

**Upper Peninsula Power Company
Electric Rate Case No. U-22032
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Schedule A1

Michigan Public Service Commission
Upper Peninsula Power Company
Revenue Deficiency (Sufficiency)
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-1 (NLW-1)
Schedule: A1
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	Rate Base	Exh. A-2 (NLW-3), Sch. B1	\$ 378,594,409	\$ 366,690,921	\$ 11,903,488
3					
4	Adjusted Net Operating Income	Exh. A-3 (NLW-7), Sch. C1	\$ 21,546,878	\$ 21,957,280	\$ (410,402)
5					
6	Overall Rate of Return	Line 4 ÷ Line 2	5.69%	5.99%	-3.45%
7					
8	Required Rate of Return	Exh. A-4 (NEK-1), Sch. D1	6.59%	6.59%	6.59%
9					
10	Income Requirements	Line 2 x Line 8	\$ 24,966,787	\$ 24,181,799	\$ 784,987
11					
12	Income Deficiency (Sufficiency)	Line 10 - Line 4	\$ 3,419,909	\$ 2,224,520	\$ 1,195,390
13					
14	Revenue Conversion Factor	Exh. A-3 (NLW-8), Sch. C2	1.3288	1.3288	1.3288
15					
16	Revenue Deficiency (Sufficiency)	Line 12 x Line 14	\$ 4,544,375	\$ 2,955,942	\$ 1,588,434
17					
18	Revenue Offset U-20995		\$ —	\$ —	\$ —
19					
20	Revenue Offset U-20757		\$ —	\$ —	\$ —
21					
22	Revenue Adjustment U-20276 (pension liability)		\$ —	\$ —	\$ —
23					
24	Revenue Deficiency (Sufficiency)		\$ 4,544,375	\$ 2,955,942	\$ 1,588,434
25					
26	Percentage Increase (Decrease)		3.32%	2.18%	N/A
27					
28	Actual ROE		7.83%	8.50%	
29					
30	Revenue Deficiency (Sufficiency)		\$ 4,544,375	\$ 2,955,942	
31					
32	Present Revenues		\$ 136,747,740	\$ 135,888,339	
33					
34	Percentage Increase (Decrease)		3.32%	2.18%	

Schedule A2

Michigan Public Service Commission
Upper Peninsula Power Company
Financial Metrics - Financial Basis

Case No.: U-22032
Exhibit No.: A-1 (NLW-2)
Schedule: A2
Page: 1 of 6
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)	(f)
Line	Calendar Year					
No.	Description	2025	2024	2023	2022	2021
1	Operating Revenue	\$ 142,079,301	\$ 124,998,929	\$ 118,346,302	\$ 116,568,011	\$ 115,279,207
2	Operating Expenses	\$ 119,812,093	\$ 110,114,426	\$ 103,378,906	\$ 102,769,333	\$ 92,906,554
3	Pre-Tax Operating Income	\$ 22,267,208	\$ 14,884,503	\$ 14,967,396	\$ 13,798,678	\$ 22,372,653
4	Income Taxes	\$ 3,891,994	\$ 2,308,457	\$ 1,457,232	\$ 1,082,451	\$ 3,321,796
5	Net Operating Income	\$ 18,375,214	\$ 12,576,045	\$ 13,510,165	\$ 12,716,227	\$ 19,050,857
6	Other Income and Deductions	\$ (3,458,654)	\$ (4,451,218)	\$ (3,338,242)	\$ (16,098)	\$ (4,204,470)
7	AFUDC	\$ 1,166,175	\$ —	\$ —	\$ —	\$ —
8	Interest Charges	\$ 8,461,234	\$ 9,052,811	\$ 7,574,150	\$ 5,981,228	\$ 5,961,932
9	Preferred Stock Dividends	\$ —	\$ —	\$ —	\$ —	\$ —
10	Net Income Available for Common	\$ 12,206,459	\$ 7,974,452	\$ 9,274,257	\$ 6,751,096	\$ 17,293,395
11	Average Common Equity	\$ 205,798,363	\$ 186,144,007	\$ 184,422,373	\$ 192,216,055	\$ 184,754,878
12	Earned Rate of Return on Common Equity	5.93%	4.28%	5.03%	3.51%	9.36%
13	Authorized Rate of Return on Common Equity	9.86%	9.86%	9.86%	9.90%	9.90%

Schedule A2

Michigan Public Service Commission
Upper Peninsula Power Company
Financial Metrics - Financial Basis

Case No.: U-22032
Exhibit No.: A-1 (NLW-2)
Schedule: A2
Page: 2 of 6
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)	(f)
Line						
No.	Description	2025	2024	2023	2022	2021
	<u>EBIT Interest Coverage Ratio</u>					
14	Pre-Tax Operating Income	\$ 22,267,208	\$ 14,884,503	\$ 14,967,396	\$ 13,798,678	\$ 22,372,653
15	Other Income and Deductions	\$ (3,458,654)	\$ (4,451,218)	\$ (3,338,242)	\$ (16,098)	\$ (4,204,470)
16	AFUDC	\$ 1,166,175	\$ —	\$ —	\$ —	\$ —
17	Total EBIT	\$ 19,974,729	\$ 10,433,285	\$ 11,629,154	\$ 13,782,580	\$ 18,168,183
18	Interest Charges	\$ 8,461,234	\$ 9,052,811	\$ 7,574,150	\$ 5,981,228	\$ 5,961,932
19	EBIT Interest Coverage Ratio	2.36	1.15	1.54	2.30	3.05
	<u>EBITDA Interest Coverage Ratio</u>					
20	Total EBIT	\$ 19,974,729	\$ 10,433,285	\$ 11,629,154	\$ 13,782,580	\$ 18,168,183
21	Depreciation and Amortization	\$ 16,433,982	\$ 14,386,696	\$ 12,824,932	\$ 12,575,926	\$ 12,232,630
22	Total EBITDA	\$ 36,408,711	\$ 24,819,981	\$ 24,454,086	\$ 26,358,506	\$ 30,400,813
23	Interest Charges	\$ 8,461,234	\$ 9,052,811	\$ 7,574,150	\$ 5,981,228	\$ 5,961,932
24	EBITDA Interest Coverage Ratio	4.30	2.74	3.23	4.41	5.10
	<u>Funds Flow from Operations (FFO) Interest Coverage Ratio</u>					
25	Net Operating Income	\$ 18,375,214	\$ 12,576,045	\$ 13,510,165	\$ 12,716,227	\$ 19,050,857
26	Depreciation and Amortization	\$ 16,433,982	\$ 14,386,696	\$ 12,824,932	\$ 12,575,926	\$ 12,232,630
27	Deferred Income Tax	\$ 3,891,994	\$ 2,308,457	\$ 1,457,232	\$ 1,082,451	\$ 3,321,796
28	AFUDC	\$ 1,166,175	\$ —	\$ —	\$ —	\$ —
29	Other Major Recurring Non-Cash Items	\$ —	\$ —	\$ —	\$ —	\$ —
30	Interest Paid	\$ 8,461,234	\$ 9,052,811	\$ 7,574,150	\$ 5,981,228	\$ 5,961,932
31	Less:					
32	Operating Lease Adjustment to Depreciation	\$ —	\$ —	\$ —	\$ —	\$ —
33	Subtotal	\$ 48,328,599	\$ 38,324,010	\$ 35,366,478	\$ 32,355,832	\$ 40,567,215
34	Interest Charges	\$ 8,461,234	\$ 9,052,811	\$ 7,574,150	\$ 5,981,228	\$ 5,961,932
35	FFO Interest Coverage Ratio	5.71	4.23	4.67	5.41	6.80

Schedule A2

Michigan Public Service Commission
Upper Peninsula Power Company
Financial Metrics - Financial Basis

Case No.: U-22032
Exhibit No.: A-1 (NLW-2)
Schedule: A2
Page: 3 of 6
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)	(f)
Line No.	Description	Calendar Year				
		2025	2024	2023	2022	2021
	<u>Overall Fixed Charge Coverage Ratio</u>					
36	Net Income Available for Common	\$ 12,206,459	\$ 7,974,452	\$ 9,274,257	\$ 6,751,096	\$ 17,293,395
37	Interest Charges	\$ 8,461,234	\$ 9,052,811	\$ 7,574,150	\$ 5,981,228	\$ 5,961,932
38	Subtotal Numerator	\$ 20,667,693	\$ 17,027,263	\$ 16,848,406	\$ 12,732,324	\$ 23,255,327
39	Interest Charges	\$ 8,461,234	\$ 9,052,811	\$ 7,574,150	\$ 5,981,228	\$ 5,961,932
40	Preferred Stock Dividends	\$ —	\$ —	\$ —	\$ —	\$ —
41	Subtotal Denominator	\$ 8,461,234	\$ 9,052,811	\$ 7,574,150	\$ 5,981,228	\$ 5,961,932
42	Overall Fixed Charge and Coverage Ratio	2.44	1.88	2.22	2.13	3.90
	<u>Cash Flow Coverage of Dividends Ratio</u>					
43	Net Income Available for Common	\$ 12,206,459	\$ 7,974,452	\$ 9,274,257	\$ 6,751,096	\$ 17,293,395
44	Depreciation and Amortization	\$ 16,433,982	\$ 14,386,696	\$ 12,824,932	\$ 12,575,926	\$ 12,232,630
45	Deferred Taxes	\$ 3,891,994	\$ 2,308,457	\$ 1,457,232	\$ 1,082,451	\$ 3,321,796
46	Subtotal	\$ 32,532,435	\$ 24,669,605	\$ 23,556,420	\$ 20,409,473	\$ 32,847,821
47	Common Dividends	\$ —	\$ —	\$ —	\$ —	\$ —
48	Cash Flow Coverage of Dividends Ratio	—	—	—	—	—
	<u>Common Dividend Payout Ratio</u>					
49	Common Dividends	\$ —	\$ —	\$ —	\$ —	\$ —
50	Net Income Available for Common	\$ 12,206,459	\$ 7,974,452	\$ 9,274,257	\$ 6,751,096	\$ 17,293,395
51	Common Dividend Payout Ratio	—	—	—	—	—
	<u>Permanent Capitalization</u>					
52	Long Term Debt	\$ 169,100,000	\$ 169,100,000	\$ 112,347,800	\$ 108,200,000	\$ 108,200,000
53	Preferred Stock	\$ —	\$ —	\$ —	\$ —	\$ —
54	Common Equity	\$ 205,798,363	\$ 186,144,007	\$ 184,422,373	\$ 192,216,055	\$ 184,754,878
55	Total Permanent Capital	\$ 374,898,363	\$ 355,244,007	\$ 296,770,173	\$ 300,416,055	\$ 292,954,878
56	Long Term Debt	45.1%	47.6%	37.9%	36.0%	36.9%
57	Preferred Stock	-%	-%	-%	-%	-%
58	Common Equity	54.9%	52.4%	62.1%	64.0%	63.1%
59	Total Permanent Capital	100.0%	100.0%	100.0%	100.0%	100.0%

Schedule A2

Michigan Public Service Commission
Upper Peninsula Power Company
Financial Metrics - Ratemaking Basis

Case No.: U-22032
Exhibit No.: A-1 (NLW-2)
Schedule: A2
Page: 4 of 6
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)	(f)
Line	Calendar Year					
No.	Description	2025	2024	2023	2022	2021
60	Operating Revenue	\$ 136,747,740	\$ 122,952,360	\$ 116,175,227	\$ 114,480,603	\$ 113,755,761
61	Operating Expense	\$ 116,473,511	\$ 105,322,455	\$ 98,409,060	\$ 101,498,298	\$ 91,775,318
62	Pre-Tax Operating Income	\$ 20,274,229	\$ 17,629,905	\$ 17,766,167	\$ 12,982,305	\$ 21,980,443
63	Income Taxes	\$ —	\$ 2,382,418	\$ 1,289,933	\$ 855,434	\$ 3,218,750
64	Net Operating Income	\$ 20,274,229	\$ 15,247,487	\$ 16,476,234	\$ 12,126,871	\$ 18,761,693
65	Tax Impact of Pro-Forma Interest on NOI	\$ —	\$ —	\$ —	\$ —	\$ —
66	AFUDC	\$ 1,166,175	\$ 718,712	\$ —	\$ —	\$ 226,063
67	Interest Charges	\$ 7,682,280	\$ 9,052,811	\$ 7,568,101	\$ 5,977,957	\$ 5,961,932
68	Preferred Stock Dividends	\$ —	\$ —	\$ —	\$ —	\$ —
69	Net Income Available for Common and JDITC	\$ 13,758,124	\$ 6,913,388	\$ 8,908,133	\$ 6,148,914	\$ 13,025,824
70	Return Assignable to JDITC	\$ —	\$ —	\$ —	\$ —	\$ —
71	Net Income Available for Common	\$ 13,758,124	\$ 6,913,388	\$ 8,908,133	\$ 6,148,914	\$ 13,025,824
72	Average Common Equity	\$ 168,534,222	\$ 151,145,635	\$ 149,467,560	\$ 157,061,584	\$ 149,985,631
73	Earned Rate of Return on Common Equity	8.16%	4.57%	5.96%	3.91%	8.68%
74	Authorized Return on Equity	9.86%	9.86%	9.86%	9.90%	9.90%

Schedule A2

Michigan Public Service Commission
Upper Peninsula Power Company
Financial Metrics - Ratemaking Basis

Case No.: U-22032
Exhibit No.: A-1 (NLW-2)
Schedule: A2
Page: 5 of 6
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)	(f)
Line						
No.	Description	2025	2024	2023	2022	2021
	<u>EBIT Interest Coverage Ratio</u>					
75	Pre-Tax Operating Income	\$ 20,274,229	\$ 17,629,905	\$ 17,766,167	\$ 12,982,305	\$ 21,980,443
76	AFUDC	\$ 1,166,175	\$ 718,712	\$ —	\$ —	\$ 226,063
77	Total EBIT	\$ 21,440,404	\$ 18,348,617	\$ 17,766,167	\$ 12,982,305	\$ 22,206,506
78	Interest Charges	\$ 7,682,280	\$ 9,052,811	\$ 7,568,101	\$ 5,977,957	\$ 5,961,932
79	EBIT Interest Coverage Ratio	2.79	2.03	2.35	2.17	3.72
	<u>EBITDA Interest Coverage Ratio</u>					
80	Total EBIT	\$ 21,440,404	\$ 18,348,617	\$ 17,766,167	\$ 12,982,305	\$ 22,206,506
81	Depreciation and Amortization	\$ 16,093,647	\$ 14,106,106	\$ 12,587,076	\$ 12,343,662	\$ 12,011,547
82	Total EBITDA	\$ 37,534,051	\$ 32,454,723	\$ 30,353,243	\$ 25,325,967	\$ 34,218,053
83	Interest Charges	\$ 7,682,280	\$ 9,052,811	\$ 7,568,101	\$ 5,977,957	\$ 5,961,932
84	EBITDA Interest Coverage Ratio	4.89	3.59	4.01	4.24	5.74
	<u>Funds Flow from Operations (FFO)</u>					
	<u>Interest Coverage Ratio</u>					
85	Net Operating Income	\$ 20,274,229	\$ 15,247,487	\$ 16,476,234	\$ 12,126,871	\$ 18,761,693
86	Depreciation and Amortization	\$ 16,093,647	\$ 14,106,106	\$ 12,587,076	\$ 12,343,662	\$ 12,011,547
87	Deferred Income Tax	\$ —	\$ 2,382,418	\$ 1,289,933	\$ 855,434	\$ 3,218,750
88	AFUDC	\$ 1,166,175	\$ 718,712	\$ —	\$ —	\$ 226,063
89	Other Major Recurring Non-Cash Items	\$ —	\$ —	\$ —	\$ —	\$ —
90	Interest Paid	\$ 7,682,280	\$ 9,052,811	\$ 7,568,101	\$ 5,977,957	\$ 5,961,932
91	Less:					
92	Operating Lease Adjustment	\$ —	\$ —	\$ —	\$ —	\$ —
93	Subtotal	\$ 45,216,331	\$ 41,507,534	\$ 37,921,344	\$ 31,303,924	\$ 40,179,985
94	Interest Charges	\$ 7,682,280	\$ 9,052,811	\$ 7,568,101	\$ 5,977,957	\$ 5,961,932
95	FFO Interest Coverage Ratio	5.89	4.59	5.01	5.24	6.74
	<u>Overall Fixed Charge Coverage Ratio</u>					
96	Net Income Available for Common	\$ 13,758,124	\$ 6,913,388	\$ 8,908,133	\$ 6,148,914	\$ 13,025,824
97	Interest Charges	\$ 7,682,280	\$ 9,052,811	\$ 7,568,101	\$ 5,977,957	\$ 5,961,932
98	Subtotal Numerator	\$ 21,440,404	\$ 15,966,199	\$ 16,476,234	\$ 12,126,871	\$ 18,987,756
99	Interest Charges	\$ 7,682,280	\$ 9,052,811	\$ 7,568,101	\$ 5,977,957	\$ 5,961,932
100	Preferred Stock Dividends	\$ —	\$ —	\$ —	\$ —	\$ —
101	Subtotal Denominator	\$ 7,682,280	\$ 9,052,811	\$ 7,568,101	\$ 5,977,957	\$ 5,961,932
102	Overall Fixed Charge Coverage Ratio	2.79	1.76	2.18	2.03	3.18

Schedule A2

Michigan Public Service Commission
Upper Peninsula Power Company
Financial Metrics - Ratemaking Basis

Case No.: U-22032
Exhibit No.: A-1 (NLW-2)
Schedule: A2
Page: 6 of 6
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)	(f)
Line	Calendar Year					
No.	Description	2025	2024	2023	2022	2021
	<u>Cash Flow Coverage of Dividends Ratio</u>					
103	Net Income Available for Common	\$ 13,758,124	\$ 6,913,388	\$ 8,908,133	\$ 6,148,914	\$ 13,025,824
104	Depreciation and Amortization	\$ 16,093,647	\$ 14,106,106	\$ 12,587,076	\$ 12,343,662	\$ 12,011,547
105	Deferred Taxes	\$ —	\$ 2,382,418	\$ 1,289,933	\$ 855,434	\$ 3,218,750
106	Subtotal	\$ 29,851,771	\$ 23,401,912	\$ 22,785,142	\$ 19,348,010	\$ 28,256,121
107	Common Dividends	\$ —	\$ —	\$ —	\$ —	\$ —
108	Cash Flow Coverage of Dividends Ratio	—	—	—	—	—
	<u>Common Dividend Payout Ratio</u>					
109	Common Dividends	\$ —	\$ —	\$ —	\$ —	\$ —
110	Net Income Available for Common	\$ 13,758,124	\$ 6,913,388	\$ 8,908,133	\$ 6,148,914	\$ 13,025,824
111	Common Dividend Payout Ratio	—	—	—	—	—
	<u>Permanent Capitalization</u>					
112	Long Term Debt (excluding Securitization)	\$ 169,100,000	\$ 169,100,000	\$ 112,347,800	\$ 108,200,000	\$ 108,200,000
113	Preferred Stock	\$ —	\$ —	\$ —	\$ —	\$ —
114	Common Equity	\$ 168,534,222	\$ 151,145,635	\$ 149,467,560	\$ 157,061,584	\$ 149,985,631
115	Total Permanent Capital	\$ 337,634,222	\$ 320,245,635	\$ 261,815,360	\$ 265,261,584	\$ 258,185,631
116	Long Term Debt (Excluding Securitization)	50.1%	52.8%	42.9%	40.8%	41.9%
117	Preferred Stock	-%	-%	-%	-%	-%
118	Common Equity	49.9%	47.2%	57.1%	59.2%	58.1%
119	Total Permanent Capital	100.0%	100.0%	100.0%	100.0%	100.0%

Schedule B1

Michigan Public Service Commission
Upper Peninsula Power Company
Historical Rate Base
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-2 (NLW-3)
Schedule: B1
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Integrated Retail	Wholesale
1					
2	Plant in Service	Exh. A-2 (NLW-4), Sch. B2	464,874,426	445,560,406	19,314,020
3	Plant Held for Future Use	Exh. A-2 (NLW-4), Sch. B2	—	—	—
4	Construction Work in Progress	Exh. A-2 (NLW-4), Sch. B2	36,667,584	35,911,447	756,137
5	Total Utility Plant		501,542,009	481,471,853	20,070,156
6					
7	Less: Depreciation Reserve	Exh. A-2 (NLW-5), Sch. B3	211,457,405	202,257,221	9,200,184
8					
9	Net Utility Plant	Line 5 - Line 7	290,084,605	279,214,632	10,869,972
10					
11	Net Capital Lease Property		—	—	—
12					
13	Total Utility Property and Plant	Line 9 + Line 11	290,084,605	279,214,632	10,869,972
14					
15	Less: Capital Lease Obligations		—	—	—
16					
17	Net Plant	Line 13 + Line 15	290,084,605	279,214,632	10,869,972
18					
19	Allowance for Working Capital	Exh. A-2 (NLW-6), Sch. B4	88,509,804	87,476,289	1,033,516
20					
21	Total Rate Base	Line 17 + Line 19	378,594,409	366,690,921	11,903,488

Schedule B2

Michigan Public Service Commission
Upper Peninsula Power Company
Total Utility Plant
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-2 (NLW-4)
Schedule: B2
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	MPSC Account No.	Total	Retail	Wholesale
1					
2	Plant in service	101	458,830,056	439,767,160	19,062,896
3	Plant purchased or sold	102	—	—	—
4	Experimental plant unclassified	103	—	—	—
5	Plant leased to others	104	—	—	—
6	Completed construction not classified	106	6,044,370	5,793,246	251,124
7	Plant in Service		464,874,426	445,560,406	19,314,020
8					
9	Plant held for future use	105	—	—	—
10					
11	Construction work in progress	107	36,667,584	35,911,447	756,137
12					
13	Total Historic Period Utility Plant	Line 7 + Line 11	501,542,009	481,471,853	20,070,156

Schedule B3

Michigan Public Service Commission
Upper Peninsula Power Company
Depreciation Reserve and Other Deductions
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-2 (NLW-5)
Schedule: B3
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	Total Historical Period Accumulated Provision for Depreciation	2025 Balance Sheet	211,457,405	202,257,221	9,200,184

Schedule B4

Michigan Public Service Commission
Upper Peninsula Power Company
Working Capital
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-2 (NLW-6)
Schedule: B4
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	<u>Assets</u>				
3					
4	Fuel Stock	2025 Balance Sheet	73,802	73,802	—
5	Materials & Supplies	2025 Balance Sheet	5,852,068	5,642,941	209,127
6	Customer Advances	2025 Balance Sheet	(5,228,505)	(5,228,505)	—
7	Special Deposits (Pension and Benefits)	2025 Balance Sheet	26,442,988	26,164,128	278,859
8	Customer Accounts Receivable	2025 Balance Sheet	8,280,982	8,193,653	87,329
9	Other Accounts Receivable	2025 Balance Sheet	(216,942)	(214,654)	(2,288)
10	Accum Provision Uncollectible Accounts	2025 Balance Sheet	(704,641)	(697,210)	(7,431)
11	Accounts Receivable from Assoc Co.	2025 Balance Sheet	—	—	—
12	Taxes Receivable Other Co.	2023 Balance Sheet	—	—	—
13	Misc and Accrued Assets	2025 Balance Sheet	—	—	—
14	Derivative Assets	2025 Balance Sheet	19,062	18,861	201
15	Other Deferred Debits	2025 Balance Sheet	41,368,000	40,931,746	436,254
16	Unamort Debt Exp.	2025 Balance Sheet	23,099,597	22,855,996	243,601
17	Prepayments	2025 Balance Sheet	2,061,070	2,021,206	39,864
18	Cash and Bank Balances	2025 Balance Sheet	4,455,312	4,412,119	43,193
19	Other	2025 Balance Sheet	8,284,606	8,284,606	0
20					
21	Total Assets	Sum of Lines 3 - 21	113,787,397	112,458,688	1,328,709
22					
23	<u>Liabilities</u>				
24	Def Cr SERP	2025 Balance Sheet	(1,631,982)	(1,614,772)	(17,210)
25	Accounts Payable	2025 Balance Sheet	(11,517,264)	(11,395,806)	(121,457)
26	Accounts Payable Other	2025 Balance Sheet	—	—	—
27	Accrued Interest	2025 Balance Sheet	(646,958)	(640,136)	(6,823)
28		2023 Balance Sheet			
29	Tax Collections Payable	2025 Balance Sheet	(143,548)	(142,034)	(1,514)
30	Misc Current and Accrued Liabilities	2025 Balance Sheet	(4,843,068)	(4,792,119)	(50,949)
31	Derivative Liabilities	2025 Balance Sheet	—	—	—
32	Other Deferred Credits	2025 Balance Sheet	(3,682,495)	(3,643,661)	(38,834)
33	Regulatory Liabilities	2025 Balance Sheet	(528,710)	(523,134)	(5,576)
34	Taxes	2025 Balance Sheet	(2,283,568)	(2,230,738)	(52,830)
35					
36	Total Liabilities	Sum of Lines 27 - 40	(25,277,593)	(24,982,399)	(295,194)
37					
38	Total Historical Test Period Working Capital	Line 22 - Line 41	\$ 88,509,804	\$ 87,476,289	1,033,516

Schedule C1

Michigan Public Service Commission
Upper Peninsula Power Company
Adjusted Net Operating Income
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-3 (NLW-7)
Schedule: C1
Page: 1 of 2
Witness: Natasha L. Wonch

Line No.	(a) Description	(b) Source	(c) Total	(d) Retail	(e) Wholesale
1					
2	Operating Revenues	Exh. A-3 (NLW-9), Sch. C3	136,747,740	135,888,339	859,401
3					
4	Operating Expenses				
5	Fuel and Purchased Power (Electric Only)	Exh. A-3 (NLW-10), Sch. C4	45,274,108	45,274,108	—
6	Operations and Maintenance Expenses	Exh. A-3 (NLW-11), Sch. C5	41,802,124	40,915,498	886,626
7	Depreciation and Amortization	Exh. A-3 (NLW-12), Sch. C6	16,093,647	15,768,521	325,126
8	General Taxes	Exh. A-3 (NLW-13), Sch. C7	9,207,855	8,848,851	359,003
9	Income Taxes	Exh. A-3 (NLW-14 & 15), Sch. C8 & C9	4,095,777	4,347,463	(251,685)
10	Total Operating Expenses	Sum of Lines 5 - 9	116,473,511	115,154,440	1,319,070
11					
12	Operating Income	Line 2 - Line 10	20,274,229	20,733,899	(459,670)
13					
14	Operating Income Adjustments				
15	Allowance For Funds Used During Construction	Exh. A-3 (NLW-17), Sch. C11	1,166,175	1,142,336	23,838
16	Interest Income on Customer Accounts	2025 Income Statement	49,035	48,032	1,002
17	Income Tax Effect of Interest	Exh. A-3 (NLW-18), Sch. C12	57,489	33,061	24,428
18	Interest Synchronization Adjustment	Exh. A-3 (NLW-7), Sch. C1 page 2	(50)	(49)	(2)
19	Total Operating Income Adjustments	Sum of Lines 15 - 19	1,272,648	1,223,381	49,267
20					
21	Adjusted Net Operating Income	Line 12 - Line 20	21,546,878	21,957,280	(410,402)

Schedule C1

Michigan Public Service Commission
Upper Peninsula Power Company
Actual Net Operating Income
for the Historical Year Ended, December 31, 2025
Net Operating Income

Case No.: U-22032
Exhibit No.: A-3 (NLW-7)
Schedule: C1
Page: 2 of 2
Witness: Natasha L. Wonch

Interest Synchronization Calculation

Line	Description	Source	Total	Retail	Wholesale
1	Rate Base	Exh. A-2 (NLW-3), Sch. B1	378,594,409	366,690,921	11,903,488
2	% of Capital Represented by Debt	Exh. A-4 (NEK-1), Sch. D1	47.5690%	47.5690%	47.5690%
3	Portion of Rate Base Funded by Debt	Line 1 x Line 2	180,093,584	174,431,213	5,662,371
4					
5	Cost of Debt	Exh. A-4 (NEK-1), Sch. D1	4.7437%	4.7437%	4.7437%
6	Interest Allowed	Line 3 x Line 5	8,543,109	8,274,503	268,606
7					
8	Interest Deduction on Taxes	Exh. A-3 (NLW-14), Sch. C8	8,543,176	8,274,568	268,608
9					
10	Add Interest Deduct	Line 6 - Line 8	(67)	(65)	(2)
11					
12	Affect of Interest Allowed		(50.45)	(48.86)	(1.59)

Schedule C2

Michigan Public Service Commission
Upper Peninsula Power Company
Revenue Conversion Factor
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-3 (NLW-8)
Schedule: C2
Page: 1 of 1
Witness: Natasha L. Wonch

Line	Description	Calculations	Amount
1			
2	Income Before Income Taxes		100.000%
3			
4	Michigan Corporate Income Tax	Exh. A-3 (NLW-15), Sch. C9	4.740%
5			
6	Subtotal of State Income Tax	Line 4 + Line 6	4.740%
7			
8	Federal Income Tax Base	Line 2 - Line 8	95.260%
9			
10	Federal Income Tax Rate	Exh. A-3 (NLW-14), Sch. C8	21.000%
11			
12	Effective Federal Income Tax	Line 10 * Line 12	20.005%
13			
14	Income After Taxes	Line 10 - Line 14	75.255%
15			
16	Gross Revenue Conversion Factor	Line 2 / Line 16	1.3288

Schedule C3

Michigan Public Service Commission
Upper Peninsula Power Company
Historical Operating Revenue
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-3 (NLW-9)
Schedule: C3
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	Present Revenues	2025 Income Statement	126,563,709	126,563,709	—
3					
4	Other Adjustments	2025 Income Statement	10,184,031	9,324,630	859,401
5					
6	Total Revenue	Line 2 + Line 4	<u>136,747,740</u>	<u>135,888,339</u>	<u>859,401</u>

Schedule C4

Michigan Public Service Commission
Upper Peninsula Power Company
Historical Fuel and Purchased Power
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-3 (NLW-10)
Schedule: C4
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	Fuel	2025 Income Statement	17,332	17,332	—
3	Purchased Power	2025 Income Statement	34,005,595	34,005,595	—
4	Transmission (PSCR Related)	2025 Income Statement	11,251,181	11,251,181	—
5					
6	Total Production		<u>45,274,108</u>	<u>45,274,108</u>	<u>—</u>

Schedule C5

Michigan Public Service Commission
 Upper Peninsula Power Company
 Historical Operation and Maintenance Expenses
 for the Historical Year Ended, December 31, 2025

Case No.: U-22032
 Exhibit No.: A-3 (NLW-11)
 Schedule: C5
 Page: 1 of 1
 Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	Operation and Maintenance Expenses:				
3	Production	2025 Income Statement	4,234,407	4,234,407	—
4	Distribution	2025 Income Statement	19,709,435	19,075,739	633,696
5	Transmission (Non PSCR Related)	2025 Income Statement	—	—	—
6	Customer Accounts	2025 Income Statement	3,321,499	3,321,499	—
7	Customer Service	2025 Income Statement	1,187,338	1,187,338	—
8	Sales	2025 Income Statement	—	—	—
9	Administrative and General	2025 Income Statement	13,349,447	13,096,516	252,930
10					
11	Total Operation and Maintenance Expenses		<u>41,802,124</u>	<u>40,915,498</u>	<u>886,626</u>

Schedule C6

Michigan Public Service Commission
Upper Peninsula Power Company
Depreciation and Amortization Expense
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-3 (NLW-12)
Schedule: C6
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	Depreciation and Amortization Expense				
3	Depreciation & Amortization Expense	2025 Income Statement	16,093,647	15,768,521	325,126
4	Other Amortization Expense	2025 Income Statement	—	—	—
5					
6	Total Depreciation and Amortization Expense	Line 3 + Line 4	<u>16,093,647</u>	<u>15,768,521</u>	<u>325,126</u>

Schedule C7

Michigan Public Service Commission
Upper Peninsula Power Company
General Taxes
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-3 (NLW-13)
Schedule: C7
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	Taxes Other Than Income Taxes				
3					
4	FEDERAL				
5	Retirement Benefits	2025 Income Statement	1,005,448	984,544	20,905
6	Unemployment Comp	2025 Income Statement	4,576	4,481	95
7	Super Fund Tax	2025 Income Statement	—	—	—
8	Highway Use Tax				
9					
10	STATE				
11	Gross Receipts Tax				
12	Unemployment Comp	2025 Income Statement	14,561	14,258	303
13	Unitary Fees	2025 Income Statement	—	—	—
14	Use Tax	2025 Income Statement	—	—	—
15	Unauthor Ins Tax	2025 Income Statement	—	—	—
16	Wis Recycling Fee	2025 Income Statement	—	—	—
17	Single Business Tax	2025 Income Statement	—	—	—
18	Property	2025 Income Statement	8,073,066	7,737,657	335,410
19					
20	LOCAL				
21	Real Est & Property				
22					
23	IBS				
24	Payroll Taxes	2025 Income Statement	110,203	107,912	2,291
25					
26	OTHER				
27	Franchise Tax Fees		—	—	—
28					
29	Total Taxes Other Than Income Taxes	Sum of Lines 5 - 27	<u>9,207,855</u>	<u>8,848,851</u>	<u>359,003</u>

Schedule C8

Michigan Public Service Commission
Upper Peninsula Power Company
Federal Income Taxes
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-3 (NLW-14)
Schedule: C8
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Integrated Retail	Wholesale
	Federal				
1	Book Income Before Taxes & Interest	Exh. A-3 (NLW-7), Sch. C1	24,370,007	25,081,362	(711,355)
2	Interest Expense	Line 22	8,543,176	8,274,568	268,608
3	Income Reconciliation	Line 33	(26,544,510)	(25,183,265)	(1,361,246)
4	Taxable Income	Line 1 - Line 2 + Line 3	(10,717,679)	(8,376,471)	(2,341,209)
5					
6	Tax Rate		21.0000%	21.0000%	21.0000%
7					
8	Taxes Calculated	Line 4 * Line 6	(2,250,713)	(1,759,059)	(491,654)
9	TCJA Calc C	—	—	—	—
10	Tax Liability	Line 8 + Line 9	(2,250,713)	(1,759,059)	(491,654)
11					
12	Net Tax Adjustment	Line 43	5,701,985	5,385,708	316,277
13					
14	Taxes Allowable	Line 10 + Line 12	<u>3,451,272</u>	<u>3,626,650</u>	<u>(175,377)</u>
15					
16					
17					
18					
19	Interest Calc				
20	Rate Base	Exh. A-2 (NLW-3), Sch. B1	378,594,409	366,690,921	11,903,488
21	x Weighted Cost of Debt	Exh. A-4 (NEK-1), Sch. D1	2.2566%	2.2566%	2.2566%
22	Interest Expense		8,543,176	8,274,568	268,608
23					
24					
25	Net Income Additions/Deductions	Allocated on			
26	State Tax Liability		607,796	462,962	144,834
27	Energy	Energy	(63,241)	(63,241)	—
28	Rate Base	Rate Base	2,623,876	2,570,240	53,636
29	Demand	CP Less Interruptible	83,575	83,575	—
30	Distribution Plant	Distribution Plant	(23,768,922)	(22,334,528)	(1,434,394)
31	Customer	Customer	—	—	—
32	General & Common	Salaries and Wages	(6,027,594)	(5,902,273)	(125,321)
33	Total Additions/Deductions		<u>(26,544,510)</u>	<u>(25,183,265)</u>	<u>(1,361,246)</u>
34					
35					
36	Deferred Expense				
37	Energy	Energy	13,281	13,281	—
38	Rate Base	Rate Base	(551,014)	(539,750)	(11,264)
39	Demand	CP Less Interruptible	(17,551)	(17,551)	—
40	Distribution Plant	Distribution Plant	4,991,474	4,690,251	301,223
41	Customer	Customer	—	—	—
42	General & Common	Salaries and Wages	1,265,795	1,239,478	26,317
43	Total Deferreds		<u>5,701,985</u>	<u>5,385,708</u>	<u>316,277</u>

Schedule C9

Michigan Public Service Commission
Upper Peninsula Power Company
State Income Taxes
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-3 (NLW-15)
Schedule: C9
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
	Michigan State Taxes				
1	Book Income Before Taxes & Interest	Exh. A-3 (NLW-7), Sch. C1	24,370,007	25,081,362	(711,355)
2	Interest Expense	Line 22	8,543,176	8,274,568	268,608
3	Income Reconciliation	Line 32	(25,956,763)	(24,522,832)	(1,433,931)
4	Taxable Income	Line 1 - Line 2 + Line 3	(10,129,932)	(7,716,038)	(2,413,894)
5					
6	Tax Rate		6.000000%	6.000000%	6.000000%
7					
8	Taxes Calculated	Line 4 * Line 6	(607,796)	(462,962)	(144,834)
9	TCJA Calc C		—	—	—
10	Tax Liability	Line 8 + Line 9	(607,796)	(462,962)	(144,834)
11					
12	Net Tax Adjustment	Line 42	1,252,301	1,183,775	68,526
13					
14	Taxes Allowable	Line 10 + Line 12	644,505	720,813	(76,308)
15					
16					
17					
18					
19	Interest Calc				
20	Rate Base	Exh. A-2 (NLW-3), Sch. B1	378,594,409	366,690,921	11,903,488
21	x Weighted Cost of Debt	Exh. A-4 (NEK-1), Sch. D1	2.2566%	2.2566%	2.2566%
22	Interest Expense		8,543,176	8,274,568	268,608
23					
24					
25	Net Income Additions/Deductions	Allocated on			
26	Energy	Energy	(63,241)	(63,241)	—
27	Rate Base	Rate Base	2,623,876	2,570,240	53,636
28	Demand	CP Less Interruptible	83,575	83,575	—
29	Distribution Plant	Distribution Plant	(22,573,379)	(21,211,133)	(1,362,246)
30	Customer	Customer	—	—	—
31	General & Common	Salaries and Wages	(6,027,594)	(5,902,273)	(125,321)
32	Total Additions/Deductions		<u>(25,956,763)</u>	<u>(24,522,832)</u>	<u>(1,433,931)</u>
33					
34					
35	Deferred Expense	Allocated on			
36	Energy	Energy	—	—	—
37	Rate Base	Rate Base	(100,609)	(98,552)	(2,057)
38	Demand	CP Less Interruptible	(3,961)	(3,961)	—
39	Distribution Plant	Distribution Plant	1,071,163	1,006,521	64,642
40	Customer	Customer	—	—	—
41	General & Common	Salaries and Wages	285,708	279,768	5,940
42	Total Deferreds		<u>1,252,301</u>	<u>1,183,775</u>	<u>68,526</u>

Schedule C10

Michigan Public Service Commission
Upper Peninsula Power Company
Other (or Local) Taxes
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-3 (NLW-16)
Schedule: C10
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2					

Schedule C11

Michigan Public Service Commission
Upper Peninsula Power Company
Allowance for Funds Used During Construction
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-3 (NLW-17)
Schedule: C11
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	AFUDC Debt		445,018	435,921	9,097
3	AFUDC Equity		721,157	706,415	14,742
4					
5	Total AFUDC	Line 2 + Line 3	<u>1,166,175</u>	<u>1,142,336</u>	<u>23,838</u>

Schedule C12

Michigan Public Service Commission
Upper Peninsula Power Company
Income Tax Effect of Interest
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-3 (NLW-18)
Schedule: C12
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	Rate Base	Exh. A-2 (NLW -3) Sch. B1	378,594,409	366,690,921	11,903,488
3	Weighted cost of debt	Exh. A-4 (NEK-1) Sch. D1	2.2566 %	2.2566 %	2.2566 %
4	Allowable interest expense	Line 1 * Line 2	8,543,176	8,274,568	268,608
5	Actual interest expense	Exh A-4 (NEK-2) Sch. D2 and			
	Increase/(decrease) in allowable	Exh A-4 (NEK-3) Sch. D3	8,310,845	8,140,958	169,887
6	interest deduction	Line 3 - Line 4	232,331	133,610	98,721
7	Impact on taxable income	Line 5*-1	(232,331)	(133,610)	(98,721)
8	Impact on state income taxes	Line 6 * 4.24% State Income Tax Rate	(11,013)	(6,333)	(4,679)
9	Impact on federal taxable income	Line 6 - Line 8	(221,319)	(127,277)	(94,042)
10	Impact on federal income tax	Line 9* 21% Federal Income Tax Rate	(46,477)	(26,728)	(19,749)
11	Total impact on net operating income	(Line 8 + Line 10)+-1	57,489	33,061	24,428

Schedule D1

Michigan Public Service Commission
Upper Peninsula Power Company
Overall Rate of Return Summary
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-4 (NEK-1)
Schedule: D1
Page: 1 of 1
Witness: Nicholas E. Kates

Line No.	(a) Description	(b) Capital Structure		(c) Percent of Total Capital	(d) Cost Rate %	(e)	(f)	(g)	(h)	(i)	(j)	(k)
		Amount (1)	Percent Capital	Percent of Total Capital	Cost Rate %		Capital	Total Cost %	Conversion Factor	Pre-Tax Return	Percent Capital Incl ST	Weighted Cost Incl ST
1												
2	Long-Term Debt	\$ 169,100,000	(2) 50.08%	44.72%	4.5598%	(2)	2.28%	2.0393%		2.0393%	48.54%	2.2132%
3												
4	Preferred Stock	\$ —	(4) -%	-%	-%	(4)	-%	-%		-%	-%	-%
5												
6	Common Shareholders' Equity	\$ 168,534,222	(5) 49.92%	44.57%	9.8600%	(5)	4.92%	4.3949%	1.3288	5.8400%	48.37%	4.7697%
7												
8	Total Permanent Capital	<u>\$ 337,634,222</u>		<u>100.00%</u>			<u>7.21%</u>					
9												
10	Short-Term Debt	\$ 10,761,902	(3)	2.85%	7.6329%	(3)		0.2173%		0.2173%	3.09%	0.2358%
11												
12	Job Development - ITC - Debt											
13	Job Development - ITC - Equity											
14	Total Job Development - ITC	\$ —		-%								
15												
16	Deferred Investment Tax Credit	\$ —		-%			-%	-%		-%		
17												
18	Deferred Income Taxes (Net) - Federal	\$ 32,692,451		8.65%			-%	-%		-%		
19												
20	Capital Structure Adj	\$ (2,981,209)		-0.79%			7.22%	-0.0569%		-0.0569%		
21												
22	Total	<u>\$ 378,107,366</u>		<u>100.00%</u>				<u>6.5946%</u>		<u>8.0396%</u>	<u>100.00%</u>	<u>7.2187%</u>

(1) See Exh. A-2, Sch. B1

(2) See Exh. A-4, Sch. D2

(3) See Exh. A-4, Sch. D3

(4) See Exh. A-4, Sch. D4

(5) See Exh. A-4, Sch. D5

Schedule D2

Michigan Public Service Commission
Upper Peninsula Power Company
Cost of Long-Term Debt
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-4 (NEK-2)
Schedule: D2
Page: 1 of 1
Witness: Nicholas E. Kates

Line No.	(a) Description	(b) Original Issue Date	(c) Stated Maturity Date	(d) Interest Rate (%)	(e) Amount of Offering	(f) Price to Public	(g) Underwriting & Financing Expenses (%)	(h) Net Proceeds to the Company (%)	(i) Cost Based on Net Proceeds (%)	(j) Amount Outstanding	(k) Annual Cost	(l)
1	Mortgage Bonds											
2	-----											
3	-----											
4	-----											
5	Total Mortgage Bonds				<u>\$ ---</u>					<u>\$ ---</u>	<u>\$ ---</u>	
6												
7	Other Long-Term Debt											
8	3.59% Senior Secured Fixed Rate Notes	6/3/2021	6/3/2051	3.59%	\$ 127,100,000	\$	1,893,744	\$ 127,100,000	3.590%	\$ 127,100,000	\$ 4,562,890	
9	5.02% Senior Fixed Rate Note	11/22/2024	11/22/2027	5.02%	\$ 42,000,000	\$	372,286	\$ 42,000,000	5.020%	\$ 42,000,000	\$ 2,108,400	
10	-----											
11	Total Other Long-Term Debt				<u>\$ 169,100,000</u>	(1)				<u>\$ 169,100,000</u>	<u>\$ 6,671,290</u>	
12												
13	Total Long-Term Debt				<u>\$ 169,100,000</u>					<u>\$ 169,100,000</u>	<u>\$ 6,671,290</u>	
14												
15												
16	Amortization of Loss on Reacquired Debt										\$ 806,318	(1)
17	Amortization of Debt Disc and Exp										\$ 233,069	
18	-----											
19	Total Interest Expense										<u>\$ 7,710,677</u>	(2)
20												
21	Unamortized Debt Expense									\$ 1,842,798	(3)	
22	Unamortized Loss on Reacquired Debt									<u>\$ 20,500,621</u>	(3)	
23												
24	Total Long-Term Debt Balance (13 mo.)				<u>---</u>					<u>\$ 169,100,000</u>	(3)	<u>4.5598%</u>

(1) See Income Statement

(2) In Column K, sum of Line Nos.: 13,16,17

(3) See Balance Sheet

Schedule D3

Michigan Public Service Commission
Upper Peninsula Power Company
Cost of Short-Term Debt
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-4 (NEK-3)
Schedule: D3
Page: 1 of 1
Witness: Nicholas E. Kates

	(a)	(b)	(c)	(d)
Line No.	Month	Balance Outstanding	Total Cost	Source
1				
2	Commercial Paper	—	—	
3				
4	Inter-Company Loans	—	—	
5				
6	Letter of Credit	—	—	
7				
8	Other:			
9	Revolving Credit Facility	271,200	43,521	
10	Commitment Fees		116,314	
11	Credit Rating Fees		45,896	
12	Line of Credit Fees		15,543	
13				
14	Total Fees	271,200	<u>221,274</u>	
15				
16	Interest Expense	14,147,913	600,168	
17				
18	Total Interest		<u>600,168</u>	
19				
20	Total Fees and Interest		<u>821,442</u>	
21				
22	Average Cost of Short-Term Debt	10,761,902	<u>7.6329%</u>	2025 Balance Sheet

Schedule D5

Michigan Public Service Commission
Upper Peninsula Power Company
Cost of Common Shareholders' Equity
for the Historical Year Ended, December 31, 2025

Case No.: U-22032
Exhibit No.: A-4 (NEK-5)
Schedule: D5
Page: 1 of 1
Witness: Nicholas E. Kates

Line No.	Description	Adjusted Common Equity	Return On Equity
1			
2	December 2024	166,662,528	
3	January 2025	168,706,054	
4	February 2025	170,366,973	
5	March 2025	167,929,413	
6	April 2025	168,219,461	
7	May 2025	168,365,778	
8	June 2025	167,277,745	
9	July 2025	168,741,197	
10	August 2025	169,362,594	
11	September 2025	167,973,582	
12	October 2025	168,424,501	
13	November 2025	169,133,923	
14	December 2025	169,781,138	
15			
16	Average	168,534,222	9.8600%

Schedule E1

Michigan Public Service Commission
Upper Peninsula Power Company
Annual Service Area Sales by Major Customer Classes and System Output
5-Year Historical

Case No.: U-22032
Exhibit No.: A-5 (NEB-1)
Schedule: E1
Page: 1 of 3
Witness: Nicole E. Bell

Line No.	(a) Year	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Other</u>	<u>Total</u>	<u>Losses and Company Use</u> kWh	% of <u>Sales</u>	System Output kWh
1	2021	267,972,820	153,058,133	260,765,301	2,284,027	684,080,281	45,118,825	6.6%	729,199,106
2	2022	248,164,737	149,396,343	262,991,468	2,307,348	662,859,895	44,144,526	6.7%	707,004,422
3	2023	246,851,941	150,573,467	252,280,469	2,249,564	651,955,441	43,041,574	6.6%	694,997,015
4	2024	247,425,361	150,754,963	266,383,723	2,189,252	666,753,299	43,915,699	6.6%	710,668,997
5	2025	256,074,252	155,114,966	252,907,428	2,200,429	666,297,075	44,133,768	6.6%	710,430,842

Schedule E1

Michigan Public Service Commission
Upper Peninsula Power Company
Annual Bundled Sales by Major Customer Classes and System Output
5-Year Historical

Case No.: U-22032
Exhibit No.: A-5 (NEB-1)
Schedule: E1
Page: 2 of 3
Witness: Nicole E. Bell

Line No.	(a) Year	(b) <u>Residential</u>	(c) <u>Annual Sales</u>			(f) <u>Total</u>	(g) <u>Losses and Company Use</u>		(i) System Output kWh
			(d) <u>Commercial</u>	(e) <u>Industrial</u>	(f) <u>Other</u>		(g) <u>kWh</u>	(h) <u>% of Sales</u>	
1	2021	267,972,820	140,512,583	189,691,029	2,284,027	600,460,459	39,909,311	6.6%	640,369,770
2	2022	248,164,737	133,862,913	195,451,806	2,307,348	579,786,804	38,969,073	6.7%	618,755,877
3	2023	246,851,941	134,659,969	186,158,067	2,249,564	569,919,541	37,930,737	6.7%	607,850,278
4	2024	247,425,361	136,625,125	195,930,056	2,189,252	582,169,794	38,646,146	6.6%	620,815,940
5	2025	256,074,252	141,659,351	182,856,053	2,200,429	582,790,085	38,931,282	6.7%	621,721,367

Schedule E1

Michigan Public Service Commission
Upper Peninsula Power Company
Annual Electric Choice Sales by Major Customer Classes
5-Year Historical

Case No.: U-22032
Exhibit No.: A-5 (NEB-1)
Schedule: E1
Page: 3 of 3
Witness: Nicole E. Bell

	(a)	(b)	(c)	(d)	(e)	(f)
			<u>Annual Sales</u>			
Line						
No.	Year	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Other</u>	<u>Total</u>
1	2021	0	12,545,550	71,074,272	0	83,619,822
2	2022	0	15,533,430	67,539,662	0	83,073,091
3	2023	0	15,913,498	66,122,402	0	82,035,900
4	2024	0	14,129,838	70,453,667	0	84,583,505
5	2025	0	13,455,615	70,051,375	0	83,506,990

Schedule A1

Michigan Public Service Commission
Upper Peninsula Power Company
Revenue Deficiency (Sufficiency)
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-11 (EWS-1)
Schedule: A1
Page: 1 of 1
Witness: Eric W. Stocking

Line No.	(a) Description	(b) Source	(c) Total	(d) Retail	(e) Wholesale
1					
2	Rate Base	Exh. A-12 (NLW-20), Sch. B1	\$ 408,936,523	\$ 403,564,015	\$ 5,372,507
3					
4	Adjusted Net Operating Income	Exh. A-13 (NLW-25), Sch. C1	\$ 13,302,504	\$ 14,103,969	\$ (801,465)
5					
6	Overall Rate of Return	Line 4 ÷ Line 2	3.25 %	3.49%	-14.92%
7					
8	Required Rate of Return	Exh. A-14 (NEK-7), Sch. D1	6.71%	6.71%	6.71%
9					
10	Income Requirements	Line 2 x Line 8	\$ 27,451,909	\$ 27,091,252	\$ 360,656
11					
12	Income Deficiency (Sufficiency)	Line 10 - Line 4	\$ 14,149,405	\$ 12,987,284	\$ 1,162,121
13					
14	Revenue Conversion Factor	Exh. A-13 (NLW-26), Sch. C2	<u>1.3288</u>	<u>1.3288</u>	<u>1.3288</u>
15					
16	Revenue Deficiency (Sufficiency)	Line 12 x Line 14	<u>\$ 18,801,729</u>	<u>\$ 17,257,503</u>	<u>\$ 1,544,226</u>
17					
18	Percentage Increase (Decrease)		13.50%	12.39%	N/A
19					
20	Actual ROE		2.18%	2.76%	
21					
22	Revenue Deficiency (Sufficiency)		\$ 18,801,729	\$ 17,257,503	
23					
24	Present Revenues		\$ 139,291,289	\$ 139,286,255	
25					
26	Percentage Increase (Decrease)		13.50%	12.39%	

Schedule A2

Michigan Public Service Commission
Upper Peninsula Power Company
Financial Metrics - Ratemaking Basis

Case No.: U-22032
Exhibit No.: A-11 (NLW-19)
Schedule: A2
Page: 1 of 3
Witness: Natasha L. Wonch

(a)		(b)	(c)
Line No.	Description	Fiscal Year	
		No Rate Relief December 2027	Full Rate Relief December 2027
1	Operating Revenue	139,291,289	158,093,018
2	Operating Expense	125,591,689	125,591,689
3	Pre-Tax Operating Income	13,699,600	32,501,329
4	Income Taxes	588,428	5,240,752
5	Net Operating Income	13,111,172	27,260,577
6	Tax Impact of Pro-Forma Interest on NOI		
7	AFUDC and Other Income and Deductions	558,618	558,618
8	Interest Charges	(9,986,647)	(9,986,647)
9	Preferred Stock Dividends	—	—
10	Net Income Available for Common and JDITC	3,683,143	17,832,548
11	Return Assignable to JDITC	—	—
12	Net Income Available for Common	3,683,143	17,832,548
13	Average Common Equity	169,028,889	169,028,889
14	Earned Rate of Return on Common Equity	2.18%	10.55%
15	Requested Return on Equity	10.55%	10.55%

Schedule A2

Michigan Public Service Commission
Upper Peninsula Power Company
Financial Metrics - Ratemaking Basis

Case No.: U-22032
Exhibit No.: A-11 (NLW-19)
Schedule: A2
Page: 2 of 3
Witness: Natasha L. Wonch

		(a)	(b)	(c)
Line			Fiscal Year	
No.	Description		No Rate Relief December 2027	Full Rate Relief December 2027
	<u>EBIT Interest Coverage Ratio</u>			
16	Pre-Tax Operating Income		13,699,600	32,501,329
17	AFUDC		489,241	489,241
18	Total EBIT		14,188,841	32,990,570
19	Interest Charges		9,986,647	9,986,647
20	EBIT Interest Coverage Ratio		1.42	3.30
	<u>EBITDA Interest Coverage Ratio</u>			
21	Total EBIT		14,188,841	32,990,570
22	Depreciation and Amortization		18,637,347	18,637,347
23	Total EBITDA		32,826,188	51,627,917
24	Interest Charges		9,986,647	9,986,647
25	EBITDA Interest Coverage Ratio		3.29	5.17
	<u>Funds Flow from Operations (FFO)</u>			
	<u>Interest Coverage Ratio</u>			
26	Net Operating Income		13,111,172	27,260,577
27	Depreciation and Amortization		18,637,347	18,637,347
28	Deferred Income Tax		955,714	4,776,053
29	AFUDC		489,241	489,241
30	Other Major Recurring Non-Cash Items		—	—
31	Interest Paid		9,986,647	9,986,647
	Less:			
32	Operating Lease Adjustment		—	—
33	Subtotal		43,180,122	61,149,866
34	Interest Charges		9,986,647	9,986,647
35	FFO Interest Coverage Ratio		4.32	6.12
	<u>Overall Fixed Charge Coverage Ratio</u>			
36	Net Income Available for Common		3,683,143	17,832,548
37	Interest Charges, Net of Tax Benefit		9,986,647	9,986,647
38	Subtotal Numerator		13,669,790	27,819,195
39	Interest Charges		9,986,647	9,986,647
40	Preferred Stock Dividends		—	—
41	Subtotal Denominator		9,986,647	9,986,647
42	Overall Fixed Charge Coverage Ratio		1.37	2.79

Schedule A2

Michigan Public Service Commission
Upper Peninsula Power Company
Financial Metrics - Ratemaking Basis

Case No.: U-22032
Exhibit No.: A-11 (NLW-19)
Schedule: A2
Page: 3 of 3
Witness: Natasha L. Wonch

		(a)	(b)	(c)
Line			Fiscal Year	
No.	Description		No Rate Relief December 2027	Full Rate Relief December 2027
	<u>Cash Flow Coverage of Dividends Ratio</u>			
43	Net Income Available for Common		3,683,143	17,832,548
44	Depreciation and Amortization		18,637,347	18,637,347
45	Deferred Taxes		955,714	4,776,053
46	Subtotal		23,276,204	41,245,948
47	Common Dividends		—	—
48	Cash Flow Coverage of Dividends Ratio		n/a	n/a
	<u>Common Dividend Payout Ratio</u>			
49	Common Dividends		—	—
50	Net Income Available for Common		3,683,143	17,832,548
51	Common Dividend Payout Ratio		n/a	n/a
	<u>Permanent Capitalization</u>			
52	Long Term Debt (excluding Securitization)		169,100,000	169,100,000
53	Preferred Stock		—	—
54	Common Equity		169,028,889	169,028,889
55	Total Permanent Capital		338,128,889	338,128,889
56	Long Term Debt (Excluding Securitization)		50.01%	50.01%
57	Preferred Stock		-%	-%
58	Common Equity		49.99%	49.99%
59	Total Permanent Capital		100.00%	100.00%

Schedule B1

Michigan Public Service Commission
Upper Peninsula Power Company
Projected Rate Base
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-12 (NLW-20)
Schedule: B1
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Integrated Retail	Wholesale
1					
2	Plant in Service	Exh. A-12 (NLW-21), Sch. B2	547,193,856	540,002,409	7,191,446
3	Plant Held for Future Use	Exh. A-12 (NLW-21), Sch. B2	—	—	—
4	Construction Work in Progress	Exh. A-12 (NLW-21), Sch. B2	12,736,866	12,478,953	257,913
5	Total Utility Plant		559,930,722	552,481,363	7,449,359
6					
7	Less: Depreciation Reserve	Exh. A-12 (NLW-22), Sch. B3	234,957,532	232,192,704	2,764,827
8					
9	Net Utility Plant	Line 5 - Line 7	324,973,190	320,288,658	4,684,532
10					
11	Net Capital Lease Property		—	—	—
12					
13	Total Utility Property and Plant	Line 9 + Line 11	324,973,190	320,288,658	4,684,532
14					
15	Less: Capital Lease Obligations		—	—	—
16					
17	Net Plant	Line 13 + Line 15	324,973,190	320,288,658	4,684,532
18					
19	Allowance for Working Capital	Exh. A-12 (NLW-23), Sch. B4	83,963,333	83,275,357	687,976
20					
21	Total Rate Base	Line 17 + Line 19	408,936,523	403,564,015	5,372,507

Schedule B2

Michigan Public Service Commission
Upper Peninsula Power Company
Total Utility Plant
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-12 (NLW-21)
Schedule: B2
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line		MPSC			
No.	Description	Account No.	Total	Retail	Wholesale
1					
2	Plant in service	101	537,052,569	529,994,403	7,058,165
3	Plant purchased or sold	102	—	—	—
4	Experimental plant unclassified	103	—	—	—
5	Plant leased to others	104	—	—	—
6	Completed construction not classified	106	10,141,287	10,008,006	133,281
7	Plant in Service		547,193,856	540,002,409	7,191,446
8					
9	Plant held for future use	105			
10					
11	Construction work in progress	107	12,736,866	12,478,953	257,913
12					
13	Total Projected Test Period Utility Plant	Line 7 + Line 11	559,930,722	552,481,363	7,449,359

Schedule B3

Michigan Public Service Commission
Upper Peninsula Power Company
Depreciation Reserve and Other Deductions
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-12 (NLW-22)
Schedule: B3
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	Total Historical Period Accumulated Provision for Depreciation	December 2026 - December 2027 Balance Sheet	<u>234,957,532</u>	<u>232,192,704</u>	<u>2,764,827</u>

Schedule B4

Michigan Public Service Commission
Upper Peninsula Power Company
Working Capital
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-12 (NLW-23)
Schedule: B4
Page: 1 of 1
Witness: Natasha L. Wonch

Line No.	(a) Description	(b) Source	(c) Total	(d) Retail	(e) Wholesale
1					
2	<u>Assets</u>				
3					
4	Fuel Stock	December 2026 - December 2027 Balance Sheet	1,959	1,959	—
5	Materials & Supplies	December 2026 - December 2027 Balance Sheet	6,156,486	6,005,236	151,249
6	Customer Advances	December 2026 - December 2027 Balance Sheet	(5,019,463)	(5,019,463)	—
7	Special Deposits (Pension and Benefits)	December 2026 - December 2027 Balance Sheet	30,107,617	29,890,499	217,118
8	Customer Accounts Recievable	December 2026 - December 2027 Balance Sheet	7,802,951	7,746,681	56,270
9	Other Accounts Recievable	December 2026 - December 2027 Balance Sheet	—	—	—
10	Accum Provision Uncollectible Accounts	December 2026 - December 2027 Balance Sheet	(553,351)	(549,360)	(3,990)
11	Accounts Recievable from Assoc Co.	December 2026 - December 2027 Balance Sheet	—	—	—
12	Taxes Recievable Other Co.	December 2026 - December 2027 Balance Sheet	—	—	—
13	Misc and Accrued Assets	December 2026 - December 2027 Balance Sheet	—	—	—
14	Derivative Assets	December 2026 - December 2027 Balance Sheet	31,755	31,526	229
15	Other Deferred Debits	December 2026 - December 2027 Balance Sheet	33,303,261	33,063,098	240,163
16	Unamort Debt Exp.	December 2026 - December 2027 Balance Sheet	21,198,066	21,045,199	152,868
17	Prepayments	December 2026 - December 2027 Balance Sheet	2,910,958	2,871,277	39,681
18	Cash and Bank Balances	December 2026 - December 2027 Balance Sheet	2,316,747	2,304,085	12,663
19	Other	December 2026 - December 2027 Balance Sheet	7,235,156	7,235,156	0
20					
21	Total Assets	Sum of Lines 3 - 21	<u>105,492,143</u>	<u>104,625,893</u>	<u>866,250</u>
22					
23	<u>Liabilities</u>				
24	Def Cr SERP	December 2026 - December 2027 Balance Sheet	(1,557,775)	(1,546,541)	(11,234)
25	Accounts Payable	December 2026 - December 2027 Balance Sheet	(7,293,214)	(7,240,619)	(52,594)
26	Accounts Payable Other	December 2026 - December 2027 Balance Sheet	—	—	—
27	Accrued Interest	December 2026 - December 2027 Balance Sheet	(687,902)	(682,941)	(4,961)
28					
29	Tax Collections Payable	December 2026 - December 2027 Balance Sheet	(193,293)	(191,899)	(1,394)
30	Misc Current and Accrued Liabilities	December 2026 - December 2027 Balance Sheet	(5,230,966)	(5,193,243)	(37,723)
31	Derivative Liabilities	December 2026 - December 2027 Balance Sheet	—	—	—
32	Other Deferred Credits	December 2026 - December 2027 Balance Sheet	(3,703,198)	(3,676,493)	(26,705)
33	Regulatory Liabilities	December 2026 - December 2027 Balance Sheet	(172,236)	(170,994)	(1,242)
34	Taxes	December 2026 - December 2027 Balance Sheet	(2,690,227)	(2,647,805)	(42,422)
35					
36	Total Liabilities	Sum of Lines 27 - 40	<u>(21,528,810)</u>	<u>(21,350,536)</u>	<u>(178,274)</u>
37					
38	Total Projected Test Period Working Capital	Line 22 - Line 41	83,963,333	83,275,357	687,976

