlined in this section shall be made. Customers added to an existing extension shall not be required to make any payment for the existing extension.
- b) Refunds shall be divided between locations, eligible for refunds, in direct proportion to payments originally received or assigned to the locations.
- c) Refunds shall be made as follows.
- (1) Approved subdivisions and certified surveys.
Refunds shall be made to the contributor(s) or their assignee by written agreement filed with the company.

Continued on Sheet No. C-20.10

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C3. Standard Rules & Regulations-Line Extension Construction Policy

Continued from Sheet No. C-20.00

3. b. 5) c) (2) Individual properties.
Refunds shall be made to the existing property owner(s).
- d) In no case shall refunds exceed the prior refundable cash payments.
- e) In no case shall existing customers be required to make additional cash payments as a result of this refund section.
- f) Refunds to extensions.
- (1) Refunds for connection of original applicant(s).
At the time of installation, the original contributor(s) received the extension allowances of these extension rules. Therefore no further refunds are due for the connection of the original customers.
- (2) Customer additions to the same extension.
A refund equal to the extension allowance dollar amount effective at the time the original extension occurred, or the current extension allowance, whichever is greater, minus added investment in distribution system shall be made for any permanent customer added to the extension. The added investment in distribution system shall be based on costs at the time the customer addition occurs.
- g) Refund amounts to customers connected prior to 3-1-83 shall be based on the prior extension rules. Methods for determining which customers are part of the prior extension shall be based on the prior extension rules. New customer(s) connected as part of these prior extensions shall receive service in accordance with current extension rules.

3. c. The customer is responsible for having the site ready for installation of facilities. If the customer notifies the company that the site is ready and the contractor arrives to find it not ready for the installation of facilities, the customer shall be responsible for all costs associated with the return to the site.

Continued to Sheet No. C-20.20

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D2. Residential Service	A-1
WHO MAY TAKE SERVICE:	
Any residential customer in a single family dwelling or a duplex using service for domestic purposes. This rate is also available to certain multiple dwellings in accordance with the standard rules. Services to garages and outbuildings not used for commercial purposes will also be classified as residential. Farm customers using electric service for the production of agricultural products for commercial purposes will be placed on the appropriate commercial rate. Optional Power Supply Service is available only to Customers not taking power supply service under rate schedule RAST, or not required to receive service under rate schedule PSDS.	
TERRITORY APPLICABLE:	
All territory served in the Company's Integrated System.	
CHARACTER OF SERVICE:	
Single-phase, alternating current, 60 hertz, nominally at 120/240 volts.	
RATE: <u>DISTRIBUTION SERVICE</u>	
<u>R</u> <u>R</u> <u>R</u> <u>R</u>	Service Charge: \$ 101.00 /Mo. for Year-Round \$ 0.3288 <u>3616</u> /Day for Year-Round \$ 202.00 /Mo. for Seasonal \$ 0.6575 <u>7233</u> /Day for Seasonal
R	Energy Charge: \$ 0.07806 <u>09295</u> per kWh for all kWh
<u>POWER SUPPLY SERVICE (Optional)</u>	
R	Energy Charge: \$ 0.09605 <u>09727</u> per kWh for all kWh
MINIMUM CHARGE:	
The service charge included in the rate.	
POWER SUPPLY COST RECOVERY CLAUSE:	
This rate is subject to the Company's Power Supply Cost Recovery shown on Sheet No. D-3.00.	
ENERGY OPTIMIZATION SURCHARGE:	
This rate is subject to the Energy Optimization Surcharge shown on Sheet No. D-73.00.	
Continued on Sheet No. D-5.00	

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D2. Residential Service

A-2

WHO MAY TAKE SERVICE:

Any residential customer in a single family dwelling or a duplex using service for domestic purposes. This rate is also available to certain multiple dwellings in accordance with the standard rules. Services to garages and outbuildings not used for commercial purposes will also be classified as residential. Farm customers using electric service for the production of agricultural products for commercial purposes will be placed on the appropriate commercial rate. Optional Power Supply Service is available only to Customers not taking power supply service under rate schedule RAST, or not required to receive service under rate schedule PSDS.