Schedule B-5

Upper Peninsula Power Company
Case No. U-22032

Capital Expenditures Exhibit Index

	Title	Witness
<u>hyperlinked</u>	Test Period Capital Expenditures	
A-12 B5	Summary	Natasha L. Wonch
A-12 B5.1 p.1	Power Generation Summary	Virgil E. Schlorke
A-12 B5.1 p.2	Routine and Big	Virgil E. Schlorke
A-12 B5.2	Capital Expenditures - Ship and Train	-
A-12 B5.3 p.1	Nuclear Production Plant & Nuclear Fuel	-
A-12 B5.4 p.1	Distribution Plant	Morgan B. Impola
A-12 B5.4 p.2	Workpaper System Strength/Reliability	Morgan B. Impola
A-12 B5.5	Advanced Metering Infrastructure (AMI)	Gregory S. Gagnon
A-12 B5.6	Corporate Staff Summary	Nicholas E. Kates

Schedule B-5

Michigan Public Service Commission
Upper Peninsula Power Company
Projected Capital Expenditures
Summary

Case No.: U-22032
Exhibit No.: A-12 (NLW-24)
Schedule: B5
Witness: Natasha L. Wonch
Page: 1 of 1

(a)		(b)	(c)	(d)	(e)	(f)	(g)
		Capital Expenditures				Last Rate Case Approved Spending Plan U-21555	Actual Spending Test Year U-21555
Line No.	Description	Historical 12 mos. Ended 12/31/2025	Projected Bridge Period 12 mos. Ending 12/31/2026	Projected Test Year 12 mos. Ending 12/31/2027	Reference	12 mos. Ended 12/31/2025	12 mos. Ended 12/31/2025
1	Production Plant:						
2	Steam	-	-	-	Exh A-12, Sch B5.1	n/a	-
3	Hydraulic	5,974,562	5,362,868	3,612,666	Exh A-12, Sch B5.1	n/a	5,974,562
4	Other	-	-	-	Exh A-12, Sch B5.1	n/a	-
5	Ship / Train	-	-	-	Exh A-12, Sch B5.2	n/a	-
6	Nuclear (Including Nuclear Fuel)	-	-	-	Exh A-12, Sch B5.3	n/a	-
7	Distribution	17,122,064	23,357,000	21,157,000	Exh A-12, Sch B5.4	n/a	17,122,064
8	Automated Metering Infrastructure (AMI)	280,984	814,469	3,544,848	Exh A-12, Sch B5.5	n/a	280,984
9	Corporate Staff	12,900,749	5,112,287	5,221,954	Exh A-12, Sch B5.6	n/a	12,900,749
10	Total Capital Expenditures	<u>36,278,358</u>	<u>34,646,624</u>	<u>33,536,467</u>		<u>-</u>	<u>36,278,358</u>

Schedule B-5.1

Michigan Public Service Commission
Upper Peninsula Power Company
Projected Capital Expenditures
Steam, Hydraulic and
Other Power Generation

Case No.: U-22032
Exhibit No.: A-12 (VES-1)
Schedule: B5.1
Witness: Virgil E. Schlorke
Page: 1 of 2

		(a)	(b)	(c)	(d)	(e)
		Capital Expenditures				
Line No.	Description	Historical	Projected Bridge Year	Projected Test Year	Reference	
		12 mos. Ended 12/31/2025	12 mos. Ending 12/31/2026	12 mos. Ending 12/31/2027		
1	Steam Power Generation					
2	Routine	-	-	-	Exh A-12, B5.1 page 2	
3	Non-Routine Steam Power	-	-	-		
4	Non-Routine Environmental	-	-	-		
5	Total Steam Production	-	-	-		
6	Hydraulic Production Plant					
7	Routine	466,672	760,380	723,672	Exh A-12, B5.1 page 2	
8	Non-Routine	5,507,890	4,602,488	2,888,994		
9	Total Hydraulic Production	5,974,562	5,362,868	3,612,666		
10	Other Production Plant					
11	Routine	-	-	-	Exh A-12, B5.1 page 2	
12	Non-Routine	-	-	-		
13	Total Other Production	-	-	-		
14	Grand Total	5,974,562	5,362,868	3,612,666		

Schedule B-5.1

**Michigan Public Service Commission
Upper Peninsula Power Company
Projected Capital Expenditures
Steam, Hydraulic and
Other Power Generation**

Case No.: U-22032
Exhibit No.: A-12 (VES-1)
Schedule: B5.1
Witness: Virgil E. Schlorke
Page: 2 of 2

	(a)	(b)	(c)	(d)
		Capital Expenditures		
		Historical	Projected Bridge Year	Projected Test
Line No.	Description	12 mos. Ended 12/31/2025	12 mos. Ending 12/31/2026	Year 12 mos. Ending 12/31/2027
	Total Capital - Routine			
1	none	-	-	-
2	Subtotal Steam Power Generation	-	-	-
3	Hydro	466,672	760,380	723,672
4	Total by Plant	466,672	760,380	723,672
5	Total Capital - Big			
6	Victoria Gate Hoist Replacement	18,199.07	11,379.48	524,736.27
7	Victoria - Controls upgrade	405,013.58		
8	Hoist Unit 3 - Penstock Valve Replacement	339,475.76		
9	Victoria Behind Penstock Access	49,262.97	312,935.70	
10	Dead River Concrete Refurbishment (2021 Part 12 req)	17,271.19	11,379.48	1,502,091.36
11	Hoist Penstock Interior Lining Replacement	313,090.14	227,589.60	
12	Prickett Unit 2 Overhaul/Rewind	690,722.60		
13	Inundation Mapping	217,084.75		
14	Prickett Intake Refurbishment	235,738.50	3,812,125.80	28,448.70
15	McClure Unit 1 Runner Replacement	254,314.17		
16	Generation LAND only (Utility)	269,833.24		
17	McClure Substation Refurbishment	2,287,112.04		
18	Hoist Powerhouse Walkway Replacement	256,022.78		
19	Dam refurbishment (column repairs and sill replacement)		11,379.48	91,035.84
20	Generator Fan		11,379.48	113,794.80
21	Victoria Road Resurfacing (phase 1 - 2027, phase 2 - 2028)			341,384.40
22	Total by Major Project	5,353,141	4,398,169	2,601,491

Schedule B-5.4

Michigan Public Service Commission
Upper Peninsula Power Company
Projected Capital Expenditures
Distribution Plant

Case No.: U-22032
Exhibit No.: A-12 (MBI-1)
Schedule: B5.4
Witness: Morgan B. Impola
Page: 1 of 2

	(a)	(b)	(c)	(d)
		Capital Expenditures		
		Historical	Projected Bridge Year	Projected Test
Line No.	Description	12 mos. Ended 12/31/2025	12 mos. Ending 12/31/2026	Year 12 mos. Ending 12/31/2027
	Capital Expenditures			
1	<u>New Business:</u>			
2	Customer Connections	1,161,348	986,500	1,025,000
3	Meters	-	-	-
4	Transformers	3,326,392	3,000,000	3,000,000
5	Customer Advances for Construction	2,294,511	1,347,500	1,437,000
6	Total New Business	6,782,250	5,334,000	5,462,000
7	<u>System Strengthening and Reliability:</u>			
8	Reliability	4,615,624	12,584,000	5,770,000
9	General Load Growth	-	-	-
10	New Business Specific Projects	-	100,000	-
11	Major Equipment	906,734	625,000	550,000
12	Substation/Station Improvement	-	100,000	100,000
13	Customer Advances for Construction	-	-	-
14	Subtotal System Strengthening and Reliability	5,522,358	13,409,000	6,420,000
15	<u>System Strengthening Blankets:</u>			
16	Increased Loads	-	-	-
17	System Improvements	-	354,000	4,175,000
18	Relocations	-	-	-
19	Normal Retirement Unit Changeouts	2,377,497	2,000,000	2,750,000
20	Emergency Retirement Unit Changeouts and Storm	-	-	-
21	Subtotal System Strengthening Blankets	2,377,497	2,354,000	6,925,000
22	Total System Strengthening, Reliability and Blankets	7,899,855	15,763,000	13,345,000
23	<u>Miscellaneous</u>			
24	Other Miscellaneous	2,439,959	2,260,000	2,350,000
25	Total Capital	17,122,064	23,357,000	21,157,000

Schedule B-5.4

Michigan Public Service Commission
Upper Peninsula Power Company
Projected Capital Expenditures
WORKPAPER SYSTEM STRENGTH/RELIABILITY

Case No.: U-22032
Exhibit No.: A-12 (MBI-1)
Schedule: B5.4
Witness: Morgan B. Impola
Page: 2 of 2

		(a)	(b)	(c)	(d)
		Capital Expenditures			
Line No.	Description	Historical	Projected Bridge Year	Projected Test Year	
		12 mos. Ended 12/31/2025	12 mos. Ending 12/31/2026	12 mos. Ending 12/31/2027	
Capital Expenditures					
1	System Strengthening and Reliability:				
	Projects Over \$5 million dollars (with spend in test year)				
2	18th Road Substation	311,659	5,200,000	-	
	Projects Under \$5 Million				
3	Reliability	4,303,966	7,384,000	5,770,000	
4	New Business Specific Projects	-	100,000	-	
5	Major Equipment	906,734	625,000	550,000	
6	Substation/Station Improvement	-	100,000	100,000	

Schedule B-5.5

Michigan Public Service Commission
Upper Peninsula Power Company
Projected Capital Expenditures
Advanced Metering Infrastructure (AMI)

Case No.: U-22032
Exhibit No.: A-12 (GSG-1)
Schedule: B5.5
Witness: Gregory S. Gagnon
Page: 1 of 1

		(a)	(b)	(c)	(d)
		Capital Expenditures			
Line No.	Description	Historical	Projected Bridge Year	Projected Test Year	
		12 mos. Ended 12/31/2025	12 mos. Ending 12/31/2026	12 mos. Ending 12/31/2027	
1	Advanced Metering Infrastructure				
2	Meters	203,987	300,000	300,000	
3	Network	76,997	514,469	3,244,848	
4	Project Management Office	-	-	-	
5	Information Technology	-	-	-	
6	Corporate Overheads/Other	-	-	-	
7	Total AMI Capital Expenditures	280,984	814,469	3,544,848	

Schedule B-5.6

Michigan Public Service Commission
Upper Peninsula Power Company
Projected Capital Expenditures
Corporate Staff

Case No.: U-22032
Exhibit No.: A-12 (NEK-6)
Schedule: B5.6
Witness: Nicholas E. Kates
Page: 1 of 1

(a)		(b)	(c)	(d)
		Capital Expenditures		
Line No.	Description	Historical	Projected Bridge Year	Projected Test Year
		12 mos. Ended 12/31/2025	12 mos. Ending 12/31/2026	12 mos. Ending 12/31/2027
1	Information Technology:			
2	Corporate Applications	284,230	160,138	-
3	Customer Service	530,174	600,000	50,000
4	Plant & Field	1,873,086	518,763	1,183,044
5	Shared Infrastructure	638,199	583,386	715,910
6	Subtotal Information Technology	3,325,690	1,862,287	1,948,954
7	NERC-Critical Infrastructure Program	145,025	-	-
8	Facilities Renovation	-	-	-
9	Service Center Optimization	6,667,594	-	-
10	Facilities-Construction & Upgrade	530,377	750,000	772,500
11	Electric Vehicle Fleet	-	-	-
12	Other Miscellaneous	2,232,062	2,500,000	2,500,500
13	Total Corporate Staff	12,900,749	5,112,287	5,221,954

Schedule C1

Michigan Public Service Commission
Upper Peninsula Power Company
Adjusted Net Operating Income
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-13 (NLW-25)
Schedule: C1
Page: 1 of 2
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	Operating Revenues	Exh. A-13 (NLW-27), Sch. C3	139,291,289	139,286,255	5,034
3					
4	Operating Expenses				
5	Fuel and Purchased Power (Electric Only)	Exh. A-13 (NLW-28), Sch. C4	48,112,158	48,112,158	—
6	Operations and Maintenance Expenses	Exh. A-13 (NLW-29), Sch. C5	48,396,946	47,668,291	728,655
7	Depreciation and Amortization	Exh. A-13 (NLW-30), Sch. C6	18,637,347	18,379,877	257,470
8	General Taxes	Exh. A-13 (NLW-31), Sch. C7	10,445,238	10,296,733	148,506
9	Income Taxes	Exh. A-13 (NLW-32 & 33), Sch. C8 & C9	955,714	1,280,243	(324,529)
10	Total Operating Expenses	Sum of Lines 5 - 9	126,547,403	125,737,302	810,100
11					
12	Operating Income	Line 2 - Line 10	12,743,886	13,548,952	(805,067)
13					
14	Operating Income Adjustments				
15	Allowance For Funds Used During Construction	Exh. A-8 (NLW-36), Sch C11	494,640	489,241	5,399
16	Interest Income on Customer Accounts	Projected Income Statement	24,621	24,271	350
17	Income Tax Effect of Interest	Exh. A-8 (NLW-?), Sch. C12	39,259	41,407	(2,148)
18	Interest Synchronization Adjustment	Exh. A-13 (NLW-25), Sch. C1 page 2	98	97	1
19	Total Operating Income Adjustments	Sum of Lines 15 - 19	558,618	555,016	3,602
20					
21	Adjusted Net Operating Income	Line 12 - Line 20	13,302,504	14,103,969	(801,465)

Schedule C1

Michigan Public Service Commission
Upper Peninsula Power Company
Actual Net Operating Income
Projected 12 Month Period Ending December 31, 2027
Net Operating Income

Case No.: U-22032
Exhibit No.: A-13 (NLW-25)
Schedule: C1
Page: 2 of 2
Witness: Natasha L. Wonch

Interest Synchronization Calculation

Line	Description	Source	Total	Retail	Wholesale
1	Rate Base	Exh. A-12 (NLW-20), Sch. B1	408,936,523	403,564,015	5,372,507
2	% of Capital Represented by Debt	Exh. A-14 (NEK-7), Sch. D1	50.8757%	50.8757%	50.8757%
3	Portion of Rate Base Funded by Debt	Line 1 x Line 2	208,049,506	205,316,203	2,733,303
4					
5	Cost of Debt	Exh. A-14 (NEK-7), Sch. D1	4.8002%	4.8002%	4.8002%
6	Interest Allowed	Line 3 x Line 5	9,986,777	9,855,573	131,204
7					
8	Interest Deduction on Taxes	Exh. A-13 (NLW-32), Sch. C8	9,986,647	9,855,445	131,202
9					
10	Add Interest Deduct	Line 6 - Line 8	130	128	2
11					
12	Affect of Interest Allowed		97.93	96.65	1.29

Schedule C2

Michigan Public Service Commission
Upper Peninsula Power Company
Projected Revenue Conversion Factor
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-13 (NLW-26)
Schedule: C2
Page: 1 of 1
Witness: Natasha L. Wonch

Line	Description	Calculations	Amount
1			
2	Income Before Income Taxes		100.000%
3			
4	Michigan Corporate Income Tax	Exh. A-13 (NLW-33), Sch. C9	4.740%
5			
6	Subtotal of State Income Tax	Line 4 + Line 6	4.740%
7			
8	Federal Income Tax Base	Line 2 - Line 8	95.260%
9			
10	Federal Income Tax Rate	Exh. A-13 (NLW-32), Sch. C8	21.000%
11			
12	Effective Federal Income Tax	Line 10 * Line 12	20.005%
13			
14	Income After Taxes	Line 10 - Line 14	75.255%
15			
16	Gross Revenue Conversion Factor	Line 2 / Line 16	1.3288

Schedule C3

Michigan Public Service Commission
Upper Peninsula Power Company
Projected Operating Revenue
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-13 (NLW-27)
Schedule: C3
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	Present Revenues	Projected Income Statement	134,896,542	134,896,542	—
3					
4	Other Adjustments	Projected Income Statement	4,394,747	4,389,713	5,034
5					
6	Total Revenue	Line 2 + Line 4	139,291,289	139,286,255	5,034

Schedule C4

Michigan Public Service Commission
Upper Peninsula Power Company
Projected Fuel and Purchased Power
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-13 (NLW-28)
Schedule: C4
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	Fuel	Projected Income Statement	25,461	25,461	—
3	Purchased Power	Projected Income Statement	36,400,791	36,400,791	—
4	Transmission (PSCR Related)	Projected Income Statement	11,685,906	11,685,906	—
5					
6	Total Production		<u>48,112,158</u>	<u>48,112,158</u>	<u>—</u>

Schedule C5

Michigan Public Service Commission
Upper Peninsula Power Company
Projected Operation and Maintenance Expenses
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-13 (NLW-29)
Schedule: C5
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	Operation and Maintenance Expenses:				
3	Production	Projected Income Statement	3,595,404	3,595,404	—
4	Distribution	Projected Income Statement	21,699,380	21,224,586	474,795
5	Transmission (Non PSCR Related)	Projected Income Statement	—	—	—
6	Customer Accounts	Projected Income Statement	2,460,747	2,460,747	—
7	Customer Service	Projected Income Statement	1,576,842	1,576,842	—
8	Sales	Projected Income Statement	—	—	—
9	Administrative and General	Projected Income Statement	19,064,573	18,810,713	253,860
10					
11	Total Operation and Maintenance Expenses		<u>48,396,946</u>	<u>47,668,291</u>	<u>728,655</u>

Schedule C6

Michigan Public Service Commission
Upper Peninsula Power Company
Depreciation and Amortization Expense
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-13 (NLW-30)
Schedule: C6
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	Depreciation and Amortization Expense				
3	Depreciation & Amortization Expense	Projected Income Statement	18,637,347	18,379,877	257,470
4	Other Amortization Expense	Projected Income Statement	—	—	—
5					
6	Total Depreciation and Amortization Expense	Line 3 + Line 4	<u>18,637,347</u>	<u>18,379,877</u>	<u>257,470</u>

Schedule C7

Michigan Public Service Commission
Upper Peninsula Power Company
General Taxes
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-13 (NLW-31)
Schedule: C7
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	Taxes Other Than Income Taxes				
3					
4	FEDERAL				
5	Retirement Benefits	Projected Income Statement	—	—	—
6	Unemployment Comp	Projected Income Statement	—	—	—
7	Super Fund Tax	Projected Income Statement	—	—	—
8	Highway Use Tax				
9					
10	STATE				
11	Gross Receipts Tax				
12	Unemployment Comp	Projected Income Statement	—	—	—
13	Unitary Fees	Projected Income Statement	—	—	—
14	Use Tax	Projected Income Statement	—	—	—
15	Unauthor Ins Tax	Projected Income Statement	—	—	—
16	Wis Recycling Fee	Projected Income Statement	—	—	—
17	Single Business Tax	Projected Income Statement	—		
18	Property	Projected Income Statement	8,993,303	8,865,440	127,863
19					
20	LOCAL				
21	Real Est & Property				
22					
23	IBS				
24	Payroll Taxes	Projected Income Statement	1,451,935	1,431,293	20,643
25					
26	OTHER				
27	Franchise Tax Fees		—		
28					
29	Total Taxes Other Than Income Taxes	Sum of Lines 5 - 27	<u>10,445,238</u>	<u>10,296,733</u>	<u>148,506</u>

Schedule C8

Michigan Public Service Commission
Upper Peninsula Power Company
Federal Income Taxes
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-13 (NLW-32)
Schedule: C8
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Integrated Retail	Wholesale
	Federal				
1	Book Income Before Taxes & Interest	Exh. A-13 (NLW-25), Sch. C1	13,699,600	14,829,196	(1,129,596)
2	Interest Expense	Line 22	9,986,647	9,855,445	131,202
3	Income Reconciliation	Line 33	(17,632,698)	(17,376,670)	(256,028)
4	Taxable Income	Line 1 - Line 2 + Line 3	(13,919,745)	(12,402,919)	(1,516,826)
5					
6	Tax Rate		21.0000%	21.0000%	21.0000%
7					
8	Taxes Calculated	Line 4 * Line 6	(2,923,146)	(2,604,613)	(318,533)
9	TCJA Calc C	(939,258)	—	—	—
10	Tax Liability	Line 8 + Line 9	(2,923,146)	(2,604,613)	(318,533)
11					
12	Net Tax Adjustment	Line 43	3,791,625	3,719,466	72,159
13					
14	Taxes Allowable	Line 10 + Line 12	<u>868,478</u>	<u>1,114,853</u>	<u>(246,375)</u>
15					
16					
17					
18					
19	Interest Calc				
20	Rate Base	Exh. A-12 (NLW-20), Sch. B1	408,936,523	403,564,015	5,372,507
21	x Weighted Cost of Debt	Exh. A-14 (NEK-7), Sch. D1	2.4421%	2.4421%	2.4421%
22	Interest Expense		9,986,647	9,855,445	131,202
23					
24					
25	Net Income Additions/Deductions	Allocated on			
26	State Tax Liability		422,657	335,072	87,585
27	Energy	Energy	—	—	—
28	Rate Base	Rate Base	112,831	111,225	1,606
29	Demand	CP Less Interruptible	50,595	50,595	—
30	Distribution Plant	Distribution Plant	(15,380,740)	(15,075,871)	(304,869)
31	Customer	Customer	—	—	—
32	General & Common	Salaries and Wages	(2,838,041)	(2,797,691)	(40,350)
33	Total Additions/Deductions		<u>(17,632,698)</u>	<u>(17,376,670)</u>	<u>(256,028)</u>
34					
35					
36	Deferred Expense				
37	Energy	Energy	—	—	—
38	Rate Base	Rate Base	(23,695)	(23,357)	(337)
39	Demand	CP Less Interruptible	(10,625)	(10,625)	—
40	Distribution Plant	Distribution Plant	3,229,955	3,165,933	64,022
41	Customer	Customer	—	—	—
42	General & Common	Salaries and Wages	595,989	587,515	8,473
43	Total Deferreds		<u>3,791,625</u>	<u>3,719,466</u>	<u>72,159</u>

Schedule C9

Michigan Public Service Commission
Upper Peninsula Power Company
State Income Taxes
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-13 (NLW-33)
Schedule: C9
Page: 1 of 1
Witness: Natasha L. Wonch

Line No.	(a) Description	(b) Source	(c) Total	(d) Retail	(e) Wholesale
	Michigan State Taxes				
1	Book Income Before Taxes & Interest	Exh. A-13 (NLW-25), Sch. C1	13,699,600	14,829,196	(1,129,596)
2	Interest Expense	Line 22	9,986,647	9,855,445	131,202
3	Income Reconciliation	Line 32	(10,757,243)	(10,558,290)	(198,953)
4	Taxable Income	Line 1 - Line 2 + Line 3	(7,044,290)	(5,584,539)	(1,459,752)
5					
6	Tax Rate		6.00000%	6.00000%	6.00000%
7					
8	Taxes Calculated	Line 4 * Line 6	(422,657)	(335,072)	(87,585)
9			—	—	—
10	Tax Liability	Line 8 + Line 9	(422,657)	(335,072)	(87,585)
11					
12	Net Tax Adjustment	Line 42	509,893	500,463	9,430
13					
14	Taxes Allowable	Line 10 + Line 12	<u>87,236</u>	<u>165,391</u>	<u>(78,155)</u>
15					
16					
17					
18					
19	Interest Calc				
20	Rate Base	Exh. A-12 (NLW-20), Sch. B1	408,936,523	403,564,015	5,372,507
21	x Weighted Cost of Debt	Exh. A-14 (NEK-7), Sch. D1	2.4421%	2.4421%	2.4421%
22	Interest Expense		9,986,647	9,855,445	131,202
23					
24					
25	Net Income Additions/Deductions	Allocated on			
26	Energy	Energy	—	—	—
27	Rate Base	Rate Base	112,831	111,225	1,606
28	Demand	CP Less Interruptible	50,595	50,595	—
29	Distribution Plant	Distribution Plant	(8,082,628)	(7,922,419)	(160,209)
30	Customer	Customer	—	—	—
31	General & Common	Salaries and Wages	(2,838,041)	(2,797,691)	(40,350)
32	Total Additions/Deductions		<u>(10,757,243)</u>	<u>(10,558,290)</u>	<u>(198,953)</u>
33					
34					
35	Deferred Expense	Allocated on			
36	Energy	Energy	—	—	—
37	Rate Base	Rate Base	(5,348)	(5,272)	(76)
38	Demand	CP Less Interruptible	(2,398)	(2,398)	—
39	Distribution Plant	Distribution Plant	383,117	375,523	7,594
40	Customer	Customer	—	—	—
41	General & Common	Salaries and Wages	134,523	132,611	1,913
42	Total Deferreds		<u>509,893</u>	<u>500,463</u>	<u>9,430</u>

Schedule C10

Michigan Public Service Commission
Upper Peninsula Power Company
Other (or Local) Taxes
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-13 (NLW-34)
Schedule: C10
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2					

Schedule C11

Michigan Public Service Commission
Upper Peninsula Power Company
Allowance for Funds Used During Construction
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-13 (NLW-35)
Schedule: C11
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	AFUDC Debt	Projected Income Statement	171,181	169,313	1,868
3	AFUDC Equity		323,459	319,929	3,530
4					
5	Total AFUDC	Line 2 + Line 3	<u>494,640</u>	<u>489,241</u>	<u>5,399</u>

Schedule C12

Michigan Public Service Commission
Upper Peninsula Power Company
Income Tax Effect of Interest
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-13 (NLW-36)
Schedule: C12
Page: 1 of 1
Witness: Natasha L. Wonch

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Total	Retail	Wholesale
1					
2	Rate Base	Exh. A-12 (NLW-20), Sch. B1	408,936,523	403,564,015	5,372,507
3	Weighted cost of debt	Exh. A-14 (NEK-7), Sch. D1	2.4421 %	2.4421 %	2.4421 %
4	Allowable interest expense	Line 1 * Line 2	9,986,647	9,855,445	131,202
5	Actual interest expense	Exh. A-14 (NEK-9), Sch. D3	9,827,989	9,688,106	139,884
6	Increase/(decrease) in allowable interest deduction	Line 3 - Line 4	158,658	167,340	(8,682)
7	Impact on taxable income	Line 5*-1 Line 6 * 4.24% State Income Tax Rate	(158,658)	(167,340)	8,682
8	Impact on state income taxes	Rate	(7,520)	(7,932)	412
9	Impact on federal taxable income	Line 6 - Line 8 Line 9* 21% Federal Income Tax Rate	(151,137)	(159,408)	8,270
10	Impact on federal income tax	Rate	(31,739)	(33,476)	1,737
11	Total impact on net operating income	(Line 8 + Line 10)+-1	39,259	41,407	(2,148)

Schedule D1

Michigan Public Service Commission
Upper Peninsula Power Company
Overall Rate of Return Summary
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-14 (NEK-7)
Schedule: D1
Page: 1 of 1
Witness: Nicholas E. Kates

Line No.	(a) Description	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
		Capital Structure			Cost Rate %	Weighted Cost			Pre-Tax Return	Percent Capital Incl ST	Weighted Cost Incl ST
		Amount (1)	Percent Capital	Percent of Total Capital		Capital	Total Cost %	Conversion Factor			
1											
2	Long-Term Debt	169,100,000	50.01%	41.35%	4.5327% (2)	2.27%	1.8743%		1.8743%	44.84%	2.0327%
3											
4	Preferred Stock	—	-%	-%	-% (4)	-%	-%		-%	-%	-%
5											
6	Common Shareholders' Equity	169,028,889	49.99%	41.33%	10.5500% (5)	5.27%	4.3607%	1.3288	5.7945%	44.83%	4.7291%
7											
8	Total Permanent Capital	<u>338,128,889</u>	<u>100.00%</u>			<u>7.54%</u>					
9											
10	Short-Term Debt	38,949,506		9.52%	5.9614% (3)		0.5678%		0.5678%	10.33%	0.6158%
11											
12	Job Development - ITC - Debt										
13	Job Development - ITC - Equity										
14	Total Job Development - ITC	—		-%							
15											
16	Deferred Investment Tax Credit	—		-%		-%	-%		-%		
17											
18	Deferred Income Taxes (Net) - Federal	36,836,265		9.01%		-%	-%		-%		
19											
20	Capital Structure Adj	(4,978,138)		-1.22%		7.38%	-0.0898%		-0.0898%		
21											
22	Total	<u>408,936,522</u>		<u>100.00%</u>		<u>6.7130%</u>			<u>8.1468%</u>	<u>100.00%</u>	<u>7.3776%</u>

- (1) See Exh. A-12, Sch. B1
(2) See Exh. A-14, Sch. D2
(3) See Exh. A-14, Sch. D3
(4) See Exh. A-14, Sch. D4
(5) See Exh. A-14, Sch. D5

Schedule D2

Michigan Public Service Commission
Upper Peninsula Power Company
Cost of Long-Term Debt
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-14 (NEK-8)
Schedule: D2
Page: 1 of 1
Witness: Nicholas E. Kates

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
Line No.	Description	Original Issue Date	Stated Maturity Date	Interest Rate (%)	Amount of Offering (\$000)	Price to Public	Underwriting & Financing Expenses (%)	Net Proceeds to the Company (%)	Cost Based on Net Proceeds (%)	Amount Outstanding (\$000)	Annual Cost (\$000)
1											
2	Mortgage Bonds										
3	-----										
4	-----										
5	Total Mortgage Bonds				<u>\$ —</u>					<u>\$ —</u>	<u>\$ —</u>
6											
7	Long Term Debt										
8	3.59% Senior Secured Fixed Rate Notes	6/3/2021	6/3/2051	3.59%	\$ 127,100,000 (1)		\$ 1,893,744	\$ 127,100,000	3.59%	\$ 127,100,000	\$ 4,562,890
9											
10	5.02% Senior Secured Fixed Rate Notes	11/22/2024	11/22/2027	5.02%	\$ 42,000,000 (1)		\$ 372,286	\$ 42,000,000	5.02%	\$ 42,000,000	\$ 2,108,400
11	Total Long Term Debt				<u>\$ 169,100,000</u>					<u>\$ 169,100,000</u>	<u>\$ 6,671,290</u>
12											
13											
14	Amortization of Loss on Recquired Debt										\$ 806,317 (2)
15	Amortization of Debt Disc and Exp										\$ 187,220 (3)
16	Adjustment to Booked Interest										\$ —
17	-----										
18	Total Interest Expense										<u>\$ 7,664,827</u>
19											
20	Unamortized Debt Expense									\$ 1,478,699 (4)	
21	Unamortized Loss on Recquired Debt									<u>\$ 18,887,986</u> (4)	
22											
23	Total Long-Term Debt Balance (13 mo.)									<u>\$ 169,100,000</u> (4)	<u>4.5327%</u>

(1) See Balance Sheet

(2) See Income Statement

(3) See Workpaper: 'WP-Debt Fees'

(4) See Balance Sheet

Schedule D3

Michigan Public Service Commission
Upper Peninsula Power Company
Cost of Short-Term Debt
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-14 (NEK-9)
Schedule: D3
Page: 1 of 1
Witness: Nicholas E. Kates

Line No.	(a) Month	(b) Balance Outstanding	(c) Total Cost	(d) Source
1				
2	Commerical Paper	—	—	
3				
4	Inter-Company Loans	—	—	
5				
6	Letter of Credit	—	—	
7				
8	Other:			
9	Revolving Credit Facility	313,408	61,500	
10	Commitment Fees		33,091	Exh. A-53 (NEK-16)
11	Credit Rating Fees		48,654	
12	Line of Credit Fees		15,543	
13				
14	Total Fees	313,408	<u>158,788</u>	
15				
16	Interest Expense		2,163,162	
17				
18	Total Interest		<u>2,163,162</u>	
19				
20	Total Fees and Interest		<u>2,321,950</u>	
21				
22	Average Cost of Short-Term Debt	38,949,506	<u><u>5.9614%</u></u>	

Michigan Public Service Commission
Upper Peninsula Power Company
Cost of Preferred Stock
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-14 (NEK-10)
Schedule: D4
Page: 1 of 1
Witness: Nicholas E. Kates

[illegible]

Schedule D5

Michigan Public Service Commission
Upper Peninsula Power Company
Cost of Common Shareholders' Equity
Projected 12 Month Period Ending December 31, 2027

Case No.: U-22032
Exhibit No.: A-14 (NEK-11)
Schedule: D5
Page: 1 of 1
Witness: Nicholas E. Kates

Line No.	Description	Adjusted Common Equity	Return On Equity
1			
2	December 2026	171,755,703	
3	January 2027	171,969,935	
4	February 2027	172,031,925	
5	March 2027	170,234,919	
6	April 2027	170,196,862	
7	May 2027	170,171,977	
8	June 2027	168,338,256	
9	July 2027	168,417,010	
10	August 2027	168,486,981	
11	September 2027	166,717,043	
12	October 2027	166,812,449	
13	November 2027	166,937,943	
14	December 2027	165,304,556	
15			
16	Average	169,028,889	10.5500%

Schedule E1

Michigan Public Service Commission
Upper Peninsula Power Company
Annual Service Area Sales by Major Customer Classes and System Output
5-Year Projected

Case No.: U-22032
Exhibit No.: A-15 (NEB-2)
Schedule: E1
Page: 1 of 5
Witness: Nicole E. Bell

Line No.	(a) Year	(b) <u>Annual Sales</u>				(g) <u>Losses and Company Use</u>			(i) System Output kWh
		(b) <u>Residential</u>	(c) <u>Commercial</u>	(d) <u>Industrial</u>	(e) <u>Other</u>	(f) <u>Total</u>	(g) <u>kWh</u>	(h) <u>% of Sales</u>	
1	2027	252,663,940	148,597,877	256,068,980	2,188,500	659,519,297	43,534,388	6.6%	703,053,685
2	2028	252,629,591	147,868,846	256,068,980	2,188,500	658,755,917	43,486,829	6.6%	702,242,746
3	2029	252,594,714	147,139,843	256,068,980	2,188,500	657,992,037	43,439,240	6.6%	701,431,276
4	2030	252,559,831	146,410,840	256,068,980	2,188,500	657,228,151	43,391,650	6.6%	700,619,800
5	2031	252,524,948	145,681,837	256,068,980	2,188,500	656,464,265	43,344,059	6.6%	699,808,324

Schedule E1

Michigan Public Service Commission
Upper Peninsula Power Company
Annual Bundled Sales by Major Customer Classes and System Output
5-Year Projected

Case No.: U-22032
Exhibit No.: A-15 (NEB-2)
Schedule: E1
Page: 2 of 5
Witness: Nicole E. Bell

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
			<u>Annual Sales</u>				<u>Losses and Company Use</u>		
Line									System
No.	Year	Residential	Commercial	Industrial	Other	Total	kWh	% of Sales	Output kWh
1	2027	252,663,940	135,142,262	186,017,605	2,188,500	576,012,307	38,331,902	6.7%	614,344,209
2	2028	252,629,591	134,413,231	186,017,605	2,188,500	575,248,927	38,284,344	6.7%	613,533,271
3	2029	252,594,714	133,684,228	186,017,605	2,188,500	574,485,047	38,236,754	6.7%	612,721,801
4	2030	252,559,831	132,955,225	186,017,605	2,188,500	573,721,161	38,189,164	6.7%	611,910,325
5	2031	252,524,948	132,226,222	186,017,605	2,188,500	572,957,275	38,141,574	6.7%	611,098,849

Schedule E1

Michigan Public Service Commission
Upper Peninsula Power Company
Annual Electric Choice Sales by Major Customer Classes
5-Year Projected

Case No.: U-22032
Exhibit No.: A-15 (NEB-2)
Schedule: E1
Page: 3 of 5
Witness: Nicole E. Bell

	(a)	(b)	(c)	(d)	(e)	(f)
			<u>Annual Sales</u>			
Line						
No.	Year	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Other</u>	<u>Total</u>
1	2027	0	13,455,615	70,051,375	0	83,506,990
2	2028	0	13,455,615	70,051,375	0	83,506,990
3	2029	0	13,455,615	70,051,375	0	83,506,990
4	2030	0	13,455,615	70,051,375	0	83,506,990
5	2031	0	13,455,615	70,051,375	0	83,506,990

Schedule E1

Michigan Public Service Commission
Upper Peninsula Power Company
Annual Service Area System Output,
Maximum Demand and Load Factor

Case No.: U-22032
Exhibit No.: A-15 (NEB-2)
Schedule: E1
Page: 4 of 5
Witness: Nicole E. Bell

	(a)	(b)	(c)	(d)
Line No.	Year	<u>System Output (kWh)</u>	<u>Maximum Demand (kW)</u>	<u>Annual Load Factor (%)</u>
1	2021	729,199,106	154.20	54.0%
2	2022	707,004,422	152.80	52.8%
3	2023	694,997,015	138.80	57.2%
4	2024	710,668,997	145.70	55.7%
5	2025	710,430,842	153.20	52.9%
6				
7	2027	703,053,685	145.60	55.1%
4	2028	702,242,746	145.60	55.1%
8	2029	701,431,276	145.60	55.0%
9	2030	700,619,800	145.60	54.9%
10	2031	699,808,324	145.60	54.9%

Schedule E1

Michigan Public Service Commission
Upper Peninsula Power Company
Annual Bundled System Output,
Maximum Demand and Load Factor

Case No.: U-22032
Exhibit No.: A-15 (NEB-2)
Schedule: E1
Page: 5 of 5
Witness: Nicole E. Bell

	(a)	(b)	(c)	(d)
Line		<u>System</u>	<u>Maximum</u>	<u>Annual</u>
<u>No.</u>	<u>Year</u>	<u>Output</u>	<u>Demand</u>	<u>Load</u>
		<u>(kWh)</u>	<u>(kW)</u>	<u>Factor</u>
				<u>(%)</u>
1	2021	654,318,367	141.1	52.9%
2	2022	622,720,500	138.1	51.5%
3	2023	608,332,930	123.7	56.2%
4	2024	626,239,134	131.0	54.6%
5	2025	627,150,086	137.5	52.1%
6				
7	2027	614,344,209	130.1	53.9%
4	2028	613,533,271	130.1	53.8%
8	2029	612,721,801	130.1	53.8%
9	2030	611,910,325	130.1	53.7%
10	2031	611,098,849	130.1	53.6%

Michigan Public Service Commission
Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

COS Without Minimum System		ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION	
SCH ID	LINE NO.	DESCRIPTION							
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
SUM	1	SUMMARY AT PRESENT RATES	Reference						
SUM	2								
SUM	3	DEVELOPMENT OF RETURN							
SUM	4								
SUM	5	OPERATING REVENUE							
SUM	6	Base Sales of Electricity	SCH , LN	128,122,723	71,105,776	890,816	41,498,244	935,918	13,691,969
SUM	7	Other Operating Revenue	SCH , LN	11,163,532	4,749,409	74,489	3,653,663	483,147	2,202,824
SUM	8	TOTAL OPERATING REVENUE		139,286,255	75,855,185	965,305	45,151,907	1,419,065	15,894,793
SUM	9								
SUM	10	OPERATING EXPENSES							
SUM	11	Operation & Maintenance Expense - Fuel & PP	SCH , LN	36,426,252	14,269,597	136,486	12,587,193	1,746,978	7,685,997
SUM	12	Operation and Maintenance Expense - Non Fuel	SCH , LN	59,354,197	35,707,890	315,633	17,961,840	473,199	4,895,635
SUM	13	Depreciation and Amortization Expense	SCH , LN	18,379,877	11,153,801	203,284	5,589,343	184,215	1,249,234
SUM	14	Taxes Other Than Income Taxes	SCH , LN	10,296,733	6,343,609	129,304	3,121,879	85,695	616,247
SUM	15	State and Federal Income Taxes	SCH , LN	1,280,244	610,795	22,156	726,677	(294,580)	215,196
SUM	16	TOTAL OPERATING EXPENSES		125,737,302	68,085,692	806,862	39,986,931	2,195,507	14,662,309
SUM	17								
SUM	18	OPERATING INCOME (RETURN)		13,548,953	7,769,493	158,442	5,164,976	(776,443)	1,232,484
SUM	19								
SUM	20	OPERATING INCOME ADJUSTMENTS							
SUM	21	AFUDC	TOTPLT	489,241	300,102	6,684	148,846	4,111	29,498
SUM	22	Income Tax Effect of Interest & Customer Interest	RATEBASE	65,678	40,034	630	20,449	489	4,076
SUM	23	Interest Synchronization Adjustment	RATEBASE	97	59	1	30	1	6
SUM	24	TOTAL OPERATING INCOME ADJUSTMENTS		555,016	340,195	7,315	169,325	4,601	33,580
SUM	25	ADJUSTED OPERATING INCOME (RETURN)		14,103,969	8,109,688	165,758	5,334,301	(771,841)	1,266,064
SUM	26								
SUM	27								
SUM	28	DEVELOPMENT OF RATE BASE							
SUM	29	Electric Plant in Service	SCH , LN	540,002,409	331,238,857	7,377,975	164,289,438	4,537,698	32,558,441
SUM	30	Less: Depreciation & Amortization Reserve	SCH , LN	232,192,704	139,076,159	3,779,388	70,659,993	2,414,865	16,262,299
SUM	31	Plus: Plant Held for Future Use	SCH , LN	0	0	0	0	0	0
SUM	32	Plus: Constuction Work In Progress	SCH , LN	12,478,953	7,602,867	158,011	3,799,597	115,490	802,988
SUM	33	Plus: Fuel Stock	SCH , LN	1,959	721	6	673	102	457
SUM	34	Plus: Cash Working Capital	SCH , LN	93,443,336	56,060,736	494,418	28,394,145	747,286	7,746,751
SUM	35	Plus: Utility Materials and Supplies	SCH , LN	6,156,486	3,922,741	133,965	1,871,896	17,787	210,096
SUM	36	Plus: Prepayments	SCH , LN	2,720,028	1,681,779	31,670	822,332	22,456	161,790
SUM	37	Plus: Cash & Bank Balances	SCH , LN	2,304,085	1,413,331	31,480	700,991	19,361	138,920
SUM	38	Less: Deductions to Rate Base	SCH , LN	21,350,535	16,854,016	577,563	3,568,684	38,852	311,420
SUM	39	TOTAL NET RATE BASE	SCH , LN	403,564,016	245,990,858	3,870,576	125,650,394	3,006,463	25,045,724
SUM	40								
SUM	41								
SUM	42	RATE OF RETURN (PRESENT)		3.49%	3.30%	4.28%	4.25%	-25.67%	5.06%
SUM	43	INDEX RATE OF RETURN (PRESENT)		1.00	0.94	1.23	1.21	-7.35	1.45
SUM	44								
SUM	45								

COS Without Minimum System				S	S	S		S	S	S	S		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1		
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
SUM	1	SUMMARY AT PRESENT RATES	Reference										
SUM	2												
SUM	3	DEVELOPMENT OF RETURN											
SUM	4												
SUM	5	OPERATING REVENUE											
SUM	6	Base Sales of Electricity	SCH , LN		65,965,704	0	5,140,072		18,534,075	0	1,315,422	15,047,810	
SUM	7	Other Operating Revenue	SCH , LN		4,331,002	0	418,407		1,131,978	0	107,218	1,160,934	
SUM	8	TOTAL OPERATING REVENUE			70,296,706	0	5,558,479		19,666,053	0	1,422,641	16,208,744	
SUM	9												
SUM	10	OPERATING EXPENSES											
SUM	11	Operation & Maintenance Expense - Fuel & PP	SCH , LN		12,946,950	0	1,322,647		3,368,324	0	360,347	4,248,435	
SUM	12	Operation and Maintenance Expense - Non Fuel	SCH , LN		32,387,588	0	3,320,301		8,948,544	0	779,752	4,519,691	
SUM	13	Depreciation and Amortization Expense	SCH , LN		10,092,800	0	1,061,001		2,894,958	0	256,056	1,529,645	
SUM	14	Taxes Other Than Income Taxes	SCH , LN		5,734,480	0	609,129		1,654,058	0	145,698	789,803	
SUM	15	State and Federal Income Taxes	SCH , LN		956,690	0	(345,896)		305,499	0	(67,574)	1,127,101	
SUM	16	TOTAL OPERATING EXPENSES			62,118,509	0	5,967,183		17,171,383	0	1,474,279	12,214,675	
SUM	17												
SUM	18	OPERATING INCOME (RETURN)			8,178,197	0	(408,704)		2,494,670	0	(51,639)	3,994,069	
SUM	19												
SUM	20	OPERATING INCOME ADJUSTMENTS											
SUM	21	AFUDC	TOTPLT		271,161	0	28,941		78,719	0	6,952	38,054	
SUM	22	Income Tax Effect of Interest & Customer Interest	RATEBASE		36,107	0	3,927		10,751	0	955	4,947	
SUM	23	Interest Synchronization Adjustment	RATEBASE		53	0	6		16	0	1	7	
SUM	24	TOTAL OPERATING INCOME ADJUSTMENTS			307,321	0	32,873		89,486	0	7,909	43,009	
SUM	25	ADJUSTED OPERATING INCOME (RETURN)			8,485,519	0	(375,831)		2,584,157	0	(43,730)	4,037,078	
SUM	26												
SUM	27												
SUM	28	DEVELOPMENT OF RATE BASE											
SUM	29	Electric Plant in Service	SCH , LN		299,295,181	0	31,943,676		86,886,812	0	7,673,550	42,002,182	
SUM	30	Less: Depreciation & Amortization Reserve	SCH , LN		125,759,212	0	13,316,946		36,344,732	0	3,229,203	19,928,388	
SUM	31	Plus: Plant Held for Future Use	SCH , LN		0	0	0		0	0	0	0	
SUM	32	Plus: Construction Work In Progress	SCH , LN		6,873,798	0	729,069		1,987,204	0	175,774	1,009,346	
SUM	33	Plus: Fuel Stock	SCH , LN		656	0	64		179	0	18	227	
SUM	34	Plus: Cash Working Capital	SCH , LN		50,848,659	0	5,212,077		14,133,939	0	1,232,846	7,152,357	
SUM	35	Plus: Utility Materials and Supplies	SCH , LN		3,528,875	0	393,866		1,060,080	0	93,048	361,710	
SUM	36	Plus: Prepayments	SCH , LN		1,520,863	0	160,916		436,354	0	38,352	206,213	
SUM	37	Plus: Cash & Bank Balances	SCH , LN		1,277,034	0	136,297		370,729	0	32,742	179,215	
SUM	38	Less: Deductions to Rate Base	SCH , LN		15,722,004	0	1,132,012		2,468,394	0	148,719	583,736	
SUM	39	TOTAL NET RATE BASE	SCH , LN		221,863,850	0	24,127,007		66,062,170	0	5,868,407	30,399,125	
SUM	40												
SUM	41												
SUM	42	RATE OF RETURN (PRESENT)			3.82%	0.00%	-1.56%		3.91%	0.00%	-0.75%	13.28%	
SUM	43	INDEX RATE OF RETURN (PRESENT)			1.09	0.00	-0.45		1.12	0.00	-0.21	3.80	
SUM	44												
SUM	45												

COS Without Minimum System			Large Comm & Ind		Large Commerical & Industrial		Real-Time	> 5,000kW		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Market Pricing RTMP	Light & Power WP-3	
	(a)		(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
SUM	1	SUMMARY AT PRESENT RATES	Reference							
SUM	2									
SUM	3	DEVELOPMENT OF RETURN								
SUM	4									
SUM	5	OPERATING REVENUE								
SUM	6	Base Sales of Electricity	SCH , LN	14,663,435	6,600,937	935,918	7,126,580	246,905	6,318,484	
SUM	7	Other Operating Revenue	SCH , LN	2,653,618	1,253,532	483,147	916,939	132	1,285,753	
SUM	8	TOTAL OPERATING REVENUE		17,317,053	7,854,469	1,419,065	8,043,519	247,038	7,604,236	
SUM	9									
SUM	10	OPERATING EXPENSES								
SUM	11	Operation & Maintenance Expense - Fuel & PP	SCH , LN	9,509,209	4,610,087	1,746,978	3,152,144	0	4,533,853	
SUM	12	Operation and Maintenance Expense - Non Fuel	SCH , LN	7,308,291	3,713,853	473,199	3,121,238	32,711	1,741,685	
SUM	13	Depreciation and Amortization Expense	SCH , LN	1,942,642	908,683	184,215	849,744	4,296	395,194	
SUM	14	Taxes Other Than Income Taxes	SCH , LN	1,031,585	532,320	85,695	413,570	2,585	200,092	
SUM	15	State and Federal Income Taxes	SCH , LN	(905,585)	(638,349)	(294,580)	27,344	52,546	135,306	
SUM	16	TOTAL OPERATING EXPENSES		18,886,142	9,126,595	2,195,507	7,564,040	92,139	7,006,130	
SUM	17									
SUM	18	OPERATING INCOME (RETURN)		(1,569,089)	(1,272,126)	(776,443)	479,479	154,899	598,106	
SUM	19									
SUM	20	OPERATING INCOME ADJUSTMENTS								
SUM	21	AFUDC	TOTPLT	49,213	25,121	4,111	19,982	87	9,429	
SUM	22	Income Tax Effect of Interest & Customer Interest	RATEBASE	6,954	3,795	489	2,670	22	1,384	
SUM	23	Interest Synchronization Adjustment	RATEBASE	10	6	1	4	0	2	
SUM	24	TOTAL OPERATING INCOME ADJUSTMENTS		56,178	28,921	4,601	22,655	109	10,816	
SUM	25	ADJUSTED OPERATING INCOME (RETURN)		(1,512,911)	(1,243,204)	(771,841)	502,134	155,008	608,922	
SUM	26									
SUM	27									
SUM	28	DEVELOPMENT OF RATE BASE								
SUM	29	Electric Plant in Service	SCH , LN	54,319,350	27,726,894	4,537,698	22,054,757	96,223	10,407,461	
SUM	30	Less: Depreciation & Amortization Reserve	SCH , LN	24,840,126	11,157,670	2,414,865	11,267,591	15,393	4,979,315	
SUM	31	Plus: Plant Held for Future Use	SCH , LN	0	0	0	0	0	0	
SUM	32	Plus: Constuction Work In Progress	SCH , LN	1,289,320	627,273	115,490	546,557	2,307	254,124	
SUM	33	Plus: Fuel Stock	SCH , LN	538	249	102	187	0	270	
SUM	34	Plus: Cash Working Capital	SCH , LN	11,560,037	5,875,003	747,286	4,937,748	51,784	2,757,219	
SUM	35	Plus: Utility Materials and Supplies	SCH , LN	511,747	357,059	17,787	136,900	221	72,975	
SUM	36	Plus: Prepayments	SCH , LN	271,596	141,412	22,456	107,727	847	53,216	
SUM	37	Plus: Cash & Bank Balances	SCH , LN	231,770	118,305	19,361	94,103	411	44,407	
SUM	38	Less: Deductions to Rate Base	SCH , LN	613,480	367,834	38,852	206,793	1,150	103,477	
SUM	39	TOTAL NET RATE BASE	SCH , LN	42,730,752	23,320,692	3,006,463	16,403,596	135,250	8,506,878	
SUM	40									
SUM	41									
SUM	42	RATE OF RETURN (PRESENT)		-3.54%	-5.33%	-25.67%	3.06%	114.61%	7.16%	
SUM	43	INDEX RATE OF RETURN (PRESENT)		-1.01	-1.53	-7.35	0.88	32.79	2.05	
SUM	44									
SUM	45									

[illegible]

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH	LINE	COS Without Minimum System	ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
ID	NO.	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
									(i)
PLT	1	DEVELOPMENT OF RATE BASE - 13 Month Average							
PLT	2								
PLT	3	ELECTRIC PLANT IN SERVICE							
PLT	4								
PLT	5	INTANGIBLE PLANT							
PLT	6	301-Organization	SALWAGXAG	0	0	0	0	0	0
PLT	7	302-Franchises and Consents	PTDPLT	5,881,563	3,582,813	90,659	1,799,156	50,174	358,760
PLT	8	303-Misc. Intangible Plant	PTDPLT	0	0	0	0	0	0
PLT	9	TOTAL INTANGIBLE		5,881,563	3,582,813	90,659	1,799,156	50,174	358,760
PLT	10								
PLT	11	PRODUCTION PLANT							
PLT	12	Steam Production							
PLT	13	310-Land and Land Rights	DPROD	141,450	76,881	480	44,086	2,969	17,035
PLT	14	311-Structures & Improvements	DPROD	0	0	0	0	0	0
PLT	15	312-Boiler Plant Equipment	DPROD	0	0	0	0	0	0
PLT	16	314-Turbo-Generator Units	DPROD	0	0	0	0	0	0
PLT	17	315-Accessory Electric Equipment	DPROD	0	0	0	0	0	0
PLT	18	316-Misc Power Plant Equipment	DPROD	0	0	0	0	0	0
PLT	19	Total Steam Production		141,450	76,881	480	44,086	2,969	17,035
PLT	20								
PLT	21	Hydraulic Production							
PLT	22	330-Land and Land Rights	DPROD	622,438	338,307	2,112	193,995	13,063	74,960
PLT	23	331-Structures & Improvements	DPROD	3,347,692	1,819,537	11,357	1,043,376	70,259	403,163
PLT	24	332-Reservoirs, Dams and Waterways	DPROD	93,915,331	51,044,843	318,606	29,270,610	1,971,038	11,310,233
PLT	25	333-Water Wheels, Turbines, and Generators	DPROD	4,603,856	2,502,287	15,618	1,434,885	96,623	554,443
PLT	26	334-Accessory Electric Equipment	DPROD	7,034,329	3,823,297	23,864	2,192,391	147,632	847,145
PLT	27	335-Misc Power Plant Equipment	DPROD	1,178,405	640,487	3,998	367,274	24,732	141,915
PLT	28	336-Roads, Railroads, and Bridges	DPROD	1,092,359	593,719	3,706	340,456	22,926	131,553
PLT	29	Total Steam Production		111,794,409	60,762,477	379,260	34,842,986	2,346,273	13,463,413
PLT	30								
PLT	31	Other Production Combustion Equipment:							
PLT	32	340-Land and Land Rights	DPROD	62,188	33,800	211	19,382	1,305	7,489
PLT	33	341-Structures & Improvements	DPROD	227,483	123,641	772	70,900	4,774	27,396
PLT	34	342-Fuel Holders, Prod & Acc	DPROD	1,628,178	884,947	5,524	507,455	34,171	196,082
PLT	35	343-Other Production Engine	DPROD	3,295,968	1,791,424	11,182	1,027,255	69,174	396,934
PLT	36	344-Generators	DPROD	1,171,346	636,650	3,974	365,074	24,583	141,065
PLT	37	345-Accessory Electric Equipment	DPROD	892,675	485,186	3,028	278,220	18,735	107,505
PLT	38	346-Misc Power Plant Equipment	DPROD	31,372	17,051	106	9,778	658	3,778
PLT	39	Total Other Production Combustion Equipment		7,309,210	3,972,700	24,796	2,278,063	153,401	880,249
PLT	40								
PLT	41	Production - Energy	DPROD	0	0	0	0	0	0
PLT	42								
PLT	43	TOTAL PRODUCTION PLANT		119,245,069	64,812,058	404,536	37,165,135	2,502,643	14,360,696
PLT	44								
PLT	45								

COS Without Minimum System			S	S	S	S	S	S	S	S			
SCH ID	LINE NO.	DESCRIPTION	Allocation Basis	Integrated Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW P-1		
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
PLT	1	DEVELOPMENT OF RATE BASE - 13 Month Average											
PLT	2												
PLT	3	ELECTRIC PLANT IN SERVICE											
PLT	4												
PLT	5	INTANGIBLE PLANT											
PLT	6	301-Organization	SALWAGXAG		0	0	0		0	0	0	0	
PLT	7	302-Franchises and Consents	PTDPLT		3,234,917	0	347,896		948,787	0	84,140	467,517	
PLT	8	303-Misc. Intangible Plant	PTDPLT		0	0	0		0	0	0	0	
PLT	9	TOTAL INTANGIBLE			3,234,917	0	347,896		948,787	0	84,140	467,517	
PLT	10												
PLT	11	PRODUCTION PLANT											
PLT	12	Steam Production											
PLT	13	310-Land and Land Rights	DPROD		70,006	0	6,875		19,520	0	1,788	17,904	
PLT	14	311-Structures & Improvements	DPROD		0	0	0		0	0	0	0	
PLT	15	312-Boiler Plant Equipment	DPROD		0	0	0		0	0	0	0	
PLT	16	314-Turbo-Generator Units	DPROD		0	0	0		0	0	0	0	
PLT	17	315-Accessory Electric Equipment	DPROD		0	0	0		0	0	0	0	
PLT	18	316-Misc Power Plant Equipment	DPROD		0	0	0		0	0	0	0	
PLT	19	Total Steam Production			70,006	0	6,875		19,520	0	1,788	17,904	
PLT	20												
PLT	21	Hydraulic Production											
PLT	22	330-Land and Land Rights	DPROD		308,053	0	30,254		85,897	0	7,868	78,784	
PLT	23	331-Structures & Improvements	DPROD		1,656,820	0	162,717		461,983	0	42,319	423,729	
PLT	24	332-Reservoirs, Dams and Waterways	DPROD		46,480,018	0	4,564,825		12,960,364	0	1,187,208	11,887,182	
PLT	25	333-Water Wheels, Turbines, and Generators	DPROD		2,278,513	0	223,774		635,334	0	58,199	582,726	
PLT	26	334-Accessory Electric Equipment	DPROD		3,481,388	0	341,909		970,741	0	88,923	890,359	
PLT	27	335-Misc Power Plant Equipment	DPROD		583,209	0	57,277		162,621	0	14,897	149,155	
PLT	28	336-Roads, Railroads, and Bridges	DPROD		540,624	0	53,095		150,746	0	13,809	138,264	
PLT	29	Total Steam Production			55,328,626	0	5,433,851		15,427,686	0	1,413,223	14,150,197	
PLT	30												
PLT	31	Other Production Combustion Equipment:											
PLT	32	340-Land and Land Rights	DPROD		30,778	0	3,023		8,582	0	786	7,871	
PLT	33	341-Structures & Improvements	DPROD		112,584	0	11,057		31,393	0	2,876	28,793	
PLT	34	342-Fuel Holders, Prod & Acc	DPROD		805,808	0	79,139		224,689	0	20,582	206,084	
PLT	35	343-Other Production Engine	DPROD		1,631,221	0	160,203		454,845	0	41,665	417,182	
PLT	36	344-Generators	DPROD		579,716	0	56,934		161,646	0	14,807	148,261	
PLT	37	345-Accessory Electric Equipment	DPROD		441,797	0	43,389		123,190	0	11,285	112,989	
PLT	38	346-Misc Power Plant Equipment	DPROD		15,527	0	1,525		4,329	0	397	3,971	
PLT	39	Total Other Production Combustion Equipment			3,617,431	0	355,270		1,008,675	0	92,398	925,151	
PLT	40												
PLT	41	Production - Energy	DPROD		0	0	0		0	0	0	0	
PLT	42												
PLT	43	TOTAL PRODUCTION PLANT			59,016,062	0	5,795,996		16,455,881	0	1,507,408	15,093,253	
PLT	44												
PLT	45												

COS Without Minimum System			Large Comm & Ind		S		P		Q		T		Q	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Real-Time RTMP	Market Pricing	Light & Power WP-3	> 5,000kW			
		(a)	(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)				
PLT	1	DEVELOPMENT OF RATE BASE - 13 Month Average												
PLT	2													
PLT	3	ELECTRIC PLANT IN SERVICE												
PLT	4													
PLT	5	INTANGIBLE PLANT												
PLT	6	301-Organization	SALWAGXAG	0	0	0	0	0	0	0				
PLT	7	302-Franchises and Consents	PTDPLT	595,409	298,712	50,174	246,523	369		111,868				
PLT	8	303-Misc. Intangible Plant	PTDPLT	0	0	0	0	0	0	0				
PLT	9	TOTAL INTANGIBLE		595,409	298,712	50,174	246,523	369		111,868				
PLT	10													
PLT	11	PRODUCTION PLANT												
PLT	12	Steam Production												
PLT	13	310-Land and Land Rights	DPROD	20,010	4,874	2,969	12,168	0		4,867				
PLT	14	311-Structures & Improvements	DPROD	0	0	0	0	0	0	0				
PLT	15	312-Boiler Plant Equipment	DPROD	0	0	0	0	0	0	0				
PLT	16	314-Turbo-Generator Units	DPROD	0	0	0	0	0	0	0				
PLT	17	315-Accessory Electric Equipment	DPROD	0	0	0	0	0	0	0				
PLT	18	316-Misc Power Plant Equipment	DPROD	0	0	0	0	0	0	0				
PLT	19	Total Steam Production		20,010	4,874	2,969	12,168	0		4,867				
PLT	20													
PLT	21	Hydraulic Production												
PLT	22	330-Land and Land Rights	DPROD	88,053	21,446	13,063	53,543	0		21,417				
PLT	23	331-Structures & Improvements	DPROD	473,578	115,345	70,259	287,974	0		115,189				
PLT	24	332-Reservoirs, Dams and Waterways	DPROD	13,285,636	3,235,856	1,971,038	8,078,742	0		3,231,491				
PLT	25	333-Water Wheels, Turbines, and Generators	DPROD	651,280	158,626	96,623	396,031	0		158,412				
PLT	26	334-Accessory Electric Equipment	DPROD	995,104	242,368	147,632	605,104	0		242,041				
PLT	27	335-Misc Power Plant Equipment	DPROD	166,702	40,602	24,732	101,368	0		40,547				
PLT	28	336-Roads, Railroads, and Bridges	DPROD	154,529	37,637	22,926	93,966	0		37,586				
PLT	29	Total Steam Production		15,814,881	3,851,880	2,346,273	9,616,728	0		3,846,685				
PLT	30													
PLT	31	Other Production Combustion Equipment:												
PLT	32	340-Land and Land Rights	DPROD	8,797	2,143	1,305	5,350	0		2,140				
PLT	33	341-Structures & Improvements	DPROD	32,181	7,838	4,774	19,568	0		7,827				
PLT	34	342-Fuel Holders, Prod & Acc	DPROD	230,329	56,099	34,171	140,058	0		56,023				
PLT	35	343-Other Production Engine	DPROD	466,261	113,563	69,174	283,524	0		113,410				
PLT	36	344-Generators	DPROD	165,703	40,359	24,583	100,761	0		40,304				
PLT	37	345-Accessory Electric Equipment	DPROD	126,281	30,757	18,735	76,789	0		30,716				
PLT	38	346-Misc Power Plant Equipment	DPROD	4,438	1,081	658	2,699	0		1,079				
PLT	39	Total Other Production Combustion Equipment		1,033,990	251,839	153,401	628,750	0		251,499				
PLT	40													
PLT	41	Production - Energy	DPROD	0	0	0	0	0		0				
PLT	42													
PLT	43	TOTAL PRODUCTION PLANT		16,868,881	4,108,593	2,502,643	10,257,645	0		4,103,051				
PLT	44													
PLT	45													

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH	LINE	COS Without Minimum System	ALLOCATION	S	S	S	Street	S	S
ID	NO.	DESCRIPTION	BASIS	Street	Street Light	Street	Lighting	Integrated	Iron River
		(a)	(b)	Lighting	(Closed)	Lighting	Total	OSL	OSL
				SL-3	SL-5	SL-6		Z-3	Z-4
				(aa)	(ab)	(ac)	(ad)	(ae)	(af)
									(ag)
PLT	1	DEVELOPMENT OF RATE BASE - 13 Month Average							
PLT	2								
PLT	3	ELECTRIC PLANT IN SERVICE							
PLT	4								
PLT	5	INTANGIBLE PLANT							
PLT	6	301-Organization	SALWAGXAG	0	0	0	0	0	0
PLT	7	302-Franchises and Consents	PTDPLT	13,575	787	60,403	74,766	14,378	1,515
PLT	8	303-Misc. Intangible Plant	PTDPLT	0	0	0	0	0	0
PLT	9	TOTAL INTANGIBLE		13,575	787	60,403	74,766	14,378	1,515
PLT	10								
PLT	11	PRODUCTION PLANT							
PLT	12	Steam Production							
PLT	13	310-Land and Land Rights	DPROD	75	4	305	384	96	0
PLT	14	311-Structures & Improvements	DPROD	0	0	0	0	0	0
PLT	15	312-Boiler Plant Equipment	DPROD	0	0	0	0	0	0
PLT	16	314-Turbo-Generator Units	DPROD	0	0	0	0	0	0
PLT	17	315-Accessory Electric Equipment	DPROD	0	0	0	0	0	0
PLT	18	316-Misc Power Plant Equipment	DPROD	0	0	0	0	0	0
PLT	19	Total Steam Production		75	4	305	384	96	0
PLT	20								
PLT	21	Hydraulic Production							
PLT	22	330-Land and Land Rights	DPROD	330	18	1,343	1,691	420	0
PLT	23	331-Structures & Improvements	DPROD	1,775	95	7,225	9,096	2,261	0
PLT	24	332-Reservoirs, Dams and Waterways	DPROD	49,792	2,678	202,695	255,165	63,441	0
PLT	25	333-Water Wheels, Turbines, and Generators	DPROD	2,441	131	9,936	12,509	3,110	0
PLT	26	334-Accessory Electric Equipment	DPROD	3,729	201	15,182	19,112	4,752	0
PLT	27	335-Misc Power Plant Equipment	DPROD	625	34	2,543	3,202	796	0
PLT	28	336-Roads, Railroads, and Bridges	DPROD	579	31	2,358	2,968	738	0
PLT	29	Total Steam Production		59,271	3,187	241,283	303,741	75,519	0
PLT	30								
PLT	31	Other Production Combustion Equipment:							
PLT	32	340-Land and Land Rights	DPROD	33	2	134	169	42	0
PLT	33	341-Structures & Improvements	DPROD	121	6	491	618	154	0
PLT	34	342-Fuel Holders, Prod & Acc	DPROD	863	46	3,514	4,424	1,100	0
PLT	35	343-Other Production Engine	DPROD	1,747	94	7,114	8,955	2,226	0
PLT	36	344-Generators	DPROD	621	33	2,528	3,183	791	0
PLT	37	345-Accessory Electric Equipment	DPROD	473	25	1,927	2,425	603	0
PLT	38	346-Misc Power Plant Equipment	DPROD	17	1	68	85	21	0
PLT	39	Total Other Production Combustion Equipment		3,875	208	15,775	19,859	4,937	0
PLT	40								
PLT	41	Production - Energy	DPROD	0	0	0	0	0	0
PLT	42								
PLT	43	TOTAL PRODUCTION PLANT		63,221	3,400	257,364	323,984	80,552	0
PLT	44								
PLT	45								

SCH		COS Without Minimum System		INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	
ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	COMMERICAL SECONDARY	COMMERICAL PRIMARY	TOTAL TRANSMISSION
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
PLT	46								
PLT	47	ELECTRIC PLANT IN SERVICE CONTINUED							
PLT	48								
PLT	49	TRANSMISSION PLANT	DTRAN	0	0	0	0	0	0
PLT	50								
PLT	51								
PLT	52	DISTRIBUTION PLANT							
PLT	53	360-Land and Land Rights	DDISPSUB	1,009,548	479,003	2,754	334,244	7,068	186,479
PLT	54	361-Structures & Improvements	DDISPSUB	2,655,202	1,259,822	7,242	879,091	18,590	490,457
PLT	55	362-Station Equipment	DDISPSUB	61,383,182	29,124,668	167,430	20,322,891	429,760	11,338,432
PLT	56	364-Towers and Fixtures							
PLT	57	Primary - Demand	DDISTPRI	53,761,751	35,525,202	173,009	17,781,087	282,453	0
PLT	58	Primary - Customer	CDISTPRI	0	0	0	0	0	0
PLT	59	Secondary - Demand	DDISTSEC	12,907,087	8,573,914	41,755	4,291,418	0	0
PLT	60	Secondary - Customer	CDISTSEC	0	0	0	0	0	0
PLT	61	Total Account 364		66,668,839	44,099,115	214,764	22,072,505	282,453	0
PLT	62	365-Overhead Conductors & Devices							
PLT	63	Primary - Demand	DDISTPRI	24,638,687	16,280,986	79,289	8,148,965	129,447	0
PLT	64	Primary - Customer	CDISTPRI	0	0	0	0	0	0
PLT	65	Secondary - Demand	DDISTSEC	7,059,096	4,689,213	22,837	2,347,047	0	0
PLT	66	Secondary - Customer	CDISTSEC	0	0	0	0	0	0
PLT	67	Total Account 365		31,697,783	20,970,199	102,126	10,496,012	129,447	0
PLT	68	366-Underground Conduit	DDISTSEC	0	0	0	0	0	0
PLT	69	367-Underground Conductor							
PLT	70	Primary - Demand	DDISTPRI	53,216,751	35,165,072	171,255	17,600,834	279,590	0
PLT	71	Primary - Customer	CDISTPRI	0	0	0	0	0	0
PLT	72	Secondary - Demand	DDISTSEC	3,493,342	2,320,555	11,301	1,161,485	0	0
PLT	73	Secondary - Customer	CDISTSEC	0	0	0	0	0	0
PLT	74	Total Account 367		56,710,093	37,485,627	182,557	18,762,320	279,590	0
PLT	75	368-Line Transformers - Demand	DDISTSLT	50,900,543	33,812,187	164,667	16,923,688	0	0
PLT	76	368-Line Transformers - Customer	CDISTSLT	0	0	0	0	0	0
PLT	77	369-Services	CSERVICE	24,848,486	21,483,379	121,544	3,243,563	0	0
PLT	78	370-Meters	CMETERS	16,175,647	12,460,439	12,614	3,369,130	75,371	258,093
PLT	79	371-Inst. on Customer Premises	CUSTPREM	908,925	0	908,925	0	0	0
PLT	80	373-Street Lighting / Signal Systems	CLIGHT	4,441,322	0	4,441,322	0	0	0
PLT	81	TOTAL DISTRIBUTION PLANT		317,399,568	201,174,440	6,325,945	96,403,444	1,222,278	12,273,462
PLT	82				129,653,810	9,695,599			
PLT	83								
PLT	84	TOTAL PROD, TRANS, & DIST PLANT		436,644,637	265,986,498	6,730,481	133,568,578	3,724,922	26,634,158
PLT	85								
PLT	86								
PLT	87								
PLT	88								
PLT	89								

COS Without Minimum System			S	S	S	S	S	S	S	S			
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1	General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1			
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
PLT	46	ELECTRIC PLANT IN SERVICE CONTINUED											
PLT	47												
PLT	48												
PLT	49	TRANSMISSION PLANT	DTRAN		0	0	0		0	0	0	0	
PLT	50												
PLT	51												
PLT	52	DISTRIBUTION PLANT											
PLT	53	360-Land and Land Rights	DDISPSUB		436,147	0	42,856		122,197	0	10,989	103,504	
PLT	54	361-Structures & Improvements	DDISPSUB		1,147,107	0	112,715		321,390	0	28,903	272,224	
PLT	55	362-Station Equipment	DDISPSUB		26,518,908	0	2,605,760		7,429,910	0	668,177	6,293,303	
PLT	56	364-Towers and Fixtures											
PLT	57	Primary - Demand	DDISTPRI		31,538,404	0	3,986,798		10,754,075	0	991,796	3,015,269	
PLT	58	Primary - Customer	CDISTPRI		0	0	0		0	0	0	0	
PLT	59	Secondary - Demand	DDISTSEC		7,611,710	0	962,203		2,595,468	0	239,367	727,727	
PLT	60	Secondary - Customer	CDISTSEC		0	0	0		0	0	0	0	
PLT	61	Total Account 364			39,150,114	0	4,949,001		13,349,542	0	1,231,163	3,742,996	
PLT	62	365-Overhead Conductors & Devices											
PLT	63	Primary - Demand	DDISTPRI		14,453,860	0	1,827,125		4,928,528	0	454,534	1,381,880	
PLT	64	Primary - Customer	CDISTPRI		0	0	0		0	0	0	0	
PLT	65	Secondary - Demand	DDISTSEC		4,162,968	0	526,245		1,419,503	0	130,914	398,006	
PLT	66	Secondary - Customer	CDISTSEC		0	0	0		0	0	0	0	
PLT	67	Total Account 365			18,616,829	0	2,353,370		6,348,031	0	585,448	1,779,886	
PLT	68	366-Underground Conduit	DDISTSEC		0	0	0		0	0	0	0	
PLT	69	367-Underground Conductor											
PLT	70	Primary - Demand	DDISTPRI		31,218,689	0	3,946,383		10,645,057	0	981,741	2,984,702	
PLT	71	Primary - Customer	CDISTPRI		0	0	0		0	0	0	0	
PLT	72	Secondary - Demand	DDISTSEC		2,060,132	0	260,423		702,471	0	64,785	196,962	
PLT	73	Secondary - Customer	CDISTSEC		0	0	0		0	0	0	0	
PLT	74	Total Account 367			33,278,821	0	4,206,806		11,347,528	0	1,046,527	3,181,664	
PLT	75	368-Line Transformers - Demand	DDISTSLT		30,017,632	0	3,794,556		10,235,517	0	943,971	2,869,874	
PLT	76	368-Line Transformers - Customer	CDISTSLT		0	0	0		0	0	0	0	
PLT	77	369-Services	CSERVICE		20,152,551	0	1,330,828		2,676,584	0	102,916	430,214	
PLT	78	370-Meters	CMETERS		11,824,669	0	635,770		2,150,941	0	121,032	941,342	
PLT	79	371-Inst. on Customer Premises	CUSTPREM		0	0	0		0	0	0	0	
PLT	80	373-Street Lighting / Signal Systems	CLIGHT		0	0	0		0	0	0	0	
PLT	81	TOTAL DISTRIBUTION PLANT			181,142,778	0	20,031,662		53,981,641	0	4,739,126	19,615,007	
PLT	82												
PLT	83												
PLT	84	TOTAL PROD, TRANS, & DIST PLANT			240,158,840	0	25,827,658		70,437,522	0	6,246,535	34,708,260	
PLT	85												
PLT	86												
PLT	87												
PLT	88												
PLT	89												

COS Without Minimum System			Large Comm & Ind		Large Commerical & Industrial		Transmission		Real-Time		Light & Power	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	CP-U Trans	RTMP	WP-3			
		(a)	(b)	(t)	(u)	(v)	(w)	(x)	(y)			(z)
PLT	46											
PLT	47	ELECTRIC PLANT IN SERVICE CONTINUED										
PLT	48											
PLT	49	TRANSMISSION PLANT	DTRAN	0	0	0	0	0	0			
PLT	50											
PLT	51											
PLT	52	DISTRIBUTION PLANT										
PLT	53	360-Land and Land Rights	DDISPSUB	227,777	97,553	7,068	123,155	0	63,324			
PLT	54	361-Structures & Improvements	DDISPSUB	599,073	256,574	18,590	323,909	0	166,548			
PLT	55	362-Station Equipment	DDISPSUB	13,849,421	5,931,501	429,760	7,488,161	0	3,850,272			
PLT	56	364-Towers and Fixtures										
PLT	57	Primary - Demand	DDISTPRI	3,302,401	3,019,947	282,453	0	0	0			
PLT	58	Primary - Customer	CDISTPRI	0	0	0	0	0	0			
PLT	59	Secondary - Demand	DDISTSEC	728,856	728,856	0	0	0	0			
PLT	60	Secondary - Customer	CDISTSEC	0	0	0	0	0	0			
PLT	61	Total Account 364		4,031,257	3,748,804	282,453	0	0	0			
PLT	62	365-Overhead Conductors & Devices										
PLT	63	Primary - Demand	DDISTPRI	1,513,470	1,384,024	129,447	0	0	0			
PLT	64	Primary - Customer	CDISTPRI	0	0	0	0	0	0			
PLT	65	Secondary - Demand	DDISTSEC	398,623	398,623	0	0	0	0			
PLT	66	Secondary - Customer	CDISTSEC	0	0	0	0	0	0			
PLT	67	Total Account 365		1,912,094	1,782,647	129,447	0	0	0			
PLT	68	366-Underground Conduit	DDISTSEC	0	0	0	0	0	0			
PLT	69	367-Underground Conductor										
PLT	70	Primary - Demand	DDISTPRI	3,268,923	2,989,333	279,590	0	0	0			
PLT	71	Primary - Customer	CDISTPRI	0	0	0	0	0	0			
PLT	72	Secondary - Demand	DDISTSEC	197,267	197,267	0	0	0	0			
PLT	73	Secondary - Customer	CDISTSEC	0	0	0	0	0	0			
PLT	74	Total Account 367		3,466,190	3,186,600	279,590	0	0	0			
PLT	75	368-Line Transformers - Demand	DDISTSLT	2,874,326	2,874,326	0	0	0	0			
PLT	76	368-Line Transformers - Customer	CDISTSLT	0	0	0	0	0	0			
PLT	77	369-Services	CSERVICE	33,848	33,848	0	0	0	0			
PLT	78	370-Meters	CMETERS	340,055	155,815	75,371	108,869	27,374	121,850			
PLT	79	371-Inst. on Customer Premises	CUSTPREM	0	0	0	0	0	0			
PLT	80	373-Street Lighting / Signal Systems	CLIGHT	0	0	0	0	0	0			
PLT	81	TOTAL DISTRIBUTION PLANT		27,334,041	18,067,669	1,222,278	8,044,094	27,374	4,201,994			
PLT	82											
PLT	83											
PLT	84	TOTAL PROD, TRANS, & DIST PLANT		44,202,922	22,176,261	3,724,922	18,301,739	27,374	8,305,045			
PLT	85											
PLT	86											
PLT	87											
PLT	88											
PLT	89											

COS Without Minimum System				S	S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)
									(ag)
PLT	46								
PLT	47	ELECTRIC PLANT IN SERVICE CONTINUED							
PLT	48								
PLT	49	TRANSMISSION PLANT	DTRAN	0	0	0	0	0	0
PLT	50								
PLT	51								
PLT	52	DISTRIBUTION PLANT							
PLT	53	360-Land and Land Rights	DDISPSUB	446	23	1,732	2,202	552	0
PLT	54	361-Structures & Improvements	DDISPSUB	1,174	62	4,555	5,791	1,451	0
PLT	55	362-Station Equipment	DDISPSUB	27,148	1,425	105,313	133,886	33,544	0
PLT	56	364-Towers and Fixtures							
PLT	57	Primary - Demand	DDISTPRI	30,177	1,331	101,149	132,657	40,352	0
PLT	58	Primary - Customer	CDISTPRI	0	0	0	0	0	0
PLT	59	Secondary - Demand	DDISTSEC	7,283	321	24,412	32,016	9,739	0
PLT	60	Secondary - Customer	CDISTSEC	0	0	0	0	0	0
PLT	61	Total Account 364		37,460	1,653	125,560	164,673	50,091	0
PLT	62	365-Overhead Conductors & Devices							
PLT	63	Primary - Demand	DDISTPRI	13,830	610	46,356	60,796	18,493	0
PLT	64	Primary - Customer	CDISTPRI	0	0	0	0	0	0
PLT	65	Secondary - Demand	DDISTSEC	3,983	176	13,351	17,510	5,326	0
PLT	66	Secondary - Customer	CDISTSEC	0	0	0	0	0	0
PLT	67	Total Account 365		17,813	786	59,707	78,306	23,820	0
PLT	68	366-Underground Conduit	DDISTSEC	0	0	0	0	0	0
PLT	69	367-Underground Conductor							
PLT	70	Primary - Demand	DDISTPRI	29,871	1,318	100,123	131,312	39,943	0
PLT	71	Primary - Customer	CDISTPRI	0	0	0	0	0	0
PLT	72	Secondary - Demand	DDISTSEC	1,971	87	6,607	8,665	2,636	0
PLT	73	Secondary - Customer	CDISTSEC	0	0	0	0	0	0
PLT	74	Total Account 367		31,842	1,405	106,730	139,978	42,579	0
PLT	75	368-Line Transformers - Demand	DDISTSLT	28,722	1,267	96,271	126,260	38,406	0
PLT	76	368-Line Transformers - Customer	CDISTSLT	0	0	0	0	0	0
PLT	77	369-Services	CSERVICE	30,486	3,929	87,129	121,544	0	0
PLT	78	370-Meters	CMETERS	12,614	0	0	12,614	0	0
PLT	79	371-Inst. on Customer Premises	CUSTPREM	0	0	0	0	796,419	112,506
PLT	80	373-Street Lighting / Signal Systems	CLIGHT	756,910	44,467	3,639,945	4,441,322	0	0
PLT	81	TOTAL DISTRIBUTION PLANT		944,617	55,017	4,226,943	5,226,576	986,862	112,506
PLT	82								
PLT	83								
PLT	84	TOTAL PROD, TRANS, & DIST PLANT		1,007,838	58,416	4,484,307	5,550,561	1,067,414	112,506
PLT	85								
PLT	86								
PLT	87								
PLT	88								
PLT	89								

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

COS Without Minimum System		ALLOCATION BASIS		INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
SCH ID	LINE NO.	DESCRIPTION							
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
									(i)
PLT	90								
PLT	91								
PLT	92								
PLT	93	ELECTRIC PLANT IN SERVICE CONTINUED							
PLT	94								
PLT	95	GENERAL PLANT							
PLT	96	389-Land and Land Rights	SALWAGXAG	934,248	591,064	5,337	277,196	7,309	53,342
PLT	97	390-Structures & Improvements	SALWAGXAG	30,009,243	18,985,724	171,428	8,903,900	234,777	1,713,414
PLT	98	391-Office Furniture & Equipment	SALWAGXAG	1,053,363	666,424	6,017	312,538	8,241	60,143
PLT	99	392-Transportation Equipment	SALWAGXAG	17,317,239	10,955,968	98,925	5,138,116	135,481	988,749
PLT	100	393-Stores Equipment	SALWAGXAG	130,610	82,632	746	38,753	1,022	7,457
PLT	101	394-Tools, Shop & Garage Equip.	SALWAGXAG	3,552,745	2,247,688	20,295	1,054,118	27,795	202,848
PLT	102	395-Laboratory Equipment	SALWAGXAG	1,773,514	1,122,036	10,131	526,211	13,875	101,261
PLT	103	396-Power Operated Equipment	SALWAGXAG	3,618,775	2,289,464	20,672	1,073,710	28,311	206,618
PLT	104	397-Communication Equipment	SALWAGXAG	38,882,129	24,599,266	222,115	11,536,532	304,193	2,220,023
PLT	105	398-Miscellaneous Equipment	SALWAGXAG	204,343	129,280	1,167	60,630	1,599	11,667
PLT	106	TOTAL GENERAL PLANT		97,476,209	61,669,546	556,835	28,921,703	762,603	5,565,523
PLT	107								
PLT	108	COMPLETED CONSTRUCTION NOT CLASSIFIED	PTDPLT	0	0	0	0	0	0
PLT	109								
PLT	110	TOTAL ELECTRIC PLANT IN SERVICE		540,002,409	331,238,857	7,377,975	164,289,438	4,537,698	32,558,441
PLT	111								
PLT	112								
PLT	113								
PLT	114								
PLT	115								
PLT	116								
PLT	117								
PLT	118								
PLT	119								
PLT	120								
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PLT	132								
PLT	133								
PLT	134								
PLT	135								
PLT	136								
PLT	137								
PLT	138								

[illegible]

COS Without Minimum System			INTEGRATED		TOTAL		TOTAL		TOTAL	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	COMMERCIAL SECONDARY	COMMERCIAL PRIMARY	TOTAL TRANSMISSION	
	(a)		(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
D&A	1	DEPRECIATION & AMORTIZATION RESERVE:								
D&A	2	PRODUCTION PLANT	PRODPLT	86,749,285	47,149,955	294,295	27,037,167	1,820,641	10,447,226	
D&A	3	TRANSMISSION PLANT	TRANPLT	0	0	0	0	0	0	
D&A	4	DISTRIBUTION PLANT								
D&A	5	360-Land and Land Rights	PLT_360	0	0	0	0	0	0	
D&A	6	361-Structures & Improvements	PLT_361	1,406,701	667,442	3,837	465,734	9,849	259,840	
D&A	7	362-Station Equipment	PLT_362	26,230,675	12,445,750	71,547	8,684,515	183,648	4,845,215	
D&A	8	364-Towers and Fixtures	PLT_364	26,781,170	17,714,811	86,272	8,866,624	113,463	0	
D&A	9	365-Overhead Conductors & Devices	PLT_365	18,581,883	12,293,156	59,868	6,152,975	75,884	0	
D&A	10	366-Underground Conduit	PLT_366	0	0	0	0	0	0	
D&A	11	367-Underground Conductor	PLT_367	20,741,976	13,710,539	66,771	6,862,404	102,261	0	
D&A	12	368-Line Transformers	PLT_368	19,902,978	13,221,140	64,387	6,617,450	0	0	
D&A	13	369-Services	PLT_369	12,994,896	11,235,062	63,563	1,696,271	0	0	
D&A	14	370-Meters	PLT_370	4,739,282	3,650,768	3,696	987,117	22,083	75,618	
D&A	15	371-Inst. on Customer Premises	PLT_371	541,221	0	541,221	0	0	0	
D&A	16	373-Street Lighting / Signal Systems	PLT_373	2,454,593	0	2,454,593	0	0	0	
D&A	17	TOTAL DISTRIBUTION PLANT		134,375,375	84,938,668	3,415,756	40,333,090	507,188	5,180,673	
D&A	18	GENERAL & INTANGIBLE	INTGENLPLT	11,068,045	6,987,535	69,337	3,289,737	87,036	634,401	
D&A	19	TOTAL DEPRECIATION & AMORTIZATION RESERVE		232,192,704	139,076,159	3,779,388	70,659,993	2,414,865	16,262,299	
D&A	20									
D&A	21	NET ELECTRIC PLANT IN SERVICE								
D&A	22	NET PRODUCTION PLANT		32,495,785	17,662,103	110,241	10,127,968	682,002	3,913,471	
D&A	23	NET TRANSMISSION PLANT		0	0	0	0	0	0	
D&A	24	NET DISTRIBUTION PLANT		183,024,194	116,235,772	2,910,189	56,070,354	715,091	7,092,788	
D&A	25	NET GENERAL & INTANGIBLE PLANT		92,289,727	58,264,824	578,157	27,431,123	725,741	5,289,882	
D&A	26	COMPLETED CONSTRUCTION NOT CLASSIFIED		0	0	0	0	0	0	
D&A	27	TOTAL NET PLANT IN SERVICE		307,809,705	192,162,699	3,598,587	93,629,444	2,122,833	16,296,142	
D&A	28									
D&A	29	PLANT HELD FOR FUTURE USE								
D&A	30	PRODUCTION PLANT	PRODPLT	0	0	0	0	0	0	
D&A	31	TRANSMISSION	TRANPLT	0	0	0	0	0	0	
D&A	32	DISTRIBUTION	DISTPLT	0	0	0	0	0	0	
D&A	33	GENERAL PLANT	INTGENLPLT	0	0	0	0	0	0	
D&A	34	TOTAL PLANT HELD FOR FUTURE USE		0	0	0	0	0	0	
D&A	35									
D&A	36	CONSTRUCTION WORK IN PROGRESS								
D&A	37	PRODUCTION PLANT	PRODPLT	865,366	470,344	2,936	269,709	18,162	104,216	
D&A	38	TRANSMISSION PLANT	TRANPLT	0	0	0	0	0	0	
D&A	39	DISTRIBUTION PLANT	TOTPLT	11,127,075	6,825,376	152,028	3,385,283	93,502	670,886	
D&A	40	GENERAL & INTANGIBLE PLANT	INTGENLPLT	486,512	307,147	3,048	144,605	3,826	27,888	
D&A	41	TOTAL CONSTRUCTION WORK IN PROGRESS		12,478,953	7,602,867	158,011	3,799,597	115,490	802,988	
D&A	42									
D&A	43	TOTAL NET PLANT IN SERVICE		320,288,658	199,765,566	3,756,598	97,429,041	2,238,323	17,099,130	
D&A	44									
D&A	45									
D&A	46									

COS Without Minimum System			S		S		S		S		S		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1	General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1			
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
D&A	1	DEPRECIATION & AMORTIZATION RESERVE:											
D&A	2	PRODUCTION PLANT	PRODPLT		42,933,441	0	4,216,514		11,971,446	0	1,096,621	10,980,151	
D&A	3	TRANSMISSION PLANT	TRANPLT		0	0	0		0	0	0	0	0
D&A	4	DISTRIBUTION PLANT											
D&A	5	360-Land and Land Rights	PLT_360		0	0	0		0	0	0	0	
D&A	6	361-Structures & Improvements	PLT_361		607,726	0	59,715		170,269	0	15,312	144,222	
D&A	7	362-Station Equipment	PLT_362		11,332,239	0	1,113,511		3,174,999	0	285,530	2,689,297	
D&A	8	364-Towers and Fixtures	PLT_364		15,726,775	0	1,988,036		5,362,571	0	494,564	1,503,578	
D&A	9	365-Overhead Conductors & Devices	PLT_365		10,913,562	0	1,379,593		3,721,345	0	343,201	1,043,405	
D&A	10	366-Underground Conduit	PLT_366		0	0	0		0	0	0	0	
D&A	11	367-Underground Conductor	PLT_367		12,171,881	0	1,538,658		4,150,410	0	382,772	1,163,708	
D&A	12	368-Line Transformers	PLT_368		11,737,405	0	1,483,736		4,002,261	0	369,109	1,122,169	
D&A	13	369-Services	PLT_369		10,539,085	0	695,977		1,399,761	0	53,822	224,987	
D&A	14	370-Meters	PLT_370		3,464,495	0	186,273		630,202	0	35,461	275,803	
D&A	15	371-Inst. on Customer Premises	PLT_371		0	0	0		0	0	0	0	
D&A	16	373-Street Lighting / Signal Systems	PLT_373		0	0	0		0	0	0	0	
D&A	17	TOTAL DISTRIBUTION PLANT			76,493,168	0	8,445,500		22,611,818	0	1,979,771	8,167,169	
D&A	18	GENERAL & INTANGIBLE	INTGENPLT		6,332,602	0	654,932		1,761,469	0	152,812	781,068	
D&A	19	TOTAL DEPRECIATION & AMORTIZATION RESERVE			125,759,212	0	13,316,946		36,344,732	0	3,229,203	19,928,388	
D&A	20												
D&A	21	NET ELECTRIC PLANT IN SERVICE											
D&A	22	NET PRODUCTION PLANT			16,082,621	0	1,579,482		4,484,435	0	410,788	4,113,102	
D&A	23	NET TRANSMISSION PLANT			0	0	0		0	0	0	0	
D&A	24	NET DISTRIBUTION PLANT			104,649,610	0	11,586,162		31,369,824	0	2,759,356	11,447,838	
D&A	25	NET GENERAL & INTANGIBLE PLANT			52,803,739	0	5,461,086		14,687,821	0	1,274,203	6,512,854	
D&A	26	COMPLETED CONSTRUCTION NOT CLASSIFIED			0	0	0		0	0	0	0	
D&A	27	TOTAL NET PLANT IN SERVICE			173,535,969	0	18,626,729		50,542,079	0	4,444,347	22,073,794	
D&A	28												
D&A	29	PLANT HELD FOR FUTURE USE											
D&A	30	PRODUCTION PLANT	PRODPLT		0	0	0		0	0	0	0	
D&A	31	TRANSMISSION	TRANPLT		0	0	0		0	0	0	0	
D&A	32	DISTRIBUTION	DISTPLT		0	0	0		0	0	0	0	
D&A	33	GENERAL PLANT	INTGENPLT		0	0	0		0	0	0	0	
D&A	34	TOTAL PLANT HELD FOR FUTURE USE			0	0	0		0	0	0	0	
D&A	35												
D&A	36	CONSTRUCTION WORK IN PROGRESS											
D&A	37	PRODUCTION PLANT	PRODPLT		428,282	0	42,062		119,421	0	10,939	109,532	
D&A	38	TRANSMISSION PLANT	TRANPLT		0	0	0		0	0	0	0	
D&A	39	DISTRIBUTION PLANT	TOTPLT		6,167,157	0	658,219		1,790,355	0	158,118	865,480	
D&A	40	GENERAL & INTANGIBLE PLANT	INTGENPLT		278,359	0	28,789		77,428	0	6,717	34,333	
D&A	41	TOTAL CONSTRUCTION WORK IN PROGRESS			6,873,798	0	729,069		1,987,204	0	175,774	1,009,346	
D&A	42												
D&A	43	TOTAL NET PLANT IN SERVICE			180,409,768	0	19,355,798		52,529,283	0	4,620,121	23,083,139	
D&A	44												
D&A	45												
D&A	46												

COS Without Minimum System			Large Comm & Ind		Large Commerical & Industrial		Real-Time	> 5,000kW		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Market Pricing RTMP	Light & Power WP-3	
	(a)		(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
D&A	1	DEPRECIATION & AMORTIZATION RESERVE:								
D&A	2	PRODUCTION PLANT	PRODPLT	12,271,898	2,988,949	1,820,641	7,462,308	0	2,984,918	
D&A	3	TRANSMISSION PLANT	TRANPLT	0	0	0	0	0	0	
D&A	4	DISTRIBUTION PLANT								
D&A	5	360-Land and Land Rights	PLT_360	0	0	0	0	0	0	
D&A	6	361-Structures & Improvements	PLT_361	317,383	135,931	9,849	171,604	0	88,236	
D&A	7	362-Station Equipment	PLT_362	5,918,228	2,534,689	183,648	3,199,891	0	1,645,324	
D&A	8	364-Towers and Fixtures	PLT_364	1,619,374	1,505,911	113,463	0	0	0	
D&A	9	365-Overhead Conductors & Devices	PLT_365	1,120,908	1,045,024	75,884	0	0	0	
D&A	10	366-Underground Conduit	PLT_366	0	0	0	0	0	0	
D&A	11	367-Underground Conductor	PLT_367	1,267,775	1,165,514	102,261	0	0	0	
D&A	12	368-Line Transformers	PLT_368	1,123,911	1,123,911	0	0	0	0	
D&A	13	369-Services	PLT_369	17,701	17,701	0	0	0	0	
D&A	14	370-Meters	PLT_370	99,632	45,652	22,083	31,897	8,020	35,701	
D&A	15	371-Inst. on Customer Premises	PLT_371	0	0	0	0	0	0	
D&A	16	373-Street Lighting / Signal Systems	PLT_373	0	0	0	0	0	0	
D&A	17	TOTAL DISTRIBUTION PLANT		11,484,912	7,574,332	507,188	3,403,393	8,020	1,769,260	
D&A	18	GENERAL & INTANGIBLE	INTGENLPLT	1,083,316	594,388	87,036	401,891	7,373	225,137	
D&A	19	TOTAL DEPRECIATION & AMORTIZATION RESERVE		24,840,126	11,157,670	2,414,865	11,267,591	15,393	4,979,315	
D&A	20									
D&A	21	NET ELECTRIC PLANT IN SERVICE								
D&A	22	NET PRODUCTION PLANT		4,596,983	1,119,643	682,002	2,795,338	0	1,118,133	
D&A	23	NET TRANSMISSION PLANT		0	0	0	0	0	0	
D&A	24	NET DISTRIBUTION PLANT		15,849,129	10,493,337	715,091	4,640,701	19,354	2,432,734	
D&A	25	NET GENERAL & INTANGIBLE PLANT		9,033,112	4,956,245	725,741	3,351,127	61,477	1,877,279	
D&A	26	COMPLETED CONSTRUCTION NOT CLASSIFIED		0	0	0	0	0	0	
D&A	27	TOTAL NET PLANT IN SERVICE		29,479,224	16,569,225	2,122,833	10,787,166	80,830	5,428,146	
D&A	28									
D&A	29	PLANT HELD FOR FUTURE USE								
D&A	30	PRODUCTION PLANT	PRODPLT	0	0	0	0	0	0	
D&A	31	TRANSMISSION	TRANPLT	0	0	0	0	0	0	
D&A	32	DISTRIBUTION	DISTPLT	0	0	0	0	0	0	
D&A	33	GENERAL PLANT	INTGENLPLT	0	0	0	0	0	0	
D&A	34	TOTAL PLANT HELD FOR FUTURE USE		0	0	0	0	0	0	
D&A	35									
D&A	36	CONSTRUCTION WORK IN PROGRESS								
D&A	37	PRODUCTION PLANT	PRODPLT	122,418	29,816	18,162	74,440	0	29,776	
D&A	38	TRANSMISSION PLANT	TRANPLT	0	0	0	0	0	0	
D&A	39	DISTRIBUTION PLANT	TOTPLT	1,119,283	571,329	93,502	454,452	1,983	214,452	
D&A	40	GENERAL & INTANGIBLE PLANT	INTGENLPLT	47,619	26,127	3,826	17,666	324	9,896	
D&A	41	TOTAL CONSTRUCTION WORK IN PROGRESS		1,289,320	627,273	115,490	546,557	2,307	254,124	
D&A	42									
D&A	43	TOTAL NET PLANT IN SERVICE		30,768,544	17,196,497	2,238,323	11,333,723	83,137	5,682,270	
D&A	44									
D&A	45									
D&A	46									

COS Without Minimum System			S	S	S	S	S	S		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4	
	(a)	(b)		(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)
D&A	1	DEPRECIATION & AMORTIZATION RESERVE:								
D&A	2	PRODUCTION PLANT	PRODPLT	45,993	2,473	187,229	235,695	58,601	0	
D&A	3	TRANSMISSION PLANT	TRANPLT	0	0	0	0	0	0	
D&A	4	DISTRIBUTION PLANT								
D&A	5	360-Land and Land Rights	PLT_360	0	0	0	0	0	0	
D&A	6	361-Structures & Improvements	PLT_361	622	33	2,413	3,068	769	0	
D&A	7	362-Station Equipment	PLT_362	11,601	609	45,003	57,213	14,334	0	
D&A	8	364-Towers and Fixtures	PLT_364	15,048	664	50,438	66,150	20,122	0	
D&A	9	365-Overhead Conductors & Devices	PLT_365	10,442	461	35,001	45,905	13,963	0	
D&A	10	366-Underground Conduit	PLT_366	0	0	0	0	0	0	
D&A	11	367-Underground Conductor	PLT_367	11,647	514	39,037	51,197	15,573	0	
D&A	12	368-Line Transformers	PLT_368	11,231	495	37,644	49,370	15,018	0	
D&A	13	369-Services	PLT_369	15,943	2,055	45,565	63,563	0	0	
D&A	14	370-Meters	PLT_370	3,696	0	0	3,696	0	0	
D&A	15	371-Inst. on Customer Premises	PLT_371	0	0	0	0	474,229	66,992	
D&A	16	373-Street Lighting / Signal Systems	PLT_373	418,323	24,576	2,011,695	2,454,593	0	0	
D&A	17	TOTAL DISTRIBUTION PLANT		498,552	29,406	2,266,797	2,794,755	554,009	66,992	
D&A	18	GENERAL & INTANGIBLE	INTGENPLT	10,167	488	34,773	45,428	22,673	1,236	
D&A	19	TOTAL DEPRECIATION & AMORTIZATION RESERVE		554,712	32,367	2,488,798	3,075,877	635,283	68,228	
D&A	20									
D&A	21	NET ELECTRIC PLANT IN SERVICE								
D&A	22	NET PRODUCTION PLANT		17,229	926	70,135	88,290	21,951	0	
D&A	23	NET TRANSMISSION PLANT		0	0	0	0	0	0	
D&A	24	NET DISTRIBUTION PLANT		446,064	25,611	1,960,147	2,431,821	432,853	45,514	
D&A	25	NET GENERAL & INTANGIBLE PLANT		84,780	4,067	289,947	378,794	189,060	10,302	
D&A	26	COMPLETED CONSTRUCTION NOT CLASSIFIED		0	0	0	0	0	0	
D&A	27	TOTAL NET PLANT IN SERVICE		548,073	30,604	2,320,229	2,898,906	643,865	55,817	
D&A	28									
D&A	29	PLANT HELD FOR FUTURE USE								
D&A	30	PRODUCTION PLANT	PRODPLT	0	0	0	0	0	0	
D&A	31	TRANSMISSION	TRANPLT	0	0	0	0	0	0	
D&A	32	DISTRIBUTION	DISTPLT	0	0	0	0	0	0	
D&A	33	GENERAL PLANT	INTGENPLT	0	0	0	0	0	0	
D&A	34	TOTAL PLANT HELD FOR FUTURE USE		0	0	0	0	0	0	
D&A	35									
D&A	36	CONSTRUCTION WORK IN PROGRESS								
D&A	37	PRODUCTION PLANT	PRODPLT	459	25	1,868	2,351	585	0	
D&A	38	TRANSMISSION PLANT	TRANPLT	0	0	0	0	0	0	
D&A	39	DISTRIBUTION PLANT	TOTPLT	22,724	1,298	99,093	123,114	26,358	2,556	
D&A	40	GENERAL & INTANGIBLE PLANT	INTGENPLT	447	21	1,528	1,997	997	54	
D&A	41	TOTAL CONSTRUCTION WORK IN PROGRESS		23,629	1,344	102,489	127,462	27,939	2,610	
D&A	42									
D&A	43	TOTAL NET PLANT IN SERVICE		571,702	31,948	2,422,718	3,026,368	671,804	58,427	
D&A	44									
D&A	45									
D&A	46									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH	LINE	COS Without Minimum System	ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
ID	NO.	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
		(i)							
RBO	1	ADDITIONS AND DEDUCTIONS TO RATE BASE							
RBO	2								
RBO	3	PLUS: ADDITIONS TO RATE BASE							
RBO	4	Fuel Stock	ENEFUEL	1,959	721	6	673	102	457
RBO	5	Cash Working Capital	OMXFPP	93,443,336	56,060,736	494,418	28,394,145	747,286	7,746,751
RBO	6	Utility Material and Supplies:							
RBO	7	Production	PRODPLT	(221,630)	(120,461)	(752)	(69,076)	(4,651)	(26,691)
RBO	8	Transmission	TRANPLT	0	0	0	0	0	0
RBO	9	Distribution	DISTPLT	6,912,502	4,381,288	137,770	2,099,527	26,619	267,298
RBO	10	General	GENLPLT	(534,386)	(338,086)	(3,053)	(158,555)	(4,181)	(30,511)
RBO	11	Total Utility Material and Supplies		6,156,486	3,922,741	133,965	1,871,896	17,787	210,096
RBO	12	Prepayments							
RBO	13	Insurance - Plant Related	TOTPLT	406,548	249,378	5,555	123,687	3,416	24,512
RBO	14	Insurance - Other	SALWAGES	690,905	437,109	3,947	204,995	5,405	39,448
RBO	15	IT Related	TOTPLT	1,622,575	995,292	22,169	493,650	13,635	97,830
RBO	16	Other Prepaid	SALWAGXAG	0	0	0	0	0	0
RBO	17	Total Prepayments		2,720,028	1,681,779	31,670	822,332	22,456	161,790
RBO	18	Cash & Bank Balances	TOTPLT	2,304,085	1,413,331	31,480	700,991	19,361	138,920
RBO	19	TOTAL ADDITIONS TO RATE BASE		104,625,893	63,079,308	691,540	31,790,037	806,992	8,258,015
RBO	20								
RBO	21	LESS: DEDUCTIONS TO RATE BASE							
RBO	22	Accumulated Deferred Income Taxes							
RBO	23	Property	TOTPLT	2,497,687	1,532,088	34,126	759,892	20,988	150,593
RBO	24	Payroll	SALWAGES	150,118	94,974	858	44,541	1,174	8,571
RBO	25	Taxes	TOTPLT	0	0	0	0	0	0
RBO	26	Total Accumulated Deferred Income Taxes		2,647,805	1,627,062	34,983	804,433	22,163	159,165
RBO	27	Customer Deposits	CUSTDEP	14,855,243	12,788,337	465,897	1,595,658	1,873	3,478
RBO	28	Customer Advances for Construction	DISTPLT	3,847,487	2,438,617	76,682	1,168,593	14,816	148,778
RBO	29	TOTAL DEDUCTIONS TO RATE BASE		21,350,535	16,854,016	577,563	3,568,684	38,852	311,420
RBO	30								
RBO	31								
RBO	32	TOTAL RATE BASE		403,564,016	245,990,858	3,870,576	125,650,394	3,006,463	25,045,724
RBO	33								
RBO	34								
RBO	35								
RBO	36								
RBO	37								
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RBO	39								
RBO	40								
RBO	41								
RBO	42								
RBO	43								
RBO	44								
RBO	45								
RBO	46								

COS Without Minimum System			S	S	S	S	S	S	S				
SCH ID	LINE NO.	DESCRIPTION	Allocation Basis	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1	General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1			
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
RBO	1	ADDITIONS AND DEDUCTIONS TO RATE BASE											
RBO	2												
RBO	3	PLUS: ADDITIONS TO RATE BASE											
RBO	4	Fuel Stock	ENEFUEL		656	0	64		179	0	18	227	
RBO	5	Cash Working Capital	OMXFPP		50,848,659	0	5,212,077		14,133,939	0	1,232,846	7,152,357	
RBO	6	Utility Material and Supplies:											
RBO	7	Production	PRODPLT		(109,688)	0	(10,773)		(30,585)	0	(2,802)	(28,053)	
RBO	8	Transmission	TRANPLT		0	0	0		0	0	0	0	
RBO	9	Distribution	DISTPLT		3,945,027	0	436,261		1,175,642	0	103,211	427,186	
RBO	10	General	GENLPLT		(306,464)	0	(31,622)		(84,977)	0	(7,362)	(37,424)	
RBO	11	Total Utility Material and Supplies			3,528,875	0	393,866		1,060,080	0	93,048	361,710	
RBO	12	Prepayments											
RBO	13	Insurance - Plant Related	TOTPLT		225,328	0	24,049		65,414	0	5,777	31,622	
RBO	14	Insurance - Other	SALWAGES		396,225	0	40,884		109,866	0	9,518	48,385	
RBO	15	IT Related	TOTPLT		899,309	0	95,983		261,074	0	23,057	126,206	
RBO	16	Other Prepaid	SALWAGXAG		0	0	0		0	0	0	0	
RBO	17	Total Prepayments			1,520,863	0	160,916		436,354	0	38,352	206,213	
RBO	18	Cash & Bank Balances	TOTPLT		1,277,034	0	136,297		370,729	0	32,742	179,215	
RBO	19	TOTAL ADDITIONS TO RATE BASE			57,176,087	0	5,903,221		16,001,281	0	1,397,005	7,899,722	
RBO	20												
RBO	21	LESS: DEDUCTIONS TO RATE BASE											
RBO	22	Accumulated Deferred Income Taxes											
RBO	23	Property	TOTPLT		1,384,338	0	147,750		401,880	0	35,493	194,274	
RBO	24	Payroll	SALWAGES		86,091	0	8,883		23,872	0	2,068	10,513	
RBO	25	Taxes	TOTPLT		0	0	0		0	0	0	0	
RBO	26	Total Accumulated Deferred Income Taxes			1,470,429	0	156,633		425,751	0	37,561	204,787	
RBO	27	Customer Deposits	CUSTDEP		12,055,780	0	732,557		1,388,283	0	53,711	141,178	
RBO	28	Customer Advances for Construction	DISTPLT		2,195,795	0	242,822		654,360	0	57,447	237,771	
RBO	29	TOTAL DEDUCTIONS TO RATE BASE			15,722,004	0	1,132,012		2,468,394	0	148,719	583,736	
RBO	30												
RBO	31												
RBO	32	TOTAL RATE BASE			221,863,850	0	24,127,007		66,062,170	0	5,868,407	30,399,125	
RBO	33												
RBO	34												
RBO	35												
RBO	36												
RBO	37												
RBO	38												
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RBO	42												
RBO	43												
RBO	44												
RBO	45												
RBO	46												

COS Without Minimum System			S		P		Q		T		Q	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Large Comm & Ind CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Market Pricing RTMP	Light & Power WP-3			
		(a)	(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)		
RBO	1	ADDITIONS AND DEDUCTIONS TO RATE BASE										
RBO	2											
RBO	3	PLUS: ADDITIONS TO RATE BASE										
RBO	4	Fuel Stock	ENEFUEL	538	249	102	187	0	270			
RBO	5	Cash Working Capital	OMXFPP	11,560,037	5,875,003	747,286	4,937,748	51,784	2,757,219			
RBO	6	Utility Material and Supplies:										
RBO	7	Production	PRODPLT	(31,353)	(7,636)	(4,651)	(19,065)	0	(7,626)			
RBO	8	Transmission	TRANPLT	0	0	0	0	0	0			
RBO	9	Distribution	DISTPLT	595,296	393,488	26,619	175,189	596	91,513			
RBO	10	General	GENLPLT	(52,196)	(28,792)	(4,181)	(19,223)	(375)	(10,913)			
RBO	11	Total Utility Material and Supplies		511,747	357,059	17,787	136,900	221	72,975			
RBO	12	Prepayments										
RBO	13	Insurance - Plant Related	TOTPLT	40,895	20,875	3,416	16,604	72	7,835			
RBO	14	Insurance - Other	SALWAGES	67,484	37,225	5,405	24,854	485	14,109			
RBO	15	IT Related	TOTPLT	163,216	83,313	13,635	66,269	289	31,272			
RBO	16	Other Prepaid	SALWAGXAG	0	0	0	0	0	0			
RBO	17	Total Prepayments		271,596	141,412	22,456	107,727	847	53,216			
RBO	18	Cash & Bank Balances	TOTPLT	231,770	118,305	19,361	94,103	411	44,407			
RBO	19	TOTAL ADDITIONS TO RATE BASE		12,575,688	6,492,029	806,992	5,276,667	53,263	2,928,086			
RBO	20											
RBO	21	LESS: DEDUCTIONS TO RATE BASE										
RBO	22	Accumulated Deferred Income Taxes										
RBO	23	Property	TOTPLT	251,245	128,246	20,988	102,010	445	48,138			
RBO	24	Payroll	SALWAGES	14,663	8,088	1,174	5,400	105	3,086			
RBO	25	Taxes	TOTPLT	0	0	0	0	0	0			
RBO	26	Total Accumulated Deferred Income Taxes		265,908	136,334	22,163	107,411	551	51,203			
RBO	27	Customer Deposits	CUSTDEP	16,231	12,486	1,873	1,873	268	1,338			
RBO	28	Customer Advances for Construction	DISTPLT	331,341	219,015	14,816	97,510	332	50,936			
RBO	29	TOTAL DEDUCTIONS TO RATE BASE		613,480	367,834	38,852	206,793	1,150	103,477			
RBO	30											
RBO	31											
RBO	32	TOTAL RATE BASE		42,730,752	23,320,692	3,006,463	16,403,596	135,250	8,506,878			
RBO	33											
RBO	34											
RBO	35											
RBO	36											
RBO	37											
RBO	38											
RBO	39											
RBO	40											
RBO	41											
RBO	42											
RBO	43											
RBO	44											
RBO	45											
RBO	46											

COS Without Minimum System				S	S	S		S	S
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)
									(ag)
RBO	1	ADDITIONS AND DEDUCTIONS TO RATE BASE							
RBO	2								
RBO	3	PLUS: ADDITIONS TO RATE BASE							
RBO	4	Fuel Stock	ENEFUEL	1	0	4	5	1	0
RBO	5	Cash Working Capital	OMXFPP	76,362	3,671	262,875	342,908	145,924	5,586
RBO	6	Utility Material and Supplies:							
RBO	7	Production	PRODPLT	(118)	(6)	(478)	(602)	(150)	0
RBO	8	Transmission	TRANPLT	0	0	0	0	0	0
RBO	9	Distribution	DISTPLT	20,572	1,198	92,057	113,827	21,492	2,450
RBO	10	General	GENLPLT	(446)	(21)	(1,449)	(1,916)	(1,082)	(55)
RBO	11	Total Utility Material and Supplies		20,009	1,171	90,129	111,309	20,261	2,395
RBO	12	Prepayments							
RBO	13	Insurance - Plant Related	TOTPLT	830	47	3,621	4,498	963	93
RBO	14	Insurance - Other	SALWAGES	577	27	1,873	2,477	1,399	71
RBO	15	IT Related	TOTPLT	3,314	189	14,450	17,953	3,844	373
RBO	16	Other Prepaid	SALWAGXAG	0	0	0	0	0	0
RBO	17	Total Prepayments		4,721	263	19,944	24,928	6,205	537
RBO	18	Cash & Bank Balances	TOTPLT	4,705	269	20,519	25,493	5,458	529
RBO	19	TOTAL ADDITIONS TO RATE BASE		105,798	5,374	393,472	504,643	177,849	9,048
RBO	20								
RBO	21	LESS: DEDUCTIONS TO RATE BASE							
RBO	22	Accumulated Deferred Income Taxes							
RBO	23	Property	TOTPLT	5,101	291	22,243	27,635	5,916	574
RBO	24	Payroll	SALWAGES	125	6	407	538	304	15
RBO	25	Taxes	TOTPLT	0	0	0	0	0	0
RBO	26	Total Accumulated Deferred Income Taxes		5,226	297	22,650	28,173	6,220	589
RBO	27	Customer Deposits	CUSTDEP	18,684	2,408	53,399	74,491	391,406	0
RBO	28	Customer Advances for Construction	DISTPLT	11,451	667	51,239	63,356	11,963	1,364
RBO	29	TOTAL DEDUCTIONS TO RATE BASE		35,361	3,372	127,288	166,020	409,589	1,953
RBO	30								
RBO	31								
RBO	32	TOTAL RATE BASE		642,139	33,950	2,688,902	3,364,991	440,063	65,522
RBO	33								
RBO	34								
RBO	35								
RBO	36								
RBO	37								
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RBO	40								
RBO	41								
RBO	42								
RBO	43								
RBO	44								
RBO	45								
RBO	46								

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH	LINE	COS Without Minimum System	ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
ID	NO.	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
REV	1	OPERATING REVENUES							
REV	2								
REV	3	SALES REVENUES							
REV	4	Sales of Electricity Revenues		128,122,723	71,105,776	890,816	41,498,244	935,918	13,691,969
REV	5	TOTAL SALES OF ELECTRICITY		128,122,723	71,105,776	890,816	41,498,244	935,918	13,691,969
REV	6								
REV	7	Revenue Credits:							
REV	8	450-Late Payment Revenues	CUST	427,360	367,899	13,403	45,904	54	100
REV	9	451-Misc Service Revenue	CUST	107,250	92,328	3,364	11,520	14	25
REV	10	453-Sales of Water and Water Power	ENERGY1	55,418	20,388	177	19,047	2,875	12,930
REV	11	454-Rent from Electric Property	DISTPLT	248,928	157,776	4,961	75,607	959	9,626
REV	12	456-Other Electric Revenue							
REV	13	Other Miscellaneous Revenue	DISTPLT	1,175,554	745,091	23,429	357,050	4,527	45,457
REV	14	Ssale for Resale- Energy 447	ENERGY1	357,985	131,703	1,141	123,040	18,575	83,526
REV	15	RTMP - Opportunity Sales	ENERGY1	6,773,819	2,492,090	21,586	2,328,173	351,476	1,580,494
REV	16	Electric True-up	ENERGY1	0	0	0	0	0	0
REV	17	U-20995 Revenue Credit	ENERGY1	2,017,217	742,135	6,428	693,321	104,668	470,665
REV	18	Deferred Revenue Adj	ENERGY1	0	0	0	0	0	0
REV	19	Total Revenue Credits		11,163,532	4,749,409	74,489	3,653,663	483,147	2,202,824
REV	20								
REV	21	Total Revenue Requirements		139,286,255	75,855,185	965,305	45,151,907	1,419,065	15,894,793
REV	22								
REV	23								
REV	24								
REV	25								
REV	26								
REV	27								
REV	28								
REV	29								
REV	30								
REV	31								
REV	32								
REV	33								
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REV	39								
REV	40								
REV	41								
REV	42								
REV	43								
REV	44								
REV	45								
REV	46								

COS Without Minimum System			S	S	S	S	S	S	S	S			
SCH ID	LINE NO.	DESCRIPTION	Allocation Basis	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1		
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
REV	1	OPERATING REVENUES											
REV	2												
REV	3	SALES REVENUES											
REV	4	Sales of Electricity Revenues			65,965,704	0	5,140,072		18,534,075	0	1,315,422	15,047,810	
REV	5	TOTAL SALES OF ELECTRICITY			65,965,704	0	5,140,072		18,534,075	0	1,315,422	15,047,810	
REV	6												
REV	7	Revenue Credits:											
REV	8	450-Late Payment Revenues	CUST		346,824	0	21,074		39,939	0	1,545	4,061	
REV	9	451-Misc Service Revenue	CUST		87,039	0	5,289		10,023	0	388	1,019	
REV	10	453-Sales of Water and Water Power	ENERGY1		18,569	0	1,819		5,056	0	506	6,429	
REV	11	454-Rent from Electric Property	DISTPLT		142,065	0	15,710		42,336	0	3,717	15,384	
REV	12	456-Other Electric Revenue											
REV	13	Other Miscellaneous Revenue	DISTPLT		670,899	0	74,191		199,932	0	17,552	72,648	
REV	14	Ssale for Resale- Energy 447	ENERGY1		119,952	0	11,751		32,660	0	3,268	41,530	
REV	15	RTMP - Opportunity Sales	ENERGY1		2,269,735	0	222,355		617,995	0	61,830	785,842	
REV	16	Electric True-up	ENERGY1		0	0	0		0	0	0	0	
REV	17	U-20995 Revenue Credit	ENERGY1		675,918	0	66,216		184,037	0	18,413	234,021	
REV	18	Deferred Revenue Adj	ENERGY1		0	0	0		0	0	0	0	
REV	19	Total Revenue Credits			4,331,002	0	418,407		1,131,978	0	107,218	1,160,934	
REV	20												
REV	21	Total Revenue Requirements			70,296,706	0	5,558,479		19,666,053	0	1,422,641	16,208,744	
REV	22												
REV	23												
REV	24												
REV	25												
REV	26												
REV	27												
REV	28												
REV	29												
REV	30												
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REV	42												
REV	43												
REV	44												
REV	45												
REV	46												

COS Without Minimum System		Large Comm & Ind		S	P	Q	T	Q	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Market Pricing RTMP	> 5,000kW Light & Power WP-3
	(a)	(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
REV	1	OPERATING REVENUES							
REV	2								
REV	3	SALES REVENUES							
REV	4	Sales of Electricity Revenues		14,663,435	6,600,937	935,918	7,126,580	246,905	6,318,484
REV	5	TOTAL SALES OF ELECTRICITY		14,663,435	6,600,937	935,918	7,126,580	246,905	6,318,484
REV	6								
REV	7	Revenue Credits:							
REV	8	450-Late Payment Revenues	CUST	467	359	54	54	8	38
REV	9	451-Misc Service Revenue	CUST	117	90	14	14	2	10
REV	10	453-Sales of Water and Water Power	ENERGY1	15,235	7,056	2,875	5,303	0	7,627
REV	11	454-Rent from Electric Property	DISTPLT	21,437	14,170	959	6,309	21	3,296
REV	12	456-Other Electric Revenue							
REV	13	Other Miscellaneous Revenue	DISTPLT	101,237	66,917	4,527	29,793	101	15,563
REV	14	Ssale for Resale- Energy 447	ENERGY1	98,412	45,582	18,575	34,255	0	49,271
REV	15	RTMP - Opportunity Sales	ENERGY1	1,862,167	862,506	351,476	648,185	0	932,309
REV	16	Electric True-up	ENERGY1	0	0	0	0	0	0
REV	17	U-20995 Revenue Credit	ENERGY1	554,546	256,851	104,668	193,027	0	277,638
REV	18	Deferred Revenue Adj	ENERGY1	0	0	0	0	0	0
REV	19	Total Revenue Credits		2,653,618	1,253,532	483,147	916,939	132	1,285,753
REV	20								
REV	21	Total Revenue Requirements		17,317,053	7,854,469	1,419,065	8,043,519	247,038	7,604,236
REV	22								
REV	23								
REV	24								
REV	25								
REV	26								
REV	27								
REV	28								
REV	29								
REV	30								
REV	31								
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REV	41								
REV	42								
REV	43								
REV	44								
REV	45								
REV	46								

COS Without Minimum System			S	S	S	S	S	S		
SCH ID	LINE NO.		Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4		
		DESCRIPTION	ALLOCATION BASIS							
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)
REV	1	OPERATING REVENUES								
REV	2									
REV	3	SALES REVENUES								
REV	4	Sales of Electricity Revenues		74,007	10,740	624,851	709,598	181,217	0	
REV	5	TOTAL SALES OF ELECTRICITY		74,007	10,740	624,851	709,598	181,217	0	
REV	6									
REV	7	Revenue Credits:								
REV	8	450-Late Payment Revenues	CUST	538	69	1,536	2,143	11,260	0	
REV	9	451-Misc Service Revenue	CUST	135	17	386	538	2,826	0	
REV	10	453-Sales of Water and Water Power	ENERGY1	24	1	116	142	34	0	
REV	11	454-Rent from Electric Property	DISTPLT	741	43	3,315	4,099	774	88	
REV	12	456-Other Electric Revenue								
REV	13	Other Miscellaneous Revenue	DISTPLT	3,499	204	15,655	19,358	3,655	417	
REV	14	Ssale for Resale- Energy 447	ENERGY1	156	9	753	918	223	0	
REV	15	RTMP - Opportunity Sales	ENERGY1	2,961	174	14,239	17,374	4,212	0	
REV	16	Electric True-up	ENERGY1	0	0	0	0	0	0	
REV	17	U-20995 Revenue Credit	ENERGY1	882	52	4,240	5,174	1,254	0	
REV	18	Deferred Revenue Adj	ENERGY1	0	0	0	0	0	0	
REV	19	Total Revenue Credits		8,935	570	40,240	49,746	24,238	505	
REV	20									
REV	21	Total Revenue Requirements		82,942	11,310	665,092	759,344	205,456	505	
REV	22									
REV	23									
REV	24									
REV	25									
REV	26									
REV	27									
REV	28									
REV	29									
REV	30									
REV	31									
REV	32									
REV	33									
REV	34									
REV	35									
REV	36									
REV	37									
REV	38									
REV	39									
REV	40									
REV	41									
REV	42									
REV	43									
REV	44									
REV	45									
REV	46									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

COS Without Minimum System		ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION	
SCH ID	LINE NO.	DESCRIPTION							
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h) (i)
O&M	1	OPERATION & MAINTENANCE EXPENSE							
O&M	2								
O&M	3	FUEL AND PURCHASED POWER							
O&M	4								
O&M	5	Purchased Power							
O&M	6	555 - Purchased Power - Energy	ENERGY1	32,915,855	12,109,753	104,892	11,313,236	1,707,917	7,680,057
O&M	7	555 - Purchased Power - Demand	DPURCH	3,484,937	2,150,478	31,513	1,265,206	37,740	0
O&M	8	Total Purchased Power		36,400,791	14,260,230	136,405	12,578,442	1,745,657	7,680,057
O&M	9								
O&M	10	Fuel							
O&M	11	501-Fuel (Transportation and Handling)	ENEFUEL	0	0	0	0	0	0
O&M	12	547-Fuel Handling	ENEFUEL	25,461	9,367	81	8,751	1,321	5,941
O&M	13	Total Fuel and Fuel Handling (501 & 547)		25,461	9,367	81	8,751	1,321	5,941
O&M	14								
O&M	15	TOTAL FUEL AND PURCHASED POWER		36,426,252	14,269,597	136,486	12,587,193	1,746,978	7,685,997
O&M	16								
O&M	17								
O&M	18	PRODUCTION EXPENSE							
O&M	19								
O&M	20	Steam Production Operation							
O&M	21	500-Supervision & Engineering	SALWAGPO	0	0	0	0	0	0
O&M	22	502-Steam Expense	DPROD	0	0	0	0	0	0
O&M	23	505-Electric Expense	DPROD	0	0	0	0	0	0
O&M	24	506-Miscellaneous	DPROD	0	0	0	0	0	0
O&M	25	507-Rent	DPROD	0	0	0	0	0	0
O&M	26	508-Supplies and Expenses	DPROD	0	0	0	0	0	0
O&M	27	509-Allowances	DPROD	0	0	0	0	0	0
O&M	28	Total Steam Production Operation		0	0	0	0	0	0
O&M	29								
O&M	30	Steam Production Maintenance							
O&M	31	510-Supervision & Engineering	SALWAGPM	0	0	0	0	0	0
O&M	32	511-Structures	DPROD	11,365	6,177	39	3,542	239	1,369
O&M	33	512-Boilers	ENERGY1	0	0	0	0	0	0
O&M	34	513-Electric Plant	ENERGY1	0	0	0	0	0	0
O&M	35	514-Miscellaneous Plant	DPROD	0	0	0	0	0	0
O&M	36	Total Steam Production Maintenance		11,365	6,177	39	3,542	239	1,369
O&M	37								
O&M	38	Total Steam Production O&M		11,365	6,177	39	3,542	239	1,369
O&M	39								
O&M	40								
O&M	41								
O&M	42								
O&M	43								
O&M	44								
O&M	45								