TERRITORY APPLICABLE:

All territory served in the Company's Iron River District.

CHARACTER OF SERVICE:

Single-phase, alternating current, 60 hertz, nominally at 120/240 volts.

RATE: DISTRIBUTION SERVICE

Service Charge:

\$~~101~~.00/Mo. for Year-Round
\$0.~~3288~~3616/Day for Year-Round
\$~~242~~.00/Mo. for Seasonal
\$0.~~6575~~7233/Day for Seasonal

R
R
R
R

Energy Charge:

\$0.~~07928~~08493 per kWh for all kWh

R

POWER SUPPLY SERVICE (Optional)

Energy Charge:

\$0.~~07937~~09552 per kWh for all kWh

R

MINIMUM CHARGE:

The service charge included in the rate.

POWER SUPPLY COST RECOVERY CLAUSE:

This rate is subject to the Company's Power Supply Cost Recovery shown on Sheet No. D-3.00.

ENERGY OPTIMIZATION SURCHARGE:

This rate is subject to the Energy Optimization Surcharge shown on Sheet No. D-73.00.

Continued on Sheet D-7.00

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D2. Residential Heating Service

AH-1

WHO MAY TAKE SERVICE:

Any residential customer in a single family dwelling or a duplex using service for domestic purposes, provided the major electric space heating facilities are permanently installed and are the primary source of space heating. This rate is also available to certain multiple dwellings in accordance with the standard rules. Services to garages and outbuildings not used for commercial purposes will also be classified as residential. Farm customers using electric service for the production of agricultural products for commercial purposes will be placed on the appropriate commercial rate. Optional Power Supply Service is available only to Customers not taking power supply service under rate schedule RAST, or not required to receive service under rate schedule PSDS.

TERRITORY APPLICABLE:

All territory served in the Company's Integrated System.

CHARACTER OF SERVICE:

Single-phase, alternating current, 60 hertz, nominally at 120/240 volts.

RATE: DISTRIBUTION SERVICE

Service Charge:

~~\$101.00~~ per month

~~\$0.3288~~ 3616 per day

Energy Charge:

For billing months of June through September

~~\$0.07806~~ 09295 per kWh for all kWh

For billing months of October through May

~~\$0.08587~~ 10225 per kWh for the first 500 kWh

~~\$0.03840~~ 03503 per kWh for the excess

POWER SUPPLY SERVICE (Optional)

Energy Charge:

For billing months of June through September

~~\$0.09797~~ 09936 per kWh for all kWh

For billing months of October through May

~~\$0.08824~~ 08797 per kWh for the first 500 kWh

~~\$0.10553~~ 12225 per kWh for the excess

POWER SUPPLY COST RECOVERY CLAUSE:

This rate is subject to the Company's Power Supply Cost Recovery shown on Sheet No. D-3.00.

ENERGY OPTIMIZATION SURCHARGE:

This rate is subject to the Energy Optimization Surcharge shown on Sheet No. D-73.00.

MINIMUM CHARGE:

The service charge included in the rate.

Continued on Sheet D-9.00

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D2. General Service	C-1
WHO MAY TAKE SERVICE:	Any customer for commercial or industrial purpose with a billing demand of less than 25 kW. Optional Power Supply Service is available only to Customers not taking power supply service under rate schedule RAST, or not required to receive service under rate schedule PSDS.
TERRITORY APPLICABLE:	All territory served in the Company's Integrated System.
CHARACTER OF SERVICE:	Single or three-phase, alternating current, 60 hertz at standard available voltages.
RATE:	<u>DISTRIBUTION SERVICE:</u>
<u>R</u> <u>R</u>	Service Charge: \$145.00 per month \$0. 4603 <u>4932</u> per day
<u>R</u>	Energy Charge: \$0. 05396 <u>05850</u> per kWh for all kWh
<u>R</u>	<u>POWER SUPPLY SERVICE (Optional)</u> Energy Charge \$0. 12677 <u>13180</u> per kWh for all kWh
MINIMUM CHARGE:	The service charge included in the rate, plus the energy optimization surcharge.
POWER SUPPLY COST RECOVERY CLAUSE:	This rate is subject to the Company's Power Supply Cost Recovery shown on Sheet No. D-3.00.
ENERGY OPTIMIZATION SURCHARGE:	This rate is subject to the Energy Optimization Surcharge shown on Sheet No. D-73.00.
TERMS OF PAYMENT:	Bills are due in 21 days from date of bill. A delayed payment charge of 2% may be applied to the unpaid balance if the bill is not paid in full on or before the due date thereon.
RULES APPLYING:	<ul style="list-style-type: none"> (1) Service is governed by the Company's Standard Rules and Regulations. (2) Conjunctional billing will not be permitted in cases where the customer is presently being served lighting and power loads through separate meters. In these instances, whenever the customer at his expense will arrange his wiring to receive energy through one single metered service, then this rate shall apply to his entire requirements.