COS Without Minimum System			S	S	S	S	S	S	S	S			
SCH ID	LINE NO.	DESCRIPTION	Allocation Basis	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1		
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
O&M	1	OPERATION & MAINTENANCE EXPENSE											
O&M	2												
O&M	3	FUEL AND PURCHASED POWER											
O&M	4												
O&M	5	Purchased Power											
O&M	6	555 - Purchased Power - Energy	ENERGY1		11,029,268	0	1,080,485		3,003,010	0	300,448	3,818,622	
O&M	7	555 - Purchased Power - Demand	DPURCH		1,909,151	0	241,327		362,991	0	59,666	426,860	
O&M	8	Total Purchased Power			12,938,419	0	1,321,811		3,366,001	0	360,115	4,245,482	
O&M	9												
O&M	10	Fuel											
O&M	11	501-Fuel (Transportation and Handling)	ENEFUEL		0	0	0		0	0	0	0	
O&M	12	547-Fuel Handling	ENEFUEL		8,531	0	836		2,323	0	232	2,954	
O&M	13	Total Fuel and Fuel Handling (501 & 547)			8,531	0	836		2,323	0	232	2,954	
O&M	14												
O&M	15	TOTAL FUEL AND PURCHASED POWER			12,946,950	0	1,322,647		3,368,324	0	360,347	4,248,435	
O&M	16												
O&M	17												
O&M	18	PRODUCTION EXPENSE											
O&M	19												
O&M	20	Steam Production Operation											
O&M	21	500-Supervision & Engineering	SALWAGPO		0	0	0		0	0	0	0	
O&M	22	502-Steam Expense	DPROD		0	0	0		0	0	0	0	
O&M	23	505-Electric Expense	DPROD		0	0	0		0	0	0	0	
O&M	24	506-Miscellaneous	DPROD		0	0	0		0	0	0	0	
O&M	25	507-Rent	DPROD		0	0	0		0	0	0	0	
O&M	26	508-Supplies and Expenses	DPROD		0	0	0		0	0	0	0	
O&M	27	509-Allowances	DPROD		0	0	0		0	0	0	0	
O&M	28	Total Steam Production Operation			0	0	0		0	0	0	0	
O&M	29												
O&M	30	Steam Production Maintenance											
O&M	31	510-Supervision & Engineering	SALWAGPM		0	0	0		0	0	0	0	
O&M	32	511-Structures	DPROD		5,625	0	552		1,568	0	144	1,439	
O&M	33	512-Boilers	ENERGY1		0	0	0		0	0	0	0	
O&M	34	513-Electric Plant	ENERGY1		0	0	0		0	0	0	0	
O&M	35	514-Miscellaneous Plant	DPROD		0	0	0		0	0	0	0	
O&M	36	Total Steam Production Maintenance			5,625	0	552		1,568	0	144	1,439	
O&M	37												
O&M	38	Total Steam Production O&M			5,625	0	552		1,568	0	144	1,439	
O&M	39												
O&M	40												
O&M	41												
O&M	42												
O&M	43												
O&M	44												
O&M	45												

COS Without Minimum System			Large Comm & Ind		Large Commerical & Industrial		Transmission		Real-Time		Q	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	CP-U Trans	RTMP	Light & Power			
		(a)	(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)		
O&M	1	OPERATION & MAINTENANCE EXPENSE										
O&M	2											
O&M	3	FUEL AND PURCHASED POWER										
O&M	4											
O&M	5	Purchased Power										
O&M	6	555 - Purchased Power - Energy	ENERGY1	9,048,781	4,191,156	1,707,917	3,149,708	0		4,530,349		
O&M	7	555 - Purchased Power - Demand	DPURCH	453,429	415,689	37,740	0	0		0		
O&M	8	Total Purchased Power		9,502,210	4,606,845	1,745,657	3,149,708	0		4,530,349		
O&M	9											
O&M	10	Fuel										
O&M	11	501-Fuel (Transportation and Handling)	ENEFUEL	0	0	0	0	0		0		
O&M	12	547-Fuel Handling	ENEFUEL	6,999	3,242	1,321	2,436	0		3,504		
O&M	13	Total Fuel and Fuel Handling (501 & 547)		6,999	3,242	1,321	2,436	0		3,504		
O&M	14											
O&M	15	TOTAL FUEL AND PURCHASED POWER		9,509,209	4,610,087	1,746,978	3,152,144	0		4,533,853		
O&M	16											
O&M	17											
O&M	18	PRODUCTION EXPENSE										
O&M	19											
O&M	20	Steam Production Operation										
O&M	21	500-Supervision & Engineering	SALWAGPO	0	0	0	0	0		0		
O&M	22	502-Steam Expense	DPROD	0	0	0	0	0		0		
O&M	23	505-Electric Expense	DPROD	0	0	0	0	0		0		
O&M	24	506-Miscellaneous	DPROD	0	0	0	0	0		0		
O&M	25	507-Rent	DPROD	0	0	0	0	0		0		
O&M	26	508-Supplies and Expenses	DPROD	0	0	0	0	0		0		
O&M	27	509-Allowances	DPROD	0	0	0	0	0		0		
O&M	28	Total Steam Production Operation		0	0	0	0	0		0		
O&M	29											
O&M	30	Steam Production Maintenance										
O&M	31	510-Supervision & Engineering	SALWAGPM	0	0	0	0	0		0		
O&M	32	511-Structures	DPROD	1,608	392	239	978	0		391		
O&M	33	512-Boilers	ENERGY1	0	0	0	0	0		0		
O&M	34	513-Electric Plant	ENERGY1	0	0	0	0	0		0		
O&M	35	514-Miscellaneous Plant	DPROD	0	0	0	0	0		0		
O&M	36	Total Steam Production Maintenance		1,608	392	239	978	0		391		
O&M	37											
O&M	38	Total Steam Production O&M		1,608	392	239	978	0		391		
O&M	39											
O&M	40											
O&M	41											
O&M	42											
O&M	43											
O&M	44											
O&M	45											

COS Without Minimum System			S	S	S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
	(a)	(b)		(aa)	(ab)	(ac)	(ad)	(ae)	(af)
									(ag)
O&M	1	OPERATION & MAINTENANCE EXPENSE							
O&M	2								
O&M	3	FUEL AND PURCHASED POWER							
O&M	4								
O&M	5	Purchased Power							
O&M	6	555 - Purchased Power - Energy	ENERGY1	14,388	845	69,191	84,425	20,467	0
O&M	7	555 - Purchased Power - Demand	DPURCH	4,888	216	16,384	21,488	10,026	0
O&M	8	Total Purchased Power		19,276	1,061	85,575	105,912	30,493	0
O&M	9								
O&M	10	Fuel							
O&M	11	501-Fuel (Transportation and Handling)	ENEFUEL	0	0	0	0	0	0
O&M	12	547-Fuel Handling	ENEFUEL	11	1	54	65	16	0
O&M	13	Total Fuel and Fuel Handling (501 & 547)		11	1	54	65	16	0
O&M	14								
O&M	15	TOTAL FUEL AND PURCHASED POWER		19,287	1,062	85,629	105,978	30,508	0
O&M	16								
O&M	17								
O&M	18	PRODUCTION EXPENSE							
O&M	19								
O&M	20	Steam Production Operation							
O&M	21	500-Supervision & Engineering	SALWAGPO	0	0	0	0	0	0
O&M	22	502-Steam Expense	DPROD	0	0	0	0	0	0
O&M	23	505-Electric Expense	DPROD	0	0	0	0	0	0
O&M	24	506-Miscellaneous	DPROD	0	0	0	0	0	0
O&M	25	507-Rent	DPROD	0	0	0	0	0	0
O&M	26	508-Supplies and Expenses	DPROD	0	0	0	0	0	0
O&M	27	509-Allowances	DPROD	0	0	0	0	0	0
O&M	28	Total Steam Production Operation		0	0	0	0	0	0
O&M	29								
O&M	30	Steam Production Maintenance							
O&M	31	510-Supervision & Engineering	SALWAGPM	0	0	0	0	0	0
O&M	32	511-Structures	DPROD	6	0	25	31	8	0
O&M	33	512-Boilers	ENERGY1	0	0	0	0	0	0
O&M	34	513-Electric Plant	ENERGY1	0	0	0	0	0	0
O&M	35	514-Miscellaneous Plant	DPROD	0	0	0	0	0	0
O&M	36	Total Steam Production Maintenance		6	0	25	31	8	0
O&M	37								
O&M	38	Total Steam Production O&M		6	0	25	31	8	0
O&M	39								
O&M	40								
O&M	41								
O&M	42								
O&M	43								
O&M	44								
O&M	45								

COS Without Minimum System			INTEGRATED		TOTAL		TOTAL			
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	COMMERICAL SECONDARY	COMMERICAL PRIMARY	TOTAL TRANSMISSION	
	(a)	(b)		(c)	(d)	(e)	(f)	(g)	(h)	(i)
O&M	46									
O&M	47	OPERATION & MAINTENANCE EXPENSE CONTINUED								
O&M	48	PRODUCTION EXPENSE CONTINUED								
O&M	49									
O&M	50	Hydraulic Power Generation Operation								
O&M	51	535-Supervision & Engineering	SALWAGPO	1,101,140	598,491	3,736	343,193	23,110	132,610	
O&M	52	537-Hydraulic Expenses	DPROD	(26)	(14)	(0)	(8)	(1)	(3)	
O&M	53	538-Electric Expense	DPROD	318,575	173,152	1,081	99,290	6,686	38,366	
O&M	54	539-Miscellaneous	DPROD	13,315	7,237	45	4,150	279	1,604	
O&M	55	540-Rents	DPROD	122,420	66,538	415	38,155	2,569	14,743	
O&M	56	Total Hydraulic Power Generation Operation		1,555,424	845,404	5,277	484,779	32,644	187,320	
O&M	57									
O&M	58	Hydraulic Power Generation Maintenance								
O&M	59	541-Supervision & Engineering	SALWAGPM	215,964	117,381	733	67,310	4,533	26,009	
O&M	60	542-Structures	DPROD	7,737	4,205	26	2,411	162	932	
O&M	61	543-Reservoirs, Dams, and Waterways	DPROD	275,845	149,927	936	85,973	5,789	33,220	
O&M	62	544-Electric Plant	DPROD	1,044,818	567,879	3,545	325,639	21,928	125,828	
O&M	63	545-Miscellaneous Plant	DPROD	43,996	23,913	149	13,712	923	5,298	
O&M	64	Total Hydraulic Power Generation Maintenance		1,588,360	863,305	5,388	495,044	33,336	191,286	
O&M	65									
O&M	66	Total Hydraulic Power Production O&M		3,143,784	1,708,709	10,665	979,824	65,980	378,606	
O&M	67									
O&M	68	Combustion Turbine Production Operation								
O&M	69	546-Supervision & Engineering	SALWAGPO	0	0	0	0	0	0	
O&M	70	548-Generation Expense	DPROD	10,455	5,682	35	3,258	219	1,259	
O&M	71	549-Miscellaneous	DPROD	18,637	10,129	63	5,809	391	2,244	
O&M	72	550-Rents	DPROD	0	0	0	0	0	0	
O&M	73	Total Combustion Turbine Production Operation		29,091	15,812	99	9,067	611	3,503	
O&M	74									
O&M	75	Combustion Turbine Production Maintenance								
O&M	76	551-Supervision & Engineering	SALWAGPM	0	0	0	0	0	0	
O&M	77	552-Structures	DPROD	24,315	13,216	82	7,578	510	2,928	
O&M	78	553-Electric Plant	DPROD	288	157	1	90	6	35	
O&M	79	554-Miscellaneous Plant	DPROD	13,662	7,426	46	4,258	287	1,645	
O&M	80	Total Combustion Turbine Production Maintenance		38,265	20,798	130	11,926	803	4,608	
O&M	81									
O&M	82	Total Combustion Turbine Production O&M		67,356	36,610	229	20,993	1,414	8,112	
O&M	83									
O&M	84	System Control and Dispatch								
O&M	85	556-System Load Control	DPRODLD	372,898	137,189	1,188	128,166	19,349	87,006	
O&M	86	557-Other Expenses	DPROD	0	0	0	0	0	0	
O&M	87	Total System Control and Dispatch		372,898	137,189	1,188	128,166	19,349	87,006	
O&M	88									
O&M	89	TOTAL NON-FUEL PRODUCTION O&M EXPENSE		3,595,404	1,888,685	12,121	1,132,525	86,981	475,093	
O&M	90	TOTAL PRODUCTION O&M EXPENSE		40,021,656	16,158,282	148,607	13,719,718	1,833,959	8,161,090	
O&M	91									
O&M	92									

COS Without Minimum System			S	S	S	S	S	S	S	S
SCH ID	LINE NO.	DESCRIPTION	Integrated Residential A-1	Iron River Residential A-2	Res. Heating AH-1	General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
	(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)
										(r)
										(s)
O&M	46									
O&M	47	OPERATION & MAINTENANCE EXPENSE CONTINUED								
O&M	48	PRODUCTION EXPENSE CONTINUED								
O&M	49									
O&M	50	Hydraulic Power Generation Operation								
O&M	51	535-Supervision & Engineering	SALWAGPO	544,970	0	53,522	151,958	0	13,920	139,375
O&M	52	537-Hydraulic Expenses	DPROD	(13)	0	(1)	(4)	0	(0)	(3)
O&M	53	538-Electric Expense	DPROD	157,667	0	15,485	43,963	0	4,027	40,323
O&M	54	539-Miscellaneous	DPROD	6,590	0	647	1,837	0	168	1,685
O&M	55	540-Rents	DPROD	60,587	0	5,950	16,894	0	1,548	15,495
O&M	56	Total Hydraulic Power Generation Operation		769,801	0	75,603	214,649	0	19,663	196,875
O&M	57									
O&M	58	Hydraulic Power Generation Maintenance								
O&M	59	541-Supervision & Engineering	SALWAGPM	106,884	0	10,497	29,803	0	2,730	27,335
O&M	60	542-Structures	DPROD	3,829	0	376	1,068	0	98	979
O&M	61	543-Reservoirs, Dams, and Waterways	DPROD	136,520	0	13,408	38,067	0	3,487	34,915
O&M	62	544-Electric Plant	DPROD	517,095	0	50,784	144,185	0	13,208	132,246
O&M	63	545-Miscellaneous Plant	DPROD	21,774	0	2,138	6,071	0	556	5,569
O&M	64	Total Hydraulic Power Generation Maintenance		786,102	0	77,203	219,194	0	20,079	201,044
O&M	65									
O&M	66	Total Hydraulic Power Production O&M		1,555,903	0	152,806	433,844	0	39,741	397,919
O&M	67									
O&M	68	Combustion Turbine Production Operation								
O&M	69	546-Supervision & Engineering	SALWAGPO	0	0	0	0	0	0	0
O&M	70	548-Generation Expense	DPROD	5,174	0	508	1,443	0	132	1,323
O&M	71	549-Miscellaneous	DPROD	9,224	0	906	2,572	0	236	2,359
O&M	72	550-Rents	DPROD	0	0	0	0	0	0	0
O&M	73	Total Combustion Turbine Production Operation		14,398	0	1,414	4,015	0	368	3,682
O&M	74									
O&M	75	Combustion Turbine Production Maintenance								
O&M	76	551-Supervision & Engineering	SALWAGPM	0	0	0	0	0	0	0
O&M	77	552-Structures	DPROD	12,034	0	1,182	3,355	0	307	3,078
O&M	78	553-Electric Plant	DPROD	143	0	14	40	0	4	36
O&M	79	554-Miscellaneous Plant	DPROD	6,761	0	664	1,885	0	173	1,729
O&M	80	Total Combustion Turbine Production Maintenance		18,938	0	1,860	5,281	0	484	4,843
O&M	81									
O&M	82	Total Combustion Turbine Production O&M		33,336	0	3,274	9,295	0	851	8,526
O&M	83									
O&M	84	System Control and Dispatch								
O&M	85	556-System Load Control	DPRODLD	124,949	0	12,241	34,021	0	3,404	43,261
O&M	86	557-Other Expenses	DPROD	0	0	0	0	0	0	0
O&M	87	Total System Control and Dispatch		124,949	0	12,241	34,021	0	3,404	43,261
O&M	88									
O&M	89	TOTAL NON-FUEL PRODUCTION O&M EXPENSE		1,719,812	0	168,873	478,728	0	44,140	451,1

COS Without Minimum System			Large Comm & Ind		S	P	Q	T	Q
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Real-Time Market Pricing RTMP	> 5,000kW Light & Power WP-3
	(a)		(b)	(t)	(u)	(v)	(w)	(x)	(y)
									(z)
O&M	46								
O&M	47	OPERATION & MAINTENANCE EXPENSE CONTINUED							
O&M	48	PRODUCTION EXPENSE CONTINUED							
O&M	49								
O&M	50	Hydraulic Power Generation Operation							
O&M	51	535-Supervision & Engineering	SALWAGPO	155,772	37,940	23,110	94,722	0	37,889
O&M	52	537-Hydraulic Expenses	DPROD	(4)	(1)	(1)	(2)	0	(1)
O&M	53	538-Electric Expense	DPROD	45,067	10,977	6,686	27,404	0	10,962
O&M	54	539-Miscellaneous	DPROD	1,884	459	279	1,145	0	458
O&M	55	540-Rents	DPROD	17,318	4,218	2,569	10,531	0	4,212
O&M	56	Total Hydraulic Power Generation Operation		220,037	53,592	32,644	133,800	0	53,520
O&M	57								
O&M	58	Hydraulic Power Generation Maintenance							
O&M	59	541-Supervision & Engineering	SALWAGPM	30,551	7,441	4,533	18,578	0	7,431
O&M	60	542-Structures	DPROD	1,095	267	162	666	0	266
O&M	61	543-Reservoirs, Dams, and Waterways	DPROD	39,022	9,504	5,789	23,729	0	9,491
O&M	62	544-Electric Plant	DPROD	147,804	35,999	21,928	89,877	0	35,951
O&M	63	545-Miscellaneous Plant	DPROD	6,224	1,516	923	3,785	0	1,514
O&M	64	Total Hydraulic Power Generation Maintenance		224,696	54,727	33,336	136,633	0	54,653
O&M	65								
O&M	66	Total Hydraulic Power Production O&M		444,732	108,319	65,980	270,433	0	108,173
O&M	67								
O&M	68	Combustion Turbine Production Operation							
O&M	69	546-Supervision & Engineering	SALWAGPO	0	0	0	0	0	0
O&M	70	548-Generation Expense	DPROD	1,479	360	219	899	0	360
O&M	71	549-Miscellaneous	DPROD	2,636	642	391	1,603	0	641
O&M	72	550-Rents	DPROD	0	0	0	0	0	0
O&M	73	Total Combustion Turbine Production Operation		4,115	1,002	611	2,502	0	1,001
O&M	74								
O&M	75	Combustion Turbine Production Maintenance							
O&M	76	551-Supervision & Engineering	SALWAGPM	0	0	0	0	0	0
O&M	77	552-Structures	DPROD	3,440	838	510	2,092	0	837
O&M	78	553-Electric Plant	DPROD	41	10	6	25	0	10
O&M	79	554-Miscellaneous Plant	DPROD	1,933	471	287	1,175	0	470
O&M	80	Total Combustion Turbine Production Maintenance		5,413	1,318	803	3,292	0	1,317
O&M	81								
O&M	82	Total Combustion Turbine Production O&M		9,529	2,321	1,414	5,794	0	2,318
O&M	83								
O&M	84	System Control and Dispatch							
O&M	85	556-System Load Control	DPRODLD	102,512	47,481	19,349	35,683	0	51,324
O&M	86	557-Other Expenses	DPROD	0	0	0	0	0	0
O&M	87	Total System Control and Dispatch		102,512	47,481	19,349	35,683	0	51,324
O&M	88								
O&M	89	TOTAL NON-FUEL PRODUCTION O&M EXPENSE		558,381	158,512	86,981	312,887	0	162,205
O&M	90	TOTAL PRODUCTION O&M EXPENSE		10,067,590	4,768,599	1,833,959	3,465,032	0	4,696,058
O&M	91								
O&M	92								

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH	LINE	COS Without Minimum System	ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
ID	NO.	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
				SYSTEM			SECONDARY	PRIMARY	(i)
O&M	93	OPERATION & MAINTENANCE EXPENSE CONTINUED							
O&M	94								
O&M	95	TRANSMISSION EXPENSE							
O&M	96	Transmission Operations:							
O&M	97	560-Supervision & Engineering	SALWAGTO	0	0	0	0	0	0
O&M	98	561.000-Load Dispatching	DTRANLD	163,542	60,167	521	56,210	8,486	38,158
O&M	99	561.400-Sched, Sys Control & Disp Serv	DTRAN3	0	0	0	0	0	0
O&M	100	561.420-MISO Reimburse-Bal Auth Costs	DTRAN3	0	0	0	0	0	0
O&M	101	561.800-Reliab, Plan & Stand Devel Serv	DTRAN3	0	0	0	0	0	0
O&M	102	562-Station Equipment	PLT_353	0	0	0	0	0	0
O&M	103	563-Overhead Lines	OHTRAN	0	0	0	0	0	0
O&M	104	564-Underground Lines	UGTRAN	0	0	0	0	0	0
O&M	105	566-Miscellaneous	TRANPLT	0	0	0	0	0	0
O&M	106	567-Rents	TRANPLT	0	0	0	0	0	0
O&M	107	Total Transmission Operations		163,542	60,167	521	56,210	8,486	38,158
O&M	108								
O&M	109	Wheeling:							
O&M	110	565-Wheeling - Network	DTRAN	11,387,496	5,406,251	31,079	3,772,426	79,765	2,097,974
O&M	111	565-Wheeling - ATC Transmission Credit	DTRAN	0	0	0	0	0	0
O&M	112	565-Wheeling - Point to Point	DTRAN	0	0	0	0	0	0
O&M	113	Total Wheeling		11,387,496	5,406,251	31,079	3,772,426	79,765	2,097,974
O&M	114								
O&M	115	Transmission Maintenance							
O&M	116	568-Supervision & Engineering	SALWAGTM	0	0	0	0	0	0
O&M	117	569-Structures	PLT_352	0	0	0	0	0	0
O&M	118	570-Station Equipment	PLT_353	0	0	0	0	0	0
O&M	119	571-Overhead Lines	OHTRAN	0	0	0	0	0	0
O&M	120	572-Underground Lines	UGTRAN	0	0	0	0	0	0
O&M	121	573-Miscellaneous	TRANPLT	0	0	0	0	0	0
O&M	122	Total Transmission Maintenance		0	0	0	0	0	0
O&M	123								
O&M	124	TOTAL TRANSMISSION EXPENSE		11,551,038	5,466,419	31,600	3,828,636	88,251	2,136,132
O&M	125								
O&M	126								
O&M	127	REGIONAL MARKET EXPENSE							
O&M	128	575.1-Operation Supervision	ENERGY3	0	0	0	0	0	0
O&M	129	575.4-Capacity Market Administration	ENERGY3	0	0	0	0	0	0
O&M	130	575.5-Ancillary Services Market Administration	ENERGY3	0	0	0	0	0	0
O&M	131	575.6-Market Monitoring and Compliance	ENERGY3	0	0	0	0	0	0
O&M	132	575.70-Market Facil, Monitoring, & Compliance	ENERGY3	134,868	42,701	370	39,893	6,259	45,645
O&M	133	575.71-Market Fac, Monit, Compl-Transm	ENERGY3	0	0	0	0	0	0
O&M	134	575.72-ARS Monthly Operating Costs	ENERGY3	0	0	0	0	0	0
O&M	135	575.8-Rents	ENERGY3	0	0	0	0	0	0
O&M	136	TOTAL REGIONAL MARKET EXPENSE		134,868	42,701	370	39,893	6,259	45,645
O&M	137								
O&M	138								

COS Without Minimum System			S	S	S	S	S	S	S				
SCH ID	LINE NO.	DESCRIPTION	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1	General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1				
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
O&M	93	OPERATION & MAINTENANCE EXPENSE CONTINUED											
O&M	94												
O&M	95	TRANSMISSION EXPENSE											
O&M	96	Transmission Operations:											
O&M	97	560-Supervision & Engineering	SALWAGTO	0	0	0	0	0	0	0	0	0	0
O&M	98	561.000-Load Dispatching	DTRANLD	54,799	0	5,368	14,920	0	1,493	18,973			
O&M	99	561.400-Sched, Sys Control & Disp Serv	DTRAN3	0	0	0	0	0	0	0	0	0	0
O&M	100	561.420-MISO Reimburse-Bal Auth Costs	DTRAN3	0	0	0	0	0	0	0	0	0	0
O&M	101	561.800-Reliab, Plan & Stand Devel Serv	DTRAN3	0	0	0	0	0	0	0	0	0	0
O&M	102	562-Station Equipment	PLT_353	0	0	0	0	0	0	0	0	0	0
O&M	103	563-Overhead Lines	OHTRAN	0	0	0	0	0	0	0	0	0	0
O&M	104	564-Underground Lines	UGTRAN	0	0	0	0	0	0	0	0	0	0
O&M	105	566-Miscellaneous	TRANPLT	0	0	0	0	0	0	0	0	0	0
O&M	106	567-Rents	TRANPLT	0	0	0	0	0	0	0	0	0	0
O&M	107	Total Transmission Operations		54,799	0	5,368	14,920	0	1,493	18,973			
O&M	108												
O&M	109	Wheeling:											
O&M	110	565-Wheeling - Network	DTRAN	4,922,559	0	483,693	1,379,173	0	124,030	1,168,191			
O&M	111	565-Wheeling - ATC Transmission Credit	DTRAN	0	0	0	0	0	0	0	0	0	0
O&M	112	565-Wheeling - Point to Point	DTRAN	0	0	0	0	0	0	0	0	0	0
O&M	113	Total Wheeling		4,922,559	0	483,693	1,379,173	0	124,030	1,168,191			
O&M	114												
O&M	115	Transmission Maintenance											
O&M	116	568-Supervision & Engineering	SALWAGTM	0	0	0	0	0	0	0	0	0	0
O&M	117	569-Structures	PLT_352	0	0	0	0	0	0	0	0	0	0
O&M	118	570-Station Equipment	PLT_353	0	0	0	0	0	0	0	0	0	0
O&M	119	571-Overhead Lines	OHTRAN	0	0	0	0	0	0	0	0	0	0
O&M	120	572-Underground Lines	UGTRAN	0	0	0	0	0	0	0	0	0	0
O&M	121	573-Miscellaneous	TRANPLT	0	0	0	0	0	0	0	0	0	0
O&M	122	Total Transmission Maintenance		0	0	0	0	0	0	0	0	0	0
O&M	123												
O&M	124	TOTAL TRANSMISSION EXPENSE		4,977,357	0	489,061	1,394,094	0	125,523	1,187,164			
O&M	125												
O&M	126												
O&M	127	REGIONAL MARKET EXPENSE											
O&M	128	575.1-Operation Supervision	ENERGY3	0	0	0	0	0	0	0	0	0	0
O&M	129	575.4-Capacity Market Administration	ENERGY3	0	0	0	0	0	0	0	0	0	0
O&M	130	575.5-Ancillary Services Market Administration	ENERGY3	0	0	0	0	0	0	0	0	0	0
O&M	131	575.6-Market Monitoring and Compliance	ENERGY3	0	0	0	0	0	0	0	0	0	0
O&M	132	575.70-Market Facil, Monitoring, & Compliance	ENERGY3	38,891	0	3,810	10,589	0	1,059	13,465			
O&M	133	575.71-Market Fac, Monit, Compl-Transm	ENERGY3	0	0	0	0	0	0	0	0	0	0
O&M	134	575.72-ARS Monthly Operating Costs	ENERGY3	0	0	0	0	0	0	0	0	0	0
O&M	135	575.8-Rents	ENERGY3	0	0	0	0	0	0	0	0	0	0
O&M	136	TOTAL REGIONAL MARKET EXPENSE		38,891	0	3,810	10,589	0	1,059	13,465			
O&M	137												
O&M	138												

COS Without Minimum System			S		P		Q		T		Q	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Large Comm & Ind CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Market Pricing RTMP	Light & Power WP-3			
		(a)	(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)		
O&M	93	OPERATION & MAINTENANCE EXPENSE CONTINUED										
O&M	94											
O&M	95	TRANSMISSION EXPENSE										
O&M	96	Transmission Operations:										
O&M	97	560-Supervision & Engineering	SALWAGTO	0	0	0	0	0	0			
O&M	98	561.000-Load Dispatching	DTRANLD	44,959	20,824	8,486	15,649	0	22,509			
O&M	99	561.400-Sched, Sys Control & Disp Serv	DTRAN3	0	0	0	0	0	0			
O&M	100	561.420-MISO Reimburse-Bal Auth Costs	DTRAN3	0	0	0	0	0	0			
O&M	101	561.800-Reliab, Plan & Stand Devel Serv	DTRAN3	0	0	0	0	0	0			
O&M	102	562-Station Equipment	PLT_353	0	0	0	0	0	0			
O&M	103	563-Overhead Lines	OHTRAN	0	0	0	0	0	0			
O&M	104	564-Underground Lines	UGTRAN	0	0	0	0	0	0			
O&M	105	566-Miscellaneous	TRANPLT	0	0	0	0	0	0			
O&M	106	567-Rents	TRANPLT	0	0	0	0	0	0			
O&M	107	Total Transmission Operations		44,959	20,824	8,486	15,649	0	22,509			
O&M	108											
O&M	109	Wheeling:										
O&M	110	565-Wheeling - Network	DTRAN	2,566,347	1,101,032	79,765	1,385,550	0	712,424			
O&M	111	565-Wheeling - ATC Transmission Credit	DTRAN	0	0	0	0	0	0			
O&M	112	565-Wheeling - Point to Point	DTRAN	0	0	0	0	0	0			
O&M	113	Total Wheeling		2,566,347	1,101,032	79,765	1,385,550	0	712,424			
O&M	114											
O&M	115	Transmission Maintenance										
O&M	116	568-Supervision & Engineering	SALWAGTM	0	0	0	0	0	0			
O&M	117	569-Structures	PLT_352	0	0	0	0	0	0			
O&M	118	570-Station Equipment	PLT_353	0	0	0	0	0	0			
O&M	119	571-Overhead Lines	OHTRAN	0	0	0	0	0	0			
O&M	120	572-Underground Lines	UGTRAN	0	0	0	0	0	0			
O&M	121	573-Miscellaneous	TRANPLT	0	0	0	0	0	0			
O&M	122	Total Transmission Maintenance		0	0	0	0	0	0			
O&M	123											
O&M	124	TOTAL TRANSMISSION EXPENSE		2,611,306	1,121,855	88,251	1,401,199	0	734,933			
O&M	125											
O&M	126											
O&M	127	REGIONAL MARKET EXPENSE										
O&M	128	575.1-Operation Supervision	ENERGY3	0	0	0	0	0	0			
O&M	129	575.4-Capacity Market Administration	ENERGY3	0	0	0	0	0	0			
O&M	130	575.5-Ancillary Services Market Administration	ENERGY3	0	0	0	0	0	0			
O&M	131	575.6-Market Monitoring and Compliance	ENERGY3	0	0	0	0	0	0			
O&M	132	575.70-Market Facil, Monitoring, & Compliance	ENERGY3	32,730	14,779	6,259	11,691	17,138	16,816			
O&M	133	575.71-Market Fac, Monit, Compl-Transm	ENERGY3	0	0	0	0	0	0			
O&M	134	575.72-ARS Monthly Operating Costs	ENERGY3	0	0	0	0	0	0			
O&M	135	575.8-Rents	ENERGY3	0	0	0	0	0	0			
O&M	136	TOTAL REGIONAL MARKET EXPENSE		32,730	14,779	6,259	11,691	17,138	16,816			
O&M	137											
O&M	138											

COS Without Minimum System			S	S	S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
	(a)		(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)
									(ag)
O&M	93	OPERATION & MAINTENANCE EXPENSE CONTINUED							
O&M	94								
O&M	95	TRANSMISSION EXPENSE							
O&M	96	Transmission Operations:							
O&M	97	560-Supervision & Engineering	SALWAGTO	0	0	0	0	0	0
O&M	98	561.000-Load Dispatching	DTRANLD	71	4	344	419	102	0
O&M	99	561.400-Sched, Sys Control & Disp Serv	DTRAN3	0	0	0	0	0	0
O&M	100	561.420-MISO Reimburse-Bal Auth Costs	DTRAN3	0	0	0	0	0	0
O&M	101	561.800-Reliab, Plan & Stand Devel Serv	DTRAN3	0	0	0	0	0	0
O&M	102	562-Station Equipment	PLT_353	0	0	0	0	0	0
O&M	103	563-Overhead Lines	OHTRAN	0	0	0	0	0	0
O&M	104	564-Underground Lines	UGTRAN	0	0	0	0	0	0
O&M	105	566-Miscellaneous	TRANPLT	0	0	0	0	0	0
O&M	106	567-Rents	TRANPLT	0	0	0	0	0	0
O&M	107	Total Transmission Operations		71	4	344	419	102	0
O&M	108								
O&M	109	Wheeling:							
O&M	110	565-Wheeling - Network	DTRAN	5,039	264	19,549	24,853	6,227	0
O&M	111	565-Wheeling - ATC Transmission Credit	DTRAN	0	0	0	0	0	0
O&M	112	565-Wheeling - Point to Point	DTRAN	0	0	0	0	0	0
O&M	113	Total Wheeling		5,039	264	19,549	24,853	6,227	0
O&M	114								
O&M	115	Transmission Maintenance							
O&M	116	568-Supervision & Engineering	SALWAGTM	0	0	0	0	0	0
O&M	117	569-Structures	PLT_352	0	0	0	0	0	0
O&M	118	570-Station Equipment	PLT_353	0	0	0	0	0	0
O&M	119	571-Overhead Lines	OHTRAN	0	0	0	0	0	0
O&M	120	572-Underground Lines	UGTRAN	0	0	0	0	0	0
O&M	121	573-Miscellaneous	TRANPLT	0	0	0	0	0	0
O&M	122	Total Transmission Maintenance		0	0	0	0	0	0
O&M	123								
O&M	124	TOTAL TRANSMISSION EXPENSE		5,111	269	19,892	25,272	6,328	0
O&M	125								
O&M	126								
O&M	127	REGIONAL MARKET EXPENSE							
O&M	128	575.1-Operation Supervision	ENERGY3	0	0	0	0	0	0
O&M	129	575.4-Capacity Market Administration	ENERGY3	0	0	0	0	0	0
O&M	130	575.5-Ancillary Services Market Administration	ENERGY3	0	0	0	0	0	0
O&M	131	575.6-Market Monitoring and Compliance	ENERGY3	0	0	0	0	0	0
O&M	132	575.70-Market Facil, Monitoring, & Compliance	ENERGY3	51	3	244	298	72	0
O&M	133	575.71-Market Fac, Monit, Compl-Transm	ENERGY3	0	0	0	0	0	0
O&M	134	575.72-ARS Monthly Operating Costs	ENERGY3	0	0	0	0	0	0
O&M	135	575.8-Rents	ENERGY3	0	0	0	0	0	0
O&M	136	TOTAL REGIONAL MARKET EXPENSE		51	3	244	298	72	0
O&M	137								
O&M	138								

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH	LINE	COS Without Minimum System	ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
ID	NO.	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
				SYSTEM			SECONDARY	PRIMARY	(i)
O&M	139	OPERATION & MAINTENANCE EXPENSE CONTINUED							
O&M	140								
O&M	141	DISTRIBUTION EXPENSES							
O&M	142								
O&M	143	Operation							
O&M	144	580-Supervision	SALWAGDO	1,731,495	1,075,196	20,428	494,405	8,740	132,725
O&M	145	581-Load Dispatch	DDISPSUB	0	0	0	0	0	0
O&M	146	582-Station Equipment	PLT_362	1,295,730	614,789	3,534	428,993	9,072	239,342
O&M	147	583-Overhead Lines	OHDIST	78,380	51,848	253	25,951	328	0
O&M	148	584-Underground Lines	UGDIST	12,435	8,220	40	4,114	61	0
O&M	149	585-Street Lighting	PLT_373	12,158	0	12,158	0	0	0
O&M	150	586-Metering	CMETERS	1,156,456	890,842	902	240,871	5,389	18,452
O&M	151	587-Customer Installations	PLT_371	0	0	0	0	0	0
O&M	152	588-Miscellaneous	DISTPLT	1,521,531	964,378	30,325	462,133	5,859	58,836
O&M	153	589-Rents	DISTPLT	108,930	69,042	2,171	33,085	419	4,212
O&M	154	Total Distribution Operation		5,917,116	3,674,315	69,811	1,689,554	29,869	453,566
O&M	155								
O&M	156	Maintenance							
O&M	157	590-Supervision	SALWAGDM	2,354	1,477	8	779	11	79
O&M	158	591-Structures	PLT_361	0	0	0	0	0	0
O&M	159	592-Station Equipment	PLT_362	2,780,830	1,319,429	7,585	920,684	19,469	513,663
O&M	160	593-Overhead Lines	OHDIST	11,157,950	7,380,961	35,946	3,694,321	46,723	0
O&M	161	594-Underground Lines	UGDIST	870,142	575,168	2,801	287,883	4,290	0
O&M	162	595-Transformers	PLT_368	484,942	322,137	1,569	161,236	0	0
O&M	163	596-Street Lighting	PLT_373	3,367	0	3,367	0	0	0
O&M	164	597-Metering	CMETERS	3,120	2,403	2	650	15	50
O&M	165	598-Miscellaneous	DISTPLT	4,764	3,019	95	1,447	18	184
O&M	166	Total Distribution Maintenance		15,307,469	9,604,595	51,373	5,067,000	70,526	513,976
O&M	167								
O&M	168	TOTAL DISTRIBUTION EXPENSES		21,224,585	13,278,910	121,184	6,756,554	100,395	967,542
O&M	169								
O&M	170	TOTAL OPER & MAINT PROD,TRAN,& DIST EXCL COST OF FUEL & PP		36,505,896	20,676,715	165,275	11,757,608	281,886	3,624,412
O&M	171								
O&M	172								
O&M	173	CUSTOMER ACCOUNTS EXPENSES							
O&M	174	901-Supervision	SALWAGCA	563,522	500,272	731	62,421	73	24
O&M	175	902-Meter Reading	CMETRDG	281,502	249,857	365	31,176	37	68
O&M	176	903-Customer Records and Collection Expense	CUSTREC	1,287,997	1,143,482	1,671	142,677	167	0
O&M	177	904-Uncollectible Accounts	EXP_904	327,726	295,333	3,318	25,770	1,152	2,152
O&M	178	905-Miscellaneous CA	CUSTCSS	0	0	0	0	0	0
O&M	179	TOTAL CUSTOMER ACCTS EXPENSE		2,460,747	2,188,944	6,085	262,044	1,429	2,244
O&M	180								
O&M	181								
O&M	182								
O&M	183								
O&M	184								

COS Without Minimum System			S	S	S	S	S	S	S	S			
SCH ID	LINE NO.	DESCRIPTION	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1			
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
O&M	139	OPERATION & MAINTENANCE EXPENSE CONTINUED											
O&M	140												
O&M	141	DISTRIBUTION EXPENSES											
O&M	142												
O&M	143	Operation											
O&M	144	580-Supervision	SALWAGDO		988,282	0	86,914	250,729	0	20,179	126,587		
O&M	145	581-Load Dispatch	DDISPSUB		0	0	0	0	0	0	0		
O&M	146	582-Station Equipment	PLT_362		559,784	0	55,005	156,837	0	14,104	132,845		
O&M	147	583-Overhead Lines	OHDIST		46,030	0	5,819	15,695	0	1,448	4,401		
O&M	148	584-Underground Lines	UGDIST		7,297	0	922	2,488	0	229	698		
O&M	149	585-Street Lighting	PLT_373		0	0	0	0	0	0	0		
O&M	150	586-Metering	CMETERS		845,388	0	45,453	153,779	0	8,653	67,300		
O&M	151	587-Customer Installations	PLT_371		0	0	0	0	0	0	0		
O&M	152	588-Miscellaneous	DISTPLT		868,352	0	96,027	258,774	0	22,718	94,029		
O&M	153	589-Rents	DISTPLT		62,167	0	6,875	18,526	0	1,626	6,732		
O&M	154	Total Distribution Operation			3,377,301	0	297,014	856,829	0	68,958	432,591		
O&M	155												
O&M	156	Maintenance											
O&M	157	590-Supervision	SALWAGDM		1,316	0	161	437	0	40	152		
O&M	158	591-Structures	PLT_361		0	0	0	0	0	0	0		
O&M	159	592-Station Equipment	PLT_362		1,201,381	0	118,048	336,596	0	30,270	285,104		
O&M	160	593-Overhead Lines	OHDIST		6,552,636	0	828,325	2,234,341	0	206,062	626,473		
O&M	161	594-Underground Lines	UGDIST		510,620	0	64,548	174,113	0	16,058	48,818		
O&M	162	595-Transformers	PLT_368		285,985	0	36,152	97,516	0	8,993	27,342		
O&M	163	596-Street Lighting	PLT_373		0	0	0	0	0	0	0		
O&M	164	597-Metering	CMETERS		2,281	0	123	415	0	23	182		
O&M	165	598-Miscellaneous	DISTPLT		2,719	0	301	810	0	71	294		
O&M	166	Total Distribution Maintenance			8,556,938	0	1,047,657	2,844,228	0	261,518	988,366		
O&M	167												
O&M	168	TOTAL DISTRIBUTION EXPENSES			11,934,239	0	1,344,671	3,701,057	0	330,476	1,420,957		
O&M	169												
O&M	170	TOTAL OPER & MAINT PROD,TRAN,& DIST EXCL COST OF FUEL & PP			18,670,300	0	2,006,415	5,584,468	0	501,199	3,072,730		
O&M	171												
O&M	172												
O&M	173	CUSTOMER ACCOUNTS EXPENSES											
O&M	174	901-Supervision	SALWAGCA		471,615	0	28,657	54,309	0	2,101	5,523		
O&M	175	902-Meter Reading	CMETRDG		235,544	0	14,313	27,124	0	1,049	2,758		
O&M	176	903-Customer Records and Collection Expense	CUSTREC		1,077,979	0	65,502	124,135	0	4,803	12,624		
O&M	177	904-Uncollectible Accounts	EXP_904		267,407	0	27,926	20,389	0	985	1,676		
O&M	178	905-Miscellaneous CA	CUSTCSS		0	0	0	0	0	0	0		
O&M	179	TOTAL CUSTOMER ACCTS EXPENSE			2,052,546	0	136,398	225,956	0	8,938	22,581		
O&M	180												
O&M	181												
O&M	182												
O&M	183												
O&M	184												

COS Without Minimum System		Large Comm & Ind		Large Commerical & Industrial		Real-Time		Q	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Market Pricing RTMP	Light & Power WP-3
	(a)	(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
O&M	139	OPERATION & MAINTENANCE EXPENSE CONTINUED							
O&M	140								
O&M	141	DISTRIBUTION EXPENSES							
O&M	142								
O&M	143	Operation							
O&M	144	580-Supervision	SALWAGDO	191,353	96,910	8,740	85,702	868	46,155
O&M	145	581-Load Dispatch	DDISPSUB	0	0	0	0	0	0
O&M	146	582-Station Equipment	PLT_362	292,346	125,207	9,072	158,067	0	81,275
O&M	147	583-Overhead Lines	OHDIST	4,736	4,408	328	0	0	0
O&M	148	584-Underground Lines	UGDIST	760	699	61	0	0	0
O&M	149	585-Street Lighting	PLT_373	0	0	0	0	0	0
O&M	150	586-Metering	CMETERS	24,312	11,140	5,389	7,783	1,957	8,712
O&M	151	587-Customer Installations	PLT_371	0	0	0	0	0	0
O&M	152	588-Miscellaneous	DISTPLT	131,032	86,612	5,859	38,561	131	20,143
O&M	153	589-Rents	DISTPLT	9,381	6,201	419	2,761	9	1,442
O&M	154	Total Distribution Operation		653,920	331,176	29,869	292,874	2,965	157,727
O&M	155								
O&M	156	Maintenance							
O&M	157	590-Supervision	SALWAGDM	213	150	11	52	0	27
O&M	158	591-Structures	PLT_361	0	0	0	0	0	0
O&M	159	592-Station Equipment	PLT_362	627,418	268,714	19,469	339,235	0	174,428
O&M	160	593-Overhead Lines	OHDIST	674,168	627,445	46,723	0	0	0
O&M	161	594-Underground Lines	UGDIST	53,184	48,894	4,290	0	0	0
O&M	162	595-Transformers	PLT_368	27,384	27,384	0	0	0	0
O&M	163	596-Street Lighting	PLT_373	0	0	0	0	0	0
O&M	164	597-Metering	CMETERS	66	30	15	21	5	24
O&M	165	598-Miscellaneous	DISTPLT	410	271	18	121	0	63
O&M	166	Total Distribution Maintenance		1,382,842	972,888	70,526	339,429	6	174,542
O&M	167								
O&M	168	TOTAL DISTRIBUTION EXPENSES		2,036,762	1,304,064	100,395	632,303	2,971	332,268
O&M	169								
O&M	170	TOTAL OPER & MAINT PROD,TRAN,& DIST EXCL COST OF FUEL & PP		5,239,178	2,599,211	281,886	2,358,081	20,109	1,246,222
O&M	171								
O&M	172								
O&M	173	CUSTOMER ACCOUNTS EXPENSES							
O&M	174	901-Supervision	SALWAGCA	575	488	73	13	2	9
O&M	175	902-Meter Reading	CMETRDG	317	244	37	37	5	26
O&M	176	903-Customer Records and Collection Expense	CUSTREC	1,284	1,116	167	0	0	0
O&M	177	904-Uncollectible Accounts	EXP_904	6,024	2,720	1,152	2,152	0	0
O&M	178	905-Miscellaneous CA	CUSTCSS	0	0	0	0	0	0
O&M	179	TOTAL CUSTOMER ACCTS EXPENSE		8,200	4,569	1,429	2,201	7	36
O&M	180								
O&M	181								
O&M	182								
O&M	183								
O&M	184								

COS Without Minimum System			S	S	S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	Allocation Basis	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
	(a)		(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)
									(ag)
O&M	139	OPERATION & MAINTENANCE EXPENSE CONTINUED							
O&M	140								
O&M	141	DISTRIBUTION EXPENSES							
O&M	142								
O&M	143	Operation							
O&M	144	580-Supervision	SALWAGDO	2,639	130	9,973	12,742	6,825	862
O&M	145	581-Load Dispatch	DDISPSUB	0	0	0	0	0	0
O&M	146	582-Station Equipment	PLT_362	573	30	2,223	2,826	708	0
O&M	147	583-Overhead Lines	OHDIST	44	2	148	194	59	0
O&M	148	584-Underground Lines	UGDIST	7	0	23	31	9	0
O&M	149	585-Street Lighting	PLT_373	2,072	122	9,964	12,158	0	0
O&M	150	586-Metering	CMETERS	902	0	0	902	0	0
O&M	151	587-Customer Installations	PLT_371	0	0	0	0	0	0
O&M	152	588-Miscellaneous	DISTPLT	4,528	264	20,263	25,055	4,731	539
O&M	153	589-Rents	DISTPLT	324	19	1,451	1,794	339	39
O&M	154	Total Distribution Operation		11,089	567	44,045	55,701	12,671	1,440
O&M	155								
O&M	156	Maintenance							
O&M	157	590-Supervision	SALWAGDM	1	0	5	6	2	0
O&M	158	591-Structures	PLT_361	0	0	0	0	0	0
O&M	159	592-Station Equipment	PLT_362	1,230	65	4,771	6,065	1,520	0
O&M	160	593-Overhead Lines	OHDIST	6,270	277	21,015	27,562	8,384	0
O&M	161	594-Underground Lines	UGDIST	489	22	1,638	2,148	653	0
O&M	162	595-Transformers	PLT_368	274	12	917	1,203	366	0
O&M	163	596-Street Lighting	PLT_373	574	34	2,759	3,367	0	0
O&M	164	597-Metering	CMETERS	2	0	0	2	0	0
O&M	165	598-Miscellaneous	DISTPLT	14	1	63	78	15	2
O&M	166	Total Distribution Maintenance		8,854	409	31,169	40,432	10,939	2
O&M	167								
O&M	168	TOTAL DISTRIBUTION EXPENSES		19,943	976	75,213	96,132	23,610	1,441
O&M	169								
O&M	170	TOTAL OPER & MAINT PROD,TRAN,& DIST EXCL COST OF FUEL & PP		26,976	1,349	103,089	131,414	32,419	1,441
O&M	171								
O&M	172								
O&M	173	CUSTOMER ACCOUNTS EXPENSES							
O&M	174	901-Supervision	SALWAGCA	731	0	0	731	0	0
O&M	175	902-Meter Reading	CMETRDG	365	0	0	365	0	0
O&M	176	903-Customer Records and Collection Expense	CUSTREC	1,671	0	0	1,671	0	0
O&M	177	904-Uncollectible Accounts	EXP_904	0	0	0	0	3,318	0
O&M	178	905-Miscellaneous CA	CUSTCSS	0	0	0	0	0	0
O&M	179	TOTAL CUSTOMER ACCTS EXPENSE		2,767	0	0	2,767	3,318	0
O&M	180								
O&M	181								
O&M	182								
O&M	183								
O&M	184								

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

COS Without Minimum System				INTEGRATED		TOTAL		TOTAL		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	COMMERICAL SECONDARY	COMMERICAL PRIMARY	TOTAL TRANSMISSION	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
O&M	185	OPERATION & MAINTENANCE EXPENSE CONTINUED								
O&M	186									
O&M	187	CUSTOMER SERVICE EXPENSES								
O&M	188	907-Supervision	SALWAGCS	0	0	0	0	0	0	
O&M	189	908-Customer Assistance	CUSTCSS	1,102,208	674,313	19,015	245,936	29,370	133,573	
O&M	190	908-Cust Assist - Energy Optimization	CUSTCSS	0	0	0	0	0	0	
O&M	191	909-Informational and Instructional Expenses	CUSTCSS	474,634	290,373	8,188	105,905	12,647	57,519	
O&M	192	910-Miscellaneous Cust Serv	CUSTCSS	0	0	0	0	0	0	
O&M	193	TOTAL CUSTOMER SERVICE EXPENSE		1,576,842	964,686	27,204	351,842	42,018	191,093	
O&M	194									
O&M	195	SALES EXPENSES								
O&M	196	912-Demonstrations and Selling	CUSTCSS	0	0	0	0	0	0	
O&M	197	916-Miscellaneous Sales Expense	CUSTCSS	0	0	0	0	0	0	
O&M	198	SALES EXPENSES TOTAL		0	0	0	0	0	0	
O&M	199									
O&M	200	TOTAL CUSTOMER OPERATIONS EXPENSE		4,037,589	3,153,630	33,289	613,886	43,447	193,337	
O&M	201									
O&M	202	TOTAL OPER & MAINT EXCL COST OF GAS AND A&G EXP		40,543,484	23,830,345	198,563	12,371,494	325,333	3,817,749	
O&M	203									
O&M	204	ADMINISTRATIVE & GENERAL EXPENSE								
O&M	205	920-Administrative Salaries	SALWAGXAG	5,561,949	3,518,837	31,773	1,650,260	43,514	317,566	
O&M	206	921-Office Supplies & Expense	SALWAGXAG	289,722	183,297	1,655	85,962	2,267	16,542	
O&M	207	922-A&G Expense Transferred	SALWAGXAG	0	0	0	0	0	0	
O&M	208	923-Outside Services - Legal	SALWAGXAG	620,284	392,430	3,543	184,042	4,853	35,416	
O&M	209	924-Property Insurance	TOTPLT	1,209,165	741,705	16,521	367,874	10,161	72,904	
O&M	210	925-Injuries and Damages	SALWAGXAG	1,340,764	848,251	7,659	397,812	10,489	76,553	
O&M	211	926-Pensions & Benefits	SALWAGES	6,580,104	4,162,985	37,589	1,952,351	51,479	375,699	
O&M	212	928-Regulatory Commission	SALWAGES	819,732	518,613	4,683	243,219	6,413	46,804	
O&M	213	929-Duplicate Charges - Electric	SALWAGXAG	0	0	0	0	0	0	
O&M	214	930-Miscellaneous	SALWAGXAG	41,788	26,438	239	12,399	327	2,386	
O&M	215	931-Rents	GENLPLT	3,787	2,396	22	1,124	30	216	
O&M	216	935-Maintenance of General Plant	GENLPLT	2,343,417	1,482,592	13,387	695,304	18,334	133,800	
O&M	217	TOTAL A&G EXPENSE		18,810,713	11,877,545	117,070	5,590,346	147,866	1,077,886	
O&M	218									
O&M	219	TOTAL OPERATION & MAINTENANCE EXP (INCL FUEL)		95,780,449	49,977,487	452,120	30,549,033	2,220,177	12,581,632	
O&M	220									
O&M	221	TOTAL OPERATION & MAINTENANCE EXP (EXCL FUEL)		59,354,197	35,707,890	315,633	17,961,840	473,199	4,895,635	
O&M	222									
O&M	223									
O&M	224									
O&M	225									
O&M	226									
O&M	227									
O&M	228									
O&M	229									
O&M	230									

COS Without Minimum System			S	S	S	S	S	S	S				
SCH ID	LINE NO.	DESCRIPTION	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1			
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
O&M	185	OPERATION & MAINTENANCE EXPENSE CONTINUED											
O&M	186												
O&M	187	CUSTOMER SERVICE EXPENSES											
O&M	188	907-Supervision	SALWAGCS		0	0	0		0	0	0	0	
O&M	189	908-Customer Assistance	CUSTCSS	629,301	0	45,011		101,072	0	6,952		68,269	
O&M	190	908-Cust Assist - Energy Optimization	CUSTCSS	0	0	0		0	0	0	0	0	
O&M	191	909-Informational and Instructional Expenses	CUSTCSS	270,990	0	19,383		43,524	0	2,994		29,398	
O&M	192	910-Miscellaneous Cust Serv	CUSTCSS	0	0	0		0	0	0	0	0	
O&M	193	TOTAL CUSTOMER SERVICE EXPENSE		900,292	0	64,394		144,595	0	9,946		97,667	
O&M	194												
O&M	195	SALES EXPENSES											
O&M	196	912-Demonstrations and Selling	CUSTCSS	0	0	0		0	0	0	0	0	
O&M	197	916-Miscellaneous Sales Expense	CUSTCSS	0	0	0		0	0	0	0	0	
O&M	198	SALES EXPENSES TOTAL		0	0	0		0	0	0	0	0	
O&M	199												
O&M	200	TOTAL CUSTOMER OPERATIONS EXPENSE		2,952,837	0	200,793		370,552	0	18,884		120,248	
O&M	201												
O&M	202	TOTAL OPER & MAINT EXCL COST OF GAS AND A&G EXP		21,623,137	0	2,207,208		5,955,020	0	520,083		3,192,977	
O&M	203												
O&M	204	ADMINISTRATIVE & GENERAL EXPENSE											
O&M	205	920-Administrative Salaries	SALWAGXAG	3,189,710	0	329,126		884,452	0	76,624		389,512	
O&M	206	921-Office Supplies & Expense	SALWAGXAG	166,152	0	17,144		46,071	0	3,991		20,290	
O&M	207	922-A&G Expense Transferred	SALWAGXAG	0	0	0		0	0	0	0	0	
O&M	208	923-Outside Services - Legal	SALWAGXAG	355,725	0	36,705		98,637	0	8,545		43,439	
O&M	209	924-Property Insurance	TOTPLT	670,177	0	71,528		194,556	0	17,182		94,051	
O&M	210	925-Injuries and Damages	SALWAGXAG	768,912	0	79,339		213,206	0	18,471		93,896	
O&M	211	926-Pensions & Benefits	SALWAGES	3,773,610	0	389,375		1,046,357	0	90,650		460,815	
O&M	212	928-Regulatory Commission	SALWAGES	470,106	0	48,507		130,352	0	11,293		57,407	
O&M	213	929-Duplicate Charges - Electric	SALWAGXAG	0	0	0		0	0	0	0	0	
O&M	214	930-Miscellaneous	SALWAGXAG	23,965	0	2,473		6,645	0	576		2,926	
O&M	215	931-Rents	GENLPLT	2,172	0	224		602	0	52		265	
O&M	216	935-Maintenance of General Plant	GENLPLT	1,343,921	0	138,671		372,646	0	32,284		164,113	
O&M	217	TOTAL A&G EXPENSE		10,764,451	0	1,113,093		2,993,524	0	259,669		1,326,713	
O&M	218												
O&M	219	TOTAL OPERATION & MAINTENANCE EXP (INCL FUEL)		45,334,539	0	4,642,949		12,316,868	0	1,140,099		8,768,126	
O&M	220												
O&M	221	TOTAL OPERATION & MAINTENANCE EXP (EXCL FUEL)		32,387,588	0	3,320,301		8,948,544	0	779,752		4,519,691	
O&M	222												
O&M	223												
O&M	224												
O&M	225												
O&M	226												
O&M	227												
O&M	228												
O&M	229												
O&M	230												

COS Without Minimum System			Large Comm & Ind		Large Commerical & Industrial		Real-Time	> 5,000kW	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Market Pricing RTMP	Light & Power WP-3
	(a)		(b)	(t)	(u)	(v)	(w)	(x)	(y)
O&M	185	OPERATION & MAINTENANCE EXPENSE CONTINUED							
O&M	186								
O&M	187	CUSTOMER SERVICE EXPENSES							
O&M	188	907-Supervision	SALWAGCS	0	0	0	0	0	0
O&M	189	908-Customer Assistance	CUSTCSS	153,811	69,644	29,370	54,797	10	78,766
O&M	190	908-Cust Assist - Energy Optimization	CUSTCSS	0	0	0	0	0	0
O&M	191	909-Informational and Instructional Expenses	CUSTCSS	66,234	29,990	12,647	23,597	4	33,918
O&M	192	910-Miscellaneous Cust Serv	CUSTCSS	0	0	0	0	0	0
O&M	193	TOTAL CUSTOMER SERVICE EXPENSE		220,045	99,634	42,018	78,394	14	112,685
O&M	194								
O&M	195	SALES EXPENSES							
O&M	196	912-Demonstrations and Selling	CUSTCSS	0	0	0	0	0	0
O&M	197	916-Miscellaneous Sales Expense	CUSTCSS	0	0	0	0	0	0
O&M	198	SALES EXPENSES TOTAL		0	0	0	0	0	0
O&M	199								
O&M	200	TOTAL CUSTOMER OPERATIONS EXPENSE		228,245	104,203	43,447	80,595	21	112,720
O&M	201								
O&M	202	TOTAL OPER & MAINT EXCL COST OF GAS AND A&G EXP		5,467,423	2,703,414	325,333	2,438,676	20,130	1,358,943
O&M	203								
O&M	204	ADMINISTRATIVE & GENERAL EXPENSE							
O&M	205	920-Administrative Salaries	SALWAGXAG	543,265	299,672	43,514	200,079	3,907	113,580
O&M	206	921-Office Supplies & Expense	SALWAGXAG	28,299	15,610	2,267	10,422	204	5,916
O&M	207	922-A&G Expense Transferred	SALWAGXAG	0	0	0	0	0	0
O&M	208	923-Outside Services - Legal	SALWAGXAG	60,586	33,420	4,853	22,313	436	12,667
O&M	209	924-Property Insurance	TOTPLT	121,631	62,086	10,161	49,385	215	23,304
O&M	210	925-Injuries and Damages	SALWAGXAG	130,960	72,239	10,489	48,231	942	27,380
O&M	211	926-Pensions & Benefits	SALWAGES	642,714	354,529	51,479	236,705	4,623	134,371
O&M	212	928-Regulatory Commission	SALWAGES	80,068	44,166	6,413	29,488	576	16,740
O&M	213	929-Duplicate Charges - Electric	SALWAGXAG	0	0	0	0	0	0
O&M	214	930-Miscellaneous	SALWAGXAG	4,082	2,252	327	1,503	29	853
O&M	215	931-Rents	GENLPLT	370	204	30	136	3	77
O&M	216	935-Maintenance of General Plant	GENLPLT	228,894	126,261	18,334	84,299	1,646	47,855
O&M	217	TOTAL A&G EXPENSE		1,840,868	1,010,439	147,866	682,562	12,581	382,743
O&M	218								
O&M	219	TOTAL OPERATION & MAINTENANCE EXP (INCL FUEL)		16,817,500	8,323,940	2,220,177	6,273,382	32,711	6,275,538
O&M	220								
O&M	221	TOTAL OPERATION & MAINTENANCE EXP (EXCL FUEL)		7,308,291	3,713,853	473,199	3,121,238	32,711	1,741,685
O&M	222								
O&M	223								
O&M	224								
O&M	225								
O&M	226								
O&M	227								
O&M	228								
O&M	229								
O&M	230								

COS Without Minimum System			S	S	S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
	(a)		(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)
O&M	185	OPERATION & MAINTENANCE EXPENSE CONTINUED							
O&M	186								
O&M	187	CUSTOMER SERVICE EXPENSES							
O&M	188	907-Supervision	SALWAGCS	0	0	0	0	0	0
O&M	189	908-Customer Assistance	CUSTCSS	931	103	3,123	4,157	14,858	0
O&M	190	908-Cust Assist - Energy Optimization	CUSTCSS	0	0	0	0	0	0
O&M	191	909-Informational and Instructional Expenses	CUSTCSS	401	44	1,345	1,790	6,398	0
O&M	192	910-Miscellaneous Cust Serv	CUSTCSS	0	0	0	0	0	0
O&M	193	TOTAL CUSTOMER SERVICE EXPENSE		1,331	148	4,468	5,947	21,257	0
O&M	194								
O&M	195	SALES EXPENSES							
O&M	196	912-Demonstrations and Selling	CUSTCSS	0	0	0	0	0	0
O&M	197	916-Miscellaneous Sales Expense	CUSTCSS	0	0	0	0	0	0
O&M	198	SALES EXPENSES TOTAL		0	0	0	0	0	0
O&M	199								
O&M	200	TOTAL CUSTOMER OPERATIONS EXPENSE		4,098	148	4,468	8,714	24,575	0
O&M	201								
O&M	202	TOTAL OPER & MAINT EXCL COST OF GAS AND A&G EXP		31,074	1,497	107,557	140,128	56,995	1,441
O&M	203								
O&M	204	ADMINISTRATIVE & GENERAL EXPENSE							
O&M	205	920-Administrative Salaries	SALWAGXAG	4,643	215	15,082	19,940	11,261	572
O&M	206	921-Office Supplies & Expense	SALWAGXAG	242	11	786	1,039	587	30
O&M	207	922-A&G Expense Transferred	SALWAGXAG	0	0	0	0	0	0
O&M	208	923-Outside Services - Legal	SALWAGXAG	518	24	1,682	2,224	1,256	64
O&M	209	924-Property Insurance	TOTPLT	2,469	141	10,768	13,379	2,864	278
O&M	210	925-Injuries and Damages	SALWAGXAG	1,119	52	3,636	4,807	2,715	138
O&M	211	926-Pensions & Benefits	SALWAGES	5,493	254	17,843	23,590	13,322	677
O&M	212	928-Regulatory Commission	SALWAGES	684	32	2,223	2,939	1,660	84
O&M	213	929-Duplicate Charges - Electric	SALWAGXAG	0	0	0	0	0	0
O&M	214	930-Miscellaneous	SALWAGXAG	35	2	113	150	85	4
O&M	215	931-Rents	GENLPLT	3	0	10	14	8	0
O&M	216	935-Maintenance of General Plant	GENLPLT	1,956	91	6,354	8,401	4,745	241
O&M	217	TOTAL A&G EXPENSE		17,163	821	58,497	76,481	38,501	2,088
O&M	218								
O&M	219	TOTAL OPERATION & MAINTENANCE EXP (INCL FUEL)		67,524	3,380	251,682	322,586	126,004	3,529
O&M	220								
O&M	221	TOTAL OPERATION & MAINTENANCE EXP (EXCL FUEL)		48,237	2,319	166,053	216,609	95,496	3,529
O&M	222								
O&M	223								
O&M	224								
O&M	225								
O&M	226								
O&M	227								
O&M	228								
O&M	229								
O&M	230								

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH	LINE	COS Without Minimum System	ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
ID	NO.	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
		(i)							
DAX	1	DEPRECIATION AND AMORTIZATION EXPENSE							
DAX	2								
DAX	3	CUSTOMER PLANT AMORTIZATION	INTGENPLT	1,469,351	927,638	9,205	436,733	11,555	84,221
DAX	4								
DAX	5	HYDRAULIC PRODUCTION PLANT EXPENSE	PRODPLT	5,400,944	2,935,520	18,323	1,683,313	113,352	650,436
DAX	6	OTHER PRODUCTION PLANT EXPENSE	PRODPLT	0	0	0	0	0	0
DAX	7								
DAX	8	TRANSMISSION PLANT EXPENSE	TRANPLT	0	0	0	0	0	0
DAX	9								
DAX	10	DISTRIBUTION PLANT EXPENSE	DISTPLT	7,737,179	4,903,985	154,206	2,350,005	29,795	299,187
DAX	11								
DAX	12	GENERAL PLANT EXPENSE	GENLPLT	3,772,403	2,386,658	21,550	1,119,292	29,513	215,390
DAX	13								
DAX	14	TOTAL DEPRECIATION EXPENSE		16,910,526	10,226,163	194,079	5,152,610	172,660	1,165,014
DAX	15								
DAX	16	TOTAL AMORTIZATION EXPENSE		1,469,351	927,638	9,205	436,733	11,555	84,221
DAX	17								
DAX	18	TOTAL DEPRECIATION & AMORTIZATION EXPENSE		18,379,877	11,153,801	203,284	5,589,343	184,215	1,249,234
DAX	19								
DAX	20								
DAX	21								
DAX	22								
DAX	23								
DAX	24								
DAX	25								
DAX	26								
DAX	27								
DAX	28								
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DAX	37								
DAX	38								
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DAX	40								
DAX	41								
DAX	42								
DAX	43								
DAX	44								
DAX	45								
DAX	46								

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Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

COS Without Minimum System			ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
SCH ID	LINE NO.	DESCRIPTION							
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
OTX	1	OTHER OPERATING EXPENSES							
OTX	2								
OTX	3	TAXES OTHER THAN INCOME TAXES							
OTX	4								
OTX	5	Payroll Related							
OTX	6	FICA	SALWAGES	1,431,293	905,525	8,176	424,672	11,198	81,721
OTX	7	FUTA	SALWAGES	0	0	0	0	0	0
OTX	8	SUTA	SALWAGES	0	0	0	0	0	0
OTX	9	IBS Payroll Taxes	SALWAGES	0	0	0	0	0	0
OTX	10	Unemployment Compensation	SALWAGES	0	0	0	0	0	0
OTX	11								
OTX	12	Real Estate & Property Tax	TOTPLT	8,865,440	5,438,084	121,127	2,697,207	74,497	534,525
OTX	13								
OTX	14	Excise and Use Tax	TOTPLT	0	0	0	0	0	0
OTX	15								
OTX	16	Other							
OTX	17	Unauthorized Insurance Tax	RATEBASE	0	0	0	0	0	0
OTX	18	Other	RATEBASE	0	0	0	0	0	0
OTX	19	Total Other		0	0	0	0	0	0
OTX	20								
OTX	21								
OTX	22	TOTAL TAXES OTHER THAN INCOME		10,296,733	6,343,609	129,304	3,121,879	85,695	616,247
OTX	23								
OTX	24								
OTX	25								
OTX	26								
OTX	27								
OTX	28								
OTX	29								
OTX	30								
OTX	31								
OTX	32								
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OTX	40								
OTX	41								
OTX	42								
OTX	43								
OTX	44								
OTX	45								
OTX	46								

[illegible]

COS Without Minimum System			S	S	S	S	S		
SCH ID	LINE NO.	DESCRIPTION	Allocation Basis	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
	(a)		(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)
OTX	1	OTHER OPERATING EXPENSES							
OTX	2								
OTX	3	TAXES OTHER THAN INCOME TAXES							
OTX	4								
OTX	5	Payroll Related							
OTX	6	FICA	SALWAGES	1,195	55	3,881	5,131	2,898	147
OTX	7	FUTA	SALWAGES	0	0	0	0	0	0
OTX	8	SUTA	SALWAGES	0	0	0	0	0	0
OTX	9	IBS Payroll Taxes	SALWAGES	0	0	0	0	0	0
OTX	10	Unemployment Compensation	SALWAGES	0	0	0	0	0	0
OTX	11								
OTX	12	Real Estate & Property Tax	TOTPLT	18,105	1,034	78,952	98,090	21,000	2,036
OTX	13								
OTX	14	Excise and Use Tax	TOTPLT	0	0	0	0	0	0
OTX	15								
OTX	16	Other							
OTX	17	Unauthorized Insurance Tax	RATEBASE	0	0	0	0	0	0
OTX	18	Other	RATEBASE	0	0	0	0	0	0
OTX	19	Total Other		0	0	0	0	0	0
OTX	20								
OTX	21								
OTX	22	TOTAL TAXES OTHER THAN INCOME		19,300	1,089	82,833	103,222	23,898	2,184
OTX	23								
OTX	24								
OTX	25								
OTX	26								
OTX	27								
OTX	28								
OTX	29								
OTX	30								
OTX	31								
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OTX	41								
OTX	42								
OTX	43								
OTX	44								
OTX	45								
OTX	46								

COS Without Minimum System			INTEGRATED		TOTAL		TOTAL		TOTAL	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	COMMERCIAL SECONDARY	COMMERCIAL PRIMARY	TOTAL TRANSMISSION	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
ITX	1	DEVELOPMENT OF PRESENT INCOME TAX EXPENSE								
ITX	2	OPERATING REVENUES								
ITX	3	SALES OF ELECTRICITY REVENUE	SCH , LN	128,122,723	71,105,776	890,816	41,498,244	935,918	13,691,969	
ITX	4	OTHER OPERATING REVENUE	SCH , LN	11,163,532	4,749,409	74,489	3,653,663	483,147	2,202,824	
ITX	5	TOTAL OPERATING REVENUES	SCH , LN	139,286,255	75,855,185	965,305	45,151,907	1,419,065	15,894,793	
ITX	6	Less:								
ITX	7	O&M EXPENSE INCL COST OF SALES	SCH , LN	95,780,449	49,977,487	452,120	30,549,033	2,220,177	12,581,632	
ITX	8	DEPRECIATION EXPENSE	SCH , LN	16,910,526	10,226,163	194,079	5,152,610	172,660	1,165,014	
ITX	9	AMORTIZATION EXPENSE	SCH , LN	1,469,351	927,638	9,205	436,733	11,555	84,221	
ITX	10	TAXES OTHER THAN INCOME TAXES	SCH , LN	10,296,733	6,343,609	129,304	3,121,879	85,695	616,247	
ITX	11	NET OPERATING INCOME BEFORE TAXES & INTEREST								
ITX	12	Less:								
ITX	13	Synchronized Interest (Rate Base * Composite Cost of Debt Rate of 2.44%)		9,855,445	6,007,348	94,523	3,068,511	73,421	611,642	
ITX	14									
ITX	15	SUBTOTAL BOOK INCOME BEFORE TAXES								
ITX	16	4,973,751 2,372,940 86,075 2,823,141 (1,144,443) 836,038								
ITX	17	STATE INCOME TAXES								
ITX	18									
ITX	19	NET INCOME ADDITIONS/DEDUCTIONS								
ITX	20	Plant Depreciation - NERCO/Soo Energy	PRODPLT	0	0	0	0	0	0	
ITX	21									
ITX	22	Customer Advances for Construction	DISTPLT	(566,520)	(359,072)	(11,291)	(172,069)	(2,182)	(21,907)	
ITX	23	Goodwill	RATEBASE	(91,509)	(55,779)	(878)	(28,491)	(682)	(5,679)	
ITX	24	Interest	RATEBASE	769,254	468,896	7,378	239,509	5,731	47,741	
ITX	25									
ITX	26	Environmental Remediation	PRODPLT	50,595	27,499	172	15,769	1,062	6,093	
ITX	27									
ITX	28	Deferred Income and Deductions	DISTPLT	16,040	10,166	320	4,872	62	620	
ITX	29	Net Operating Loss	DISTPLT	(3,403,322)	(2,157,096)	(67,830)	(1,033,687)	(13,106)	(131,602)	
ITX	30	Plant Depreciation - Distribution	DISTPLT	(5,571,782)	(3,531,511)	(111,049)	(1,692,312)	(21,456)	(215,454)	
ITX	31	Contribution in Aid of Construction	DISTPLT	0	0	0	0	0	0	
ITX	32	Goodwill - Distribution Related	DISTPLT	0	0	0	0	0	0	
ITX	33	Regulatory Liabilities	DISTPLT	41,153	26,083	820	12,499	158	1,591	
ITX	34	Regulatory Asset - Non-Current	DISTPLT	995,493	630,964	19,841	302,360	3,834	38,495	
ITX	35									
ITX	36	Goodwill - General Plant Related	SALWAGES	(4,294,378)	(2,716,892)	(24,532)	(1,274,164)	(33,597)	(245,193)	
ITX	37	Plant Depreciation - General & Common	SALWAGES	0	0	0	0	0	0	
ITX	38	Retirement - Medical	SALWAGES	3,945	2,496	23	1,171	31	225	
ITX	39	Pension	SALWAGES	1,902,859	1,203,867	10,870	564,588	14,887	108,646	
ITX	40	Post Retirement - Life Insurance	SALWAGES	(433,392)	(274,191)	(2,476)	(128,590)	(3,391)	(24,745)	
ITX	41	SERP	SALWAGES	9,998	6,325	57	2,966	78	571	
ITX	42	Pension Restoration	SALWAGES	13,278	8,400	76	3,940	104	758	
ITX	43	SUBTOTAL NET INCOME ADDITIONS/DEDUCTIONS								
ITX	44	(10,558,290) (6,709,844) (178,499) (3,181,640) (48,467) (439,840)								
ITX	45	STATE TAXABLE INCOME								
ITX	46	(5,584,538) (4,336,903) (92,424) (358,499) (1,192,910) 396,198								
ITX	47	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED								
ITX	48									
ITX	49	STATE TAXABLE INCOME								
ITX	50	(5,584,538) (4,336,903) (92,424) (358,499) (1,192,910) 396,198								
ITX	51	STATE INCOME TAX @ 6.00%								
ITX	52	(335,072) (260,214) (5,545) (21,510) (71,575) 23,772								

COS Without Minimum System			S		S		S		S		S		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1	General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1			
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
ITX	1	DEVELOPMENT OF PRESENT INCOME TAX EXPENSE											
ITX	2	OPERATING REVENUES											
ITX	3	SALES OF ELECTRICITY REVENUE	SCH , LN		65,965,704	0	5,140,072		18,534,075	0	1,315,422	15,047,810	
ITX	4	OTHER OPERATING REVENUE	SCH , LN		4,331,002	0	418,407		1,131,978	0	107,218	1,160,934	
ITX	5	TOTAL OPERATING REVENUES	SCH , LN		70,296,706	0	5,558,479		19,666,053	0	1,422,641	16,208,744	
ITX	6	Less:											
ITX	7	O&M EXPENSE INCL COST OF SALES	SCH , LN		45,334,539	0	4,642,949		12,316,868	0	1,140,099	8,768,126	
ITX	8	DEPRECIATION EXPENSE	SCH , LN		9,252,108	0	974,055		2,661,113	0	235,770	1,425,953	
ITX	9	AMORTIZATION EXPENSE	SCH , LN		840,692	0	86,946		233,846	0	20,287	103,692	
ITX	10	TAXES OTHER THAN INCOME TAXES	SCH , LN		5,734,480	0	609,129		1,654,058	0	145,698	789,803	
ITX	11	NET OPERATING INCOME BEFORE TAXES & INTEREST											
ITX	12	Less:											
ITX	13	Synchronized Interest (Rate Base * Composite Cost of Debt Rate of 2.44%)			5,418,142	0	589,206		1,613,306	0	143,312	742,378	
ITX	14												
ITX	15	SUBTOTAL BOOK INCOME BEFORE TAXES											
ITX	16				3,716,746	0	(1,343,806)		1,186,863	0	(262,525)	4,378,793	
ITX	17	STATE INCOME TAXES											
ITX	18												
ITX	19	NET INCOME ADDITIONS/DEDUCTIONS											
ITX	20	Plant Depreciation - NERCO/Soo Energy	PRODPLT		0	0	0		0	0	0	0	
ITX	21												
ITX	22	Customer Advances for Construction	DISTPLT		(323,318)	0	(35,754)		(96,351)	0	(8,459)	(35,010)	
ITX	23	Goodwill	RATEBASE		(50,308)	0	(5,471)		(14,980)	0	(1,331)	(6,893)	
ITX	24	Interest	RATEBASE		422,906	0	45,990		125,924	0	11,186	57,945	
ITX	25												
ITX	26	Environmental Remediation	PRODPLT		25,040	0	2,459		6,982	0	640	6,404	
ITX	27												
ITX	28	Deferred Income and Deductions	DISTPLT		9,154	0	1,012		2,728	0	239	991	
ITX	29	Net Operating Loss	DISTPLT		(1,942,306)	0	(214,790)		(578,819)	0	(50,815)	(210,322)	
ITX	30	Plant Depreciation - Distribution	DISTPLT		(3,179,866)	0	(351,645)		(947,619)	0	(83,193)	(344,331)	
ITX	31	Contribution in Aid of Construction	DISTPLT		0	0	0		0	0	0	0	
ITX	32	Goodwill - Distribution Related	DISTPLT		0	0	0		0	0	0	0	
ITX	33	Regulatory Liabilities	DISTPLT		23,486	0	2,597		6,999	0	614	2,543	
ITX	34	Regulatory Asset - Non-Current	DISTPLT		568,137	0	62,827		169,308	0	14,864	61,521	
ITX	35												
ITX	36	Goodwill - General Plant Related	SALWAGES		(2,462,774)	0	(254,118)		(682,885)	0	(59,161)	(300,742)	
ITX	37	Plant Depreciation - General & Common	SALWAGES		0	0	0		0	0	0	0	
ITX	38	Retirement - Medical	SALWAGES		2,262	0	233		627	0	54	276	
ITX	39	Pension	SALWAGES		1,091,266	0	112,601		302,589	0	26,215	133,260	
ITX	40	Post Retirement - Life Insurance	SALWAGES		(248,545)	0	(25,646)		(68,917)	0	(5,971)	(30,351)	
ITX	41	SERP	SALWAGES		5,734	0	592		1,590	0	138	700	
ITX	42	Pension Restoration	SALWAGES		7,614	0	786		2,111	0	183	930	
ITX	43	SUBTOTAL NET INCOME ADDITIONS/DEDUCTIONS											
ITX	44				(6,051,517)	0	(658,327)		(1,770,711)	0	(154,796)	(663,079)	
ITX	45	STATE TAXABLE INCOME											
ITX	46				(2,334,771)	0	(2,002,132)		(583,848)	0	(417,321)	3,715,714	
ITX	47	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED											
ITX	48												
ITX	49	STATE TAXABLE INCOME											
ITX	50				(2,334,771)	0	(2,002,132)		(583,848)	0	(417,321)	3,715,714	
ITX	51	STATE INCOME TAX @ 6.00%											
ITX	52				(140,086)	0	(120,128)		(35,031)	0	(25,039)	222,943	

COS Without Minimum System			Large Comm & Ind		Large Commercial & Industrial		Real-Time	> 5,000kW		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Market Pricing RTMP	Light & Power WP-3	
	(a)		(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
ITX	1	DEVELOPMENT OF PRESENT INCOME TAX EXPENSE								
ITX	2	OPERATING REVENUES								
ITX	3	SALES OF ELECTRICITY REVENUE	SCH , LN	14,663,435	6,600,937	935,918	7,126,580	246,905	6,318,484	
ITX	4	OTHER OPERATING REVENUE	SCH , LN	2,653,618	1,253,532	483,147	916,939	132	1,285,753	
ITX	5	TOTAL OPERATING REVENUES	SCH , LN	17,317,053	7,854,469	1,419,065	8,043,519	247,038	7,604,236	
ITX	6	Less:								
ITX	7	O&M EXPENSE INCL COST OF SALES	SCH , LN	16,817,500	8,323,940	2,220,177	6,273,382	32,711	6,275,538	
ITX	8	DEPRECIATION EXPENSE	SCH , LN	1,798,825	829,775	172,660	796,391	3,318	365,305	
ITX	9	AMORTIZATION EXPENSE	SCH , LN	143,817	78,909	11,555	53,354	979	29,888	
ITX	10	TAXES OTHER THAN INCOME TAXES	SCH , LN	1,031,585	532,200	85,695	413,570	2,585	200,092	
ITX	11	NET OPERATING INCOME BEFORE TAXES & INTEREST		(2,474,674)	(1,910,475)	(1,071,022)	506,823	207,445	733,412	
ITX	12	Less:								
ITX	13	Synchronized Interest (Rate Base * Composite Cost of Debt Rate of 2.44%)		1,043,529	569,515	73,421	400,593	3,303	207,747	
ITX	14									
ITX	15	SUBTOTAL BOOK INCOME BEFORE TAXES		(3,518,203)	(2,479,990)	(1,144,443)	106,230	204,142	525,666	
ITX	16									
ITX	17	STATE INCOME TAXES								
ITX	18									
ITX	19	NET INCOME ADDITIONS/DEDUCTIONS								
ITX	20	Plant Depreciation - NERCO/Soo Energy	PRODPLT	0	0	0	0	0	0	
ITX	21									
ITX	22	Customer Advances for Construction	DISTPLT	(48,788)	(32,249)	(2,182)	(14,358)	(49)	(7,500)	
ITX	23	Goodwill	RATEBASE	(9,689)	(5,288)	(682)	(3,720)	(31)	(1,929)	
ITX	24	Interest	RATEBASE	81,451	44,453	5,731	31,268	258	16,215	
ITX	25									
ITX	26	Environmental Remediation	PRODPLT	7,157	1,743	1,062	4,352	0	1,741	
ITX	27									
ITX	28	Deferred Income and Deductions	DISTPLT	1,381	913	62	407	1	212	
ITX	29	Net Operating Loss	DISTPLT	(293,090)	(193,731)	(13,106)	(86,253)	(294)	(45,056)	
ITX	30	Plant Depreciation - Distribution	DISTPLT	(479,835)	(317,168)	(21,456)	(141,210)	(481)	(73,764)	
ITX	31	Contribution in Aid of Construction	DISTPLT	0	0	0	0	0	0	
ITX	32	Goodwill - Distribution Related	DISTPLT	0	0	0	0	0	0	
ITX	33	Regulatory Liabilities	DISTPLT	3,544	2,343	158	1,043	4	545	
ITX	34	Regulatory Asset - Non-Current	DISTPLT	85,731	56,667	3,834	25,230	86	13,179	
ITX	35									
ITX	36	Goodwill - General Plant Related	SALWAGES	(419,455)	(231,377)	(33,597)	(154,481)	(3,017)	(87,695)	
ITX	37	Plant Depreciation - General & Common	SALWAGES	0	0	0	0	0	0	
ITX	38	Retirement - Medical	SALWAGES	385	213	31	142	3	81	
ITX	39	Pension	SALWAGES	185,862	102,524	14,887	68,451	1,337	38,858	
ITX	40	Post Retirement - Life Insurance	SALWAGES	(42,332)	(23,351)	(3,391)	(15,590)	(304)	(8,850)	
ITX	41	SERP	SALWAGES	977	539	78	360	7	204	
ITX	42	Pension Restoration	SALWAGES	1,297	715	104	478	9	271	
ITX	43	SUBTOTAL NET INCOME ADDITIONS/DEDUCTIONS		(925,402)	(593,054)	(48,467)	(283,882)	(2,470)	(153,487)	
ITX	44									
ITX	45	STATE TAXABLE INCOME		(4,443,605)	(3,073,044)	(1,192,910)	(177,652)	201,671	372,178	
ITX	46									
ITX	47	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED								
ITX	48									
ITX	49	STATE TAXABLE INCOME		(4,443,605)	(3,073,044)	(1,192,910)	(177,652)	201,671	372,178	
ITX	50									
ITX	51	STATE INCOME TAX @ 6.00%		(266,616)	(184,383)	(71,575)	(10,659)	12,100	22,331	
ITX	52									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH ID	LINE NO.	COS Without Minimum System		ALLOCATION BASIS	S Street Lighting SL-3	S Street Light (Closed) SL-5	S Street Lighting SL-6	Street Lighting Total	S Integrated OSL Z-3	S Iron River OSL Z-4	
		DESCRIPTION									
		(a)		(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)
ITX	1	DEVELOPMENT OF PRESENT INCOME TAX EXPENSE									
ITX	2	OPERATING REVENUES									
ITX	3	SALES OF ELECTRICITY REVENUE	SCH , LN		74,007	10,740	624,851	709,598	181,217	0	
ITX	4	OTHER OPERATING REVENUE	SCH , LN		8,935	570	40,240	49,746	24,238	505	
ITX	5	TOTAL OPERATING REVENUES	SCH , LN		82,942	11,310	665,092	759,344	205,456	505	
ITX	6	Less:									
ITX	7	O&M EXPENSE INCL COST OF SALES	SCH , LN		67,524	3,380	251,682	322,586	126,004	3,529	
ITX	8	DEPRECIATION EXPENSE	SCH , LN		29,039	1,641	124,925	155,606	35,343	3,130	
ITX	9	AMORTIZATION EXPENSE	SCH , LN		1,350	65	4,616	6,031	3,010	164	
ITX	10	TAXES OTHER THAN INCOME TAXES	SCH , LN		19,300	1,089	82,833	103,222	23,898	2,184	
ITX	11	NET OPERATING INCOME BEFORE TAXES & INTEREST									
ITX	12	Less:									
ITX	13	Synchronized Interest (Rate Base * Composite Cost of Debt Rate of 2.44%)			15,682	829	65,666	82,177	10,747	1,600	
ITX	14										
ITX	15	SUBTOTAL BOOK INCOME BEFORE TAXES									
ITX	16				(49,953)	4,306	135,370	89,723	6,454	(10,102)	
ITX	17	STATE INCOME TAXES									
ITX	18										
ITX	19	NET INCOME ADDITIONS/DEDUCTIONS									
ITX	20	Plant Depreciation - NERCO/Soo Energy	PRODPLT		0	0	0	0	0	0	
ITX	21										
ITX	22	Customer Advances for Construction	DISTPLT		(1,686)	(98)	(7,545)	(9,329)	(1,761)	(201)	
ITX	23	Goodwill	RATEBASE		(146)	(8)	(610)	(763)	(100)	(15)	
ITX	24	Interest	RATEBASE		1,224	65	5,125	6,414	839	125	
ITX	25										
ITX	26	Environmental Remediation	PRODPLT		27	1	109	137	34	0	
ITX	27										
ITX	28	Deferred Income and Deductions	DISTPLT		48	3	214	264	50	6	
ITX	29	Net Operating Loss	DISTPLT		(10,129)	(590)	(45,323)	(56,042)	(10,582)	(1,206)	
ITX	30	Plant Depreciation - Distribution	DISTPLT		(16,582)	(966)	(74,202)	(91,750)	(17,324)	(1,975)	
ITX	31	Contribution in Aid of Construction	DISTPLT		0	0	0	0	0	0	
ITX	32	Goodwill - Distribution Related	DISTPLT		0	0	0	0	0	0	
ITX	33	Regulatory Liabilities	DISTPLT		122	7	548	678	128	15	
ITX	34	Regulatory Asset - Non-Current	DISTPLT		2,963	173	13,257	16,393	3,095	353	
ITX	35										
ITX	36	Goodwill - General Plant Related	SALWAGES		(3,585)	(166)	(11,645)	(15,396)	(8,695)	(442)	
ITX	37	Plant Depreciation - General & Common	SALWAGES		0	0	0	0	0	0	
ITX	38	Retirement - Medical	SALWAGES		3	0	11	14	8	0	
ITX	39	Pension	SALWAGES		1,588	74	5,160	6,822	3,853	196	
ITX	40	Post Retirement - Life Insurance	SALWAGES		(362)	(17)	(1,175)	(1,554)	(877)	(45)	
ITX	41	SERP	SALWAGES		8	0	27	36	20	1	
ITX	42	Pension Restoration	SALWAGES		11	1	36	48	27	1	
ITX	43	SUBTOTAL NET INCOME ADDITIONS/DEDUCTIONS									
ITX	44				(26,494)	(1,521)	(116,012)	(144,027)	(31,285)	(3,187)	
ITX	45	STATE TAXABLE INCOME									
ITX	46				(76,447)	2,785	19,357	(54,304)	(24,831)	(13,289)	
ITX	47	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED									
ITX	48										
ITX	49	STATE TAXABLE INCOME									
ITX	50				(76,447)	2,785	19,357	(54,304)	(24,831)	(13,289)	
ITX	51	STATE INCOME TAX @ 6.00%									
ITX	52				(4,587)	167	1,161	(3,258)	(1,490)	(797)	

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

COS Without Minimum System			ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
SCH ID	LINE NO.	DESCRIPTION							
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
ITX	53	LESS: DEFERRED TAX EXPENSE ADJUSTMENT							
ITX	54	Plant Depreciation - NERCO/Soo Energy	PRODPLT	0	0	0	0	0	0
ITX	55								
ITX	56	Customer Advances for Construction	DISTPLT	(26,853)	(17,020)	(535)	(8,156)	(103)	(1,038)
ITX	57	Goodwill	RATEBASE	(4,338)	(2,644)	(42)	(1,350)	(32)	(269)
ITX	58	Interest	RATEBASE	36,463	22,226	350	11,353	272	2,263
ITX	59								
ITX	60	Environmental Remediation	PRODPLT	2,398	1,303	8	747	50	289
ITX	61								
ITX	62	Deferred Income and Deductions	DISTPLT	760	482	15	231	3	29
ITX	63	Net Operating Loss	DISTPLT	(161,317)	(102,246)	(3,215)	(48,997)	(621)	(6,238)
ITX	64	Plant Depreciation - Distribution	DISTPLT	(264,102)	(167,394)	(5,264)	(80,216)	(1,017)	(10,213)
ITX	65	Contribution in Aid of Construction	DISTPLT	0	0	0	0	0	0
ITX	66	Goodwill - Distribution Related	DISTPLT	0	0	0	0	0	0
ITX	67	Regulatory Asset - Current	DISTPLT	1,951	1,236	39	592	8	75
ITX	68	Regulatory Asset - Non-Current	DISTPLT	47,186	29,908	940	14,332	182	1,825
ITX	69								
ITX	70	Goodwill - General Plant Related	SALWAGES	(203,554)	(128,781)	(1,163)	(60,395)	(1,592)	(11,622)
ITX	71	Plant Depreciation - General & Common	SALWAGES	0	0	0	0	0	0
ITX	72	Retirement - Medical	SALWAGES	187	118	1	55	1	11
ITX	73	Pension	SALWAGES	90,196	57,063	515	26,761	706	5,150
ITX	74	Post Retirement - Life Insurance	SALWAGES	(20,543)	(12,997)	(117)	(6,095)	(161)	(1,173)
ITX	75	SERP	SALWAGES	474	300	3	141	4	27
ITX	76	Pension Restoration	SALWAGES	629	398	4	187	5	36
ITX	77	SUBTOTAL DEFERRED EXPENSE ADJUSTMENT		(500,463)	(318,047)	(8,461)	(150,810)	(2,297)	(20,848)
ITX	78								
ITX	169	STATE INCOME TAX ADJUSTMENTS							
ITX	21	TCJA Calculation C	RATEBASE	0	0	0	0	0	0
ITX	79	STATE INCOME TAX EXPENSE		165,391	57,832	2,915	129,300	(69,277)	44,620
ITX	80								
ITX	81								
ITX	82								
ITX	83								
ITX	84								
ITX	85								
ITX	86								
ITX	87								
ITX	88								
ITX	89								
ITX	90								
ITX	91								

[illegible]

COS Without Minimum System			S	P	Q	T	Q			
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Large Comm & Ind CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Real-Time Market Pricing RTMP	> 5,000kW Light & Power WP-3	
	(a)		(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
ITX	53	LESS: DEFERRED TAX EXPENSE ADJUSTMENT								
ITX	54	Plant Depreciation - NERCO/Soo Energy	PRODPLT	0	0	0	0	0	0	
ITX	55									
ITX	56	Customer Advances for Construction	DISTPLT	(2,313)	(1,529)	(103)	(681)	(2)	(356)	
ITX	57	Goodwill	RATEBASE	(459)	(251)	(32)	(176)	(1)	(91)	
ITX	58	Interest	RATEBASE	3,861	2,107	272	1,482	12	769	
ITX	59									
ITX	60	Environmental Remediation	PRODPLT	339	83	50	206	0	83	
ITX	61									
ITX	62	Deferred Income and Deductions	DISTPLT	65	43	3	19	0	10	
ITX	63	Net Operating Loss	DISTPLT	(13,892)	(9,183)	(621)	(4,088)	(14)	(2,136)	
ITX	64	Plant Depreciation - Distribution	DISTPLT	(22,744)	(15,034)	(1,017)	(6,693)	(23)	(3,496)	
ITX	65	Contribution in Aid of Construction	DISTPLT	0	0	0	0	0	0	
ITX	66	Goodwill - Distribution Related	DISTPLT	0	0	0	0	0	0	
ITX	67	Regulatory Asset - Current	DISTPLT	168	111	8	49	0	26	
ITX	68	Regulatory Asset - Non-Current	DISTPLT	4,064	2,686	182	1,196	4	625	
ITX	69									
ITX	70	Goodwill - General Plant Related	SALWAGES	(19,882)	(10,967)	(1,592)	(7,322)	(143)	(4,157)	
ITX	71	Plant Depreciation - General & Common	SALWAGES	0	0	0	0	0	0	
ITX	72	Retirement - Medical	SALWAGES	18	10	1	7	0	4	
ITX	73	Pension	SALWAGES	8,810	4,860	706	3,245	63	1,842	
ITX	74	Post Retirement - Life Insurance	SALWAGES	(2,007)	(1,107)	(161)	(739)	(14)	(420)	
ITX	75	SERP	SALWAGES	46	26	4	17	0	10	
ITX	76	Pension Restoration	SALWAGES	61	34	5	23	0	13	
ITX	77	SUBTOTAL DEFERRED EXPENSE ADJUSTMENT		(43,864)	(28,111)	(2,297)	(13,456)	(117)	(7,275)	
ITX	78									
ITX	169	STATE INCOME TAX ADJUSTMENTS								
ITX	21	TCJA Calculation C	RATEBASE	0	0	0	0	0	0	
ITX	79	STATE INCOME TAX EXPENSE		(222,752)	(156,272)	(69,277)	2,797	12,217	29,606	
ITX	80									
ITX	81									
ITX	82									
ITX	83									
ITX	84									
ITX	85									
ITX	86									
ITX	87									
ITX	88									
ITX	89									
ITX	90									
ITX	91									

COS Without Minimum System			S	S	S	S	S	S		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4	
	(a)		(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)
ITX	53	LESS: DEFERRED TAX EXPENSE ADJUSTMENT								
ITX	54	Plant Depreciation - NERCO/Soo Energy	PRODPLT	0	0	0	0	0	0	
ITX	55									
ITX	56	Customer Advances for Construction	DISTPLT	(80)	(5)	(358)	(442)	(83)	(10)	
ITX	57	Goodwill	RATEBASE	(7)	(0)	(29)	(36)	(5)	(1)	
ITX	58	Interest	RATEBASE	58	3	243	304	40	6	
ITX	59									
ITX	60	Environmental Remediation	PRODPLT	1	0	5	7	2	0	
ITX	61									
ITX	62	Deferred Income and Deductions	DISTPLT	2	0	10	13	2	0	
ITX	63	Net Operating Loss	DISTPLT	(480)	(28)	(2,148)	(2,656)	(502)	(57)	
ITX	64	Plant Depreciation - Distribution	DISTPLT	(786)	(46)	(3,517)	(4,349)	(821)	(94)	
ITX	65	Contribution in Aid of Construction	DISTPLT	0	0	0	0	0	0	
ITX	66	Goodwill - Distribution Related	DISTPLT	0	0	0	0	0	0	
ITX	67	Regulatory Asset - Current	DISTPLT	6	0	26	32	6	1	
ITX	68	Regulatory Asset - Non-Current	DISTPLT	140	8	628	777	147	17	
ITX	69									
ITX	70	Goodwill - General Plant Related	SALWAGES	(170)	(8)	(552)	(730)	(412)	(21)	
ITX	71	Plant Depreciation - General & Common	SALWAGES	0	0	0	0	0	0	
ITX	72	Retirement - Medical	SALWAGES	0	0	1	1	0	0	
ITX	73	Pension	SALWAGES	75	3	245	323	183	9	
ITX	74	Post Retirement - Life Insurance	SALWAGES	(17)	(1)	(56)	(74)	(42)	(2)	
ITX	75	SERP	SALWAGES	0	0	1	2	1	0	
ITX	76	Pension Restoration	SALWAGES	1	0	2	2	1	0	
ITX	77	SUBTOTAL DEFERRED EXPENSE ADJUSTMENT		(1,256)	(72)	(5,499)	(6,827)	(1,483)	(151)	
ITX	78									
ITX	169	STATE INCOME TAX ADJUSTMENTS								
ITX	21	TCJA Calculation C	RATEBASE	0	0	0	0	0	0	
ITX	79	STATE INCOME TAX EXPENSE		(3,331)	239	6,660	3,569	(7)	(646)	
ITX	80									
ITX	81									
ITX	82									
ITX	83									
ITX	84									
ITX	85									
ITX	86									
ITX	87									
ITX	88									
ITX	89									
ITX	90									
ITX	91									

COS Without Minimum System			S	S	S	S	S	S	S	S			
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1		
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
ITX	92												
ITX	93	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED											
ITX	94												
ITX	95	FEDERAL INCOME TAXES											
ITX	96												
ITX	97	SUBTOTAL BOOK INCOME BEFORE TAXES	SCH , LN	3,716,746	0	(1,343,806)		1,186,863	0	(262,525)	4,378,793		
ITX	98												
ITX	99	NET INCOME ADDITIONS/DEDUCTIONS											
ITX	100	State Income Taxes	#VALUE!	140,086	0	120,128		35,031	0	25,039	(222,943)		
ITX	101												
ITX	102	Plant Depreciation - NERCO/Soo Energy	PRODPLT	0	0	0		0	0	0	0		
ITX	103												
ITX	104	Customer Advances for Construction	DISTPLT	(323,318)	0	(35,754)		(96,351)	0	(8,459)	(35,010)		
ITX	105	Goodwill	RATEBASE	(50,308)	0	(5,471)		(14,980)	0	(1,331)	(6,893)		
ITX	106	Interest	RATEBASE	422,906	0	45,990		125,924	0	11,186	57,945		
ITX	107												
ITX	108	Environmental Remediation	PRODPLT	25,040	0	2,459		6,982	0	640	6,404		
ITX	109												
ITX	110	Deferred Income and Deductions	DISTPLT	9,154	0	1,012		2,728	0	239	991		
ITX	111	Net Operating Loss	DISTPLT	(3,983,576)	0	(440,523)		(1,187,130)	0	(104,220)	(431,361)		
ITX	112	Plant Depreciation - Distribution	DISTPLT	(5,221,136)	0	(577,379)		(1,555,930)	0	(136,597)	(565,370)		
ITX	113	Contribution in Aid of Construction	DISTPLT	0	0	0		0	0	0	0		
ITX	114	Goodwill - Distribution Related	DISTPLT	0	0	0		0	0	0	0		
ITX	115	Regulatory Liabilities	DISTPLT	23,486	0	2,597		6,999	0	614	2,543		
ITX	116	Regulatory Asset - Non-Current	DISTPLT	568,137	0	62,827		169,308	0	14,864	61,521		
ITX	117												
ITX	118	Goodwill - General Plant Related	SALWAGES	(2,462,774)	0	(254,118)		(682,885)	0	(59,161)	(300,742)		
ITX	119	Plant Depre - General & Common (Adj-Tax Sys)	SALWAGES	0	0	0		0	0	0	0		
ITX	120	Plant Depreciation - General & Common	SALWAGES	0	0	0		0	0	0	0		
ITX	121	Retirement - Medical	SALWAGES	(248,545)	0	(25,646)		(68,917)	0	(5,971)	(30,351)		
ITX	122	Pension	SALWAGES	1,098,881	0	113,387		304,701	0	26,398	134,190		
ITX	123	Post Retirement - Life Insurance	SALWAGES	0	0	0		0	0	0	0		
ITX	124	SERP	SALWAGES	6,696	0	691		1,857	0	161	818		
ITX	125	Pension Restoration	SALWAGES	1,300	0	134		361	0	31	159		
ITX	126	SUBTOTAL NET INCOME ADDITIONS/DEDUCTIONS		(9,993,970)	0	(989,666)		(2,952,302)	0	(236,566)	(1,328,099)		
ITX	127												
ITX	128	FEDERAL TAXABLE INCOME		(6,277,224)	0	(2,333,472)		(1,765,438)	0	(499,091)	3,050,694		
ITX	129	Federal Income Tax @ 21%		(1,318,217)	0	(490,029)		(370,742)	0	(104,809)	640,646		
ITX	130												
ITX	131												
ITX	132												
ITX	133												
ITX	134												
ITX	135												
ITX	136												
ITX	137												
ITX	138												

COS Without Minimum System			INTEGRATED		TOTAL		TOTAL		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	COMMERCIAL SECONDARY	COMMERCIAL PRIMARY	TOTAL TRANSMISSION
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
ITX	139	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED							
ITX	140	FEDERAL INCOME TAXES CONTINUED							
ITX	141								
ITX	142	LESS: DEFERRED TAX EXPENSE ADJUSTMENT							
ITX	143	Plant Depreciation - NERCO/Soo Energy	PRODPLT	0	0	0	0	0	0
ITX	144								
ITX	145	Customer Advances for Construction	DISTPLT	(118,969)	(75,405)	(2,371)	(36,134)	(458)	(4,600)
ITX	146	Goodwill	RATEBASE	(19,217)	(11,714)	(184)	(5,983)	(143)	(1,193)
ITX	147	Interest	RATEBASE	161,543	98,468	1,549	50,297	1,203	10,026
ITX	148								
ITX	149	Environmental Remediation	PRODPLT	10,625	5,775	36	3,311	223	1,280
ITX	150								
ITX	151	Deferred Income and Deductions	DISTPLT	3,368	2,135	67	1,023	13	130
ITX	152	Net Operating Loss	DISTPLT	(1,465,810)	(929,061)	(29,214)	(445,209)	(5,645)	(56,681)
ITX	153	Plant Depreciation - Distribution	DISTPLT	(1,921,187)	(1,217,688)	(38,290)	(583,520)	(7,398)	(74,290)
ITX	154	Contribution in Aid of Construction	DISTPLT	0	0	0	0	0	0
ITX	155	Goodwill - Distribution Related	DISTPLT	0	0	0	0	0	0
ITX	156	Regulatory Asset - Current	DISTPLT	8,642	5,478	172	2,625	33	334
ITX	157	Regulatory Asset - Non-Current	DISTPLT	209,053	132,502	4,167	63,496	805	8,084
ITX	158								
ITX	159	Goodwill - General Plant Related	SALWAGES	(901,819)	(570,547)	(5,152)	(267,575)	(7,055)	(51,490)
ITX	160	Plant Depre - General & Common (Adj-Tax Sys)	SALWAGES	0	0	0	0	0	0
ITX	161	Plant Depreciation - General & Common	SALWAGES	0	0	0	0	0	0
ITX	162	Retirement - Medical	SALWAGES	(91,012)	(57,580)	(520)	(27,004)	(712)	(5,196)
ITX	163	Pension	SALWAGES	402,389	254,576	2,299	119,391	3,148	22,975
ITX	164	Post Retirement - Life Insurance	SALWAGES	0	0	0	0	0	0
ITX	165	SERP	SALWAGES	2,452	1,551	14	727	19	140
ITX	166	Pension Restoration	SALWAGES	476	301	3	141	4	27
ITX	167	TOTAL DEFERRED INCOME TAX EXPENSE		(3,719,466)	(2,361,209)	(67,425)	(1,124,414)	(15,963)	(150,456)
ITX	168								
ITX	169	FEDERAL INCOME TAX ADJUSTMENTS							
ITX	21	TCJA Calculation C	RATEBASE	0	0	0	0	0	0
ITX	171								
ITX	172	FEDERAL INCOME TAX EXPENSE		1,114,853	552,962	19,240	597,377	(225,302)	170,576
ITX	173								
ITX	174	TOTAL STATE & FEDERAL INCOME TAX EXPENSE		1,280,244	610,795	22,156	726,677	(294,580)	215,196
ITX	175								
ITX	176	TOTAL OPERATING DEDUCTIONS		125,737,302	68,085,692	806,862	39,986,931	2,195,507	14,662,309
ITX	177								
ITX	178								
ITX	179	TAX RATES							
ITX	180	STATE TAX RATE		6.00%					
ITX	181	FEDERAL TAX RATE - CURRENT		0.21					
ITX	182	INCREMENTAL TAX RATE		0.257400					
ITX	183	1-INCREMENTAL TAX RATE		0.742600					
ITX	184	TAX GROSS-UP FACTOR		1.32880000					
ITX	185	STATE TAX RATE		4.74%					
ITX	186	WEIGHTED COST OF DEBT		2.4421%					
ITX	187								

COS Without Minimum System			S	S	S	S	S	S	S	S		
SCH ID	LINE NO.	DESCRIPTION	Allocation Basis	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
ITX	139	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED										
ITX	140	FEDERAL INCOME TAXES CONTINUED										
ITX	141											
ITX	142	LESS: DEFERRED TAX EXPENSE ADJUSTMENT										
ITX	143	Plant Depreciation - NERCO/Soo Energy	PRODPLT	0	0	0		0	0	0	0	
ITX	144											
ITX	145	Customer Advances for Construction	DISTPLT	(67,897)	0	(7,508)		(20,234)	0	(1,776)	(7,352)	
ITX	146	Goodwill	RATEBASE	(10,565)	0	(1,149)		(3,146)	0	(279)	(1,448)	
ITX	147	Interest	RATEBASE	88,810	0	9,658		26,444	0	2,349	12,169	
ITX	148											
ITX	149	Environmental Remediation	PRODPLT	5,258	0	516		1,466	0	134	1,345	
ITX	150											
ITX	151	Deferred Income and Deductions	DISTPLT	1,922	0	213		573	0	50	208	
ITX	152	Net Operating Loss	DISTPLT	(836,551)	0	(92,510)		(249,297)	0	(21,886)	(90,586)	
ITX	153	Plant Depreciation - Distribution	DISTPLT	(1,096,438)	0	(121,250)		(326,745)	0	(28,685)	(118,728)	
ITX	154	Contribution in Aid of Construction	DISTPLT	0	0	0		0	0	0	0	
ITX	155	Goodwill - Distribution Related	DISTPLT	0	0	0		0	0	0	0	
ITX	156	Regulatory Asset - Current	DISTPLT	4,932	0	545		1,470	0	129	534	
ITX	157	Regulatory Asset - Non-Current	DISTPLT	119,309	0	13,194		35,555	0	3,121	12,919	
ITX	158											
ITX	159	Goodwill - General Plant Related	SALWAGES	(517,182)	0	(53,365)		(143,406)	0	(12,424)	(63,156)	
ITX	160	Plant Depre - General & Common (Adj-Tax Sys)	SALWAGES	0	0	0		0	0	0	0	
ITX	161	Plant Depreciation - General & Common	SALWAGES	0	0	0		0	0	0	0	
ITX	162	Retirement - Medical	SALWAGES	(52,195)	0	(5,386)		(14,473)	0	(1,254)	(6,374)	
ITX	163	Pension	SALWAGES	230,765	0	23,811		63,987	0	5,543	28,180	
ITX	164	Post Retirement - Life Insurance	SALWAGES	0	0	0		0	0	0	0	
ITX	165	SERP	SALWAGES	1,406	0	145		390	0	34	172	
ITX	166	Pension Restoration	SALWAGES	273	0	28		76	0	7	33	
ITX	167	TOTAL DEFERRED INCOME TAX EXPENSE		(2,128,152)	0	(233,057)		(627,340)	0	(54,937)	(232,083)	
ITX	168											
ITX	169	FEDERAL INCOME TAX ADJUSTMENTS										
ITX	21	TCJA Calculation C	RATEBASE	0	0	0		0	0	0	0	
ITX	171											
ITX	172	FEDERAL INCOME TAX EXPENSE		809,935	0	(256,972)		256,598	0	(49,872)	872,729	
ITX	173											
ITX	174	TOTAL STATE & FEDERAL INCOME TAX EXPENSE		956,690	0	(345,896)		305,499	0	(67,574)	1,127,101	
ITX	175											
ITX	176	TOTAL OPERATING DEDUCTIONS		62,118,509	0	5,967,183		17,171,383	0	1,474,279	12,214,675	
ITX	177											
ITX	178											
ITX	179	TAX RATES										
ITX	180	STATE TAX RATE										
ITX	181	FEDERAL TAX RATE - CURRENT										
ITX	182	INCREMENTAL TAX RATE										
ITX	183	1-INCREMENTAL TAX RATE										
ITX	184	TAX GROSS-UP FACTOR										
ITX	185	STATE TAX RATE										
ITX	186	WEIGHTED COST OF DEBT										
ITX	187											

COS Without Minimum System			S	S	S	S	S	S		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4	
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)
ITX	139	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED								
ITX	140	FEDERAL INCOME TAXES CONTINUED								
ITX	141									
ITX	142	LESS: DEFERRED TAX EXPENSE ADJUSTMENT								
ITX	143	Plant Depreciation - NERCO/Soo Energy	PRODPLT	0	0	0	0	0	0	
ITX	144									
ITX	145	Customer Advances for Construction	DISTPLT	(354)	(21)	(1,584)	(1,959)	(370)	(42)	
ITX	146	Goodwill	RATEBASE	(31)	(2)	(128)	(160)	(21)	(3)	
ITX	147	Interest	RATEBASE	257	14	1,076	1,347	176	26	
ITX	148									
ITX	149	Environmental Remediation	PRODPLT	6	0	23	29	7	0	
ITX	150									
ITX	151	Deferred Income and Deductions	DISTPLT	10	1	45	55	10	1	
ITX	152	Net Operating Loss	DISTPLT	(4,362)	(254)	(19,521)	(24,137)	(4,558)	(520)	
ITX	153	Plant Depreciation - Distribution	DISTPLT	(5,718)	(333)	(25,585)	(31,636)	(5,973)	(681)	
ITX	154	Contribution in Aid of Construction	DISTPLT	0	0	0	0	0	0	
ITX	155	Goodwill - Distribution Related	DISTPLT	0	0	0	0	0	0	
ITX	156	Regulatory Asset - Current	DISTPLT	26	1	115	142	27	3	
ITX	157	Regulatory Asset - Non-Current	DISTPLT	622	36	2,784	3,442	650	74	
ITX	158									
ITX	159	Goodwill - General Plant Related	SALWAGES	(753)	(35)	(2,445)	(3,233)	(1,826)	(93)	
ITX	160	Plant Depre - General & Common (Adj-Tax Sys)	SALWAGES	0	0	0	0	0	0	
ITX	161	Plant Depreciation - General & Common	SALWAGES	0	0	0	0	0	0	
ITX	162	Retirement - Medical	SALWAGES	(76)	(4)	(247)	(326)	(184)	(9)	
ITX	163	Pension	SALWAGES	336	16	1,091	1,443	815	41	
ITX	164	Post Retirement - Life Insurance	SALWAGES	0	0	0	0	0	0	
ITX	165	SERP	SALWAGES	2	0	7	9	5	0	
ITX	166	Pension Restoration	SALWAGES	0	0	1	2	1	0	
ITX	167	TOTAL DEFERRED INCOME TAX EXPENSE		(10,035)	(580)	(44,368)	(54,983)	(11,241)	(1,202)	
ITX	168									
ITX	169	FEDERAL INCOME TAX ADJUSTMENTS								
ITX	21	TCJA Calculation C	RATEBASE	0	0	0	0	0	0	
ITX	171									
ITX	172	FEDERAL INCOME TAX EXPENSE		(9,527)	869	28,184	19,526	1,668	(1,954)	
ITX	173									
ITX	174	TOTAL STATE & FEDERAL INCOME TAX EXPENSE		(12,858)	1,108	34,844	23,095	1,661	(2,600)	
ITX	175									
ITX	176	TOTAL OPERATING DEDUCTIONS		104,355	7,283	498,901	610,539	189,916	6,407	
ITX	177									
ITX	178									
ITX	179	TAX RATES								
ITX	180	STATE TAX RATE								
ITX	181	FEDERAL TAX RATE - CURRENT								
ITX	182	INCREMENTAL TAX RATE								
ITX	183	1-INCREMENTAL TAX RATE								
ITX	184	TAX GROSS-UP FACTOR								
ITX	185	STATE TAX RATE								
ITX	186	WEIGHTED COST OF DEBT								
ITX	187									

COS Without Minimum System			S	S	S	S	S	S	S	S			
SCH ID	LINE NO.	DESCRIPTION	Allocation Basis	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1		
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
S&W	1	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR											
S&W	2												
S&W	3	PRODUCTION SALARIES & WAGES EXPENSE											
S&W	4	Operation	OX_PROD		784,199	0	77,017		218,664	0	20,030	200,558	
S&W	5	Maintenance	MX_PROD		805,040	0	79,063		224,475	0	20,563	205,887	
S&W	6	TOTAL PRODUCTION S&W EXPENSE			1,589,239	0	156,080		443,139	0	40,593	406,445	
S&W	7												
S&W	8	SYSTEM CONTROL AND DISPATCH S&W EXPENSE											
S&W	9	556-Supervision & Engineering	OX_PROD		184,553	0	18,125		51,460	0	4,714	47,199	
S&W	10	557-Other Expenditures	MX_PROD		0	0	0		0	0	0	0	
S&W	11	TOTAL SYSTEM CONTROL AND DISPATCH			184,553	0	18,125		51,460	0	4,714	47,199	
S&W	12												
S&W	13	TRANSMISSION SALARIES & WAGES EXPENSE											
S&W	14	Operation	OX_TRAN		0	0	0		0	0	0	0	
S&W	15	Maintenance	MX_TRAN		0	0	0		0	0	0	0	
S&W	16	TOTAL TRANSMISSION EXPENSE			0	0	0		0	0	0	0	
S&W	17												
S&W	18	REGIONAL MARKET EXPENSE											
S&W	19	575.70-Market Facil, Monitoring, & Compliance	OX_RM		38,891	0	3,810		10,589	0	1,059	13,465	
S&W	20	575.71-Market Fac, Monit, Compl-Transm	OX_RM		0	0	0		0	0	0	0	
S&W	21	TOTAL REGIONAL MARKET EXPENSE			38,891	0	3,810		10,589	0	1,059	13,465	
S&W	22												
S&W	23												
S&W	24												
S&W	25												
S&W	26												
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S&W	45												
S&W	46												

COS Without Minimum System			S	P	Q	T	Q			
SCH ID	LINE NO.	DESCRIPTION	Large Comm & Ind CP-U Total	Large Commerical & Industrial Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Real-Time Market Pricing RTMP	> 5,000kW Light & Power WP-3		
		(a)	(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
S&W	1	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR								
S&W	2									
S&W	3	PRODUCTION SALARIES & WAGES EXPENSE								
S&W	4	Operation	OX_PROD	224,152	54,595	33,255	136,302	0	54,521	
S&W	5	Maintenance	MX_PROD	230,109	56,045	34,139	139,925	0	55,970	
S&W	6	TOTAL PRODUCTION S&W EXPENSE		454,261	110,640	67,393	276,227	0	110,491	
S&W	7									
S&W	8	SYSTEM CONTROL AND DISPATCH S&W EXPENSE								
S&W	9	556-Supervision & Engineering	OX_PROD	52,752	12,848	7,826	32,077	0	12,831	
S&W	10	557-Other Expenditures	MX_PROD	0	0	0	0	0	0	
S&W	11	TOTAL SYSTEM CONTROL AND DISPATCH		52,752	12,848	7,826	32,077	0	12,831	
S&W	12									
S&W	13	TRANSMISSION SALARIES & WAGES EXPENSE								
S&W	14	Operation	OX_TRAN	0	0	0	0	0	0	
S&W	15	Maintenance	MX_TRAN	0	0	0	0	0	0	
S&W	16	TOTAL TRANSMISSION EXPENSE		0	0	0	0	0	0	
S&W	17									
S&W	18	REGIONAL MARKET EXPENSE								
S&W	19	575.70-Market Facil, Monitoring, & Compliance	OX_RM	32,730	14,779	6,259	11,691	17,138	16,816	
S&W	20	575.71-Market Fac, Monit, Compl-Transm	OX_RM	0	0	0	0	0	0	
S&W	21	TOTAL REGIONAL MARKET EXPENSE		32,730	14,779	6,259	11,691	17,138	16,816	
S&W	22									
S&W	23									
S&W	24									
S&W	25									
S&W	26									
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S&W	44									
S&W	45									
S&W	46									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

COS Without Minimum System			ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
SCH	LINE	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
ID	NO.	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
				SYSTEM			SECONDARY	PRIMARY	(i)
S&W	47	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR							
S&W	48								
S&W	49								
S&W	50	DISTRIBUTION SALARIES & WAGES EXPENSE							
S&W	51	Distribution Operations:							
S&W	52	580-Supervision	SALWAGDO	1,731,495	1,075,196	20,428	494,405	8,740	132,725
S&W	53	581-Load Dispatch	DDISPSUB	0	0	0	0	0	0
S&W	54	582-Station Equipment	PLT_362	1,295,730	614,789	3,534	428,993	9,072	239,342
S&W	55	583-Overhead Lines	OHDIST	78,380	51,848	253	25,951	328	0
S&W	56	584-Underground Lines	UGDIST	12,435	8,220	40	4,114	61	0
S&W	57	585-Street Lighting	PLT_371	12,158	0	12,158	0	0	0
S&W	58	586-Metering	CMETERS	1,156,456	890,842	902	240,871	5,389	18,452
S&W	59	587-Customer Installations	PLT_3713	0	0	0	0	0	0
S&W	60	588-Miscellaneous	DISTPLT	1,521,531	964,378	30,325	462,133	5,859	58,836
S&W	61	589-Rents	DISTPLT	108,930	69,042	2,171	33,085	419	4,212
S&W	62	Total Distribution Operation		5,917,116	3,674,315	69,811	1,689,554	29,869	453,566
S&W	63								
S&W	64	Distribution Maintenance							
S&W	65	590-Supervision	SALWAGDM	2,354	1,477	8	779	11	79
S&W	66	591-Structures	PLT_362	0	0	0	0	0	0
S&W	67	592-Station Equipment	PLT_362	2,780,830	1,319,429	7,585	920,684	19,469	513,663
S&W	68	593-Overhead Lines	OHDIST	11,157,951	7,380,961	35,946	3,694,321	46,723	0
S&W	69	594-Underground Lines	UGDIST	870,142	575,168	2,801	287,883	4,290	0
S&W	70	595-Transformers	PLT_368	484,942	322,137	1,569	161,236	0	0
S&W	71	596-Street Lighting	PLT_373	3,367	0	3,367	0	0	0
S&W	72	597-Metering	CMETERS	3,120	2,403	2	650	15	50
S&W	73	598-Miscellaneous	DISTPLT	4,764	3,019	95	1,447	18	184
S&W	74	Total Distribution Maintenance	MX_DIST	15,307,470	9,604,595	51,373	5,067,001	70,526	513,976
S&W	75								
S&W	76	TOTAL DISTRIBUTION		21,224,586	13,278,910	121,184	6,756,555	100,395	967,542
S&W	77								
S&W	78								
S&W	79								
S&W	80								
S&W	81								
S&W	82								
S&W	83								
S&W	84								
S&W	85								
S&W	86								
S&W	87								
S&W	88								
S&W	89								
S&W	90								
S&W	91								
S&W	92								

COS Without Minimum System			S	S	S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
	(a)		(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)
S&W	47	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR							
S&W	48								
S&W	49								
S&W	50	DISTRIBUTION SALARIES & WAGES EXPENSE							
S&W	51	Distribution Operations:							
S&W	52	580-Supervision	SALWAGDO	2,639	130	9,973	12,742	6,825	862
S&W	53	581-Load Dispatch	DDISPSUB	0	0	0	0	0	0
S&W	54	582-Station Equipment	PLT_362	573	30	2,223	2,826	708	0
S&W	55	583-Overhead Lines	OHDIST	44	2	148	194	59	0
S&W	56	584-Underground Lines	UGDIST	7	0	23	31	9	0
S&W	57	585-Street Lighting	PLT_371	0	0	0	0	10,653	1,505
S&W	58	586-Metering	CMETERS	902	0	0	902	0	0
S&W	59	587-Customer Installations	PLT_3713	0	0	0	0	0	0
S&W	60	588-Miscellaneous	DISTPLT	4,528	264	20,263	25,055	4,731	539
S&W	61	589-Rents	DISTPLT	324	19	1,451	1,794	339	39
S&W	62	Total Distribution Operation		9,017	445	34,080	43,543	23,324	2,944
S&W	63								
S&W	64	Distribution Maintenance							
S&W	65	590-Supervision	SALWAGDM	1	0	5	6	2	0
S&W	66	591-Structures	PLT_362	0	0	0	0	0	0
S&W	67	592-Station Equipment	PLT_362	1,230	65	4,771	6,065	1,520	0
S&W	68	593-Overhead Lines	OHDIST	6,270	277	21,015	27,562	8,384	0
S&W	69	594-Underground Lines	UGDIST	489	22	1,638	2,148	653	0
S&W	70	595-Transformers	PLT_368	274	12	917	1,203	366	0
S&W	71	596-Street Lighting	PLT_373	574	34	2,759	3,367	0	0
S&W	72	597-Metering	CMETERS	2	0	0	2	0	0
S&W	73	598-Miscellaneous	DISTPLT	14	1	63	78	15	2
S&W	74	Total Distribution Maintenance	MX_DIST	8,854	409	31,169	40,432	10,939	2
S&W	75								
S&W	76	TOTAL DISTRIBUTION		17,871	855	65,249	83,974	34,263	2,946
S&W	77								
S&W	78								
S&W	79								
S&W	80								
S&W	81								
S&W	82								
S&W	83								
S&W	84								
S&W	85								
S&W	86								
S&W	87								
S&W	88								
S&W	89								
S&W	90								
S&W	91								
S&W	92								