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D2. General Service

C-2

WHO MAY TAKE SERVICE:

Any customer for commercial or industrial purpose with a billing demand of less than 25 kW. Optional Power Supply Service is available only to Customers not taking power supply service under rate schedule RAST, or not required to receive service under rate schedule PSDS.

TERRITORY APPLICABLE:

All territory served in the Company's Iron River District.

CHARACTER OF SERVICE:

Single or three-phase, alternating current, 60 hertz at standard available voltages.

RATE: DISTRIBUTION SERVICE

Service Charge:
\$145.00 per month
\$0.~~4603~~4932 per day

R
R

Energy Charge:
\$0.~~04597~~04546 per kWh for all kWh

R

POWER SUPPLY SERVICE (Optional)

Energy Charge:
\$0.~~11245~~12883 per kWh for all kWh

R

MINIMUM CHARGE:

The service charge included in the rate, plus the energy optimization charge.

POWER SUPPLY COST RECOVERY CLAUSE:

This rate is subject to the Company's Power Supply Cost Recovery shown on Sheet No. D-3.00.

ENERGY OPTIMIZATION SURCHARGE:

This rate is subject to the Energy Optimization Surcharge shown on Sheet No. D-73.00.

TERMS OF PAYMENT:

Bills are due in 21 days from date of bill. A delayed payment charge of 2% may be applied to the unpaid balance if the bill is not paid in full on or before the due date thereon.

RULES APPLYING:

- (1) Service is governed by the Company's Standard Rules and Regulations.
- (2) Conjunctional billing will not be permitted in cases where the customer is presently being served lighting and power loads through separate meters. In these instances, whenever the customer, at his expense, will arrange his wiring to receive energy through one single metered service, then this rate shall apply to his entire requirements.

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D2. Commercial Heating Service	H-1
WHO MAY TAKE SERVICE: Any customer for commercial purposes provided that their electric space heating facilities are permanently installed and are the primary source of space heating. Optional Power Supply Service is available only to Customers not taking power supply service under rate schedule RAST, or not required to receive service under rate schedule PSDS.	
TERRITORY APPLICABLE: All territory served in the Company's Integrated System.	
CHARACTER OF SERVICE: Single or three-phase, alternating current, 60 hertz, nominally at 120/240 volts.	
RATE:	<u>DISTRIBUTION SERVICE</u> Service Charge: \$145.00 per month \$0. 4603 <u>4932</u> per day
R	Energy Charge: For billing months of June through September \$0. 05396 <u>05850</u> per kWh for all kWh
R	For billing months of October through May \$0. 05936 <u>06435</u> per kWh for first 1000 kWh
R	\$0. 02254 <u>01068</u> per kWh for the excess
	<u>POWER SUPPLY SERVICE (Optional)</u> Energy Charge: For billing months of June through September \$0. 12912 <u>12552</u> per kWh for all kWh
R	For billing months of October through May \$0. 12138 <u>11732</u> per kWh for first 1000 kWh
R	\$0. 10919 <u>12557</u> per kWh for the excess
MINIMUM CHARGE: The service charge included in the rate, plus the energy optimization charge.	
POWER SUPPLY COST RECOVERY CLAUSE: This rate is subject to the Company's Power Supply Cost Recovery shown on Sheet No. D-3.00.	
ENERGY OPTIMIZATION SURCHARGE: This rate is subject to the Energy Optimization Surcharge shown on Sheet No. D-73.00.	
TERMS OF PAYMENT: Bills are due in 21 days from date of bill. A delayed payment charge of 2% may be applied to the unpaid balance if the bill is not paid in full on or before the due date thereon.	
RULES APPLYING: 1) Service is governed by the Company's Standard Rules and Regulations. 2) Permanently installed heating equipment is heating equipment that is hard-wired into an electric panel which may or may not have a plug.	