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH	LINE	COS Without Minimum System	ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
ID	NO.	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
									(i)
S&W	93	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR							
S&W	94								
S&W	95	Customer Accounting Expense							
S&W	96	901-Supervision SALWAGCA		563,522	500,272	731	62,421	73	24
S&W	97	902-Meter Reading CMETRDG		281,502	249,857	365	31,176	37	68
S&W	98	903-Billing & Cashiering CUSTREC		1,287,997	1,143,482	1,671	142,677	167	0
S&W	99	905-Miscellaneous CUSTCSS		0	0	0	0	0	0
S&W	100	TOTAL CUSTOMER ACCOUNTING EXPENSE		2,133,021	1,893,611	2,767	236,274	277	92
S&W	101								
S&W	102	CUSTOMER SERVICE EXPENSES							
S&W	103	907-Supervision SALWAGCS		0	0	0	0	0	0
S&W	104	908-Customer Assistance CUSTCSS		1,102,208	674,313	19,015	245,936	29,370	133,573
S&W	105	909-Advertisement CUSTCSS		474,634	290,373	8,188	105,905	12,647	57,519
S&W	106	910-Miscellaneous CUSTCSS		0	0	0	0	0	0
S&W	107	TOTAL CUSTOMER SERVICE EXPENSE		1,576,842	964,686	27,204	351,842	42,018	191,093
S&W	108								
S&W	109	SALES EXPENSES							
S&W	110	912-Demonstrations & Selling OX_902_3		0	0	0	0	0	0
S&W	111	916-Miscellaneous Sales Expense OX_902_3		0	0	0	0	0	0
S&W	112	TOTAL SALES EXPENSES		0	0	0	0	0	0
S&W	113								
S&W	114	TOTAL O&M SALARIES & WAGES EXPENSE EXCL A&G EXPENSE		28,653,356	18,127,905	163,683	8,501,601	224,169	1,635,998
S&W	115								
S&W	116	ADMINISTRATIVE & GENERAL SALARIES & WAGES EXP							
S&W	117	Operation SALWAGXAG		5,561,949	3,518,837	31,773	1,650,260	43,514	317,566
S&W	118	Maintenance SALWAGXAG		0	0	0	0	0	0
S&W	119	TOTAL ADMINISTRATIVE & GENERAL		5,561,949	3,518,837	31,773	1,650,260	43,514	317,566
S&W	120								
S&W	121	TOTAL OPER & MAINTENANCE SALARIES & WAGES EXPENSE		34,215,305	21,646,742	195,456	10,151,861	267,683	1,953,565
S&W	122								
S&W	123								
S&W	124								
S&W	125								
S&W	126								
S&W	127								
S&W	128								
S&W	129								
S&W	130								
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S&W	132								
S&W	133								
S&W	134								
S&W	135								
S&W	136								
S&W	137								
S&W	138								

COS Without Minimum System			S		S		S		S		S		S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1			
	(a)		(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	
S&W	93	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR												
S&W	94													
S&W	95	Customer Accounting Expense												
S&W	96	901-Supervision	SALWAGCA		471,615	0	28,657		54,309	0	2,101	5,523		
S&W	97	902-Meter Reading	CMETRDG		235,544	0	14,313		27,124	0	1,049	2,758		
S&W	98	903-Billing & Cashiering	CUSTREC		1,077,979	0	65,502		124,135	0	4,803	12,624		
S&W	99	905-Miscellaneous	CUSTCSS		0	0	0		0	0	0	0		
S&W	100	TOTAL CUSTOMER ACCOUNTING EXPENSE			1,785,138	0	108,472		205,567	0	7,953	20,905		
S&W	101													
S&W	102	CUSTOMER SERVICE EXPENSES												
S&W	103	907-Supervision	SALWAGCS		0	0	0		0	0	0	0		
S&W	104	908-Customer Assistance	CUSTCSS		629,301	0	45,011		101,072	0	6,952	68,269		
S&W	105	909-Advertisement	CUSTCSS		270,990	0	19,383		43,524	0	2,994	29,398		
S&W	106	910-Miscellaneous	CUSTCSS		0	0	0		0	0	0	0		
S&W	107	TOTAL CUSTOMER SERVICE EXPENSE			900,292	0	64,394		144,595	0	9,946	97,667		
S&W	108													
S&W	109	SALES EXPENSES												
S&W	110	912-Demonstrations & Selling	OX_902_3		0	0	0		0	0	0	0		
S&W	111	916-Miscellaneous Sales Expense	OX_902_3		0	0	0		0	0	0	0		
S&W	112	TOTAL SALES EXPENSES			0	0	0		0	0	0	0		
S&W	113													
S&W	114	TOTAL O&M SALARIES & WAGES EXPENSE EXCL A&G EXPENSE			16,432,352	0	1,695,553		4,556,408	0	394,741	2,006,637		
S&W	115													
S&W	116	ADMINISTRATIVE & GENERAL SALARIES & WAGES EXP												
S&W	117	Operation	SALWAGXAG		3,189,710	0	329,126		884,452	0	76,624	389,512		
S&W	118	Maintenance	SALWAGXAG		0	0	0		0	0	0	0		
S&W	119	TOTAL ADMINISTRATIVE & GENERAL			3,189,710	0	329,126		884,452	0	76,624	389,512		
S&W	120													
S&W	121	TOTAL OPER & MAINTENANCE SALARIES & WAGES EXPENSE			19,622,063	0	2,024,679		5,440,860	0	471,365	2,396,149		
S&W	122													
S&W	123													
S&W	124													
S&W	125													
S&W	126													
S&W	127													
S&W	128													
S&W	129													
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S&W	133													
S&W	134													
S&W	135													
S&W	136													
S&W	137													
S&W	138													

COS Without Minimum System			Large Comm & Ind		S	P	Q	T	Q	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Real-Time Market Pricing RTMP	> 5,000kW Light & Power WP-3	
	(a)		(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
S&W	93	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR								
S&W	94									
S&W	95	Customer Accounting Expense								
S&W	96	901-Supervision	SALWAGCA	575	488	73	13	2	9	
S&W	97	902-Meter Reading	CMETRDG	317	244	37	37	5	26	
S&W	98	903-Billing & Cashiering	CUSTREC	1,284	1,116	167	0	0	0	
S&W	99	905-Miscellaneous	CUSTCSS	0	0	0	0	0	0	
S&W	100	TOTAL CUSTOMER ACCOUNTING EXPENSE		2,176	1,849	277	50	7	36	
S&W	101									
S&W	102	CUSTOMER SERVICE EXPENSES								
S&W	103	907-Supervision	SALWAGCS	0	0	0	0	0	0	
S&W	104	908-Customer Assistance	CUSTCSS	153,811	69,644	29,370	54,797	10	78,766	
S&W	105	909-Advertisement	CUSTCSS	66,234	29,990	12,647	23,597	4	33,918	
S&W	106	910-Miscellaneous	CUSTCSS	0	0	0	0	0	0	
S&W	107	TOTAL CUSTOMER SERVICE EXPENSE		220,045	99,634	42,018	78,394	14	112,685	
S&W	108									
S&W	109	SALES EXPENSES								
S&W	110	912-Demonstrations & Selling	OX_902_3	0	0	0	0	0	0	
S&W	111	916-Miscellaneous Sales Expense	OX_902_3	0	0	0	0	0	0	
S&W	112	TOTAL SALES EXPENSES		0	0	0	0	0	0	
S&W	113									
S&W	114	TOTAL O&M SALARIES & WAGES EXPENSE EXCL A&G EXPENSE		2,798,725	1,543,814	224,169	1,030,742	20,130	585,126	
S&W	115									
S&W	116	ADMINISTRATIVE & GENERAL SALARIES & WAGES EXP								
S&W	117	Operation	SALWAGXAG	543,265	299,672	43,514	200,079	3,907	113,580	
S&W	118	Maintenance	SALWAGXAG	0	0	0	0	0	0	
S&W	119	TOTAL ADMINISTRATIVE & GENERAL		543,265	299,672	43,514	200,079	3,907	113,580	
S&W	120									
S&W	121	TOTAL OPER & MAINTENANCE SALARIES & WAGES EXPENSE		3,341,990	1,843,486	267,683	1,230,821	24,038	698,706	
S&W	122									
S&W	123									
S&W	124									
S&W	125									
S&W	126									
S&W	127									
S&W	128									
S&W	129									
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S&W	135									
S&W	136									
S&W	137									
S&W	138									

COS Without Minimum System			INTEGRATED		TOTAL		TOTAL		TOTAL	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	COMMERCIAL SECONDARY	COMMERCIAL PRIMARY	TOTAL TRANSMISSION	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
AF	1	ALLOCATION FACTOR TABLE								
AF	2									
AF	3	ENERGY - PRODUCTION RELATED								
AF	4	Energy @ Meter (kWh Sales with RTMP)	ENERGY3	798,011,306	252,662,632	2,188,500	236,043,802	37,036,842	270,079,530	
AF	5	Energy @ Meter (kWh Sales)	ENERGY2	696,608,428	252,662,632	2,188,500	236,043,802	37,036,842	168,676,652	
AF	6	Energy @ Generation with losses(kWh)	ENERGY1	745,556,754	274,290,554	2,375,836	256,249,151	38,684,981	173,956,231	
AF	7	Energy @ Generation with losses (kWh)	ENEFUEL	745,556,754	274,290,554	2,375,836	256,249,151	38,684,981	173,956,231	
AF	8									
AF	9	Energy - RTMP	ERTMP	1	0	0	0	0	1	
AF	10									
AF	11									
AF	12	DEMAND								
AF	13	DEMAND - PRODUCTION RELATED								
AF	14	Demand Production (12CP 75% & Energy 25%)	DPROD	1.0000	0.5435	0.0034	0.3117	0.0210	0.1204	
AF	15									
AF	16									
AF	17	Production Load Dispatching (Average Demand)	DPROLD	85,109	31,312	271	29,252	4,416	19,858	
AF	18	Purchased Capacity (1CP Firm Load Only)	DPURCH	86,014	53,077	778	31,227	931	0	
AF	19									
AF	20	DEMAND - TRANSMISSION RELATED								
AF	21	Demand Transmission (12CP no AES or RTMP)	DTRAN	1,119,734	531,598	3,056	370,943	7,843	206,294	
AF	22	Demand Transmission (12CP no AES)	DTRAN3	1,471,812	531,845	3,057	371,116	7,848	557,945	
AF	23	Transmission Load Dispatching (Average Demand)	DTRANLD	85,109	31,312	271	29,252	4,416	19,858	
AF	24									
AF	25	DEMAND - DISTRIBUTION RELATED								
AF	26	Demand Distribution Primary Substation (12 CP)	DDISPSUB	1,120,918	531,845	3,057	371,116	7,848	207,051	
AF	27									
AF	28	Demand Distribution Primary Lines (NCP)	DDISTPRI	214,836	141,961	691	71,055	1,129	0	
AF	29									
AF	30	Demand Distribution Secondary Lines (NCP)	DDISTSEC	213,707	141,961	691	71,055	0	0	
AF	31									
AF	32	Demand Distribution Line Transformers (NCP)	DDISTSLT	213,707	141,961	691	71,055	0	0	
AF	33	Distribution Load Dispatching	DDISTLD	79,522	28,843	250	26,946	4,228	19,255	
AF	34									
AF	35	Minimum System - Demand Allocation Factors								
AF	36	Primary								
AF	37	kW Capability of Minimum	64.00%	137,495						
AF	38	NCP * kW Capability Minimum								
AF	39	Dist Pri Min kW Allocated on Number of Primary Customers		137,495	118,392	4,313	14,772	17	0	
AF	40	Adj Dist Pri (Ln 26) less Alloc Min kW Cap (Ln 37)	DDISTPRIMS	77,393	23,569	(3,569)	56,282	1,111	0	
AF	41	Secondary								
AF	42	Demand Distribution Secondary Lines (NCP)		213,707	141,961	691	71,055	0	0	
AF	43	Demand Adjustment								
AF	44	Adjusted Demand Distribution Primary Lines (NCP)	DDISTSECMS	71,709	35,490	691	35,527	0	0	
AF	45									
AF	46									

COS Without Minimum System			S	S	S	S	S	S	S			
SCH ID	LINE NO.	DESCRIPTION	Allocation Basis	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1	General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1		
	(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
AF	1	ALLOCATION FACTOR TABLE										
AF	2											
AF	3	ENERGY - PRODUCTION RELATED										
AF	4	Energy @ Meter (kWh Sales with RTMP)	ENERGY3	230,118,977	0	22,543,655	62,655,982	0	6,268,674	79,673,221		
AF	5	Energy @ Meter (kWh Sales)	ENERGY2	230,118,977	0	22,543,655	62,655,982	0	6,268,674	79,673,221		
AF	6	Energy @ Generation with losses(kWh)	ENERGY1	249,817,162	0	24,473,392	68,019,334	0	6,805,273	86,493,249		
AF	7	Energy @ Generation with losses (kWh)	ENEFUEL	249,817,162	0	24,473,392	68,019,334	0	6,805,273	86,493,249		
AF	8											
AF	9	Energy - RTMP	ERTMP	0	0	0	0	0	0	0		
AF	10											
AF	11											
AF	12	DEMAND										
AF	13	DEMAND - PRODUCTION RELATED										
AF	14	Demand Production (12CP 75% & Energy 25%)	DPROD	0.4949	0.0000	0.0486	0.1380	0.0000	0.0126	0.1266		
AF	15											
AF	16											
AF	17	Production Load Dispatching (Average Demand)	DPRODLD	28,518	0	2,794	7,765	0	777	9,874		
AF	18	Purchased Capacity (1CP Firm Load Only)	DPURCH	47,121	0	5,956	8,959	0	1,473	10,536		
AF	19											
AF	20	DEMAND - TRANSMISSION RELATED										
AF	21	Demand Transmission (12CP no AES or RTMP)	DTRAN	484,036	0	47,562	135,614	0	12,196	114,868		
AF	22	Demand Transmission (12CP no AES)	DTRAN3	484,262	0	47,584	135,678	0	12,202	114,922		
AF	23	Transmission Load Dispatching (Average Demand)	DTRANLD	28,518	0	2,794	7,765	0	777	9,874		
AF	24											
AF	25	DEMAND - DISTRIBUTION RELATED										
AF	26	Demand Distribution Primary Substation (12 CP)	DDISPSUB	484,262	0	47,584	135,678	0	12,202	114,922		
AF	27											
AF	28	Demand Distribution Primary Lines (NCP)	DDISTPRI	126,030	0	15,932	42,974	0	3,963	12,049		
AF	29											
AF	30	Demand Distribution Secondary Lines (NCP)	DDISTSEC	126,030	0	15,932	42,974	0	3,963	12,049		
AF	31											
AF	32	Demand Distribution Line Transformers (NCP)	DDISTSLT	126,030	0	15,932	42,974	0	3,963	12,049		
AF	33	Distribution Load Dispatching	DDISTLD	26,269	0	2,573	7,153	0	716	9,095		
AF	34											
AF	35	Minimum System - Demand Allocation Factors										
AF	36	Primary		64.00%								
AF	37	kW Capability of Minimum										
AF	38	NCP * kW Capability Minimum		137,495								
AF	39	Dist Pri Min kW Allocated on Number of Primary Customers		111,610	0	6,782	12,852	0	497	1,307		
AF	40	Adj Dist Pri (Ln 26) less Alloc Min kW Cap (Ln 37)	DDISTPRIMS	14,420	0	9,150	30,122	0	3,466	10,742		
AF	41	Secondary										
AF	42	Demand Distribution Secondary Lines (NCP)		126,030	0	15,932	42,974	0	3,963	12,049		
AF	43	Demand Adjustment		0.2500	0.2500	0.2500	0.5000	0.5000	0.5000	0.5000		
AF	44	Adjusted Demand Distribution Primary Lines (NCP)	DDISTSECMS	31,507	0	3,983	21,487	0	1,982	6,025		
AF	45											
AF	46											

COS Without Minimum System			Large Comm & Ind		S	P	Q	T	Q	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Real-Time Market Pricing RTMP	> 5,000kW Light & Power WP-3	
	(a)		(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
AF	1	ALLOCATION FACTOR TABLE								
AF	2									
AF	3	ENERGY - PRODUCTION RELATED								
AF	4	Energy @ Meter (kWh Sales with RTMP)	ENERGY3	193,659,622	87,445,925	37,036,842	69,176,855	101,402,878	99,499,797	
AF	5	Energy @ Meter (kWh Sales)	ENERGY2	193,659,622	87,445,925	37,036,842	69,176,855	0	99,499,797	
AF	6	Energy @ Generation with losses(kWh)	ENERGY1	204,958,368	94,931,296	38,684,981	71,342,091	0	102,614,141	
AF	7	Energy @ Generation with losses (kWh)	ENEFUEL	204,958,368	94,931,296	38,684,981	71,342,091	0	102,614,141	
AF	8									
AF	9	Energy - RTMP	ERTMP	0	0	0	0	1	0	
AF	10									
AF	11									
AF	12	DEMAND								
AF	13	DEMAND - PRODUCTION RELATED								
AF	14	Demand Production (12CP 75% & Energy 25%)	DPROD	0.1415	0.0345	0.0210	0.0860	0.0000	0.0344	
AF	15									
AF	16									
AF	17	Production Load Dispatching (Average Demand)	DPRODLD	23,397	10,837	4,416	8,144	0	11,714	
AF	18	Purchased Capacity (1CP Firm Load Only)	DPURCH	11,191	10,260	931	0	0	0	
AF	19									
AF	20	DEMAND - TRANSMISSION RELATED								
AF	21	Demand Transmission (12CP no AES or RTMP)	DTRAN	252,349	108,265	7,843	136,241	0	70,053	
AF	22	Demand Transmission (12CP no AES)	DTRAN3	252,904	108,315	7,848	136,741	350,894	70,310	
AF	23	Transmission Load Dispatching (Average Demand)	DTRANLD	23,397	10,837	4,416	8,144	0	11,714	
AF	24									
AF	25	DEMAND - DISTRIBUTION RELATED								
AF	26	Demand Distribution Primary Substation (12 CP)	DDISPSUB	252,904	108,315	7,848	136,741	0	70,310	
AF	27									
AF	28	Demand Distribution Primary Lines (NCP)	DDISTPRI	13,197	12,068	1,129	0	0	0	
AF	29									
AF	30	Demand Distribution Secondary Lines (NCP)	DDISTSEC	13,197	12,068	0	0	0	0	
AF	31									
AF	32	Demand Distribution Line Transformers (NCP)	DDISTSLT	12,068	12,068	0	0	0	0	
AF	33	Distribution Load Dispatching	DDISTLD	22,107	9,982	4,228	7,897	0	11,358	
AF	34									
AF	35	Minimum System - Demand Allocation Factors								
AF	36	Primary								
AF	37	kW Capability of Minimum	64.00%							
AF	38	NCP * kW Capability Minimum		137,495						
AF	39	Dist Pri Min kW Allocated on Number of Primary Customers		133	116	17	0	0	0	
AF	40	Adj Dist Pri (Ln 26) less Alloc Min kW Cap (Ln 37)	DDISTPRIMS	13,064	11,952	1,111	0	0	0	
AF	41	Secondary								
AF	42	Demand Distribution Secondary Lines (NCP)		12,068	12,068	0	0	0	0	
AF	43	Demand Adjustment			0.5000					
AF	44	Adjusted Demand Distribution Primary Lines (NCP)	DDISTSECMS	6,034	6,034	0	0	0	0	
AF	45									
AF	46									

COS Without Minimum System			S	S	S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
	(a)		(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)
									(ag)
AF	1	ALLOCATION FACTOR TABLE							
AF	2								
AF	3	ENERGY - PRODUCTION RELATED							
AF	4	Energy @ Meter (kWh Sales with RTMP)	ENERGY3	300,197	17,636	1,443,634	1,761,467	427,033	0
AF	5	Energy @ Meter (kWh Sales)	ENERGY2	300,197	17,636	1,443,634	1,761,467	427,033	0
AF	6	Energy @ Generation with losses(kWh)	ENERGY1	325,894	19,146	1,567,209	1,912,249	463,587	0
AF	7	Energy @ Generation with losses (kWh)	ENEFUEL	325,894	19,146	1,567,209	1,912,249	463,587	0
AF	8								
AF	9	Energy - RTMP	ERTMP	0	0	0	0	0	0
AF	10								
AF	11								
AF	12	DEMAND							
AF	13	DEMAND - PRODUCTION RELATED							
AF	14	Demand Production (12CP 75% & Energy 25%)	DPROD	0.0005	0.0000	0.0022	0.0027	0.0007	0.0000
AF	15								
AF	16								
AF	17	Production Load Dispatching (Average Demand)	DPROLD	37	2	179	218	53	0
AF	18	Purchased Capacity (1CP Firm Load Only)	DPURCH	121	5	404	530	247	0
AF	19								
AF	20	DEMAND - TRANSMISSION RELATED							
AF	21	Demand Transmission (12CP no AES or RTMP)	DTRAN	496	26	1,922	2,444	612	0
AF	22	Demand Transmission (12CP no AES)	DTRAN3	496	26	1,923	2,445	613	0
AF	23	Transmission Load Dispatching (Average Demand)	DTRANLD	37	2	179	218	53	0
AF	24								
AF	25	DEMAND - DISTRIBUTION RELATED							
AF	26	Demand Distribution Primary Substation (12 CP)	DDISPSUB	496	26	1,923	2,445	613	0
AF	27								
AF	28	Demand Distribution Primary Lines (NCP)	DDISTPRI	121	5	404	530	161	0
AF	29								
AF	30	Demand Distribution Secondary Lines (NCP)	DDISTSEC	121	5	404	530	161	0
AF	31								
AF	32	Demand Distribution Line Transformers (NCP)	DDISTSLT	121	5	404	530	161	0
AF	33	Distribution Load Dispatching	DDISTLD	34	2	165	201	49	0
AF	34								
AF	35	Minimum System - Demand Allocation Factors							
AF	36	Primary							
AF	37	kW Capability of Minimum	64.00%						
AF	38	NCP * kW Capability Minimum	137,495						
AF	39	Dist Pri Min kW Allocated on Number of Primary Customers		173	22	494	690	3,624	0
AF	40	Adj Dist Pri (Ln 26) less Alloc Min kW Cap (Ln 37)	DDISTPRIMS	0	(17)	(90)	(107)	(3,462)	0
AF	41	Secondary							
AF	42	Demand Distribution Secondary Lines (NCP)		121	5	404	530	161	0
AF	43	Demand Adjustment		1.0000	1.0000	1.0000		1.0000	1.0000
AF	44	Adjusted Demand Distribution Primary Lines (NCP)	DDISTSECMS	121	5	404	530	161	0
AF	45								
AF	46								

COS Without Minimum System			S		S		S		S		S		S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1			
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	
AF	47	ALLOCATION FACTOR TABLE CONTINUED												
AF	48													
AF	49	CUSTOMER												
AF	50													
AF	51	Minimum System - Customer Allocation Factors												
AF	52	Primary												
AF	53	Number of Primary Customers - MS	CDISTPRI		45,060	0	2,738		5,189	0	201		528	
AF	54	Secondary												
AF	55	Number of Secondary Customers			45,060	0	2,738		5,189	0	201		528	
AF	56	Residential Customer Adjustment			0.5000	0.5000	0.5000		1.00	1.00	1.00		1.00	
AF	57	Adjusted Number of Secondary Customers - MS	CDISTSEC		22,530	0	1,369		5,189	0	201		528	
AF	58	Line Transformers												
AF	59	Number of Line Transformer Customers			45,060	0	2,738		5,189	0	201		528	
AF	60	Line Transformer Adjustment			2.00	2.00	2.00		1.50	1.50	1.50		1.00	
AF	61	Adjusted Number of Secondary Customers 368 - MS	CDISTSLT		22,530	0	1,369		3,459	0	134		528	
AF	62													
AF	63													
AF	64	369-Service Investment (Replacement Costs)	CSERVICE		35,777,023	0	2,362,632		4,751,766	0	182,708		763,763	
AF	65	370-Meters (New Meter Cost)	CMETERS		6,263,595	0	336,771		1,139,366	0	64,111		498,634	
AF	66													
AF	67	371-Installation on Customer Premises	CUSTPREM		0	0	0		0	0	0		0	
AF	68	373-Street Lighting & Signal Systems	CLIGHT		0	0	0		0	0	0		0	
AF	69													
AF	70	Customer Deposits (Number of Customers)	CUSTDEP		45,060	0	2,738		5,189	0	201		528	
AF	71													
AF	72	902-Meter Reading (Number of Customers)	CMETRDG		45,060	0	2,738		5,189	0	201		528	
AF	73	903-Customer Records & Collections (Bills)	CUSTREC		540,715	0	32,856		62,266	0	2,409		6,332	
AF	74													
AF	75	905, 908-916 - Customer Service and Sales Composite												
AF	76	50% Energy @ Meter			0.1652	0.0000	0.0162		0.0450	0.0000	0.0045		0.0572	
AF	77	50% Number of Customers			0.4058	0.0000	0.0247		0.0467	0.0000	0.0018		0.0048	
AF	78	905, 908-916 - Customer Service and Sales	CUSTCSS		0.5709	0.0000	0.0408		0.0917	0.0000	0.0063		0.0619	
AF	79													
AF	80													
AF	81													
AF	82	Number of Total Bills	CUSTBILLS		540,715	0	32,856		62,266	0	2,409		6,332	
AF	83	Number of Customers (Average Annual)	CUST		45,060	0	2,738		5,189	0	201		528	
AF	84	Number of Services (Customers)	CSERV		45,060	0	2,738		5,189	0	201		528	
AF	85	Number of Lamps	CLAMP		0	0	0		0	0	0		0	
AF	86													
AF	87													
AF	88													
AF	89													
AF	90													
AF	91													
AF	92													

COS Without Minimum System			Large Comm & Ind		S	P	Q	T	Q	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Market Pricing RTMP	> 5,000kW Light & Power WP-3	
		(a)	(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
AF	47	ALLOCATION FACTOR TABLE CONTINUED								
AF	48									
AF	49	CUSTOMER								
AF	50									
AF	51	Minimum System - Customer Allocation Factors								
AF	52	Primary								
AF	53	Number of Primary Customers - MS	CDISTPRI	54	47	7	0	0	0	
AF	54	Secondary								
AF	55	Number of Secondary Customers		47	47	0	0	0	0	
AF	56	Residential Customer Adjustment			1.00	1.00	1.00	1.00	1.00	
AF	57	Adjusted Number of Secondary Customers - MS	CDISTSEC	47	47	0	0	0	0	
AF	58	Line Transformers								
AF	59	Number of Line Transformer Customers		47	47	0	0	1	5	
AF	60	Line Transformer Adjustment			1.00	1.00	1.00	1.00	1.00	
AF	61	Adjusted Number of Secondary Customers 368 - MS	CDISTSLT	47	47	0	0	1	5	
AF	62									
AF	63									
AF	64	369-Service Investment (Replacement Costs)	CSERVICE	60,091	60,091	0	0	0	0	
AF	65	370-Meters (New Meter Cost)	CMETERS	180,129	82,536	39,925	57,669	14,500	64,545	
AF	66									
AF	67	371-Installation on Customer Premises	CUSTPREM	0	0	0	0	0	0	
AF	68	373-Street Lighting & Signal Systems	CLIGHT	0	0	0	0	0	0	
AF	69									
AF	70	Customer Deposits (Number of Customers)	CUSTDEP	61	47	7	7	1	5	
AF	71									
AF	72	902-Meter Reading (Number of Customers)	CMETRDG	61	47	7	7	1	5	
AF	73	903-Customer Records & Collections (Bills)	CUSTREC	644	560	84	0	0	0	
AF	74									
AF	75	905, 908-916 - Customer Service and Sales Composite								
AF	76	50% Energy @ Meter		0.1390	0.0628	0.0266	0.0497	0.0000	0.0714	
AF	77	50% Number of Customers		0.0005	0.0004	0.0001	0.0001	0.0000	0.0000	
AF	78	905, 908-916 - Customer Service and Sales	CUSTCSS	0.1395	0.0632	0.0266	0.0497	0.0000	0.0715	
AF	79									
AF	80									
AF	81									
AF	82	Number of Total Bills	CUSTBILLS	644	560	84	0	0	0	
AF	83	Number of Customers (Average Annual)	CUST	61	47	7	7	1	5	
AF	84	Number of Services (Customers)	CSERV	47	47	0	0	0	0	
AF	85	Number of Lamps	CLAMP	0	0	0	0	0	0	
AF	86									
AF	87									
AF	88									
AF	89									
AF	90									
AF	91									
AF	92									

COS Without Minimum System			S	S	S	S	S	S		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4	
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)
AF	47	ALLOCATION FACTOR TABLE CONTINUED								
AF	48									
AF	49	CUSTOMER								
AF	50									
AF	51	Minimum System - Customer Allocation Factors								
AF	52	Primary								
AF	53	Number of Primary Customers - MS	CDISTPRI	70	9	200	278	1,463		0
AF	54	Secondary								
AF	55	Number of Secondary Customers		0	0	0	0	1,463		0
AF	56	Residential Customer Adjustment		1.00	1.00	1.00		1.00		1.00
AF	57	Adjusted Number of Secondary Customers - MS	CDISTSEC	0	0	0	0	1,463		0
AF	58	Line Transformers								
AF	59	Number of Line Transformer Customers		0	0	0	0	1,463		0
AF	60	Line Transformer Adjustment		1.00	1.00	1.00		1.00		1.00
AF	61	Adjusted Number of Secondary Customers 368 - MS	CDISTSLT	0	0	0	0	1,463		0
AF	62									
AF	63									
AF	64	369-Service Investment (Replacement Costs)	CSERVICE	54,122	6,975	154,680	215,778	0		0
AF	65	370-Meters (New Meter Cost)	CMETERS	6,682	0	0	6,682	0		0
AF	66									
AF	67	371-Installation on Customer Premises	CUSTPREM	0	0	0	0	1,630		230
AF	68	373-Street Lighting & Signal Systems	CLIGHT	300,197	17,636	1,443,634	1,761,467	0		0
AF	69									
AF	70	Customer Deposits (Number of Customers)	CUSTDEP	70	9	200	278	1,463		0
AF	71									
AF	72	902-Meter Reading (Number of Customers)	CMETRDG	70	0	0	70	0		0
AF	73	903-Customer Records & Collections (Bills)	CUSTREC	838	0	0	838	0		0
AF	74									
AF	75	905, 908-916 - Customer Service and Sales Composite								
AF	76	50% Energy @ Meter		0.0002	0.0000	0.0010	0.0013	0.0003		0.0000
AF	77	50% Number of Customers		0.0006	0.0001	0.0018	0.0025	0.0132		0.0000
AF	78	905, 908-916 - Customer Service and Sales	CUSTCSS	0.0008	0.0001	0.0028	0.0038	0.0135		0.0000
AF	79									
AF	80									
AF	81									
AF	82	Number of Total Bills	CUSTBILLS	838	0	0	838	0		0
AF	83	Number of Customers (Average Annual)	CUST	70	9	200	278	1,463		0
AF	84	Number of Services (Customers)	CSERV	70	9	200	278	0		0
AF	85	Number of Lamps	CLAMP	0	123	6,748	6,871	1,630		230
AF	86									
AF	87									
AF	88									
AF	89									
AF	90									
AF	91									
AF	92									

COS Without Minimum System			INTEGRATED			TOTAL	TOTAL	TOTAL		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	COMMERCIAL SECONDARY	COMMERICAL PRIMARY	TOTAL TRANSMISSION	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
AF	93	ALLOCATION FACTOR TABLE CONTINUED								
AF	94	INTERNALLY DEVELOPED ALLOCATION FACTORS								
AF	95									
AF	96	Plant								
AF	97	Intangible Plant In Service	INTPLT	5,881,563	3,582,813	90,659	1,799,156	50,174	358,760	
AF	98	Production Plant In Service	PRODPLT	119,245,069	64,812,058	404,536	37,165,135	2,502,643	14,360,696	
AF	99	Transmission Plant in Service	TRANPLT	0	0	0	0	0	0	
AF	100	Distribution Plant in Service	DISTPLT	317,399,568	201,174,440	6,325,945	96,403,444	1,222,278	12,273,462	
AF	101	General Plant in Service	GENPLT	97,476,209	61,669,546	556,835	28,921,703	762,603	5,565,523	
AF	102	Intangible and General Plant in Service	INTGENPLT	103,357,772	65,252,359	647,494	30,720,859	812,777	5,924,283	
AF	103	Total Transmission and Distribution Plant	TDTPLT	317,399,568	201,174,440	6,325,945	96,403,444	1,222,278	12,273,462	
AF	104	Prod, Trans, and Distr Plant in Service	PTDPLT	436,644,637	265,986,498	6,730,481	133,568,578	3,724,922	26,634,158	
AF	105	Total Electric Plant In Service	TOTPLT	540,002,409	331,238,857	7,377,975	164,289,438	4,537,698	32,558,441	
AF	106	Net Electric Plant In Service	NETPLT	307,809,705	192,162,699	3,598,587	93,629,444	2,122,833	16,296,142	
AF	107	Rate Base	RATEBASE	403,564,016	245,990,858	3,870,576	125,650,394	3,006,463	25,045,724	
AF	108									
AF	109									
AF	110									
AF	111									
AF	112									
AF	113									
AF	114									
AF	115	Distribution Plant in Service								
AF	116	Acct 360-Land and Land Rights	PLT_360	1,009,548	479,003	2,754	334,244	7,068	186,479	
AF	117	Acct 361-Structures & Improvements	PLT_361	2,655,202	1,259,822	7,242	879,091	18,590	490,457	
AF	118	Acct 362-Station Equipment	PLT_362	61,383,182	29,124,668	167,430	20,322,891	429,760	11,338,432	
AF	119	Acct 364-Towers and Fixtures	PLT_364	66,668,839	44,099,115	214,764	22,072,505	282,453	0	
AF	120	Acct 365-Overhead Conductors & Devices	PLT_365	31,697,783	20,970,199	102,126	10,496,012	129,447	0	
AF	121	Acct 366-Underground Conduit	PLT_366	0	0	0	0	0	0	
AF	122	Acct 367 - Underground Conductor	PLT_367	56,710,093	37,485,627	182,557	18,762,320	279,590	0	
AF	123	Acct 368-Line Transformers	PLT_368	50,900,543	33,812,187	164,667	16,923,688	0	0	
AF	124	Acct 369-Services	PLT_369	24,848,486	21,483,379	121,544	3,243,563	0	0	
AF	125	Acct 370-Meters	PLT_370	16,175,647	12,460,439	12,614	3,369,130	75,371	258,093	
AF	126	Acct 371-Inst. on Customer Premises	PLT_371	908,925	0	908,925	0	0	0	
AF	127	Acct 373-Street Lighting / Signal Systems	PLT_373	4,441,322	0	4,441,322	0	0	0	
AF	128	Distribution Overhead Lines Plant Accts 364 & 365	OHDIST	98,366,621	65,069,314	316,890	32,568,517	411,900	0	
AF	129	Distribution Underground Lines Plant Accts 366 & 367	UGDIST	56,710,093	37,485,627	182,557	18,762,320	279,590	0	
AF	130	Accounts 371&373	PLT_3713	5,350,247	0	5,350,247	0	0	0	
AF	131									
AF	132	Accts 360-362-Distribution Substation	PLT_SUB	65,047,932	30,863,493	177,426	21,536,226	455,417	12,015,369	
AF	133	Accts 364 thru 367-Distribution Primary	PLT_DPRI	131,617,189	86,971,259	423,554	43,530,886	691,490	0	
AF	134	Accts 364 thru 367-Distribution Secondary	PLT_DSEC	0	0	0	0	0	0	
AF	135									
AF	136									
AF	137									
AF	138									

COS Without Minimum System			S	S	S	S	S	S	S				
SCH ID	LINE NO.	DESCRIPTION	Allocation Basis	Integrated Residential A-1	Iron River Residential A-2	Res. Heating AH-1	General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1			
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
AF	93	ALLOCATION FACTOR TABLE CONTINUED											
AF	94	INTERNALLY DEVELOPED ALLOCATION FACTORS											
AF	95												
AF	96	Plant											
AF	97	Intangible Plant In Service	INTPLT		3,234,917	0	347,896		948,787	0	84,140		467,517
AF	98	Production Plant In Service	PRODPLT		59,016,062	0	5,795,996		16,455,881	0	1,507,408		15,093,253
AF	99	Transmission Plant in Service	TRANPLT		0	0	0		0	0	0		0
AF	100	Distribution Plant in Service	DISTPLT		181,142,778	0	20,031,662		53,981,641	0	4,739,126		19,615,007
AF	101	General Plant in Service	GENLPLT		55,901,424	0	5,768,122		15,500,503	0	1,342,875		6,826,405
AF	102	Intangible and General Plant in Service	INTGENLPLT		59,136,341	0	6,116,018		16,449,289	0	1,427,015		7,293,922
AF	103	Total Transmission and Distribution Plant	TDPLT		181,142,778	0	20,031,662		53,981,641	0	4,739,126		19,615,007
AF	104	Prod. Trans. and Distr Plant in Service	PTDPLT		240,158,840	0	25,827,658		70,437,522	0	6,246,535		34,708,260
AF	105	Total Electric Plant In Service	TOTPLT		299,295,181	0	31,943,676		86,886,812	0	7,673,550		42,002,182
AF	106	Net Electric Plant In Service	NETPLT		173,535,969	0	18,626,729		50,542,079	0	4,444,347		22,073,794
AF	107	Rate Base	RATEBASE		221,863,850	0	24,127,007		66,062,170	0	5,868,407		30,399,125
AF	108												
AF	109												
AF	110												
AF	111												
AF	112												
AF	113												
AF	114												
AF	115	Distribution Plant in Service											
AF	116	Acct 360-Land and Land Rights	PLT_360		436,147	0	42,856		122,197	0	10,989		103,504
AF	117	Acct 361-Structures & Improvements	PLT_361		1,147,107	0	112,715		321,390	0	28,903		272,224
AF	118	Acct 362-Station Equipment	PLT_362		26,518,908	0	2,605,760		7,429,910	0	668,177		6,293,303
AF	119	Acct 364-Towers and Fixtures	PLT_364		39,150,114	0	4,949,001		13,349,542	0	1,231,163		3,742,996
AF	120	Acct 365-Overhead Conductors & Devices	PLT_365		18,616,829	0	2,353,370		6,348,031	0	585,448		1,779,886
AF	121	Acct 366-Underground Conduit	PLT_366		0	0	0		0	0	0		0
AF	122	Acct 367 - Underground Conductor	PLT_367		33,278,821	0	4,206,806		11,347,528	0	1,046,527		3,181,664
AF	123	Acct 368-Line Transformers	PLT_368		30,017,632	0	3,794,556		10,235,517	0	943,971		2,869,874
AF	124	Acct 369-Services	PLT_369		20,152,551	0	1,330,828		2,676,584	0	102,916		430,214
AF	125	Acct 370-Meters	PLT_370		11,824,669	0	635,770		2,150,941	0	121,032		941,342
AF	126	Acct 371-Inst. on Customer Premises	PLT_371		0	0	0		0	0	0		0
AF	127	Acct 373-Street Lighting / Signal Systems	PLT_373		0	0	0		0	0	0		0
AF	128	Distribution Overhead Lines Plant Accts 364 & 365	OHDIST		57,766,943	0	7,302,371		19,697,573	0	1,816,611		5,522,882
AF	129	Distribution Underground Lines Plant Accts 366 & 367	UGDIST		33,278,821	0	4,206,806		11,347,528	0	1,046,527		3,181,664
AF	130	Accounts 371&373	PLT_3713		0	0	0		0	0	0		0
AF	131												
AF	132	Accts 360-362-Distribution Substation	PLT_SUB		28,102,162	0	2,761,331		7,873,497	0	708,069		6,669,031
AF	133	Accts 364 thru 367-Distribution Primary	PLT_DPRI		77,210,953	0	9,760,306		26,327,660	0	2,428,071		7,381,851
AF	134	Accts 364 thru 367-Distribution Secondary	PLT_DSEC		0	0	0		0	0	0		0
AF	135												
AF	136												
AF	137												
AF	138												

COS Without Minimum System			Large Comm & Ind		S		P		Q		T		Q	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Real-Time Market Pricing RTMP	Light & Power WP-3					
		(a)	(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)				
AF	93	ALLOCATION FACTOR TABLE CONTINUED												
AF	94	INTERNALLY DEVELOPED ALLOCATION FACTORS												
AF	95													
AF	96	Plant												
AF	97	Intangible Plant In Service	INTPLT	595,409	298,712	50,174	246,523	369	111,868					
AF	98	Production Plant In Service	PRODPLT	16,868,881	4,108,593	2,502,643	10,257,645	0	4,103,051					
AF	99	Transmission Plant in Service	TRANPLT	0	0	0	0	0	0					
AF	100	Distribution Plant in Service	DISTPLT	27,334,041	18,067,669	1,222,278	8,044,094	27,374	4,201,994					
AF	101	General Plant in Service	GENLPLT	9,521,019	5,251,921	762,603	3,506,495	68,481	1,990,547					
AF	102	Intangible and General Plant in Service	INTGENLPLT	10,116,428	5,550,633	812,777	3,753,018	68,849	2,102,416					
AF	103	Total Transmission and Distribution Plant	TDPLT	27,334,041	18,067,669	1,222,278	8,044,094	27,374	4,201,994					
AF	104	Prod, Trans, and Distr Plant in Service	PTDPLT	44,202,922	22,176,261	3,724,922	18,301,739	27,374	8,305,045					
AF	105	Total Electric Plant In Service	TOTPLT	54,319,350	27,726,894	4,537,698	22,054,757	96,223	10,407,461					
AF	106	Net Electric Plant In Service	NETPLT	29,479,224	16,569,225	2,122,833	10,787,166	80,830	5,428,146					
AF	107	Rate Base	RATEBASE	42,730,752	23,320,692	3,006,463	16,403,596	135,250	8,506,878					
AF	108													
AF	109													
AF	110													
AF	111													
AF	112													
AF	113													
AF	114													
AF	115	Distribution Plant in Service												
AF	116	Acct 360-Land and Land Rights	PLT_360	227,777	97,553	7,068	123,155	0	63,324					
AF	117	Acct 361-Structures & Improvements	PLT_361	599,073	256,574	18,590	323,909	0	166,548					
AF	118	Acct 362-Station Equipment	PLT_362	13,849,421	5,931,501	429,760	7,488,161	0	3,850,272					
AF	119	Acct 364-Towers and Fixtures	PLT_364	4,031,257	3,748,804	282,453	0	0	0					
AF	120	Acct 365-Overhead Conductors & Devices	PLT_365	1,912,094	1,782,647	129,447	0	0	0					
AF	121	Acct 366-Underground Conduit	PLT_366	0	0	0	0	0	0					
AF	122	Acct 367 - Underground Conductor	PLT_367	3,466,190	3,186,600	279,590	0	0	0					
AF	123	Acct 368-Line Transformers	PLT_368	2,874,326	2,874,326	0	0	0	0					
AF	124	Acct 369-Services	PLT_369	33,848	33,848	0	0	0	0					
AF	125	Acct 370-Meters	PLT_370	340,055	155,815	75,371	108,869	27,374	121,850					
AF	126	Acct 371-Inst. on Customer Premises	PLT_371	0	0	0	0	0	0					
AF	127	Acct 373-Street Lighting / Signal Systems	PLT_373	0	0	0	0	0	0					
AF	128	Distribution Overhead Lines Plant Accts 364 & 365	OHDIST	5,943,351	5,531,451	411,900	0	0	0					
AF	129	Distribution Underground Lines Plant Accts 366 & 367	UGDIST	3,466,190	3,186,600	279,590	0	0	0					
AF	130	Accounts 371&373	PLT_3713	0	0	0	0	0	0					
AF	131													
AF	132	Accts 360-362-Distribution Substation	PLT_SUB	14,676,271	6,285,628	455,417	7,935,225	0	4,080,144					
AF	133	Accts 364 thru 367-Distribution Primary	PLT_DPRI	8,084,794	7,393,304	691,490	0	0	0					
AF	134	Accts 364 thru 367-Distribution Secondary	PLT_DSEC	0	0	0	0	0	0					
AF	135													
AF	136													
AF	137													
AF	138													

COS Without Minimum System			S	S	S	S	S	S		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4	
	(a)		(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)
AF	93	ALLOCATION FACTOR TABLE CONTINUED								
AF	94	INTERNALLY DEVELOPED ALLOCATION FACTORS								
AF	95									
AF	96	Plant								
AF	97	Intangible Plant In Service	INTPLT	13,575	787	60,403	74,766	14,378	1,515	
AF	98	Production Plant In Service	PRODPLT	63,221	3,400	257,364	323,984	80,552	0	
AF	99	Transmission Plant in Service	TRANPLT	0	0	0	0	0	0	
AF	100	Distribution Plant in Service	DISTPLT	944,617	55,017	4,226,943	5,226,576	986,862	112,506	
AF	101	General Plant in Service	GENLPLT	81,372	3,768	264,317	349,457	197,356	10,023	
AF	102	Intangible and General Plant in Service	INTGENLPLT	94,948	4,555	324,720	424,222	211,734	11,538	
AF	103	Total Transmission and Distribution Plant	TDPLT	944,617	55,017	4,226,943	5,226,576	986,862	112,506	
AF	104	Prod., Trans., and Distr Plant in Service	PTDPLT	1,007,838	58,416	4,484,307	5,550,561	1,067,414	112,506	
AF	105	Total Electric Plant In Service	TOTPLT	1,102,785	62,971	4,809,027	5,974,783	1,279,148	124,044	
AF	106	Net Electric Plant In Service	NETPLT	548,073	30,604	2,320,229	2,898,906	643,865	55,817	
AF	107	Rate Base	RATEBASE	642,139	33,950	2,688,902	3,364,991	440,063	65,522	
AF	108									
AF	109									
AF	110									
AF	111									
AF	112									
AF	113									
AF	114									
AF	115	Distribution Plant in Service								
AF	116	Acct 360-Land and Land Rights	PLT_360	446	23	1,732	2,202	552	0	
AF	117	Acct 361-Structures & Improvements	PLT_361	1,174	62	4,555	5,791	1,451	0	
AF	118	Acct 362-Station Equipment	PLT_362	27,148	1,425	105,313	133,886	33,544	0	
AF	119	Acct 364-Towers and Fixtures	PLT_364	37,460	1,653	125,560	164,673	50,091	0	
AF	120	Acct 365-Overhead Conductors & Devices	PLT_365	17,813	786	59,707	78,306	23,820	0	
AF	121	Acct 366-Underground Conduit	PLT_366	0	0	0	0	0	0	
AF	122	Acct 367 - Underground Conductor	PLT_367	31,842	1,405	106,730	139,978	42,579	0	
AF	123	Acct 368-Line Transformers	PLT_368	28,722	1,267	96,271	126,260	38,406	0	
AF	124	Acct 369-Services	PLT_369	30,486	3,929	87,129	121,544	0	0	
AF	125	Acct 370-Meters	PLT_370	12,614	0	0	12,614	0	0	
AF	126	Acct 371-Inst. on Customer Premises	PLT_371	0	0	0	0	796,419	112,506	
AF	127	Acct 373-Street Lighting / Signal Systems	PLT_373	756,910	44,467	3,639,945	4,441,322	0	0	
AF	128	Distribution Overhead Lines Plant Accts 364 & 365	OHDIST	55,274	2,439	185,267	242,980	73,911	0	
AF	129	Distribution Underground Lines Plant Accts 366 & 367	UGDIST	31,842	1,405	106,730	139,978	42,579	0	
AF	130	Accounts 371&373	PLT_3713	756,910	44,467	3,639,945	4,441,322	796,419	112,506	
AF	131									
AF	132	Accts 360-362-Distribution Substation	PLT_SUB	28,769	1,510	111,601	141,879	35,547	0	
AF	133	Accts 364 thru 367-Distribution Primary	PLT_DPRI	73,878	3,259	247,627	324,765	98,788	0	
AF	134	Accts 364 thru 367-Distribution Secondary	PLT_DSEC	0	0	0	0	0	0	
AF	135									
AF	136									
AF	137									
AF	138									

COS Without Minimum System			INTEGRATED		TOTAL		TOTAL			
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	COMMERCIAL SECONDARY	COMMERCIAL PRIMARY	TOTAL TRANSMISSION	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
AF	139	ALLOCATION FACTOR TABLE CONTINUED								
AF	140	<u>INTERNALLY DEVELOPED ALLOCATION FACTORS</u>								
AF	141									
AF	142	Production Expense								
AF	143	O&M Exp Prod Oper Accts 502-509,537-539,548,549	OX_PROD	483,401	262,738	1,640	150,662	10,145	58,216	
AF	144	O&M Exp Prod Maint Accts 511-514,542-545,552-554	MX_PROD	1,422,026	772,899	4,824	443,203	29,845	171,255	
AF	145	Salaries and Wages Production Operation	SALWAGPO	1,584,516	861,216	5,375	493,846	33,255	190,823	
AF	146	Salaries and Wages Production Maintenance	SALWAGPM	1,626,625	884,103	5,518	506,971	34,139	195,895	
AF	147									
AF	148	Transmission Expense								
AF	149	O&M Accounts 561-567	OX_TRAN	163,542	60,167	521	56,210	8,486	38,158	
AF	150	O&M Accounts 569-573	MX_TRAN	0	0	0	0	0	0	
AF	151	Salaries & Wages Accounts 561-567	SALWAGTO	0	0	0	0	0	0	
AF	152	Salaries & Wages Accounts 569-573	SALWAGTM	0	0	0	0	0	0	
AF	153									
AF	154	Regional Market Expens								
AF	155	O&M Accounts 575	OX_RM	134,868	42,701	370	39,893	6,259	45,645	
AF	156									
AF	157	Distribution Expense								
AF	158	Acct 580-Supervision	OX_580	1,731,495	1,075,196	20,428	494,405	8,740	132,725	
AF	159	Acct 581-Load Dispatch	OX_581	0	0	0	0	0	0	
AF	160	Acct 582-Station Equipment	OX_582	1,295,730	614,789	3,534	428,993	9,072	239,342	
AF	161	Acct 583-Overhead Lines	OX_583	78,380	51,848	253	25,951	328	0	
AF	162	Acct 584-Underground Lines	OX_584	12,435	8,220	40	4,114	61	0	
AF	163	Acct 585-Street Lighting	OX_585	12,158	0	12,158	0	0	0	
AF	164	Acct 586-Metering	OX_586	1,156,456	890,842	902	240,871	5,389	18,452	
AF	165	Acct 587-Customer Installations	OX_587	0	0	0	0	0	0	
AF	166	Acct 588-Miscellaneous	OX_588	1,521,531	964,378	30,325	462,133	5,859	58,836	
AF	167	Acct 589-Rents	OX_589	108,930	69,042	2,171	33,085	419	4,212	
AF	168	Acct 590-Supervision	MX_590	2,354	1,477	8	779	11	79	
AF	169	Acct 592-Station Equipment	MX_592	2,780,830	1,319,429	7,585	920,684	19,469	513,663	
AF	170	Acct 593-Overhead Lines	MX_593	11,157,950	7,380,961	35,946	3,694,321	46,723	0	
AF	171	Acct 594-Underground Lines	MX_594	870,142	575,168	2,801	287,883	4,290	0	
AF	172	Acct 595-Transformers	MX_595	484,942	322,137	1,569	161,236	0	0	
AF	173	Acct 596-Street Lighting	MX_596	3,367	0	3,367	0	0	0	
AF	174	Acct 597-Metering	MX_597	3,120	2,403	2	650	15	50	
AF	175	Acct 598-Miscellaneous	MX_598	4,764	3,019	95	1,447	18	184	
AF	176	O&M Accounts 581-589	OX_DIST	4,185,621	2,599,119	49,383	1,195,148	21,129	320,842	
AF	177	O&M Accounts 591-598	MX_DIST	15,305,115	9,603,117	51,365	5,066,221	70,515	513,897	
AF	178	Salaries & Wages Accounts 581-589	SALWAGDO	5,917,116	3,674,315	69,811	1,689,554	29,869	453,566	
AF	179	Salaries & Wages Accounts 591-598	SALWAGDM	15,307,470	9,604,595	51,373	5,067,001	70,526	513,976	
AF	180									
AF	181									
AF	182									
AF	183									
AF	184									

COS Without Minimum System			S	S	S	S	S	S	S	S			
SCH ID	LINE NO.	DESCRIPTION	Allocation Basis	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1		
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
AF	139	ALLOCATION FACTOR TABLE CONTINUED											
AF	140	INTERNALLY DEVELOPED ALLOCATION FACTORS											
AF	141												
AF	142	Production Expense											
AF	143	O&M Exp Prod Oper Accts 502-509,537-539,548,549	OX_PROD		239,242	0	23,496		66,710	0	6,111	61,186	
AF	144	O&M Exp Prod Maint Accts 511-514,542-545,552-554	MX_PROD		703,781	0	69,119		196,240	0	17,976	179,991	
AF	145	Salaries and Wages Production Operation	SALWAGPO		784,199	0	77,017		218,664	0	20,030	200,558	
AF	146	Salaries and Wages Production Maintenance	SALWAGPM		805,040	0	79,063		224,475	0	20,563	205,887	
AF	147												
AF	148	Transmission Expense											
AF	149	O&M Accounts 561-567	OX_TRAN		54,799	0	5,368		14,920	0	1,493	18,973	
AF	150	O&M Accounts 569-573	MX_TRAN		0	0	0		0	0	0	0	
AF	151	Salaries & Wages Accounts 561-567	SALWAGTO		0	0	0		0	0	0	0	
AF	152	Salaries & Wages Accounts 569-573	SALWAGTM		0	0	0		0	0	0	0	
AF	153												
AF	154	Regional Market Expens											
AF	155	O&M Accounts 575	OX_RM		38,891	0	3,810		10,589	0	1,059	13,465	
AF	156												
AF	157	Distribution Expense											
AF	158	Acct 580-Supervision	OX_580		988,282	0	86,914		250,729	0	20,179	126,587	
AF	159	Acct 581-Load Dispatch	OX_581		0	0	0		0	0	0	0	
AF	160	Acct 582-Station Equipment	OX_582		559,784	0	55,005		156,837	0	14,104	132,845	
AF	161	Acct 583-Overhead Lines	OX_583		46,030	0	5,819		15,695	0	1,448	4,401	
AF	162	Acct 584-Underground Lines	OX_584		7,297	0	922		2,488	0	229	698	
AF	163	Acct 585-Street Lighting	OX_585		0	0	0		0	0	0	0	
AF	164	Acct 586-Metering	OX_586		845,388	0	45,453		153,779	0	8,653	67,300	
AF	165	Acct 587-Customer Installations	OX_587		0	0	0		0	0	0	0	
AF	166	Acct 588-Miscellaneous	OX_588		868,352	0	96,027		258,774	0	22,718	94,029	
AF	167	Acct 589-Rents	OX_589		62,167	0	6,875		18,526	0	1,626	6,732	
AF	168	Acct 590-Supervision	MX_590		1,316	0	161		437	0	40	152	
AF	169	Acct 592-Station Equipment	MX_592		1,201,381	0	118,048		336,596	0	30,270	285,104	
AF	170	Acct 593-Overhead Lines	MX_593		6,552,636	0	828,325		2,234,341	0	206,062	626,473	
AF	171	Acct 594-Underground Lines	MX_594		510,620	0	64,548		174,113	0	16,058	48,818	
AF	172	Acct 595-Transformers	MX_595		285,985	0	36,152		97,516	0	8,993	27,342	
AF	173	Acct 596-Street Lighting	MX_596		0	0	0		0	0	0	0	
AF	174	Acct 597-Metering	MX_597		2,281	0	123		415	0	23	182	
AF	175	Acct 598-Miscellaneous	MX_598		2,719	0	301		810	0	71	294	
AF	176	O&M Accounts 581-589	OX_DIST		2,389,019	0	210,101		606,100	0	48,779	306,004	
AF	177	O&M Accounts 591-598	MX_DIST		8,555,622	0	1,047,496		2,843,791	0	261,478	988,214	
AF	178	Salaries & Wages Accounts 581-589	SALWAGDO		3,377,301	0	297,014		856,829	0	68,958	432,591	
AF	179	Salaries & Wages Accounts 591-598	SALWAGDM		8,556,938	0	1,047,657		2,844,228	0	261,518	988,366	
AF	180												
AF	181												
AF	182												
AF	183												
AF	184												

COS Without Minimum System			Large Comm & Ind		Large Commerical & Industrial		Real-Time		Q	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Market Pricing RTMP	Light & Power WP-3	
	(a)		(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
AF	139	ALLOCATION FACTOR TABLE CONTINUED								
AF	140	INTERNALLY DEVELOPED ALLOCATION FACTORS								
AF	141									
AF	142	Production Expense								
AF	143	O&M Exp Prod Oper Accts 502-509,537-539,548,549	OX_PROD	68,384	16,656	10,145	41,583	0	16,633	
AF	144	O&M Exp Prod Maint Accts 511-514,542-545,552-554	MX_PROD	201,165	48,996	29,845	122,325	0	48,930	
AF	145	Salaries and Wages Production Operation	SALWAGPO	224,152	54,595	33,255	136,302	0	54,521	
AF	146	Salaries and Wages Production Maintenance	SALWAGPM	230,109	56,045	34,139	139,925	0	55,970	
AF	147									
AF	148	Transmission Expense								
AF	149	O&M Accounts 561-567	OX_TRAN	44,959	20,824	8,486	15,649	0	22,509	
AF	150	O&M Accounts 569-573	MX_TRAN	0	0	0	0	0	0	
AF	151	Salaries & Wages Accounts 561-567	SALWAGTO	0	0	0	0	0	0	
AF	152	Salaries & Wages Accounts 569-573	SALWAGTM	0	0	0	0	0	0	
AF	153									
AF	154	Regional Market Expens								
AF	155	O&M Accounts 575	OX_RM	32,730	14,779	6,259	11,691	17,138	16,816	
AF	156									
AF	157	Distribution Expense								
AF	158	Acct 580-Supervision	OX_580	191,353	96,910	8,740	85,702	868	46,155	
AF	159	Acct 581-Load Dispatch	OX_581	0	0	0	0	0	0	
AF	160	Acct 582-Station Equipment	OX_582	292,346	125,207	9,072	158,067	0	81,275	
AF	161	Acct 583-Overhead Lines	OX_583	4,736	4,408	328	0	0	0	
AF	162	Acct 584-Underground Lines	OX_584	760	699	61	0	0	0	
AF	163	Acct 585-Street Lighting	OX_585	0	0	0	0	0	0	
AF	164	Acct 586-Metering	OX_586	24,312	11,140	5,389	7,783	1,957	8,712	
AF	165	Acct 587-Customer Installations	OX_587	0	0	0	0	0	0	
AF	166	Acct 588-Miscellaneous	OX_588	131,032	86,612	5,859	38,561	131	20,143	
AF	167	Acct 589-Rents	OX_589	9,381	6,201	419	2,761	9	1,442	
AF	168	Acct 590-Supervision	MX_590	213	150	11	52	0	27	
AF	169	Acct 592-Station Equipment	MX_592	627,418	268,714	19,469	339,235	0	174,428	
AF	170	Acct 593-Overhead Lines	MX_593	674,168	627,445	46,723	0	0	0	
AF	171	Acct 594-Underground Lines	MX_594	53,184	48,894	0	0	0	0	
AF	172	Acct 595-Transformers	MX_595	27,384	27,384	0	0	0	0	
AF	173	Acct 596-Street Lighting	MX_596	0	0	0	0	0	0	
AF	174	Acct 597-Metering	MX_597	66	30	15	21	5	24	
AF	175	Acct 598-Miscellaneous	MX_598	410	271	18	121	0	63	
AF	176	O&M Accounts 581-589	OX_DIST	462,567	234,266	21,129	207,172	2,098	111,572	
AF	177	O&M Accounts 591-598	MX_DIST	1,382,630	972,739	70,515	339,376	6	174,515	
AF	178	Salaries & Wages Accounts 581-589	SALWAGDO	653,920	331,176	29,869	292,874	2,965	157,727	
AF	179	Salaries & Wages Accounts 591-598	SALWAGDM	1,382,843	972,888	70,526	339,429	6	174,542	
AF	180									
AF	181									
AF	182									
AF	183									
AF	184									

COS Without Minimum System			S	S	S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)
									(ag)
AF	139	ALLOCATION FACTOR TABLE CONTINUED							
AF	140	INTERNALLY DEVELOPED ALLOCATION FACTORS							
AF	141								
AF	142	Production Expense							
AF	143	O&M Exp Prod Oper Accts 502-509,537-539,548,549	OX_PROD	256	14	1,043	1,313	327	0
AF	144	O&M Exp Prod Maint Accts 511-514,542-545,552-554	MX_PROD	754	41	3,069	3,864	961	0
AF	145	Salaries and Wages Production Operation	SALWAGPO	840	45	3,420	4,305	1,070	0
AF	146	Salaries and Wages Production Maintenance	SALWAGPM	862	46	3,511	4,419	1,099	0
AF	147								
AF	148	Transmission Expense							
AF	149	O&M Accounts 561-567	OX_TRAN	71	4	344	419	102	0
AF	150	O&M Accounts 569-573	MX_TRAN	0	0	0	0	0	0
AF	151	Salaries & Wages Accounts 561-567	SALWAGTO	0	0	0	0	0	0
AF	152	Salaries & Wages Accounts 569-573	SALWAGTM	0	0	0	0	0	0
AF	153								
AF	154	Regional Market Expens							
AF	155	O&M Accounts 575	OX_RM	51	3	244	298	72	0
AF	156								
AF	157	Distribution Expense							
AF	158	Acct 580-Supervision	OX_580	2,639	130	9,973	12,742	6,825	862
AF	159	Acct 581-Load Dispatch	OX_581	0	0	0	0	0	0
AF	160	Acct 582-Station Equipment	OX_582	573	30	2,223	2,826	708	0
AF	161	Acct 583-Overhead Lines	OX_583	44	2	148	194	59	0
AF	162	Acct 584-Underground Lines	OX_584	7	0	23	31	9	0
AF	163	Acct 585-Street Lighting	OX_585	2,072	122	9,964	12,158	0	0
AF	164	Acct 586-Metering	OX_586	902	0	0	902	0	0
AF	165	Acct 587-Customer Installations	OX_587	0	0	0	0	0	0
AF	166	Acct 588-Miscellaneous	OX_588	4,528	264	20,263	25,055	4,731	539
AF	167	Acct 589-Rents	OX_589	324	19	1,451	1,794	339	39
AF	168	Acct 590-Supervision	MX_590	1	0	5	6	2	0
AF	169	Acct 592-Station Equipment	MX_592	1,230	65	4,771	6,065	1,520	0
AF	170	Acct 593-Overhead Lines	MX_593	6,270	277	21,015	27,562	8,384	0
AF	171	Acct 594-Underground Lines	MX_594	489	22	1,638	2,148	653	0
AF	172	Acct 595-Transformers	MX_595	274	12	917	1,203	366	0
AF	173	Acct 596-Street Lighting	MX_596	574	34	2,759	3,367	0	0
AF	174	Acct 597-Metering	MX_597	2	0	0	2	0	0
AF	175	Acct 598-Miscellaneous	MX_598	14	1	63	78	15	2
AF	176	O&M Accounts 581-589	OX_DIST	8,450	437	34,072	42,959	5,846	578
AF	177	O&M Accounts 591-598	MX_DIST	8,852	409	31,164	40,426	10,938	2
AF	178	Salaries & Wages Accounts 581-589	SALWAGDO	9,017	445	34,080	43,543	23,324	2,944
AF	179	Salaries & Wages Accounts 591-598	SALWAGDM	8,854	409	31,169	40,432	10,939	2
AF	180								
AF	181								
AF	182								
AF	183								
AF	184								

COS Without Minimum System			INTEGRATED		TOTAL		TOTAL		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	COMMERICAL SECONDARY	COMMERICAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
AF	185	ALLOCATION FACTOR TABLE CONTINUED							
AF	186	<u>INTERNALLY DEVELOPED ALLOCATION FACTORS</u>							
AF	187								
AF	188	Customer Accounting Expense							
AF	189	Account 902	OX_902	281,502	249,857	365	31,176	37	68
AF	190	Account 903	OX_903	1,287,997	1,143,482	1,671	142,677	167	0
AF	191	Account 904	OX_904	327,726	295,333	3,318	25,770	1,152	2,152
AF	192	Accounts 902 & 903	OX_902_3	1,569,499	1,393,338	2,036	173,853	204	68
AF	193	O&M Accounts 902-905	OX_CA	1,897,225	1,688,671	5,354	199,623	1,356	2,220
AF	194	Salaries & Wages Accounts 902-905	SALWAGCA	1,569,499	1,393,338	2,036	173,853	204	68
AF	195								
AF	196	Customer Service Expense							
AF	197	Account908	OX_908	0	0	0	0	0	0
AF	198	Account909	OX_909	474,634	290,373	8,188	105,905	12,647	57,519
AF	199	Account910	OX_910	0	0	0	0	0	0
AF	200	O&M Accounts 908-910	OX_CS	1,576,842	964,686	27,204	351,842	42,018	191,093
AF	201	Salaries & Wages Accounts 908-910	SALWAGCS	1,576,842	964,686	27,204	351,842	42,018	191,093
AF	202								
AF	203	Total Customer Operations Expense	OMXCUST	4,037,589	3,153,630	33,289	613,886	43,447	193,337
AF	204								
AF	205	Salaries & Wages Excluding Admin & Gen exp	SALWAGXAG	28,653,356	18,127,905	163,683	8,501,601	224,169	1,635,998
AF	206	Total Salaries and Wages Expense	SALWAGES	34,215,305	21,646,742	195,456	10,151,861	267,683	1,953,565
AF	207								
AF	208	Total O&M less Fuel and Purchased Power & Acct 904	OMXFPP	59,026,471	35,412,557	312,315	17,936,069	472,047	4,893,483
AF	209								
AF	210								
AF	211								
AF	212								
AF	213								
AF	214								
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AF	229								
AF	230								

COS Without Minimum System			S	S	S		S	S	S	S		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
	(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
AF	185	ALLOCATION FACTOR TABLE CONTINUED										
AF	186	INTERNALLY DEVELOPED ALLOCATION FACTORS										
AF	187											
AF	188	Customer Accounting Expense										
AF	189	Account 902	OX_902	235,544	0	14,313		27,124	0	1,049	2,758	
AF	190	Account 903	OX_903	1,077,979	0	65,502		124,135	0	4,803	12,624	
AF	191	Account 904	OX_904	267,407	0	27,926		20,389	0	985	1,676	
AF	192	Accounts 902 & 903	OX_902_3	1,313,523	0	79,815		151,259	0	5,852	15,382	
AF	193	O&M Accounts 902-905	OX_CA	1,580,930	0	107,741		171,648	0	6,837	17,058	
AF	194	Salaries & Wages Accounts 902-905	SALWAGCA	1,313,523	0	79,815		151,259	0	5,852	15,382	
AF	195											
AF	196	Customer Service Expense										
AF	197	Account908	OX_908									
AF	198	Account909	OX_909	270,990	0	19,383		43,524	0	2,994	29,398	
AF	199	Account910	OX_910	0	0	0		0	0	0	0	
AF	200	O&M Accounts 908-910	OX_CS	900,292	0	64,394		144,595	0	9,946	97,667	
AF	201	Salaries & Wages Accounts 908-910	SALWAGCS	900,292	0	64,394		144,595	0	9,946	97,667	
AF	202											
AF	203	Total Customer Operations Expense	OMXCUST	2,952,837	0	200,793		370,552	0	18,884	120,248	
AF	204											
AF	205	Salaries & Wages Excluding Admin & Gen exp	SALWAGXAG	16,432,352	0	1,695,553		4,556,408	0	394,741	2,006,637	
AF	206	Total Salaries and Wages Expense	SALWAGES	19,622,063	0	2,024,679		5,440,860	0	471,365	2,396,149	
AF	207											
AF	208	Total O&M less Fuel and Purchased Power & Acct 904	OMXFPP	32,120,181	0	3,292,375		8,928,155	0	778,766	4,518,015	
AF	209											
AF	210											
AF	211											
AF	212											
AF	213											
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AF	230											

COS Without Minimum System			Large Comm & Ind		S	P	Q	T	Q	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Real-Time Market Pricing RTMP	> 5,000kW Light & Power WP-3	
		(a)	(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
AF	185	ALLOCATION FACTOR TABLE CONTINUED								
AF	186	INTERNALLY DEVELOPED ALLOCATION FACTORS								
AF	187									
AF	188	Customer Accounting Expense								
AF	189	Account 902	OX_902	317	244	37	37	5	26	
AF	190	Account 903	OX_903	1,284	1,116	167	0	0	0	
AF	191	Account 904	OX_904	6,024	2,720	1,152	2,152	0	0	
AF	192	Accounts 902 & 903	OX_902_3	1,601	1,360	204	37	5	26	
AF	193	O&M Accounts 902-905	OX_CA	7,625	4,080	1,356	2,188	5	26	
AF	194	Salaries & Wages Accounts 902-905	SALWAGCA	1,601	1,360	204	37	5	26	
AF	195									
AF	196	Customer Service Expense								
AF	197	Account908	OX_908	0						
AF	198	Account909	OX_909	66,234	29,990	12,647	23,597	4	33,918	
AF	199	Account910	OX_910	0	0	0	0	0	0	
AF	200	O&M Accounts 908-910	OX_CS	220,045	99,634	42,018	78,394	14	112,685	
AF	201	Salaries & Wages Accounts 908-910	SALWAGCS	220,045	99,634	42,018	78,394	14	112,685	
AF	202									
AF	203	Total Customer Operations Expense	OMXCUST	228,245	104,203	43,447	80,595	21	112,720	
AF	204									
AF	205	Salaries & Wages Excluding Admin & Gen exp	SALWAGXAG	2,798,725	1,543,814	224,169	1,030,742	20,130	585,126	
AF	206	Total Salaries and Wages Expense	SALWAGES	3,341,990	1,843,486	267,683	1,230,821	24,038	698,706	
AF	207									
AF	208	Total O&M less Fuel and Purchased Power & Acct 904	OMXFPP	7,302,267	3,711,133	472,047	3,119,087	32,711	1,741,685	
AF	209									
AF	210									
AF	211									
AF	212									
AF	213									
AF	214									
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AF	228									
AF	229									
AF	230									

COS Without Minimum System			S	S	S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
	(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)
AF	185	ALLOCATION FACTOR TABLE CONTINUED							
AF	186	INTERNALLY DEVELOPED ALLOCATION FACTORS							
AF	187								
AF	188	Customer Accounting Expense							
AF	189	Account 902	OX_902	365	0	0	365	0	0
AF	190	Account 903	OX_903	1,671	0	0	1,671	0	0
AF	191	Account 904	OX_904	0	0	0	0	3,318	0
AF	192	Accounts 902 & 903	OX_902_3	2,036	0	0	2,036	0	0
AF	193	O&M Accounts 902-905	OX_CA	2,036	0	0	2,036	3,318	0
AF	194	Salaries & Wages Accounts 902-905	SALWAGCA	2,036	0	0	2,036	0	0
AF	195								
AF	196	Customer Service Expense							
AF	197	Account908	OX_908				0		
AF	198	Account909	OX_909	401	44	1,345	1,790	6,398	0
AF	199	Account910	OX_910	0	0	0	0	0	0
AF	200	O&M Accounts 908-910	OX_CS	1,331	148	4,468	5,947	21,257	0
AF	201	Salaries & Wages Accounts 908-910	SALWAGCS	1,331	148	4,468	5,947	21,257	0
AF	202								
AF	203	Total Customer Operations Expense	OMXCUST	4,098	148	4,468	8,714	24,575	0
AF	204								
AF	205	Salaries & Wages Excluding Admin & Gen exp	SALWAGXAG	23,920	1,108	77,696	102,724	58,013	2,946
AF	206	Total Salaries and Wages Expense	SALWAGES	28,563	1,323	92,778	122,663	69,274	3,518
AF	207								
AF	208	Total O&M less Fuel and Purchased Power & Acct 904	OMXFPP	48,237	2,319	166,053	216,609	92,177	3,529
AF	209								
AF	210								
AF	211								
AF	212								
AF	213								
AF	214								
AF	215								
AF	216								
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AF	226								
AF	227								
AF	228								
AF	229								
AF	230								

COS Without Minimum System			S	S	S	S	S	S	S	S			
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1		
	(a)		(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
AF	231	REVENUES AND BILLING DETERMINANTS											
AF	232												
AF	233	Sales of Electricity Revenue - Present	SALESREV		65,965,704	0	5,140,072		18,534,075	0	1,315,422	15,047,810	
AF	234	Present Rate Sales Revenue	CLAIMREV		74,480,922	0	7,791,662		20,993,148	0	1,897,006	12,395,014	
AF	235												
AF	236												
AF	237	Residential A-1 Sales Revenue	SREVRA1		221,863,850	0	0		0	0	0	0	
AF	238	Residential A-2 Sales Revenue	SREVRA2		0	0	0		0	0	0	0	
AF	239	Residential AH-1 Sales Revenue	SREVRAH1		0	0	24,127,007		0	0	0	0	
AF	240	General Service C1 Sales Revenue	SREVGSC1		0	0	0		66,062,170	0	0	0	
AF	241	General Service C2 Sales Revenue	SREVGSC2		0	0	0		0	0	0	0	
AF	242	Commercial Heating H-1 Sales Revenue	SREVCH1		0	0	0		0	0	5,868,407	0	
AF	243	Light and Power P-1 Sales Revenue	SREVLPP1		0	0	0		0	0	0	30,399,125	
AF	244	Large Commercial & Indust CP-U Sec Sales Rev	SREVLClSEC		0	0	0		0	0	0	0	
AF	245	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCIPRI		0	0	0		0	0	0	0	
AF	246	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCITRAN		0	0	0		0	0	0	0	
AF	247	Real Time Market Pricing Sales Revenue	SREVRTMP		0	0	0		0	0	0	0	
AF	248	Light and Power WP-3 Sales Revenue	SREVLPPWP3		0	0	0		0	0	0	0	
AF	249	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3		0	0	0		0	0	0	0	
AF	250	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5		0	0	0		0	0	0	0	
AF	251	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6		0	0	0		0	0	0	0	
AF	252	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3		0	0	0		0	0	0	0	
AF	253	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4		0	0	0		0	0	0	0	
AF	254	Total Rate Base											
AF	255												
AF	256												
AF	257	PRESENT REVENUES FROM SALES INPUT											
AF	258												
AF	259	Total Sales of Electricity Revenues			65,965,704	0	5,140,072		18,534,075	0	1,315,422	15,047,810	
AF	260	Sales of Electricity Revenues Excl Cost of Gas (Present)			65,965,704	0	5,140,072		18,534,075	0	1,315,422	15,047,810	
AF	261												
AF	262												
AF	263	BILLING DETERMINANT INPUTS											
AF	264	Number of Customer Bills	SCH , LN		540,715	-	32,856		62,266	-	2,409	6,332	
AF	265	Annual kWh Sales @ Meter	SCH , LN		230,118,977	0	22,543,655		62,655,982	0	6,268,674	79,673,221	
AF	266	Annual kW - Billed			0	0	0		0	0	0	340,527	
AF	267												
AF	268												
AF	269	RATE OF RETURN											
AF	270	Rate of Return (Equalized)	SCH , LN		6.71%	6.71%	6.71%		6.71%	6.71%	6.71%	6.71%	
AF	271												
AF	272												
AF	273												
AF	274												
AF	275												
AF	276												

COS Without Minimum System			Large Comm & Ind		Large Commerical & Industrial		Real-Time	Q	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Market Pricing RTMP	> 5,000kW Light & Power WP-3
	(a)		(b)	(t)	(u)	(v)	(w)	(x)	(y)
AP	1	ALLOCATION FACTOR PROPORTIONS TABLE							
AP	2								
AP	3	ENERGY - PRODUCTION RELATED							
AP	4	Energy @ Meter (kWh Sales with RTMP)	ENERGY3	0.24268	0.10958	0.04641	0.08669	0.12707	0.12468
AP	5	Energy @ Meter (kWh Sales)	ENERGY2	0.27800	0.12553	0.05317	0.09931	0.00000	0.14283
AP	6	Energy @ Generation with losses(kWh)	ENERGY1	0.27491	0.12733	0.05189	0.09569	0.00000	0.13763
AP	7	Energy @ Generation with losses (kWh)	ENEFUEL	0.27491	0.12733	0.05189	0.09569	0.00000	0.13763
AP	8								
AP	9	Energy - RTMP	ERTMP	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
AP	10								
AP	11								
AP	12	DEMAND							
AP	13	DEMAND - PRODUCTION RELATED							
AP	14	Demand Production (12CP 75% & Energy 25%)	DPROD	0.14146	0.03446	0.02099	0.08602	0.00000	0.03441
AP	15								
AP	16								
AP	17	Production Load Dispatching (Average Demand)	DPRODLD	0.27491	0.12733	0.05189	0.09569	0.00000	0.13763
AP	18	Purchased Capacity (1CP Firm Load Only)	DPURCH	0.13011	0.11928	0.01083	0.00000	0.00000	0.00000
AP	19								
AP	20	DEMAND - TRANSMISSION RELATED							
AP	21	Demand Transmission (12CP no AES or RTMP)	DTRAN	0.22537	0.09669	0.00700	0.12167	0.00000	0.06256
AP	22	Demand Transmission (12CP no AES)	DTRAN3	0.17183	0.07359	0.00533	0.09291	0.23841	0.04777
AP	23	Transmission Load Dispatching (Average Demand)	DTRANLD	0.27491	0.12733	0.05189	0.09569	0.00000	0.13763
AP	24								
AP	25	DEMAND - DISTRIBUTION RELATED							
AP	26	Demand Distribution Primary Substation (12 CP)	DDISPSUB	0.22562	0.09663	0.00700	0.12199	0.00000	0.06273
AP	27								
AP	28	Demand Distribution Primary Lines (NCP)	DDISTPRI	0.06143	0.05617	0.00525	0.00000	0.00000	0.00000
AP	29								
AP	30	Demand Distribution Secondary Lines (NCP)	DDISTSEC	0.05647	0.05647	0.00000	0.00000	0.00000	0.00000
AP	31								
AP	32	Demand Distribution Line Transformers (NCP)	DDISTSLT	0.05647	0.05647	0.00000	0.00000	0.00000	0.00000
AP	33	Distribution Load Dispatching	DDISTLD	0.27800	0.12553	0.05317	0.09931	0.00000	0.14283
AP	34								
AP	35	Minimum System - Demand Allocation Factors							
AP	36	Primary							
AP	37	kW Capability of Minimum		64.00%					
AP	38	NCP * kW Capability Minimum		137.495					
AP	39	Dist Pri Min kW Allocated on Number of Primary Custom							
AP	40	Adj Dist Pri (Ln 26) less Alloc Min kW Cap (Ln 37)	DDISTPRIMS	0.16880	0.15444	0.01436	0.00000	0.00000	0.00000
AP	41	Secondary							
AP	42	Demand Distribution Secondary Lines (NCP)							
AP	43	Demand Adjustment							
AP	44	Adjusted Demand Distribution Primary Lines (NCP)	DDISTSECMS	0.08415	0.08415	0.00000	0.00000	0.00000	0.00000
AP	#REF!	#REF!							
AP	#REF!	#REF!							
AP	45								
AP	46								

COS Without Minimum System			S	S	S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
	(a)		(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)
									(ag)
AP	1	ALLOCATION FACTOR PROPORTIONS TABLE							
AP	2								
AP	3	ENERGY - PRODUCTION RELATED							
AP	4	Energy @ Meter (kWh Sales with RTMP)	ENERGY3	0.00038	0.00002	0.00181	0.00221	0.00054	0.00000
AP	5	Energy @ Meter (kWh Sales)	ENERGY2	0.00043	0.00003	0.00207	0.00253	0.00061	0.00000
AP	6	Energy @ Generation with losses(kWh)	ENERGY1	0.00044	0.00003	0.00210	0.00256	0.00062	0.00000
AP	7	Energy @ Generation with losses (kWh)	ENEFUEL	0.00044	0.00003	0.00210	0.00256	0.00062	0.00000
AP	8								
AP	9	Energy - RTMP	ERTMP	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	10								
AP	11								
AP	12	DEMAND							
AP	13	DEMAND - PRODUCTION RELATED							
AP	14	Demand Production (12CP 75% & Energy 25%)	DPROD	0.00053	0.00003	0.00216	0.00272	0.00068	0.00000
AP	15								
AP	16								
AP	17	Production Load Dispatching (Average Demand)	DPRODLD	0.00044	0.00003	0.00210	0.00256	0.00062	0.00000
AP	18	Purchased Capacity (1CP Firm Load Only)	DPURCH	0.00140	0.00006	0.00470	0.00617	0.00288	0.00000
AP	19								
AP	20	DEMAND - TRANSMISSION RELATED							
AP	21	Demand Transmission (12CP no AES or RTMP)	DTRAN	0.00044	0.00002	0.00172	0.00218	0.00055	0.00000
AP	22	Demand Transmission (12CP no AES)	DTRAN3	0.00034	0.00002	0.00131	0.00166	0.00042	0.00000
AP	23	Transmission Load Dispatching (Average Demand)	DTRANLD	0.00044	0.00003	0.00210	0.00256	0.00062	0.00000
AP	24								
AP	25	DEMAND - DISTRIBUTION RELATED							
AP	26	Demand Distribution Primary Substation (12 CP)	DDISPSUB	0.00044	0.00002	0.00172	0.00218	0.00055	0.00000
AP	27								
AP	28	Demand Distribution Primary Lines (NCP)	DDISTPRI	0.00056	0.00002	0.00188	0.00247	0.00075	0.00000
AP	29								
AP	30	Demand Distribution Secondary Lines (NCP)	DDISTSEC	0.00056	0.00002	0.00189	0.00248	0.00075	0.00000
AP	31								
AP	32	Demand Distribution Line Transformers (NCP)	DDISTSLT	0.00056	0.00002	0.00189	0.00248	0.00075	0.00000
AP	33	Distribution Load Dispatching	DDISTLD	0.00043	0.00003	0.00207	0.00253	0.00061	0.00000
AP	34								
AP	35	Minimum System - Demand Allocation Factors							
AP	36	Primary							
AP	37	kW Capability of Minimum		64.00%					
AP	38	NCP * kW Capability Minimum		137,495					
AP	39	Dist Pri Min kW Allocated on Number of Primary Custom							
AP	40	Adj Dist Pri (Ln 26) less Alloc Min kW Cap (Ln 37)	DDISTPRIMS	0.00000	-0.00022	-0.00116	(0.00138)	-0.04474	0.00000
AP	41	Secondary							
AP	42	Demand Distribution Secondary Lines (NCP)							
AP	43	Demand Adjustment							
AP	44	Adjusted Demand Distribution Primary Lines (NCP)	DDISTSECMS	0.00168	0.00007	0.00564	0.00739	0.00225	0.00000
AP	#REF!	#REF!							
AP	#REF!	#REF!							
AP	45								
AP	46								

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH	LINE	COS Without Minimum System	ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
ID	NO.	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
		(i)							
AP	47	ALLOCATION PROPORTIONS TABLE CONTINUED							
AP	48								
AP	49	CUSTOMER							
AP	50								
AP	51	Minimum System - Customer Allocation Factors							
AP	52	Primary							
AP	53	Number of Primary Customers - MS	CDISTPRI	1.00000	0.86107	0.03137	0.10744	0.00013	0.00000
AP	54	Secondary							
AP	55	Number of Secondary Customers							
AP	56	Residential Customer Adjustment							
AP	57	Adjusted Number of Secondary Customers - MS	CDISTSEC	1.00000	0.76292	0.04670	0.19038	0.00000	0.00000
AP	58	Line Transformers							
AP	59	Number of Line Transformer Customers							
AP	60	Line Transformer Adjustment							
AP	61	Adjusted Number of Secondary Customers 368 - MS	CDISTSLT	1.00000	0.80917	0.04953	0.14110	0.00000	0.00020
AP	62								
AP	63								
AP	64	369-Service Investment (Replacement Costs)	CSERVICE	1.00000	0.86457	0.00489	0.13053	0.00000	0.00000
AP	65	370-Meters (New Meter Cost)	CMETERS	1.00000	0.77032	0.00078	0.20828	0.00466	0.01596
AP	66								
AP	67	371-Installation on Customer Premises	CUSTPREM	1.00000	0.00000	1.00000	0.00000	0.00000	0.00000
AP	68	373-Street Lighting & Signal Systems	CLIGHT	1.00000	0.00000	1.00000	0.00000	0.00000	0.00000
AP	69								
AP	70	Customer Deposits (Number of Customers)	CUSTDEP	1.00000	0.86086	0.03136	0.10741	0.00013	0.00023
AP	71								
AP	72	902-Meter Reading (Number of Customers)	CMETRDG	1.00000	0.88758	0.00130	0.11075	0.00013	0.00024
AP	73	903-Customer Records & Collections (Bills)	CUSTREC	1.00000	0.88780	0.00130	0.11077	0.00013	0.00000
AP	74								
AP	75	905, 908-916 - Customer Service and Sales Composite							
AP	76	50% Energy @ Meter		1.00000	0.36270	0.00314	0.33885	0.05317	0.24214
AP	77	50% Number of Customers		1.00000	0.86086	0.03136	0.10741	0.00013	0.00023
AP	78	905, 908-916 - Customer Service and Sales	CUSTCSS	1.00000	0.61178	0.01725	0.22313	0.02665	0.12119
AP	79								
AP	80								
AP	81								
AP	82	Number of Total Bills	CUSTBILLS	1.00000	0.88780	0.00130	0.11077	0.00013	0.00000
AP	83	Number of Customers (Average Annual)	CUST	1.00000	0.86086	0.03136	0.10741	0.00013	0.00023
AP	84	Number of Services (Customers)	CSERV	1.00000	0.88449	0.00515	0.11036	0.00000	0.00000
AP	85								
AP	86								
AP	87								
AP	88								
AP	89								
AP	90								
AP	91								
AP	92								

COS Without Minimum System			S	S	S		S	S	S	S		
SCH ID	LINE NO.	DESCRIPTION	Allocation Basis	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1	(n)	General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(o)	(p)	(q)	(r)	(s)
AP	47	ALLOCATION PROPORTIONS TABLE CONTINUED										
AP	48											
AP	49	CUSTOMER										
AP	50											
AP	51	Minimum System - Customer Allocation Factors										
AP	52	Primary										
AP	53	Number of Primary Customers - MS	CDISTPRI		0.81174	0.00000	0.04932	0.09348	0.00000	0.00362	0.00951	
AP	54	Secondary										
AP	55	Number of Secondary Customers										
AP	56	Residential Customer Adjustment										
AP	57	Adjusted Number of Secondary Customers - MS	CDISTSEC		0.71921	0.00000	0.04370	0.16564	0.00000	0.00641	0.01684	
AP	58	Line Transformers										
AP	59	Number of Line Transformer Customers										
AP	60	Line Transformer Adjustment										
AP	61	Adjusted Number of Secondary Customers 368 - MS	CDISTSLT		0.76281	0.00000	0.04635	0.11712	0.00000	0.00453	0.01787	
AP	62											
AP	63											
AP	64	369-Service Investment (Replacement Costs)	CSERVICE		0.81102	0.00000	0.05356	0.10772	0.00000	0.00414	0.01731	
AP	65	370-Meters (New Meter Cost)	CMETERS		0.73102	0.00000	0.03930	0.13297	0.00000	0.00748	0.05820	
AP	66											
AP	67	371-Installation on Customer Premises	CUSTPREM		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	68	373-Street Lighting & Signal Systems	CLIGHT		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	69											
AP	70	Customer Deposits (Number of Customers)	CUSTDEP		0.81155	0.00000	0.04931	0.09345	0.00000	0.00362	0.00950	
AP	71											
AP	72	902-Meter Reading (Number of Customers)	CMETRDG		0.83674	0.00000	0.05084	0.09635	0.00000	0.00373	0.00980	
AP	73	903-Customer Records & Collections (Bills)	CUSTREC		0.83694	0.00000	0.05086	0.09638	0.00000	0.00373	0.00980	
AP	74											
AP	75	905, 908-916 - Customer Service and Sales Composite										
AP	76	50% Energy @ Meter			0.33034	0.00000	0.03236	0.08994	0.00000	0.00900	0.11437	
AP	77	50% Number of Customers			0.81155	0.00000	0.04931	0.09345	0.00000	0.00362	0.00950	
AP	78	905, 908-916 - Customer Service and Sales	CUSTCSS		0.57095	0.00000	0.04084	0.09170	0.00000	0.00631	0.06194	
AP	79											
AP	80											
AP	81											
AP	82	Number of Total Bills	CUSTBILLS		0.83694	0.00000	0.05086	0.09638	0.00000	0.00373	0.00980	
AP	83	Number of Customers (Average Annual)	CUST		0.81155	0.00000	0.04931	0.09345	0.00000	0.00362	0.00950	
AP	84	Number of Services (Customers)	CSERV		0.83382	0.00000	0.05067	0.09602	0.00000	0.00371	0.00976	
AP	85											
AP	86											
AP	87											
AP	88											
AP	89											
AP	90											
AP	91											
AP	92											

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

COS Without Minimum System			INTEGRATED		TOTAL		TOTAL			
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	COMMERICAL SECONDARY	COMMERICAL PRIMARY	TOTAL TRANSMISSION	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
AP	93	ALLOCATION PROPORTIONS TABLE CONTINUED								
AP	94	<u>INTERNALLY DEVELOPED ALLOCATION FACTORS</u>								
AP	95									
AP	96	Plant								
AP	97	Intangible Plant In Service	INTPLT	1.00000	0.60916	0.01541	0.30590	0.00853	0.06100	
AP	98	Production Plant In Service	PRODPLT	1.00000	0.54352	0.00339	0.31167	0.02099	0.12043	
AP	99	Transmission Plant in Service	TRANPLT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	100	Distribution Plant in Service	DISTPLT	1.00000	0.63382	0.01993	0.30373	0.00385	0.03867	
AP	101	General Plant in Service	GENPLT	1.00000	0.63266	0.00571	0.29671	0.00782	0.05710	
AP	102	Intangible and General Plant in Service	INTGENPLT	1.00000	0.63133	0.00626	0.29723	0.00786	0.05732	
AP	103	Total Transmission and Distribution Plant	TDPLT	1.00000	0.63382	0.01993	0.30373	0.00385	0.03867	
AP	104	Prod, Trans, and Distr Plant in Service	PTDPLT	1.00000	0.60916	0.01541	0.30590	0.00853	0.06100	
AP	105	Total Electric Plant In Service	TOTPLT	1.00000	0.61340	0.01366	0.30424	0.00840	0.06029	
AP	106	Net Electric Plant In Service	NETPLT	1.00000	0.62429	0.01169	0.30418	0.00690	0.05294	
AP	107	Rate Base	RATEBASE	1.00000	0.60955	0.00959	0.31135	0.00745	0.06206	
AP	108									
AP	109									
AP	110									
AP	111									
AP	112									
AP	113									
AP	114									
AP	115	Distribution Plant in Service								
AP	116	Acct 360-Land and Land Rights	PLT_360	1.00000	0.47447	0.00273	0.33108	0.00700	0.18472	
AP	117	Acct 361-Structures & Improvements	PLT_361	1.00000	0.47447	0.00273	0.33108	0.00700	0.18472	
AP	118	Acct 362-Station Equipment	PLT_362	1.00000	0.47447	0.00273	0.33108	0.00700	0.18472	
AP	119	Acct 364-Towers and Fixtures	PLT_364	1.00000	0.66147	0.00322	0.33108	0.00424	0.00000	
AP	120	Acct 365-Overhead Conductors & Devices	PLT_365	1.00000	0.66157	0.00322	0.33113	0.00408	0.00000	
AP	121	Acct 366-Underground Conduit	PLT_366	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	122	Acct 367 - Underground Conductor	PLT_367	1.00000	0.66100	0.00322	0.33085	0.00493	0.00000	
AP	123	Acct 368-Line Transformers	PLT_368	1.00000	0.66428	0.00324	0.33249	0.00000	0.00000	
AP	124	Acct 369-Services	PLT_369	1.00000	0.86457	0.00489	0.13053	0.00000	0.00000	
AP	125	Acct 370-Meters	PLT_370	1.00000	0.77032	0.00078	0.20828	0.00466	0.01596	
AP	126	Acct 371-Inst. on Customer Premises	PLT_371	1.00000	0.00000	1.00000	0.00000	0.00000	0.00000	
AP	127	Acct 373-Street Lighting / Signal Systems	PLT_373	1.00000	0.00000	1.00000	0.00000	0.00000	0.00000	
AP	128	Distribution Overhead Lines Plant Accts 364 & 365	OHDIST	1.00000	0.66150	0.00322	0.33109	0.00419	0.00000	
AP	129	Distribution Underground Lines Plant Accts 366 & 367	UGDIST	1.00000	0.66100	0.00322	0.33085	0.00493	0.00000	
AP	130	Accounts 371&373	PLT_3713	1.00000	0.00000	1.00000	0.00000	0.00000	0.00000	
AP	131									
AP	132	Accts 360-362-Distribution Substation	PLT_SUB	1.00000	0.47447	0.00273	0.33108	0.00700	0.18472	
AP	133	Accts 364 thru 367-Distribution Primary	PLT_DPRI	1.00000	0.66079	0.00322	0.33074	0.00525	0.00000	
AP	134	Accts 364 thru 367-Distribution Secondary	PLT_DSEC	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	135									
AP	136									
AP	137									
AP	138									

COS Without Minimum System			S	S	S	S	S	S	S				
SCH ID	LINE NO.	DESCRIPTION	Allocation Basis	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1	General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1			
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
AP	93	ALLOCATION PROPORTIONS TABLE CONTINUED											
AP	94	INTERNALLY DEVELOPED ALLOCATION FACTORS											
AP	95												
AP	96	Plant											
AP	97	Intangible Plant In Service	INTPLT		0.55001	0.00000	0.05915		0.16132	0.00000	0.01431		0.07949
AP	98	Production Plant In Service	PRODPLT		0.49491	0.00000	0.04861		0.13800	0.00000	0.01264		0.12657
AP	99	Transmission Plant in Service	TRANPLT		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000		0.00000
AP	100	Distribution Plant in Service	DISTPLT		0.57071	0.00000	0.06311		0.17007	0.00000	0.01493		0.06180
AP	101	General Plant in Service	GENLPLT		0.57349	0.00000	0.05917		0.15902	0.00000	0.01378		0.07003
AP	102	Intangible and General Plant in Service	INTGENLPLT		0.57215	0.00000	0.05917		0.15915	0.00000	0.01381		0.07057
AP	103	Total Transmission and Distribution Plant	TDPLT		0.57071	0.00000	0.06311		0.17007	0.00000	0.01493		0.06180
AP	104	Prod. Trans. and Distr Plant in Service	PTDPLT		0.55001	0.00000	0.05915		0.16132	0.00000	0.01431		0.07949
AP	105	Total Electric Plant In Service	TOTPLT		0.55425	0.00000	0.05915		0.16090	0.00000	0.01421		0.07778
AP	106	Net Electric Plant In Service	NETPLT		0.56378	0.00000	0.06051		0.16420	0.00000	0.01444		0.07171
AP	107	Rate Base	RATEBASE		0.54976	0.00000	0.05978		0.16370	0.00000	0.01454		0.07533
AP	108												
AP	109												
AP	110												
AP	111												
AP	112												
AP	113												
AP	114												
AP	115	Distribution Plant in Service											
AP	116	Acct 360-Land and Land Rights	PLT_360		0.43202	0.00000	0.04245		0.12104	0.00000	0.01089		0.10252
AP	117	Acct 361-Structures & Improvements	PLT_361		0.43202	0.00000	0.04245		0.12104	0.00000	0.01089		0.10252
AP	118	Acct 362-Station Equipment	PLT_362		0.43202	0.00000	0.04245		0.12104	0.00000	0.01089		0.10252
AP	119	Acct 364-Towers and Fixtures	PLT_364		0.58723	0.00000	0.07423		0.20024	0.00000	0.01847		0.05614
AP	120	Acct 365-Overhead Conductors & Devices	PLT_365		0.58732	0.00000	0.07424		0.20027	0.00000	0.01847		0.05615
AP	121	Acct 366-Underground Conduit	PLT_366		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000		0.00000
AP	122	Acct 367 - Underground Conductor	PLT_367		0.58682	0.00000	0.07418		0.20010	0.00000	0.01845		0.05610
AP	123	Acct 368-Line Transformers	PLT_368		0.58973	0.00000	0.07455		0.20109	0.00000	0.01855		0.05638
AP	124	Acct 369-Services	PLT_369		0.81102	0.00000	0.05356		0.10772	0.00000	0.00414		0.01731
AP	125	Acct 370-Meters	PLT_370		0.73102	0.00000	0.03930		0.13297	0.00000	0.00748		0.05820
AP	126	Acct 371-Inst. on Customer Premises	PLT_371		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000		0.00000
AP	127	Acct 373-Street Lighting / Signal Systems	PLT_373		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000		0.00000
AP	128	Distribution Overhead Lines Plant Accts 364 & 365	OHDIST		0.58726	0.00000	0.07424		0.20025	0.00000	0.01847		0.05615
AP	129	Distribution Underground Lines Plant Accts 366 & 367	UGDIST		0.58682	0.00000	0.07418		0.20010	0.00000	0.01845		0.05610
AP	130	Accounts 371&373	PLT_3713		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000		0.00000
AP	131												
AP	132	Accts 360-362-Distribution Substation	PLT_SUB		0.43202	0.00000	0.04245		0.12104	0.00000	0.01089		0.10252
AP	133	Accts 364 thru 367-Distribution Primary	PLT_DPRI		0.58663	0.00000	0.07416		0.20003	0.00000	0.01845		0.05609
AP	134	Accts 364 thru 367-Distribution Secondary	PLT_DSEC		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000		0.00000
AP	135												
AP	136												
AP	137												
AP	138												

COS Without Minimum System			Large Comm & Ind		S		P		Q		T		Q	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Market Pricing RTMP	Light & Power WP-3					
(a)			(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)				
AP	93	ALLOCATION PROPORTIONS TABLE CONTINUED												
AP	94	<u>INTERNALLY DEVELOPED ALLOCATION FACTORS</u>												
AP	95													
AP	96	Plant												
AP	97	Intangible Plant In Service	INTPLT	0.10123	0.05079	0.00853	0.04191	0.00006	0.01902					
AP	98	Production Plant In Service	PRODPLT	0.14146	0.03446	0.02099	0.08602	0.00000	0.03441					
AP	99	Transmission Plant in Service	TRANPLT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000					
AP	100	Distribution Plant in Service	DISTPLT	0.08612	0.05692	0.00385	0.02534	0.00009	0.01324					
AP	101	General Plant in Service	GENLPLT	0.09768	0.05388	0.00782	0.03597	0.00070	0.02042					
AP	102	Intangible and General Plant in Service	INTGENLPLT	0.09788	0.05370	0.00786	0.03631	0.00067	0.02034					
AP	103	Total Transmission and Distribution Plant	TDPLT	0.08612	0.05692	0.00385	0.02534	0.00009	0.01324					
AP	104	Prod, Trans, and Distr Plant in Service	PTDPLT	0.10123	0.05079	0.00853	0.04191	0.00006	0.01902					
AP	105	Total Electric Plant In Service	TOTPLT	0.10059	0.05135	0.00840	0.04084	0.00018	0.01927					
AP	106	Net Electric Plant In Service	NETPLT	0.09577	0.05383	0.00690	0.03504	0.00026	0.01763					
AP	107	Rate Base	RATEBASE	0.10588	0.05779	0.00745	0.04065	0.00034	0.02108					
AP	108													
AP	109													
AP	110													
AP	111													
AP	112													
AP	113													
AP	114													
AP	115	Distribution Plant in Service												
AP	116	Acct 360-Land and Land Rights	PLT_360	0.22562	0.09663	0.00700	0.12199	0.00000	0.06273					
AP	117	Acct 361-Structures & Improvements	PLT_361	0.22562	0.09663	0.00700	0.12199	0.00000	0.06273					
AP	118	Acct 362-Station Equipment	PLT_362	0.22562	0.09663	0.00700	0.12199	0.00000	0.06273					
AP	119	Acct 364-Towers and Fixtures	PLT_364	0.06047	0.05623	0.00424	0.00000	0.00000	0.00000					
AP	120	Acct 365-Overhead Conductors & Devices	PLT_365	0.06032	0.05624	0.00408	0.00000	0.00000	0.00000					
AP	121	Acct 366-Underground Conduit	PLT_366	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000					
AP	122	Acct 367 - Underground Conductor	PLT_367	0.06112	0.05619	0.00493	0.00000	0.00000	0.00000					
AP	123	Acct 368-Line Transformers	PLT_368	0.05647	0.05647	0.00000	0.00000	0.00000	0.00000					
AP	124	Acct 369-Services	PLT_369	0.00136	0.00136	0.00000	0.00000	0.00000	0.00000					
AP	125	Acct 370-Meters	PLT_370	0.02102	0.00963	0.00466	0.00673	0.00169	0.00753					
AP	126	Acct 371-Inst. on Customer Premises	PLT_371	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000					
AP	127	Acct 373-Street Lighting / Signal Systems	PLT_373	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000					
AP	128	Distribution Overhead Lines Plant Accts 364 & 365	OHDIST	0.06042	0.05623	0.00419	0.00000	0.00000	0.00000					
AP	129	Distribution Underground Lines Plant Accts 366 & 367	UGDIST	0.06112	0.05619	0.00493	0.00000	0.00000	0.00000					
AP	130	Accounts 371&373	PLT_3713	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000					
AP	131													
AP	132	Accts 360-362-Distribution Substation	PLT_SUB	0.22562	0.09663	0.00700	0.12199	0.00000	0.06273					
AP	133	Accts 364 thru 367-Distribution Primary	PLT_DPRI	0.06143	0.05617	0.00525	0.00000	0.00000	0.00000					
AP	134	Accts 364 thru 367-Distribution Secondary	PLT_DSEC	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000					
AP	135													
AP	136													
AP	137													
AP	138													

COS Without Minimum System			S	S	S	S	S	S		
SCH	LINE		ALLOCATION	Street	Street Light	Street	Street	Integrated	Iron River	
ID	NO.	DESCRIPTION	BASIS	Lighting	(Closed)	Lighting	Lighting	OSL	OSL	
		(a)	(b)	SL-3	SL-5	SL-6	Total	Z-3	Z-4	
				(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)
AP	93	ALLOCATION PROPORTIONS TABLE CONTINUED								
AP	94	INTERNALLY DEVELOPED ALLOCATION FACTORS								
AP	95									
AP	96	Plant								
AP	97	Intangible Plant In Service	INTPLT	0.00231	0.00013	0.01027	0.01271	0.00244	0.00026	
AP	98	Production Plant In Service	PRODPLT	0.00053	0.00003	0.00216	0.00272	0.00068	0.00000	
AP	99	Transmission Plant in Service	TRANPLT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	100	Distribution Plant in Service	DISTPLT	0.00298	0.00017	0.01332	0.01647	0.00311	0.00035	
AP	101	General Plant in Service	GENLPLT	0.00083	0.00004	0.00271	0.00359	0.00202	0.00010	
AP	102	Intangible and General Plant in Service	INTGENLPLT	0.00092	0.00004	0.00314	0.00410	0.00205	0.00011	
AP	103	Total Transmission and Distribution Plant	TDPLT	0.00298	0.00017	0.01332	0.01647	0.00311	0.00035	
AP	104	Prod, Trans, and Distr Plant in Service	TDPLT	0.00231	0.00013	0.01027	0.01271	0.00244	0.00026	
AP	105	Total Electric Plant In Service	TOTPLT	0.00204	0.00012	0.00891	0.01106	0.00237	0.00023	
AP	106	Net Electric Plant In Service	NETPLT	0.00178	0.00010	0.00754	0.00942	0.00209	0.00018	
AP	107	Rate Base	RATEBASE	0.00159	0.00008	0.00666	0.00834	0.00109	0.00016	
AP	108									
AP	109									
AP	110									
AP	111									
AP	112									
AP	113									
AP	114									
AP	115	Distribution Plant in Service								
AP	116	Acct 360-Land and Land Rights	PLT_360	0.00044	0.00002	0.00172	0.00218	0.00055	0.00000	
AP	117	Acct 361-Structures & Improvements	PLT_361	0.00044	0.00002	0.00172	0.00218	0.00055	0.00000	
AP	118	Acct 362-Station Equipment	PLT_362	0.00044	0.00002	0.00172	0.00218	0.00055	0.00000	
AP	119	Acct 364-Towers and Fixtures	PLT_364	0.00056	0.00002	0.00188	0.00247	0.00075	0.00000	
AP	120	Acct 365-Overhead Conductors & Devices	PLT_365	0.00056	0.00002	0.00188	0.00247	0.00075	0.00000	
AP	121	Acct 366-Underground Conduit	PLT_366	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	122	Acct 367 - Underground Conductor	PLT_367	0.00056	0.00002	0.00188	0.00247	0.00075	0.00000	
AP	123	Acct 368-Line Transformers	PLT_368	0.00056	0.00002	0.00189	0.00248	0.00075	0.00000	
AP	124	Acct 369-Services	PLT_369	0.00123	0.00016	0.00351	0.00489	0.00000	0.00000	
AP	125	Acct 370-Meters	PLT_370	0.00000	0.00000	0.00000	0.00078	0.00000	0.00000	
AP	126	Acct 371-Inst. on Customer Premises	PLT_371	0.00000	0.00000	0.00000	0.00000	0.87622	1.12378	
AP	127	Acct 373-Street Lighting / Signal Systems	PLT_373	0.17042	0.01001	0.81956	1.00000	0.00000	0.00000	
AP	128	Distribution Overhead Lines Plant Accts 364 & 365	OHDIST	0.00056	0.00002	0.00188	0.00247	0.00075	0.00000	
AP	129	Distribution Underground Lines Plant Accts 366 & 367	UGDIST	0.00056	0.00002	0.00188	0.00247	0.00075	0.00000	
AP	130	Accounts 371&373	PLT_3713	0.14147	0.00831	0.68033	0.83012	0.14886	0.02103	
AP	131									
AP	132	Accts 360-362-Distribution Substation	PLT_SUB	0.00044	0.00002	0.00172	0.00218	0.00055	0.00000	
AP	133	Accts 364 thru 367-Distribution Primary	PLT_DPRI	0.00056	0.00002	0.00188	0.00247	0.00075	0.00000	
AP	134	Accts 364 thru 367-Distribution Secondary	PLT_DSEC	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	135									
AP	136									
AP	137									
AP	138									

COS Without Minimum System			INTEGRATED		TOTAL		TOTAL			
SCH ID	LINE NO	DESCRIPTION	ALLOCATION BASIS	RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	COMMERCIAL SECONDARY	COMMERCIAL PRIMARY	TOTAL TRANSMISSION	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
AP	139	ALLOCATION PROPORTIONS TABLE CONTINUED								
AP	140	<u>INTERNALLY DEVELOPED ALLOCATION FACTORS</u>								
AP	141									
AP	142	Production Expense								
AP	143	O&M Exp Prod Oper Accts 502-509,537-539,548,549	OX_PROD	1.00000	0.54352	0.00339	0.31167	0.02099	0.12043	
AP	144	O&M Exp Prod Maint Accts 511-514,542-545,552-554	MX_PROD	1.00000	0.54352	0.00339	0.31167	0.02099	0.12043	
AP	145	Salaries and Wages Production Operation	SALWAGPO	1.00000	0.54352	0.00339	0.31167	0.02099	0.12043	
AP	146	Salaries and Wages Production Maintenance	SALWAGPM	1.00000	0.54352	0.00339	0.31167	0.02099	0.12043	
AP	147									
AP	148	Transmission Expense								
AP	149	O&M Accounts 561-567	OX_TRAN	1.00000	0.36790	0.00319	0.34370	0.05189	0.23332	
AP	150	O&M Accounts 569-573	MX_TRAN	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	151	Salaries & Wages Accounts 561-567	SALWAGTO	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	152	Salaries & Wages Accounts 569-573	SALWAGTM	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	153									
AP	154	Regional Market Expns								
AP	155	O&M Accounts 575	OX_RM	1.00000	0.31662	0.00274	0.29579	0.04641	0.33844	
AP	156									
AP	157	Distribution Expense								
AP	158	Acct 580-Supervision	OX_580	1.00000	0.62096	0.01180	0.28554	0.00505	0.07665	
AP	159	Acct 581-Load Dispatch	OX_581	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	160	Acct 582-Station Equipment	OX_582	1.00000	0.47447	0.00273	0.33108	0.00700	0.18472	
AP	161	Acct 583-Overhead Lines	OX_583	1.00000	0.66150	0.00322	0.33109	0.00419	0.00000	
AP	162	Acct 584-Underground Lines	OX_584	1.00000	0.66100	0.00322	0.33085	0.00493	0.00000	
AP	163	Acct 585-Street Lighting	OX_585	1.00000	0.00000	1.00000	0.00000	0.00000	0.00000	
AP	164	Acct 586-Metering	OX_586	1.00000	0.77032	0.00078	0.20828	0.00466	0.01596	
AP	165	Acct 587-Customer Installations	OX_587	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	166	Acct 588-Miscellaneous	OX_588	1.00000	0.63382	0.01993	0.30373	0.00385	0.03867	
AP	167	Acct 589-Rents	OX_589	1.00000	0.63382	0.01993	0.30373	0.00385	0.03867	
AP	168	Acct 590-Supervision	MX_590	1.00000	0.62744	0.00336	0.33101	0.00461	0.03358	
AP	169	Acct 592-Station Equipment	MX_592	1.00000	0.47447	0.00273	0.33108	0.00700	0.18472	
AP	170	Acct 593-Overhead Lines	MX_593	1.00000	0.66150	0.00322	0.33109	0.00419	0.00000	
AP	171	Acct 594-Underground Lines	MX_594	1.00000	0.66100	0.00322	0.33085	0.00493	0.00000	
AP	172	Acct 595-Transformers	MX_595	1.00000	0.66428	0.00324	0.33249	0.00000	0.00000	
AP	173	Acct 596-Street Lighting	MX_596	1.00000	0.00000	1.00000	0.00000	0.00000	0.00000	
AP	174	Acct 597-Metering	MX_597	1.00000	0.77032	0.00078	0.20828	0.00466	0.01596	
AP	175	Acct 598-Miscellaneous	MX_598	1.00000	0.63382	0.01993	0.30373	0.00385	0.03867	
AP	176	O&M Accounts 581-589	OX_DIST	1.00000	0.62096	0.01180	0.28554	0.00505	0.07665	
AP	177	O&M Accounts 591-598	MX_DIST	1.00000	0.62744	0.00336	0.33101	0.00461	0.03358	
AP	178	Salaries & Wages Accounts 581-589	SALWAGDO	1.00000	0.62096	0.01180	0.28554	0.00505	0.07665	
AP	179	Salaries & Wages Accounts 591-598	SALWAGDM	1.00000	0.62744	0.00336	0.33101	0.00461	0.03358	
AP	180									
AP	181									
AP	182									
AP	183									
AP	184									

COS Without Minimum System			S	S	S	S	S	S	S				
SCH ID	LINE NO.	DESCRIPTION	Allocation Basis	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1	General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1			
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
AP	139	ALLOCATION PROPORTIONS TABLE CONTINUED											
AP	140	INTERNALLY DEVELOPED ALLOCATION FACTORS											
AP	141												
AP	142	Production Expense											
AP	143	O&M Exp Prod Oper Accts 502-509,537-539,548,549	OX_PROD		0.49491	0.00000	0.04861		0.13800	0.00000	0.01264	0.12657	
AP	144	O&M Exp Prod Maint Accts 511-514,542-545,552-554	MX_PROD		0.49491	0.00000	0.04861		0.13800	0.00000	0.01264	0.12657	
AP	145	Salaries and Wages Production Operation	SALWAGPO		0.49491	0.00000	0.04861		0.13800	0.00000	0.01264	0.12657	
AP	146	Salaries and Wages Production Maintenance	SALWAGPM		0.49491	0.00000	0.04861		0.13800	0.00000	0.01264	0.12657	
AP	147												
AP	148	Transmission Expense											
AP	149	O&M Accounts 561-567	OX_TRAN		0.33507	0.00000	0.03283		0.09123	0.00000	0.00913	0.11601	
AP	150	O&M Accounts 569-573	MX_TRAN		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	151	Salaries & Wages Accounts 561-567	SALWAGTO		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	152	Salaries & Wages Accounts 569-573	SALWAGTM		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	153												
AP	154	Regional Market Expens											
AP	155	O&M Accounts 575	OX_RM		0.28837	0.00000	0.02825		0.07852	0.00000	0.00786	0.09984	
AP	156												
AP	157	Distribution Expense											
AP	158	Acct 580-Supervision	OX_580		0.57077	0.00000	0.05020		0.14481	0.00000	0.01165	0.07311	
AP	159	Acct 581-Load Dispatch	OX_581		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	160	Acct 582-Station Equipment	OX_582		0.43202	0.00000	0.04245		0.12104	0.00000	0.01089	0.10252	
AP	161	Acct 583-Overhead Lines	OX_583		0.58726	0.00000	0.07424		0.20025	0.00000	0.01847	0.05615	
AP	162	Acct 584-Underground Lines	OX_584		0.58682	0.00000	0.07418		0.20010	0.00000	0.01845	0.05610	
AP	163	Acct 585-Street Lighting	OX_585		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	164	Acct 586-Metering	OX_586		0.73102	0.00000	0.03930		0.13297	0.00000	0.00748	0.05820	
AP	165	Acct 587-Customer Installations	OX_587		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	166	Acct 588-Miscellaneous	OX_588		0.57071	0.00000	0.06311		0.17007	0.00000	0.01493	0.06180	
AP	167	Acct 589-Rents	OX_589		0.57071	0.00000	0.06311		0.17007	0.00000	0.01493	0.06180	
AP	168	Acct 590-Supervision	MX_590		0.55900	0.00000	0.06844		0.18581	0.00000	0.01708	0.06457	
AP	169	Acct 592-Station Equipment	MX_592		0.43202	0.00000	0.04245		0.12104	0.00000	0.01089	0.10252	
AP	170	Acct 593-Overhead Lines	MX_593		0.58726	0.00000	0.07424		0.20025	0.00000	0.01847	0.05615	
AP	171	Acct 594-Underground Lines	MX_594		0.58682	0.00000	0.07418		0.20010	0.00000	0.01845	0.05610	
AP	172	Acct 595-Transformers	MX_595		0.58973	0.00000	0.07455		0.20109	0.00000	0.01855	0.05638	
AP	173	Acct 596-Street Lighting	MX_596		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	174	Acct 597-Metering	MX_597		0.73102	0.00000	0.03930		0.13297	0.00000	0.00748	0.05820	
AP	175	Acct 598-Miscellaneous	MX_598		0.57071	0.00000	0.06311		0.17007	0.00000	0.01493	0.06180	
AP	176	O&M Accounts 581-589	OX_DIST		0.57077	0.00000	0.05020		0.14481	0.00000	0.01165	0.07311	
AP	177	O&M Accounts 591-598	MX_DIST		0.55900	0.00000	0.06844		0.18581	0.00000	0.01708	0.06457	
AP	178	Salaries & Wages Accounts 581-589	SALWAGDO		0.57077	0.00000	0.05020		0.14481	0.00000	0.01165	0.07311	
AP	179	Salaries & Wages Accounts 591-598	SALWAGDM		0.55900	0.00000	0.06844		0.18581	0.00000	0.01708	0.06457	
AP	180												
AP	181												
AP	182												
AP	183												
AP	184												

COS Without Minimum System			Large Comm & Ind		S	P	Q	T	Q
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Market Pricing RTMP	Light & Power WP-3
	(a)		(b)	(t)	(u)	(v)	(w)	(x)	(y)
									(z)
AP	139	ALLOCATION PROPORTIONS TABLE CONTINUED							
AP	140	<u>INTERNALLY DEVELOPED ALLOCATION FACTORS</u>							
AP	141								
AP	142	Production Expense							
AP	143	O&M Exp Prod Oper Accts 502-509,537-539,548,549	OX_PROD	0.14146	0.03446	0.02099	0.08602	0.00000	0.03441
AP	144	O&M Exp Prod Maint Accts 511-514,542-545,552-554	MX_PROD	0.14146	0.03446	0.02099	0.08602	0.00000	0.03441
AP	145	Salaries and Wages Production Operation	SALWAGPO	0.14146	0.03446	0.02099	0.08602	0.00000	0.03441
AP	146	Salaries and Wages Production Maintenance	SALWAGPM	0.14146	0.03446	0.02099	0.08602	0.00000	0.03441
AP	147								
AP	148	Transmission Expense							
AP	149	O&M Accounts 561-567	OX_TRAN	0.27491	0.12733	0.05189	0.09569	0.00000	0.13763
AP	150	O&M Accounts 569-573	MX_TRAN	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	151	Salaries & Wages Accounts 561-567	SALWAGTO	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	152	Salaries & Wages Accounts 569-573	SALWAGTM	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	153								
AP	154	Regional Market Expens							
AP	155	O&M Accounts 575	OX_RM	0.24268	0.10958	0.04641	0.08669	0.12707	0.12468
AP	156								
AP	157	Distribution Expense							
AP	158	Acct 580-Supervision	OX_580	0.11051	0.05597	0.00505	0.04950	0.00050	0.02666
AP	159	Acct 581-Load Dispatch	OX_581	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	160	Acct 582-Station Equipment	OX_582	0.22562	0.09663	0.00700	0.12199	0.00000	0.06273
AP	161	Acct 583-Overhead Lines	OX_583	0.06042	0.05623	0.00419	0.00000	0.00000	0.00000
AP	162	Acct 584-Underground Lines	OX_584	0.06112	0.05619	0.00493	0.00000	0.00000	0.00000
AP	163	Acct 585-Street Lighting	OX_585	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	164	Acct 586-Metering	OX_586	0.02102	0.00963	0.00466	0.00673	0.00169	0.00753
AP	165	Acct 587-Customer Installations	OX_587	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	166	Acct 588-Miscellaneous	OX_588	0.08612	0.05692	0.00385	0.02534	0.00009	0.01324
AP	167	Acct 589-Rents	OX_589	0.08612	0.05692	0.00385	0.02534	0.00009	0.01324
AP	168	Acct 590-Supervision	MX_590	0.09034	0.06356	0.00461	0.02217	0.00000	0.01140
AP	169	Acct 592-Station Equipment	MX_592	0.22562	0.09663	0.00700	0.12199	0.00000	0.06273
AP	170	Acct 593-Overhead Lines	MX_593	0.06042	0.05623	0.00419	0.00000	0.00000	0.00000
AP	171	Acct 594-Underground Lines	MX_594	0.06112	0.05619	0.00493	0.00000	0.00000	0.00000
AP	172	Acct 595-Transformers	MX_595	0.05647	0.05647	0.00000	0.00000	0.00000	0.00000
AP	173	Acct 596-Street Lighting	MX_596	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	174	Acct 597-Metering	MX_597	0.02102	0.00963	0.00466	0.00673	0.00169	0.00753
AP	175	Acct 598-Miscellaneous	MX_598	0.08612	0.05692	0.00385	0.02534	0.00009	0.01324
AP	176	O&M Accounts 581-589	OX_DIST	0.11051	0.05597	0.00505	0.04950	0.00050	0.02666
AP	177	O&M Accounts 591-598	MX_DIST	0.09034	0.06356	0.00461	0.02217	0.00000	0.01140
AP	178	Salaries & Wages Accounts 581-589	SALWAGDO	0.11051	0.05597	0.00505	0.04950	0.00050	0.02

COS Without Minimum System			S	S	S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
	(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)
AP	139	ALLOCATION PROPORTIONS TABLE CONTINUED							
AP	140	INTERNALLY DEVELOPED ALLOCATION FACTORS							
AP	141								
AP	142	Production Expense							
AP	143	O&M Exp Prod Oper Accts 502-509,537-539,548,549	OX_PROD	0.00053	0.00003	0.00216	0.00272	0.00068	0.00000
AP	144	O&M Exp Prod Maint Accts 511-514,542-545,552-554	MX_PROD	0.00053	0.00003	0.00216	0.00272	0.00068	0.00000
AP	145	Salaries and Wages Production Operation	SALWAGPO	0.00053	0.00003	0.00216	0.00272	0.00068	0.00000
AP	146	Salaries and Wages Production Maintenance	SALWAGPM	0.00053	0.00003	0.00216	0.00272	0.00068	0.00000
AP	147								
AP	148	Transmission Expense							
AP	149	O&M Accounts 561-567	OX_TRAN	0.00044	0.00003	0.00210	0.00256	0.00062	0.00000
AP	150	O&M Accounts 569-573	MX_TRAN	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	151	Salaries & Wages Accounts 561-567	SALWAGTO	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	152	Salaries & Wages Accounts 569-573	SALWAGTM	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	153								
AP	154	Regional Market Expens							
AP	155	O&M Accounts 575	OX_RM	0.00038	0.00002	0.00181	0.00221	0.00054	0.00000
AP	156								
AP	157	Distribution Expense							
AP	158	Acct 580-Supervision	OX_580	0.00152	0.00008	0.00576	0.00736	0.00394	0.00050
AP	159	Acct 581-Load Dispatch	OX_581	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	160	Acct 582-Station Equipment	OX_582	0.00044	0.00002	0.00172	0.00218	0.00055	0.00000
AP	161	Acct 583-Overhead Lines	OX_583	0.00056	0.00002	0.00188	0.00247	0.00075	0.00000
AP	162	Acct 584-Underground Lines	OX_584	0.00056	0.00002	0.00188	0.00247	0.00075	0.00000
AP	163	Acct 585-Street Lighting	OX_585	0.17042	0.01001	0.81956	1.00000	0.00000	0.00000
AP	164	Acct 586-Metering	OX_586	0.00078	0.00000	0.00000	0.00078	0.00000	0.00000
AP	165	Acct 587-Customer Installations	OX_587	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	166	Acct 588-Miscellaneous	OX_588	0.00298	0.00017	0.01332	0.01647	0.00311	0.00035
AP	167	Acct 589-Rents	OX_589	0.00298	0.00017	0.01332	0.01647	0.00311	0.00035
AP	168	Acct 590-Supervision	MX_590	0.00058	0.00003	0.00204	0.00264	0.00071	0.00000
AP	169	Acct 592-Station Equipment	MX_592	0.00044	0.00002	0.00172	0.00218	0.00055	0.00000
AP	170	Acct 593-Overhead Lines	MX_593	0.00056	0.00002	0.00188	0.00247	0.00075	0.00000
AP	171	Acct 594-Underground Lines	MX_594	0.00056	0.00002	0.00188	0.00247	0.00075	0.00000
AP	172	Acct 595-Transformers	MX_595	0.00056	0.00002	0.00189	0.00248	0.00075	0.00000
AP	173	Acct 596-Street Lighting	MX_596	0.17042	0.01001	0.81956	1.00000	0.00000	0.00000
AP	174	Acct 597-Metering	MX_597	0.00078	0.00000	0.00000	0.00078	0.00000	0.00000
AP	175	Acct 598-Miscellaneous	MX_598	0.00298	0.00017	0.01332	0.01647	0.00311	0.00035
AP	176	O&M Accounts 581-589	OX_DIST	0.00202	0.00010	0.00814	0.01026	0.00140	0.00014
AP	177	O&M Accounts 591-598	MX_DIST	0.00058	0.00003	0.00204	0.00264	0.00071	0.00000
AP	178	Salaries & Wages Accounts 581-589	SALWAGDO	0.00152	0.00008	0.00576	0.00736	0.00394	0.00050
AP	179	Salaries & Wages Accounts 591-598	SALWAGDM	0.00058	0.00003	0.00204	0.00264	0.00071	0.00000
AP	180								
AP	181								
AP	182								
AP	183								
AP	184								