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D2. Commercial Heating Service	H-2
WHO MAY TAKE SERVICE:	
Any customer for separately metered space heating loads provided that for space heating their major electric space heating facilities are permanently installed and are the primary source of space heating. Optional Power Supply Service is available only to Customers not taking power supply service under rate schedule RAST, or not required to receive service under rate schedule PSDS.	
TERRITORY APPLICABLE:	
All territory served in the Company's Iron River District.	
CHARACTER OF SERVICE:	
Single or three-phase, alternating current, 60 hertz, nominally at 120/240 volts.	
RATE:	
<u>DISTRIBUTION SERVICE</u>	
Service Charge:	
	\$145.00 per month
	\$0.4603-4932 per day
Energy Charge:	
	For billing months of June through September
	\$0.04597-04546 per kWh for all kWh
	For billing months of October through May
	\$0.05057-05001 per kWh for the first 1,000 kWh per month
	\$0.02875-01673 per kWh for the excess
<u>POWER SUPPLY SERVICE (Optional)</u>	
Energy Charge:	
	For billing months of June through September
	\$0.11546-13214 per kWh for all kWh
	For billing months of October through May
	\$0.10785-12428 per kWh for the first 1,000 kWh per month
	\$0.10281-11399 per kWh for the excess
MINIMUM CHARGE:	
The service charge included in the rate, plus the energy optimization charge.	
POWER SUPPLY COST RECOVERY CLAUSE:	
This rate is subject to the Company's Power Supply Cost Recovery shown on Sheet No. D-3.00.	
ENERGY OPTIMIZATION SURCHARGE:	
This rate is subject to the Energy Optimization Surcharge shown on Sheet No. D-73.00.	
TERMS OF PAYMENT:	
Bills are due in 21 days from date of bill. A delayed payment charge of 2% may be applied to the unpaid balance if the bill is not paid in full on or before the due date thereon.	
RULES APPLYING:	
1)	Service is governed by the Company's Standard Rules and Regulations.
2)	Permanently installed heating equipment is heating equipment that is hard-wired into an electric panel which may or may not have a plug.

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D2. Light and Power Service	P-1
<p>WHO MAY TAKE SERVICE: Any customer for light and power purposes with a billing demand equal to or greater than 25 kW but less than 200 kW. To qualify, the customer must maintain a demand equal to or greater than 25 kW for three consecutive months and at least once in each succeeding twelve-month period. Optional Power Supply Service is available only to Customers not taking power supply service under rate schedule RAST, or not required to receive service under rate schedule PSDS.</p>	
<p>TERRITORY APPLICABLE: All territory served in the Company's Integrated System.</p>	
<p>CHARACTER OF SERVICE: Single or three-phase, alternating current, 60 hertz at standard available voltages.</p>	
RATE:	<u>DISTRIBUTION SERVICE</u>
R	Capacity charge per kW of billing demand per month \$ 2.50 <u>2.25</u> per kW
R	Service Charge: \$ 25 <u>28</u> .00 per month
R	\$ 0.8219 <u>0.9205</u> per day
R	Energy Charge: \$ 0.02136 <u>0.02559</u> per kWh for all kWh
R	<u>POWER SUPPLY SERVICE (Optional)</u> Capacity charge per kW if billing demand per month \$ 10.50 <u>11.25</u> per kW
R	Energy Charge: \$ 0.08559 <u>0.08769</u> per kWh for all kWh
<p>MINIMUM CHARGE: The capacity charge for 25 kW or the contract minimum, whichever is greater, plus the energy optimization charge.</p>	
<p>POWER SUPPLY COST RECOVERY CLAUSE: This rate is subject to the Company's Power Supply Cost Recovery shown on Sheet No. D-3.00.</p>	
<p>ENERGY OPTIMIZATION SURCHARGE: This rate is subject to the Energy Optimization Surcharge shown on Sheet No. D-73.00.</p>	
<p>POWER FACTOR BILLING ADJUSTMENT: This rate is subject to the Company's Power Factor Billing Adjustment.</p>	
<p>Continued on Sheet No. D-17.00</p>	

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(To combine cancelled tariff sheets)

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D2. Large Commercial & Industrial Service

Cp-U

WHO MAY TAKE SERVICE:

This schedule is applicable to customers whose monthly demand is equal to or greater than 200 kW for three consecutive months and at least once in each succeeding 12 month period and others taking standby service. This service is not available for customers required to take service under the Power Supply Default Service. Customers taking service under the Retail Access Service Tariff (RAST) shall be responsible for the Distribution Charges but not the Power Supply Charges under this rate schedule. Customers that purchase power supply service from the Company shall be subject to both the Distribution and Power Supply charges contained in this rate schedule.

Customers that take service directly from the company-owned substation (i.e. Company owns no distribution facilities downstream of substation) will be classified as Transmission and receive the Substation Transformer Capacity charge.

MONTHLY RATE

	<u>Secondary</u>	<u>Primary</u>	<u>Transmission</u>
<u>DISTRIBUTION SERVICE</u>			
<u>Customer Charge:</u>			
Monthly	\$ 250 300.00	\$ 325 375.00	\$ 750 800.00
Daily	\$ 8.21 929.8630	\$ 10.68 4912.3288	
	\$ 24.65 7526.3014		
<u>Demand Charge</u>			
1. Customer Demand:\$/KW	\$2.50	\$1.88	\$0.00
Per KW of maximum demand during the current and preceding 11 months, plus,			
2. On-Peak			
Firm Demand: \$/KW	\$ 4.65 6.00	\$ 4.53 5.84	\$ 4.31 5.55
Interruptible Demand: \$/KW	\$ 5.50 6.00	\$ 5.15 5.84	\$ 4.53 5.55
7:00 AM to 11:00 PM; Monday through Friday (except holidays).			
<u>Substation Transformer Capacity: \$/kVa</u>			\$0. 60 70

Continued to Sheet No. D-25.20

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D2. Large Commercial & Industrial Service		Cp-U	
Continued from Sheet No. D-25.10			
		Secondary	Primary Transmission
<u>POWER SUPPLY SERVICE (Optional)</u>			
R	<u>On-Peak Demand:</u> \$/KW \$ 7.726.94	\$ 8.357.50	\$ 8.127.30
	7:00 AM to 11:00 PM; Monday through Friday (except holidays).		
<u>Energy Charge</u>			
	1. <u>On-Peak</u>		
R	<u>Energy Charge:</u> \$/kWh \$ 0.907809545	\$ 0.0964210139	\$ 0.0942309908
	7:00 AM to 11:00 PM; Monday through Friday (except holidays).		
	2. <u>Off-Peak</u>		
R	<u>Energy Charge:</u> \$/kWh \$ 0.590106204	\$ 0.0626806590	\$ 0.0612506440
	11:00 PM to 7:00 AM; Monday through Friday, all day Saturday, Sunday, and holidays.		
<u>MINIMUM CHARGE</u>			
The monthly minimum charge is the customer charge, demand charges, substation charges and the energy optimization charge.			
<u>POWER SUPPLY COST RECOVERY CLAUSE</u>			
This rate is subject to the Company's Power Supply Cost Recovery shown on Sheet No. D-3.00.			
<u>PRIMARY & TRANSMISSION CHARGES</u>			
The customer shall provide a support for the company to terminate the primary conductors and install other required equipment. Customer owned substation equipment shall be operated and maintained by the customer. The support and substation equipment is subject to the company's inspection and approval.			
<u>ENERGY OPTIMIZATION</u>			
This rate is subject to the Energy Optimization Surcharge shown on Sheet No. D-73.00.			
<u>DEFINITIONS</u>			
For customers with company metering equipment installed at:			
	Secondary	Under 6,000 volts	
	Primary	6,000 volts to 15,000 volts, inclusive	
	Transmission	Over 15,000 volts	
Continued to Sheet No. D-25.30			

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