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH	LINE	COS Without Minimum System	ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
ID	NO.	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
		(i)							
AP	185	ALLOCATION PROPORTIONS TABLE CONTINUED							
AP	186	<u>INTERNALLY DEVELOPED ALLOCATION FACTORS</u>							
AP	187								
AP	188	Customer Accounting Expense							
AP	189	Account 902 OX_902		1.00000	0.88758	0.00130	0.11075	0.00013	0.00024
AP	190	Account 903 OX_903		1.00000	0.88780	0.00130	0.11077	0.00013	0.00000
AP	191	Account 904 OX_904		1.00000	0.90116	0.01013	0.07863	0.00352	0.00657
AP	192	Accounts 902 & 903 OX_902_3		1.00000	0.88776	0.00130	0.11077	0.00013	0.00004
AP	193	O&M Accounts 902-905 OX_CA		1.00000	0.89007	0.00282	0.10522	0.00071	0.00117
AP	194	Salaries & Wages Accounts 902-905 SALWAGCA		1.00000	0.88776	0.00130	0.11077	0.00013	0.00004
AP	195								
AP	196	Customer Service Expense							
AP	197	Account908 OX_908		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	198	Account909 OX_909		1.00000	0.61178	0.01725	0.22313	0.02665	0.12119
AP	199	Account910 OX_910		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	200	O&M Accounts 908-910 OX_CS		1.00000	0.61178	0.01725	0.22313	0.02665	0.12119
AP	201	Salaries & Wages Accounts 908-910 SALWAGCS		1.00000	0.61178	0.01725	0.22313	0.02665	0.12119
AP	202								
AP	203	Total Customer Operations Expense OMXCUST		1.00000	0.78107	0.00824	0.15204	0.01076	0.04788
AP	204								
AP	205	Salaries & Wages Excluding Admin & Gen exp SALWAGXAG		1.00000	0.63266	0.00571	0.29671	0.00782	0.05710
AP	206	Total Salaries and Wages Expense SALWAGES		1.00000	0.63266	0.00571	0.29671	0.00782	0.05710
AP	207								
AP	208	Total O&M less Fuel and Purchased Power & Acct 904 OMXFPP		1.00000	0.59994	0.00529	0.30386	0.00800	0.08290
AP	209								
AP	210								
AP	211								
AP	212								
AP	213								
AP	214								
AP	215								
AP	216								
AP	217								
AP	218								
AP	219								
AP	220								
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AP	222								
AP	223								
AP	224								
AP	225								
AP	226								
AP	227								
AP	228								
AP	229								
AP	230								

COS Without Minimum System			S	S	S	S	S	S	S				
SCH ID	LINE NO.	DESCRIPTION	Allocation Basis	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1		
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
AP	185	ALLOCATION PROPORTIONS TABLE CONTINUED											
AP	186	INTERNALLY DEVELOPED ALLOCATION FACTORS											
AP	187												
AP	188	Customer Accounting Expense											
AP	189	Account 902	OX_902		0.83674	0.00000	0.05084		0.09635	0.00000	0.00373	0.00980	
AP	190	Account 903	OX_903		0.83694	0.00000	0.05086		0.09638	0.00000	0.00373	0.00980	
AP	191	Account 904	OX_904		0.81595	0.00000	0.08521		0.06221	0.00000	0.00301	0.00511	
AP	192	Accounts 902 & 903	OX_902_3		0.83691	0.00000	0.05085		0.09637	0.00000	0.00373	0.00980	
AP	193	O&M Accounts 902-905	OX_CA		0.83329	0.00000	0.05679		0.09047	0.00000	0.00360	0.00899	
AP	194	Salaries & Wages Accounts 902-905	SALWAGCA		0.83691	0.00000	0.05085		0.09637	0.00000	0.00373	0.00980	
AP	195												
AP	196	Customer Service Expense											
AP	197	Account908	OX_908		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	198	Account909	OX_909		0.57095	0.00000	0.04084		0.09170	0.00000	0.00631	0.06194	
AP	199	Account910	OX_910		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	200	O&M Accounts 908-910	OX_CS		0.57095	0.00000	0.04084		0.09170	0.00000	0.00631	0.06194	
AP	201	Salaries & Wages Accounts 908-910	SALWAGCS		0.57095	0.00000	0.04084		0.09170	0.00000	0.00631	0.06194	
AP	202												
AP	203	Total Customer Operations Expense	OMXCUST		0.73134	0.00000	0.04973		0.09178	0.00000	0.00468	0.02978	
AP	204												
AP	205	Salaries & Wages Excluding Admin & Gen exp	SALWAGXAG		0.57349	0.00000	0.05917		0.15902	0.00000	0.01378	0.07003	
AP	206	Total Salaries and Wages Expense	SALWAGES		0.57349	0.00000	0.05917		0.15902	0.00000	0.01378	0.07003	
AP	207												
AP	208	Total O&M less Fuel and Purchased Power & Acct 904	OMXFPP		0.54417	0.00000	0.05578		0.15126	0.00000	0.01319	0.07654	
AP	209												
AP	210												
AP	211												
AP	212												
AP	213												
AP	214												
AP	215												
AP	216												
AP	217												
AP	218												
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AP	223												
AP	224												
AP	225												
AP	226												
AP	227												
AP	228												
AP	229												
AP	230												

COS Without Minimum System			S	S	S	S	S	S		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4	
	(a)	(b)		(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)
AP	185	ALLOCATION PROPORTIONS TABLE CONTINUED								
AP	186	INTERNALLY DEVELOPED ALLOCATION FACTORS								
AP	187									
AP	188	Customer Accounting Expense								
AP	189	Account 902	OX_902	0.00130	0.00000	0.00000	0.00130	0.00000	0.00000	
AP	190	Account 903	OX_903	0.00130	0.00000	0.00000	0.00130	0.00000	0.00000	
AP	191	Account 904	OX_904	0.00000	0.00000	0.00000	0.00000	0.01013	0.00000	
AP	192	Accounts 902 & 903	OX_902_3	0.00130	0.00000	0.00000	0.00130	0.00000	0.00000	
AP	193	O&M Accounts 902-905	OX_CA	0.00107	0.00000	0.00000	0.00107	0.00175	0.00000	
AP	194	Salaries & Wages Accounts 902-905	SALWAGCA	0.00130	0.00000	0.00000	0.00130	0.00000	0.00000	
AP	195									
AP	196	Customer Service Expense								
AP	197	Account908	OX_908	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	198	Account909	OX_909	0.00084	0.00009	0.00283	0.00377	0.01348	0.00000	
AP	199	Account910	OX_910	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	200	O&M Accounts 908-910	OX_CS	0.00084	0.00009	0.00283	0.00377	0.01348	0.00000	
AP	201	Salaries & Wages Accounts 908-910	SALWAGCS	0.00084	0.00009	0.00283	0.00377	0.01348	0.00000	
AP	202									
AP	203	Total Customer Operations Expense	OMXCUST	0.00101	0.00004	0.00111	0.00216	0.00609	0.00000	
AP	204									
AP	205	Salaries & Wages Excluding Admin & Gen exp	SALWAGXAG	0.00083	0.00004	0.00271	0.00359	0.00202	0.00010	
AP	206	Total Salaries and Wages Expense	SALWAGES	0.00083	0.00004	0.00271	0.00359	0.00202	0.00010	
AP	207									
AP	208	Total O&M less Fuel and Purchased Power & Acct 904	OMXFPP	0.00082	0.00004	0.00281	0.00367	0.00156	0.00006	
AP	209									
AP	210									
AP	211									
AP	212									
AP	213									
AP	214									
AP	215									
AP	216									
AP	217									
AP	218									
AP	219									
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AP	221									
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AP	224									
AP	225									
AP	226									
AP	227									
AP	228									
AP	229									
AP	230									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
									(i)
		COS Without Minimum System							
		REVENUES AND BILLING DETERMINANTS							
AP	231								
AP	232								
AP	233	Sales of Electricity Revenue - Present	SALESREV	1.00000	0.55498	0.00695	0.32389	0.00730	0.10687
AP	234	Present Rate Sales Revenue	CLAIMREV	1.00000	0.56591	0.00699	0.31379	0.01534	0.09798
AP	235								
AP	236								
AP	237	Residential A-1 Sales Revenue	SREVRA1	1.00000	1.00000	0.00000	0.00000	0.00000	0.00000
AP	238	Residential A-2 Sales Revenue	SREVRA2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	239	Residential AH-1 Sales Revenue	SREVRAH1	1.00000	1.00000	0.00000	0.00000	0.00000	0.00000
AP	240	General Service C1 Sales Revenue	SREVGSC1	1.00000	0.00000	0.00000	1.00000	0.00000	0.00000
AP	241	General Service C2 Sales Revenue	SREVGSC2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	242	Commercial Heating H-1 Sales Revenue	SREVCH1	1.00000	0.00000	0.00000	1.00000	0.00000	0.00000
AP	243	Light and Power P-1 Sales Revenue	SREVLPP1	1.00000	0.00000	0.00000	1.00000	0.00000	0.00000
AP	244	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCSIC	1.00000	0.00000	0.00000	1.00000	0.00000	0.00000
AP	245	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCPRI	1.00000	0.00000	0.00000	0.00000	1.00000	0.00000
AP	246	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCTRAN	1.00000	0.00000	0.00000	0.00000	0.00000	1.00000
AP	247	Real Time Market Pricing Sales Revenue	SREVRTMP	1.00000	0.00000	0.00000	0.00000	0.00000	1.00000
AP	248	Light and Power WP-3 Sales Revenue	SREVLPPW3	1.00000	0.00000	0.00000	0.00000	0.00000	1.00000
AP	249	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	1.00000	0.00000	1.00000	0.00000	0.00000	0.00000
AP	250	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	1.00000	0.00000	1.00000	0.00000	0.00000	0.00000
AP	251	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	1.00000	0.00000	1.00000	0.00000	0.00000	0.00000
AP	252	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3	1.00000	0.00000	1.00000	0.00000	0.00000	0.00000
AP	253	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4	1.00000	0.00000	1.00000	0.00000	0.00000	0.00000
AP	254	Total Rate Base					0.00000		
AP	255								
AP	256								
AP	257	PRESENT REVENUES FROM SALES INPUT							
AP	258								
AP	259	Total Sales of Electricity Revenues		1.00000	0.55498	0.00695	0.32389	0.00730	0.10687
AP	260	Sales of Electricity Revenues Excl Cost of Gas (Present)		1.00000	0.55498	0.00695	0.32389	0.00730	0.10687
AP	261								
AP	262								
AP	263								
AP	264								
AP	265								
AP	266								
AP	267								
AP	268								
AP	269								
AP	270								
AP	271								
AP	272								
AP	273								
AP	274								
AP	276								

COS Without Minimum System			S	S	S	S	S	S	S			
SCH ID	LINE NO.	DESCRIPTION	Allocation Basis	Integrated Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
	(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
AP	231	REVENUES AND BILLING DETERMINANTS										
AP	232											
AP	233	Sales of Electricity Revenue - Present	SALESREV	0.51486	0.00000	0.04012		0.14466	0.00000	0.01027	0.11745	
AP	234	Present Rate Sales Revenue	CLAIMREV	0.51232	0.00000	0.05360		0.14440	0.00000	0.01305	0.08526	
AP	235											
AP	236											
AP	237	Residential A-1 Sales Revenue	SREVRA1	1.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	238	Residential A-2 Sales Revenue	SREVRA2	0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	239	Residential AH-1 Sales Revenue	SREVRAH1	0.00000	0.00000	1.00000		0.00000	0.00000	0.00000	0.00000	
AP	240	General Service C1 Sales Revenue	SREVGSC1	0.00000	0.00000	0.00000		1.00000	0.00000	0.00000	0.00000	
AP	241	General Service C2 Sales Revenue	SREVGSC2	0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	242	Commercial Heating H-1 Sales Revenue	SREVCH1	0.00000	0.00000	0.00000		0.00000	0.00000	1.00000	0.00000	
AP	243	Light and Power P-1 Sales Revenue	SREVLPP1	0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	1.00000	
AP	244	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCISEC	0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	245	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCIPRI	0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	246	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCITRAN	0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	247	Real Time Market Pricing Sales Revenue	SREVRTMP	0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	248	Light and Power WP-3 Sales Revenue	SREVLPPWP3	0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	249	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	250	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	251	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	252	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3	0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	253	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4	0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000	
AP	254	Total Rate Base										
AP	255											
AP	256											
AP	257	PRESENT REVENUES FROM SALES INPUT										
AP	258											
AP	259	Total Sales of Electricity Revenues		0.51486	0.00000	0.04012		0.14466	0.00000	0.01027	0.11745	
AP	260	Sales of Electricity Revenues Excl Cost of Gas (Present)		0.51486	0.00000	0.04012		0.14466	0.00000	0.01027	0.11745	
AP	261											
AP	262											
AP	263											
AP	264											
AP	265											
AP	266											
AP	267											
AP	268											
AP	269											
AP	269											
AP	270											
AP	271											
AP	272											
AP	273											
AP	274											
AP	276											

COS Without Minimum System			S	S	S	S	S	S	
SCH ID	LINE NO.		Allocation Basis	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
	(a)		(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)
									(ag)
AP	231	REVENUES AND BILLING DETERMINANTS							
AP	232								
AP	233	Sales of Electricity Revenue - Present	SALESREV	0.00058	0.00008	0.00488	0.00554	0.00141	0.00000
AP	234	Present Rate Sales Revenue	CLAIMREV	0.00109	0.00006	0.00439	0.00553	0.00136	0.00009
AP	235								
AP	236								
AP	237	Residential A-1 Sales Revenue	SREVRA1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	238	Residential A-2 Sales Revenue	SREVRA2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	239	Residential AH-1 Sales Revenue	SREVRAH1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	240	General Service C1 Sales Revenue	SREVGSC1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	241	General Service C2 Sales Revenue	SREVGSC2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	242	Commercial Heating H-1 Sales Revenue	SREVCH1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	243	Light and Power P-1 Sales Revenue	SREVLPP1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	244	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCS1EC	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	245	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCP1RI	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	246	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCT1RAN	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	247	Real Time Market Pricing Sales Revenue	SREVRTMP	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	248	Light and Power WP-3 Sales Revenue	SREVLPPW3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	249	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	1.00000	0.00000	0.00000	1.00000	0.00000	0.00000
AP	250	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	0.00000	1.00000	0.00000	1.00000	0.00000	0.00000
AP	251	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	0.00000	0.00000	1.00000	1.00000	0.00000	0.00000
AP	252	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
AP	253	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000
AP	254	Total Rate Base							
AP	255								
AP	256								
AP	257	PRESENT REVENUES FROM SALES INPUT							
AP	258								
AP	259	Total Sales of Electricity Revenues		0.00058	0.00008	0.00488	0.00554	0.00141	0.00000
AP	260	Sales of Electricity Revenues Excl Cost of Gas (Present)		0.00058	0.00008	0.00488	0.00554	0.00141	0.00000
AP	261								
AP	262								
AP	263								
AP	264								
AP	265								
AP	266								
AP	267								
AP	268								
AP	269								
AP	269								
AP	270								
AP	271								
AP	272								
AP	273								
AP	274								
AP	276								

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH	LINE	COS Without Minimum System	ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
ID	NO.	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
									(i)
ADA	1	ALLOCATED DIRECT ASSIGNMENTS							
ADA	2	DIRECT ASSIGN TO CLASSES W/SALES REV FUNCTIONS							
ADA	3								
ADA	4	904 Uncollectible Accounts (Write-Offs)							
ADA	5								
ADA	6	Residential A-1 Sales Revenue	SREVRA1	266,563	266,563	0	0	0	0
ADA	7	Residential A-2 Sales Revenue	SREVRA2	0	0	0	0	0	0
ADA	8	Residential AH-1 Sales Revenue	SREVRAH1	27,838	27,838	0	0	0	0
ADA	9	General Service C1 Sales Revenue	SREVGSC1	20,325	0	0	20,325	0	0
ADA	10	General Service C1 Sales Revenue	SREVGSC2	0	0	0	0	0	0
ADA	11	Commercial Heating H-1 Sales Revenue	SREVCH1	982	0	0	982	0	0
ADA	12	Light and Power P-1 Sales Revenue	SREVLPP1	1,671	0	0	1,671	0	0
ADA	13	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCPSEC	2,711	0	0	2,711	0	0
ADA	14	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCPRI	1,148	0	0	0	1,148	0
ADA	15	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCPTRAN	2,145	0	0	0	0	2,145
ADA	16	Real Time Market Pricing Sales Revenue	SREVRTMP	0	0	0	0	0	0
ADA	17	Light and Power WP-3 Sales Revenue	SREVLPPW3	0	0	0	0	0	0
ADA	18	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	0	0	0	0	0	0
ADA	19	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	0	0	0	0	0	0
ADA	20	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	0	0	0	0	0	0
ADA	21	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3	3,308	0	3,308	0	0	0
ADA	22	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4	0	0	0	0	0	0
ADA	23								
ADA	24	Total Account 904	EXP_904	326,692	294,401	3,308	25,689	1,148	2,145
ADA	25								
ADA	26	Total Account 904	EXP_904	1.00000	0.90116	0.01013	0.07863	0.00352	0.00657
ADA	27								
ADA	28								
ADA	29								
ADA	30								
ADA	31								
ADA	32								
ADA	33								
ADA	34								
ADA	35								
ADA	36								
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ADA	46								

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Upper Peninsula Power Company
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RETAIL SYSTEM

COS Without Minimum System				Large Comm & Ind	S	P	Q	T	Q
SCH	LINE	DESCRIPTION	ALLOCATION	CP-U	Secondary	Primary	Transmission	Real-Time	> 5,000kW
ID	NO.		BASIS	Total	CP-U Sec	CP-U Prim	CP-U Trans	Market Pricing	Light & Power
		(a)	(b)	(t)	(u)	(v)	(w)	(x)	(y)
								RTMP	WP-3
									(z)
ADA	1	ALLOCATED DIRECT ASSIGNMENTS							
ADA	2	DIRECT ASSIGN TO CLASSES W/SALES REV FUNCTIONS							
ADA	3								
ADA	4	904 Uncollectible Accounts (Write-Offs)							
ADA	5								
ADA	6	Residential A-1 Sales Revenue	SREVRA1	0	0	0	0	0	0
ADA	7	Residential A-2 Sales Revenue	SREVRA2	0	0	0	0	0	0
ADA	8	Residential AH-1 Sales Revenue	SREVRAH1	0	0	0	0	0	0
ADA	9	General Service C1 Sales Revenue	SREVGSC1	0	0	0	0	0	0
ADA	10	General Service C1 Sales Revenue	SREVGSC2	0	0	0	0	0	0
ADA	11	Commercial Heating H-1 Sales Revenue	SREVCH1	0	0	0	0	0	0
ADA	12	Light and Power P-1 Sales Revenue	SREVLPP1	0	0	0	0	0	0
ADA	13	Large Commercial & Indust CP-U Sec Sales Rev	SREVLICSEC	2,711	2,711	0	0	0	0
ADA	14	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCPRI	1,148	0	1,148	0	0	0
ADA	15	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCTRAN	2,145	0	0	2,145	0	0
ADA	16	Real Time Market Pricing Sales Revenue	SREVRTMP	0	0	0	0	0	0
ADA	17	Light and Power WP-3 Sales Revenue	SREVLPPWP3	0	0	0	0	0	0
ADA	18	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	0	0	0	0	0	0
ADA	19	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	0	0	0	0	0	0
ADA	20	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	0	0	0	0	0	0
ADA	21	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3	0	0	0	0	0	0
ADA	22	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4	0	0	0	0	0	0
ADA	23								
ADA	24	Total Account 904	EXP_904	6,005	2,711	1,148	2,145	0	0
ADA	25								
ADA	26	Total Account 904	EXP_904	0.01838	0.00830	0.00352	0.00657	0.00000	0.00000
ADA	27								
ADA	28								
ADA	29								
ADA	30								
ADA	31								
ADA	32								
ADA	33								
ADA	34								
ADA	35								
ADA	36								
ADA	37								
ADA	38								
ADA	39								
ADA	40								
ADA	41								
ADA	42								
ADA	43								
ADA	44								
ADA	45								
ADA	46								

COS Without Minimum System			S	S	S	S	S	S		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4	
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)
ADA	1	ALLOCATED DIRECT ASSIGNMENTS								
ADA	2	DIRECT ASSIGN TO CLASSES W/SALES REV FUNCTIONS								
ADA	3									
ADA	4	904 Uncollectible Accounts (Write-Offs)								
ADA	5									
ADA	6	Residential A-1 Sales Revenue	SREVRA1	0	0	0	0	0	0	
ADA	7	Residential A-2 Sales Revenue	SREVRA2	0	0	0	0	0	0	
ADA	8	Residential AH-1 Sales Revenue	SREVRAH1	0	0	0	0	0	0	
ADA	9	General Service C1 Sales Revenue	SREVGSC1	0	0	0	0	0	0	
ADA	10	General Service C1 Sales Revenue	SREVGSC2	0	0	0	0	0	0	
ADA	11	Commercial Heating H-1 Sales Revenue	SREVCH1	0	0	0	0	0	0	
ADA	12	Light and Power P-1 Sales Revenue	SREVLPP1	0	0	0	0	0	0	
ADA	13	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCISEC	0	0	0	0	0	0	
ADA	14	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCPRI	0	0	0	0	0	0	
ADA	15	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCITRAN	0	0	0	0	0	0	
ADA	16	Real Time Market Pricing Sales Revenue	SREVRTMP	0	0	0	0	0	0	
ADA	17	Light and Power WP-3 Sales Revenue	SREVLPPW3	0	0	0	0	0	0	
ADA	18	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	0	0	0	0	0	0	
ADA	19	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	0	0	0	0	0	0	
ADA	20	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	0	0	0	0	0	0	
ADA	21	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3	0	0	0	0	3,308	0	
ADA	22	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4	0	0	0	0	0	0	
ADA	23									
ADA	24	Total Account 904	EXP_904	0	0	0	0	3,308	0	
ADA	25									
ADA	26	Total Account 904	EXP_904	0.00000	0.00000	0.00000	0.00000	0.01013	0.00000	
ADA	27									
ADA	28									
ADA	29									
ADA	30									
ADA	31									
ADA	32									
ADA	33									
ADA	34									
ADA	35									
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ADA	45									
ADA	46									

Upper Peninsula Power Company
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RETAIL SYSTEM

SCH	LINE	COS Without Minimum System	ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
ID	NO.	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
									(i)
ADA	1	ALLOCATED DIRECT ASSIGNMENTS							
ADA	2	DIRECT ASSIGN TO CLASSES W/SALES REV FUNCTIONS							
ADA	3								
ADA	4	AVAILABLE							
ADA	5								
ADA	6	Residential A-1 Sales Revenue	SREVRA1	0	0	0	0	0	0
ADA	7	Residential A-2 Sales Revenue	SREVRA2	0	0	0	0	0	0
ADA	8	Residential AH-1 Sales Revenue	SREVRAH1	0	0	0	0	0	0
ADA	9	General Service C1 Sales Revenue	SREVGSC1	0	0	0	0	0	0
ADA	10	General Service C1 Sales Revenue	SREVGSC2	0	0	0	0	0	0
ADA	11	Commercial Heating H-1 Sales Revenue	SREVCH1	0	0	0	0	0	0
ADA	12	Light and Power P-1 Sales Revenue	SREVLPP1	0	0	0	0	0	0
ADA	13	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCISEC	0	0	0	0	0	0
ADA	14	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCPRI	0	0	0	0	0	0
ADA	15	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCTRAN	0	0	0	0	0	0
ADA	16	Real Time Market Pricing Sales Revenue	SREVRTMP	0	0	0	0	0	0
ADA	17	Light and Power WP-3 Sales Revenue	SREVLPPW3	0	0	0	0	0	0
ADA	18	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	0	0	0	0	0	0
ADA	19	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	0	0	0	0	0	0
ADA	20	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	0	0	0	0	0	0
ADA	21	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3	0	0	0	0	0	0
ADA	22	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4	0	0	0	0	0	0
ADA	23								
ADA	24	Total Available	SREVAVAIL	0	0	0	0	0	0
ADA	25								
ADA	26	Total Available	SREVAVAIL	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
ADA	27								
ADA	28								
ADA	29								
ADA	30								
ADA	31								
ADA	32								
ADA	33								
ADA	34								
ADA	35								
ADA	36								
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ADA	42								
ADA	43								
ADA	44								
ADA	45								
ADA	46								

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COS Without Minimum System			S		P		Q		T		Q	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Large Comm & Ind CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Real-Time Market Pricing RTMP	> 5,000kW Light & Power WP-3			
		(a)	(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)		
ADA	1	ALLOCATED DIRECT ASSIGNMENTS										
ADA	2	DIRECT ASSIGN TO CLASSES W/SALES REV FUNCTIONS										
ADA	3											
ADA	4	AVAILABLE										
ADA	5											
ADA	6	Residential A-1 Sales Revenue	SREVRA1	0	0	0	0	0	0	0		
ADA	7	Residential A-2 Sales Revenue	SREVRA2	0	0	0	0	0	0	0		
ADA	8	Residential AH-1 Sales Revenue	SREVRAH1	0	0	0	0	0	0	0		
ADA	9	General Service C1 Sales Revenue	SREVGSC1	0	0	0	0	0	0	0		
ADA	10	General Service C1 Sales Revenue	SREVGSC2	0	0	0	0	0	0	0		
ADA	11	Commercial Heating H-1 Sales Revenue	SREVCH1	0	0	0	0	0	0	0		
ADA	12	Light and Power P-1 Sales Revenue	SREVLPP1	0	0	0	0	0	0	0		
ADA	13	Large Commercial & Indust CP-U Sec Sales Rev	SREVL CISEC	0	0	0	0	0	0	0		
ADA	14	Large Commercial & Indust CP-U Prim Sales Rev	SREVL CIPRI	0	0	0	0	0	0	0		
ADA	15	Large Commercial & Indust CP-U Trans Sales Rev	SREVL CITRAN	0	0	0	0	0	0	0		
ADA	16	Real Time Market Pricing Sales Revenue	SREVRTMP	0	0	0	0	0	0	0		
ADA	17	Light and Power WP-3 Sales Revenue	SREVL PWP3	0	0	0	0	0	0	0		
ADA	18	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	0	0	0	0	0	0	0		
ADA	19	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	0	0	0	0	0	0	0		
ADA	20	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	0	0	0	0	0	0	0		
ADA	21	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3	0	0	0	0	0	0	0		
ADA	22	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4	0	0	0	0	0	0	0		
ADA	23											
ADA	24	Total Available	SREVAVAIL	0	0	0	0	0	0	0		
ADA	25											
ADA	26	Total Available	SREVAVAIL	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
ADA	27											
ADA	28											
ADA	29											
ADA	30											
ADA	31											
ADA	32											
ADA	33											
ADA	34											
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ADA	36											
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ADA	43											
ADA	44											
ADA	45											
ADA	46											

COS Without Minimum System			S	S	S	S	S	S		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4	
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)
ADA	1	ALLOCATED DIRECT ASSIGNMENTS								
ADA	2	DIRECT ASSIGN TO CLASSES W/SALES REV FUNCTIONS								
ADA	3									
ADA	4	AVAILABLE								
ADA	5									
ADA	6	Residential A-1 Sales Revenue	SREVRA1	0	0	0	0	0	0	
ADA	7	Residential A-2 Sales Revenue	SREVRA2	0	0	0	0	0	0	
ADA	8	Residential AH-1 Sales Revenue	SREVRAH1	0	0	0	0	0	0	
ADA	9	General Service C1 Sales Revenue	SREVGSC1	0	0	0	0	0	0	
ADA	10	General Service C1 Sales Revenue	SREVGSC2	0	0	0	0	0	0	
ADA	11	Commercial Heating H-1 Sales Revenue	SREVCH1	0	0	0	0	0	0	
ADA	12	Light and Power P-1 Sales Revenue	SREVLPP1	0	0	0	0	0	0	
ADA	13	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCISEC	0	0	0	0	0	0	
ADA	14	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCPRI	0	0	0	0	0	0	
ADA	15	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCITRAN	0	0	0	0	0	0	
ADA	16	Real Time Market Pricing Sales Revenue	SREVRTMP	0	0	0	0	0	0	
ADA	17	Light and Power WP-3 Sales Revenue	SREVLPPW3	0	0	0	0	0	0	
ADA	18	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	0	0	0	0	0	0	
ADA	19	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	0	0	0	0	0	0	
ADA	20	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	0	0	0	0	0	0	
ADA	21	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3	0	0	0	0	0	0	
ADA	22	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4	0	0	0	0	0	0	
ADA	23									
ADA	24	Total Available	SREVAVAIL	0	0	0	0	0	0	
ADA	25									
ADA	26	Total Available	SREVAVAIL	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
ADA	27									
ADA	28									
ADA	29									
ADA	30									
ADA	31									
ADA	32									
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ADA	46									

Upper Peninsula Power Company
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Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH	LINE	COS Without Minimum System	ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
ID	NO.	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
		(i)							
RRW	1	REVENUE REQUIREMENTS							
RRW	2								
RRW	3	PRESENT RATES							
RRW	4	-----							
RRW	5	RATE BASE		403,564,016	245,990,858	3,870,576	125,650,394	3,006,463	25,045,724
RRW	6	NET OPER INC (PRESENT RATES)		14,103,969	8,109,688	165,758	5,334,301	(771,841)	1,266,064
RRW	7	RATE OF RETURN (PRES RATES)		3.49%	3.30%	4.28%	4.25%	-25.67%	5.06%
RRW	8	RELATIVE RATE OF RETURN		1.00	0.94	1.23	1.21	-7.35	1.45
RRW	9	SALES REVENUE (PRE RATES)		128,122,723	71,105,776	890,816	41,498,244	935,918	13,691,969
RRW	10	REVENUE PRES RATES \$/KWH		\$0.1839	\$0.2814	\$0.4070	\$0.1758	\$0.0253	\$0.0812
RRW	11	REVENUE REQUIRED - \$/MO/CUST		\$2,379.77	\$1,487.64	\$12,756.31	\$6,958.22	\$0.00	\$0.00
RRW	12	SALES REV REQUIRED \$/KW		\$99.87	\$0.00	\$0.00	\$89.20	\$18.68	\$17.84
RRW	13								
RRW	14	CLAIMED RATE OF RETURN							
RRW	15	-----							
RRW	16	CLAIMED RATE OF RETURN		6.71%	6.71%	6.71%	6.71%	6.71%	6.71%
RRW	17	RETURN REQ FOR CLAIMED ROR		27,091,252	16,513,366	259,832	8,434,911	201,824	1,681,319
RRW	18	SALES REVENUE REQ CLAIMED ROR		145,380,225	82,272,584	1,015,821	45,618,335	2,229,724	14,243,761
RRW	19	REVENUE DEFICIENCY (SUFFICIENCY) SALES REV		17,257,502	11,166,808	125,006	4,120,091	1,293,806	551,792
RRW	20	PERCENT INCREASE/DECREASE REQUIRED		11.87%	13.57%	12.31%	9.03%	58.03%	3.87%
RRW	21	ANNUAL BOOKED KWH SALES		696,608,428	252,662,632	2,188,500	236,043,802	37,036,842	168,676,652
RRW	22	SALES REV REQUIRED \$/KWH		\$0.2087	\$0.3256	\$0.4642	\$0.1933	\$0.0602	\$0.0844
RRW	23	REVENUE DEFICIENCY (SUFFICIENCY) \$/KWH		\$0.0248	\$0.0442	\$0.0571	\$0.0175	\$0.0349	\$0.0033
RRW	24								
RRW	25								
RRW	26								
RRW	27								
RRW	28								
RRW	29								
RRW	30								
RRW	31								
RRW	32								
RRW	33								
RRW	34								
RRW	35								
RRW	36								
RRW	37								
RRW	38								
RRW	39								
RRW	40								
RRW	41								
RRW	42								
RRW	43								
RRW	44								
RRW	45								
RRW	46								
		WORKING SECTION							

17		ANNUAL CUSTOMERS		53,838	47,798	70	5,964	7	0
18		REVENUE REQUIRED - \$/MO/CUST		\$52,999.05	\$4,498.69	\$11,514.70	\$36,985.66	\$0.00	\$0.00
19		REV DEFIC PER BILLING UNIT		\$5,881.77	\$1,157.42	\$1,353.38	\$3,370.97	\$0.00	\$0.00
20		ANNUAL BILLING DEMANDS		1,282,946	0	0	465,236	50,116	767,594
21		SALES REV REQUIRED \$/KW		\$245.38	\$0.00	\$0.00	\$119.26	\$44.49	\$81.63
22		REVENUE DEFICIENCY \$/KW		\$52.14	\$0.00	\$0.00	\$22.14	\$25.82	\$4.19
		Sales of Electricity Revenues		128,122,723	71,105,776	890,816	41,498,244	935,918	13,691,969
		Check Present Revenues (should be zero)		0	0	0	0	0	0

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
		COS Without Minimum System											
RRW	1	REVENUE REQUIREMENTS											
RRW	2												
RRW	3	PRESENT RATES											
RRW	4												
RRW	5	RATE BASE			221,863,850	0	24,127,007		66,062,170	0	5,868,407	30,399,125	
RRW	6	NET OPER INC (PRESENT RATES)			8,485,519	0	(375,831)		2,584,157	0	(43,730)	4,037,078	
RRW	7	RATE OF RETURN (PRES RATES)			3.82%	0.00%	-1.56%		3.91%	0.00%	-0.75%	13.28%	
RRW	8	RELATIVE RATE OF RETURN			1.09	0.00	-0.45		1.12	0.00	-0.21	3.80	
RRW	9	SALES REVENUE (PRE RATES)			65,965,704	0	5,140,072		18,534,075	0	1,315,422	15,047,810	
RRW	10	REVENUE PRES RATES \$/KWH			\$0.2867	\$0.0000	\$0.2280		\$0.2958	\$0.0000	\$0.2098	\$0.1889	
RRW	11	REVENUE REQUIRED - \$/MO/CUST			\$1,463.97	\$0.00	\$1,877.31		\$3,571.92	\$0.00	\$6,552.54	\$28,517.64	
RRW	12	SALES REV REQUIRED \$/KW			\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$44.19	
RRW	13												
RRW	14	CLAIMED RATE OF RETURN											
RRW	15												
RRW	16	CLAIMED RATE OF RETURN			6.71%	6.71%	6.71%		6.71%	6.71%	6.71%	6.71%	
RRW	17	RETURN REQ FOR CLAIMED ROR			14,893,720	0	1,619,646		4,434,753	0	393,946	2,040,693	
RRW	18	SALES REVENUE REQ CLAIMED ROR			74,480,922	0	7,791,662		20,993,148	0	1,897,006	12,395,014	
RRW	19	REVENUE DEFICIENCY (SUFFICIENCY) SALES REV			8,515,218	0	2,651,589		2,459,073	0	581,584	(2,652,796)	
RRW	20	PERCENT INCREASE/DECREASE REQUIRED			11.43%	0.00%	34.03%		11.71%	0.00%	30.66%	-21.40%	
RRW	21	ANNUAL BOOKED KWH SALES			230,118,977	0	22,543,655		62,655,982	0	6,268,674	79,673,221	
RRW	22	SALES REV REQUIRED \$/KWH			\$0.3237	\$0.0000	\$0.3456		\$0.3351	\$0.0000	\$0.3026	\$0.1556	
RRW	23	REVENUE DEFICIENCY (SUFFICIENCY) \$/KWH			\$0.0370	\$0.0000	\$0.1176		\$0.0392	\$0.0000	\$0.0928	(\$0.0333)	
RRW	24												
RRW	25												
RRW	26												
RRW	27												
RRW	28												
RRW	29												
RRW	30												
RRW	31												
RRW	32												
RRW	33												
RRW	34												
RRW	35												
RRW	36												
RRW	37												
RRW	38												
RRW	39												
RRW	40												
RRW	41												
RRW	42												
RRW	43												
RRW	44												
RRW	45												
RRW	46												
		WORKING SECTION											
17		ANNUAL CUSTOMERS			45,060	0	2,738		5,189	0	201	528	
18		REVENUE REQUIRED - \$/MO/CUST			\$1,652.94	\$0.00	\$2,845.75		\$4,045.83	\$0.00	\$9,449.60	\$23,490.24	
19		REV DEFIC PER BILLING UNIT			\$188.98	\$0.00	\$968.44		\$473.92	\$0.00	\$2,897.06	\$0.00	
20		ANNUAL BILLING DEMANDS			0	0	0		0	0	0	340,527	
21		SALES REV REQUIRED \$/KW			\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$36.40	
22		REVENUE DEFICIENCY \$/KW			\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	(\$7.79)	
		Sales of Electricity Revenues			65,965,704	0	5,140,072		18,534,075	0	1,315,422	15,047,810	
					3.69%	0.00%	-1.69%		3.78%	0.00%	-0.88%	13.14%	
		Check Present Revenues (should be zero)			0	0	0		0	0	0	0	

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Large Comm & Ind CP-U Total	S Secondary CP-U Sec	P Primary CP-U Prim	Q Transmission CP-U Trans	T Real-Time Market Pricing RTMP	Q > 5,000kW Light & Power WP-3	
		(a)	(b)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
		COS Without Minimum System								
RRW	1	REVENUE REQUIREMENTS								
RRW	2									
RRW	3	PRESENT RATES								
RRW	4	-----								
RRW	5	RATE BASE		42,730,752	23,320,692	3,006,463	16,403,596	135,250	8,506,878	
RRW	6	NET OPER INC (PRESENT RATES)		(1,512,911)	(1,243,204)	(771,841)	502,134	155,008	608,922	
RRW	7	RATE OF RETURN (PRES RATES)		-3.54%	-5.33%	-25.67%	3.06%	0.00%	7.16%	
RRW	8	RELATIVE RATE OF RETURN		-1.01	-1.53	-7.35	0.88	0.00	2.05	
RRW	9	SALES REVENUE (PRE RATES)		14,663,435	6,600,937	935,918	7,126,580	246,905	6,318,484	
RRW	10	REVENUE PRES RATES \$/KWH		\$0.0757	\$0.0755	\$0.0253	\$0.1030	\$0.0000	\$0.0635	
RRW	11	REVENUE REQUIRED - \$/MO/CUST		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
RRW	12	SALES REV REQUIRED \$/KW		\$43.56	\$52.93	\$18.68	\$44.05	\$0.60	\$32.79	
RRW	13									
RRW	14	CLAIMED RATE OF RETURN								
RRW	15	-----								
RRW	16	CLAIMED RATE OF RETURN		6.71%	6.71%	6.71%	6.71%	6.71%	6.71%	
RRW	17	RETURN REQ FOR CLAIMED ROR		2,868,515	1,565,518	201,824	1,101,173	9,079	571,067	
RRW	18	SALES REVENUE REQ CLAIMED ROR		20,485,474	10,333,167	2,229,724	7,922,583	52,995	6,268,182	
RRW	19	REVENUE DEFICIENCY (SUFFICIENCY) SALES REV		5,822,040	3,732,230	1,293,806	796,003	(193,910)	(50,302)	
RRW	20	PERCENT INCREASE/DECREASE REQUIRED		28.42%	36.12%	58.03%	10.05%	0.00%	-0.80%	
RRW	21	ANNUAL BOOKED KWH SALES		193,659,622	87,445,925	37,036,842	69,176,855	0	99,499,797	
RRW	22	SALES REV REQUIRED \$/KWH		\$0.1058	\$0.1182	\$0.0602	\$0.1145	\$0.0000	\$0.0630	
RRW	23	REVENUE DEFICIENCY (SUFFICIENCY) \$/KWH		\$0.0301	\$0.0427	\$0.0349	\$0.0115	\$0.0000	(\$0.0005)	
RRW	24									
RRW	25									
RRW	26									
RRW	27									
RRW	28									
RRW	29									
RRW	30									
RRW	31									
RRW	32									
RRW	33									
RRW	34									
RRW	35									
RRW	36									
RRW	37									
RRW	38									
RRW	39									
RRW	40									
RRW	41									
RRW	42									
RRW	43									
RRW	44									
RRW	45									
RRW	46									
		WORKING SECTION								

17		ANNUAL CUSTOMERS		54	47	7	0	0	0	
18		REVENUE REQUIRED - \$/MO/CUST		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
19		REV DEFIC PER BILLING UNIT		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
20		ANNUAL BILLING DEMANDS		336,591	124,709	50,116	161,766	413,118	192,710	
21		SALES REV REQUIRED \$/KW		\$60.86	\$82.86	\$44.49	\$48.98	\$0.13	\$32.53	
22		REVENUE DEFICIENCY \$/KW		\$17.30	\$29.93	\$25.82	\$4.92	(\$0.47)	(\$0.26)	
		Sales of Electricity Revenues		14,663,435	6,600,937	935,918	7,126,580	246,905	6,318,484	
		Check Present Revenues (should be zero)		0	-5.45%	-25.83%	2.92%	114.53%	7.03%	
				0	0	0	0	0	0	

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH	LINE	COS Without Minimum System	ALLOCATION	S	S	S	Street	S	S
ID	NO.	DESCRIPTION	BASIS	Street	Street Light	Street	Lighting	Integrated	Iron River
		(a)	(b)	Lighting	(Closed)	Lighting	Total	OSL	OSL
				SL-3	SL-5	SL-6		Z-3	Z-4
				(aa)	(ab)	(ac)	(ad)	(ae)	(af)
									(ag)
RRW	1	REVENUE REQUIREMENTS							
RRW	2								
RRW	3	PRESENT RATES							
RRW	4	-----							
RRW	5	RATE BASE		642,139	33,950	2,688,902	3,364,991	440,063	65,522
RRW	6	NET OPER INC (PRESENT RATES)		(20,309)	4,089	170,986	154,766	16,770	(5,779)
RRW	7	RATE OF RETURN (PRES RATES)		-3.16%	12.05%	6.36%	4.60%	3.81%	-8.82%
RRW	8	RELATIVE RATE OF RETURN		-0.90	3.45	1.82	1.32	1.09	-2.52
RRW	9	SALES REVENUE (PRE RATES)		74,007	10,740	624,851	709,598	181,217	0
RRW	10	REVENUE PRES RATES \$/KWH		\$0.2465	\$0.6090	\$0.4328	\$0.4028	\$0.4244	\$0.0000
RRW	11	REVENUE REQUIRED - \$/MO/CUST		\$1,059.76	\$0.00	\$0.00	\$10,161.31	\$0.00	\$0.00
RRW	12	SALES REV REQUIRED \$/KW		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
RRW	13								
RRW	14	CLAIMED RATE OF RETURN							
RRW	15	-----							
RRW	16	CLAIMED RATE OF RETURN		6.71%	6.71%	6.71%	6.71%	6.71%	6.71%
RRW	17	RETURN REQ FOR CLAIMED ROR		43,107	2,279	180,506	225,892	29,541	4,398
RRW	18	SALES REVENUE REQ CLAIMED ROR		158,274	8,335	637,501	804,110	198,188	13,523
RRW	19	REVENUE DEFICIENCY (SUFFICIENCY) SALES REV		84,267	(2,406)	12,650	94,511	16,971	13,523
RRW	20	PERCENT INCREASE/DECREASE REQUIRED		53.24%	-28.86%	1.98%	11.75%	8.56%	100.00%
RRW	21	ANNUAL BOOKED KWH SALES		300,197	17,636	1,443,634	1,761,467	427,033	0
RRW	22	SALES REV REQUIRED \$/KWH		\$0.5272	\$0.4726	\$0.4416	\$0.4565	\$0.4641	\$0.0000
RRW	23	REVENUE DEFICIENCY (SUFFICIENCY) \$/KWH		\$0.2807	(\$0.1364)	\$0.0088	\$0.0537	\$0.0397	\$0.0000
RRW	24								
RRW	25								
RRW	26								
RRW	27								
RRW	28								
RRW	29								
RRW	30								
RRW	31								
RRW	32								
RRW	33								
RRW	34								
RRW	35								
RRW	36								
RRW	37								
RRW	38								
RRW	39								
RRW	40								
RRW	41								
RRW	42								
RRW	43								
RRW	44								
RRW	45								
RRW	46								
		WORKING SECTION							

17		ANNUAL CUSTOMERS		70	0	0	70	0	0
18		REVENUE REQUIRED - \$/MO/CUST		\$2,266.45	\$0.00	\$0.00	\$11,514.70	\$0.00	\$0.00
19		REV DEFIC PER BILLING UNIT		\$1,206.69	\$0.00	\$0.00	\$1,353.38	\$0.00	\$0.00
20		ANNUAL BILLING DEMANDS		0	0	0	0	0	0
21		SALES REV REQUIRED \$/KW		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22		REVENUE DEFICIENCY \$/KW		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		Sales of Electricity Revenues		74,007	10,740	624,851	709,598	181,217	0
		Check Present Revenues (should be zero)		-3.33%	11.86%	6.18%	3.53%	-9.01%	0
				0	0	0	0	0	0

Schedule F-2

Case No.:	U-22032
Exhibit:	A-16 (NEB-3)
Schedule:	F2
Witness:	Nicole E. Bell
Page:	1 of 1

Michigan Public Service Commission

Upper Peninsula Power Company

Summary of Present and Proposed Revenue by Rate Schedule

(a)	(b)	(c)	(d)	(e)
Line No.	Description	Total Present Revenue	Total Proposed Revenue	Total Net Increase/ (Decrease) (%)
1	<u>UPPCO RETAIL SYSTEM</u>			
2	A-1	\$65,965,704	\$76,291,295	\$10,325,591
3	AH-1	\$5,140,072	\$5,864,086	\$724,014
4	C-1	\$18,534,075	\$21,449,589	\$2,915,514
5	H-1	\$1,315,422	\$1,483,077	\$167,654
6	P-1	\$15,047,810	\$15,849,267	\$801,457
7	Cp-U	\$14,700,832	\$16,371,476	\$1,670,644
8	WP-3	\$6,334,598	\$6,860,334	\$525,737
9	RTMP	\$193,393	\$193,393	\$0
10	RTMP-D	\$0	\$0	\$0
11	Z-3	\$181,217	\$188,884	\$7,667
12	SL	\$709,597	\$828,824	\$119,226
13				
14				
15	MPSC JURISDICTIONAL	\$128,122,722	\$145,380,226	\$17,257,503

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

Line No.	(a) Description	(b) Billing Determinants		(c) Rate	(d) Present		(e) Rate	(f) Proposed	
		Quantity	Units		Revenue			Revenue	
1	Residential (A-1)								
2	Distribution								
3	Service Charge (\$/Month)	540,715	Cust	\$15.00	\$8,112,148		\$15.00	\$8,110,725	
4	Energy Charge (\$/kWh)	230,118,977	kWh	\$0.13567	\$31,220,242		\$0.18255	\$42,009,111	
5	Energy Waste Reduction	230,118,977	kWh	\$0.00000	\$0		\$0.00000	\$0	
6	LIEAF	540,715	Cust	\$1.25000	\$675,894		\$1.25000	\$675,894	
7	Total - Distribution				\$40,008,284			\$50,795,730	
8									
9	COSS - Distribution							\$49,360,162	
10	% Deficient							-2.91%	
11									
12	Power Supply								
13	Energy Charge - Capacity (\$/kWh)	230,118,977	kWh	\$0.00623	\$1,433,641		\$0.00567	\$1,305,440	
14	Energy Charge - Non-Capacity (\$/kWh)	230,118,977	kWh	\$0.08567	\$19,714,293		\$0.10512	\$24,190,125	
15	PSCR Revenues (\$/kWh)	230,118,977	kWh	\$0.02090	\$4,809,487		\$0.00000	\$0	
16	Total - Power Supply				\$25,957,421			\$25,495,565	
17									
18	COSS - Power Supply							\$25,004,553	
19	Capacity							\$1,286,053	
20	Non-Capacity							\$23,718,500	
21									
22	% Deficient							-1.96%	
23	Total Base				\$65,965,704			\$76,291,295	

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

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	Service Charge (\$/Month)	32,856	Cust	\$15.00	\$492,887	\$15.00	\$492,840
4	Energy Charge - Jun-Sep (\$/kWh)	5,372,554	kWh	\$0.13567	\$728,894	\$0.18255	\$980,781
5	Energy Charge - <500 kWh Oct-May (\$/kWh)	8,424,224	kWh	\$0.13567	\$1,142,914	\$0.18255	\$1,537,875
6	Energy Charge >500 kWh Oct-May (\$/kWh)	8,746,878	kWh	\$0.06783	\$593,301	\$0.09128	\$798,388
7	Energy Waste Reduction						
8	LIEAF	22,543,656	kWh	\$0.00000	\$0	\$0.00000	\$0
9	Total - Distribution	32,856	Cust	\$1.25000	\$41,070	\$1.25000	\$41,070
10					\$2,999,067		\$3,850,954
11	COSS - Distribution						\$5,286,521
12	% Deficient						27.16%
13							
14	Power Supply						
15	Energy Charge - Capacity - Jun-Sep (\$/kWh)	5,372,554	kWh	\$0.00623	\$33,471	\$0.00567	\$30,478
16	Energy Charge - Non-Capacity - Jun-Sep (\$/kWh)	5,372,554	kWh	\$0.08567	\$460,267	\$0.10512	\$564,763
17	Energy Charge - Capacity - <500 kWh Oct-May (\$/kWh)	8,424,224	kWh	\$0.00623	\$52,483	\$0.00567	\$47,790
18	Energy Charge - Non-Capacity - <500 kWh Oct-May (\$/kWh)	8,424,224	kWh	\$0.08567	\$721,703	\$0.10512	\$885,555
19	Energy Charge >500kWh - Capacity - Oct-May (\$/kWh)	8,746,878	kWh	\$0.00311	\$63,997	\$0.00284	\$24,810
20	Energy Charge >500 kWh - Non-Capacity - Oct-May (\$/kWh)	8,746,878	kWh	\$0.04284	\$337,922	\$0.05256	\$459,736
21	PSCR Revenues (\$/kWh)	22,543,656	kWh	\$0.02090	\$471,162	\$0.00000	\$0
22	Total - Power Supply				\$2,141,005		\$2,013,132
23							
24	COSS - Power Supply						\$2,504,145
25	Capacity						\$122,464
26	Non-Capacity						\$2,381,680
27							
28	% Deficient						19.61%
29	Total Base				\$5,140,072		\$5,864,086

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

Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Commercial (C-1)						
2	Distribution						
3	Service Charge (\$/Month)	62,226	Cust	\$19.00	\$1,182,445	\$19.00	\$1,182,294
4	Telemetry Charge (\$/Month)	120	Cust	\$32.88	\$3,946	\$32.88	\$3,946
5	Energy Charge (\$/kWh)	62,655,982	kWh	\$0.16047	\$10,054,405	\$0.21185	\$13,273,637
6	Energy Waste Reduction	62,226	Cust	\$0.0000	\$0	\$0.00	\$0
7	LIEAF	62,226	Cust	\$1.25	\$77,783	\$1.25	\$77,783
6	Total - Distribution				\$11,318,579		\$14,537,659
7							
8	COSS - Distribution						\$14,285,034
9	% Deficient						-1.77%
10							
11	Power Supply						
12	Energy Charge - Capacity (\$/kWh)	61,893,089	kWh	\$0.00641	\$396,735	\$0.00582	\$360,350
13	Energy Charge - Non-Capacity (\$/kWh)	61,893,089	kWh	\$0.08927	\$5,525,196	\$0.10585	\$6,551,580
14	PSCR Revenues (\$/kWh)	61,893,089	kWh	\$0.02090	\$1,293,566	\$0.00000	\$0
15	Total - Power Supply				\$7,215,496		\$6,911,930
16							
17	COSS - Power Supply						\$6,747,102
18	Capacity						\$352,926
19	Non-Capacity						\$6,394,176
20							
21	% Deficient						94.66%
22	Total Base				\$18,534,075		\$21,449,589

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

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	Service Charge (\$/Month)	2,409	Cust	\$19.00	\$45,778	\$19.00	\$45,771
4	Energy Charge - Jun-Sep (\$/kWh)	1,617,075	kWh	\$0.16047	\$259,492	\$0.21185	\$342,576
5	Energy Charge - <1000 kWh Oct-May	980,924	kWh	\$0.16047	\$157,409	\$0.21185	\$207,808
6	Energy Charge >1000 kWh Oct-May	3,670,675	kWh	\$0.08024	\$294,535	\$0.10592	\$388,815
7	Energy Waste Reduction	2,409	Cust	\$0.0000	\$0	\$0.00	\$0
	LIEAF	2,409	Cust	\$1.25	\$3,011	\$1.25	\$3,011
7	Total - Distribution				\$760,225		\$987,982
8							
9	COSS - Distribution						\$1,240,607
10	% Deficient						20.36%
11							
12	Power Supply						
13	Energy Charge - Capacity - June- Sep (\$/kWh)	1,617,075	kWh	\$0.00641	\$10,365	\$0.00582	\$9,415
14	Energy Charge - Non-Capacity - June- Sep (\$/kWh)	1,617,075	kWh	\$0.08927	\$144,356	\$0.10585	\$171,173
15	Energy Charge - Capacity - <1000 kWh Oct-May	980,924	kWh	\$0.00641	\$6,288	\$0.00582	\$5,711
16	Energy Charge - Non-Capacity - <1000 kWh Oct-May	980,924	kWh	\$0.08927	\$87,567	\$0.10585	\$103,834
17	Energy Charge - Capacity >1000 kWh - Oct-May	3,670,675	kWh	\$0.00320	\$11,746	\$0.00291	\$10,686
18	Energy Charge - Non-Capacity >1000 kWh - Oct-May	3,670,675	kWh	\$0.04464	\$163,859	\$0.05293	\$194,276
19	PSCR Revenues (\$/kWh)	6,268,674	kWh	\$0.02090	\$131,015.29	\$0.00000	\$0
20	Total - Power Supply	6,268,674			\$555,197		\$495,094
21							
22	COSS - Power Supply						\$659,923
23	Capacity						\$33,236
24	Non-Capacity						\$626,687
25							
26	% Deficient						24.98%
27	Total Base				\$1,315,422		\$1,483,077

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

Line No.	(a) Description	(b) Billing Determinants		(c) Present		(e) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Med Commercial (P-1)						
2	Distribution						
3	Service Charge (\$/Month)	6,332	Cust	\$37.00	\$234,290	\$37.00	\$234,284
4	Telemetering Charge (\$/Month)	511	Cust	\$32.88	\$16,802	\$32.88	\$16,802
4	Demand Charge \$/kW	340,527	kW	\$8.17	\$2,782,104	\$11.16	\$3,799,457
5	Energy Charge (\$/kWh)	79,673,221	kWh	\$0.04013	\$3,197,286	\$0.05298	\$4,220,997
6	Energy Waste Reduction	6,332	Cust	\$0.0000	\$0	\$0.00	\$0
7	LIEAF	6,332	Cust	\$1.25	\$7,915	\$1.25	\$7,915
6	Total - Distribution				\$6,238,397		\$8,279,455
7							
8	COSS - Distribution						\$5,435,787
9	% Deficient						-52.31%
10							
11	Power Supply						
12	Demand Charge - Capacity - \$/kW	309,527	kW	\$6.57	\$2,033,590	\$3.58	\$1,108,314
13	Demand Charge - Non-Capacity - \$/kW	309,527	kW	\$1.00	\$309,527	\$0.18	\$55,869
14	Energy Charge (\$/kWh)	66,980,499	kWh	\$0.07564	\$5,066,405	\$0.09563	\$6,405,629
15	PSCR Revenues (\$/kWh)	66,980,499	kWh	\$0.02090	\$1,399,892	\$0.00000	\$0
16	Total - Power Supply				\$8,809,414		\$7,569,812
17							
18	COSS - Power Supply						\$6,982,247
19	Capacity						\$420,795
20	Non-Capacity						\$6,561,452
21							
22	% Deficient						-8.42%
23	Total Base				\$15,047,810		\$15,849,267

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

Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed		(e) Rate	(f) Revenue
		Quantity	Units	Rate	Revenue	Rate	Revenue		
1	Industrial (Cp-U)								
2	Distribution Service								
3	Firm Demand Charge - Secondary	59,365	kW	\$7.88	\$467,796	\$10.09	\$599,014		
4	Firm Demand Charge - Primary	45,560	kW	\$4.61	\$210,034	\$9.66	\$439,997		
5	Firm Demand Charge - Transmission	73,200	kW	\$3.39	\$248,148	\$3.63	\$265,892		
6									
7	Interruptible Demand Charge - Secondary	65,344	kW	\$7.88	\$514,908	\$10.09	\$659,345		
8	Interruptible Demand Charge - Primary	4,556	kW	\$4.61	\$21,001	\$9.66	\$44,000		
9	Interruptible Demand Charge - Transmission	88,566	kW	\$3.39	\$300,238	\$3.63	\$321,707		
10									
11	Customer Demand Charge (Secondary)	124,709	kW	\$7.48	\$932,821	\$9.59	\$1,195,441		
12	Customer Demand Charge (Primary)	50,116	kW	\$4.38	\$219,508	\$9.17	\$459,797		
13	Substation Transformer Capacity (Transmission)	411,000	kVA	\$1.04	\$427,440	\$1.04	\$427,440		
14									
15	Customer Charge - Secondary	560	Cust	\$500.00	\$280,076	\$500.00	\$280,000		
16	Customer Charge - Primary	84	Cust	\$650.00	\$54,600	\$650.00	\$54,600		
17	Customer Charge - Transmission	84	Cust	\$1,500.00	\$126,000	\$1,500.00	\$126,000		
18	Telemetering Charge	132	Cust	\$32.88	\$4,340	\$32.88	\$4,340		
19	Energy Waste Reduction	728	Cust	\$0.0000	\$0	\$0.00	\$0		
20	LIEAF	728	Cust	\$1.25	\$910	\$1.25	\$910		
21	Total Distribution Service				\$3,807,820		\$4,878,484		
22									
23	COSS								\$7,774,308
24	% Deficient								37.25%
25									
26	Power Supply								
27	Firm Demand Charge - Capacity - Secondary	3,305	kW	\$5.48	\$18,111	\$2.99	\$9,871		
28	Firm Demand Charge - Non-Capacity - Secondary	3,305	kW	\$0.97	\$3,206	\$0.18	\$579		
29	Firm Demand Charge - Capacity - Primary	21,780	kW	\$4.93	\$107,375	\$2.69	\$58,544		
30	Firm Demand Charge - Non-Capacity - Primary	21,780	kW	\$0.88	\$19,166	\$0.16	\$3,432		
31	Firm Demand Charge - Capacity - Transmission	73,200	kW	\$4.39	\$321,348	\$2.39	\$174,896		
32	Firm Demand Charge - Non-Capacity - Transmission	73,200	kW	\$0.78	\$57,096	\$0.14	\$10,253		
33							\$0		
34	Interruptible Demand Charge - Capacity - Secondary	65,344	kW	\$0.00	\$0	\$0.67	\$43,559		
35	Interruptible Demand Charge - Non-Capacity - Secondary	65,344	kW	\$0.00	\$0	\$0.04	\$2,554		
36	Interruptible Demand Charge - Capacity - Primary	4,556	kW	\$0.00	\$0	\$0.37	\$1,676		
37	Interruptible Demand Charge - Non-Capacity - Primary	4,556	kW	\$0.00	\$0	\$0.02	\$98		
38	Interruptible Demand Charge - Capacity - Transmission	88,566	kW	\$0.00	\$0	\$0.07	\$6,137		
39	Interruptible Demand Charge - Non-Capacity - Transmission	88,566	kW	\$0.00	\$0	\$0.00	\$360		
40									
41	Energy Charge -								
42	On-Peak Energy Charge (Secondary)	23,745,824	kWh	\$0.08069	\$1,916,051	\$0.11591	\$2,752,385		
43	On-Peak Energy Charge (Primary)	1,675,653	kWh	\$0.07778	\$130,332	\$0.11173	\$187,227		
44	On-Peak Energy Charge (Transmission)	32,383,126	kWh	\$0.07493	\$2,426,468	\$0.10764	\$3,485,826		
45	Off-Peak Energy Charge (Secondary)	27,096,099	kWh	\$0.05246	\$1,421,461	\$0.07536	\$2,041,913		
46	Off-Peak Energy Charge (Primary)	1,913,815	kWh	\$0.05056	\$96,762	\$0.07263	\$139,003		
47	Off-Peak Energy Charge (Transmission)	36,793,729	kWh	\$0.04871	\$1,792,223	\$0.06998	\$2,574,679		
48	PSCR Revenues (\$/kWh)	123,608,246	kWh	\$0.02090	\$2,583,412	\$0.00000	\$0		
49	Total Power Supply Costs				\$10,893,012		\$11,492,992		
50									
51	Standby Demand	0	kW	\$2.00	\$0	\$2.00	\$0		
52									
53	COSS								\$12,749,212
54	Capacity								\$705,998
55	Non-Capacity								\$12,043,214
56									
57	% Deficient								9.85%
58	Total Base				\$14,700,832		\$16,371,476		

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

Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed	
		Quantity	Units	Rate	Revenue	Rate	Revenue
1	Industrial (WP-3)						
2	Distribution Service						
3	Customer Charge (\$/Month)	60	Cust	\$1,500.00	\$90,000	\$1,500.00	\$90,000
4	Telemetry Charge	24	Cust	\$32.88	\$789	\$32.88	\$789
5	Demand Charge Firm (\$/kW)	82,955	kW	\$2.89	\$239,740	\$3.90	\$323,718
6	Demand Charge Interruptible (\$/kW)	109,755	kW	\$2.89	\$317,192	\$3.90	\$428,301
7	Substation Capacity Transformer (\$/kVA)	489,600	kVA	\$1.04	\$509,184	\$1.04	\$509,783
8	Energy Waste Reduction	60	Cust	\$0.00	\$0	\$0.00	\$0
9	LIEAF	60	Cust	\$1.25	\$75	\$1.25	\$75
8	Total Distribution Service				\$1,156,980		\$1,352,665
9							
10	COSS						\$1,440,809
11	% Deficient						6.52%
12							
13	Power Supply						
14	Demand Charge Firm - Capacity - (\$/kW)	13,200	kW	\$4.39	\$57,948	\$2.39	\$31,539
15	Demand Charge Firm - Non-Capacity - (\$/kW)	13,200	kW	\$0.78	\$10,296	\$0.14	\$1,849
16	Demand Charge Interruptible - Capacity - (\$/kW)	109,755	kW	\$0.00	\$0	\$0.07	\$7,605
17	Demand Charge Interruptible - Non-Capacity - (\$/kW)	109,755	kW	\$0.00	\$0	\$0.00	\$446
18							
19	Energy Charge -						
20	On-Peak Energy (\$/kWh)	29,178,415	kWh	\$0.07493	\$2,186,339	\$0.10764	\$3,140,860
21	Off-Peak Energy (\$/kWh)	33,230,944	kWh	\$0.04871	\$1,618,679	\$0.06998	\$2,325,370
22	PSCR Revenues (\$/kWh)	62,409,359	kWh	\$0.02090	\$1,304,356	\$0.00000	\$0
23	Total Power Supply Costs				\$5,177,618		\$5,507,669
24							
25	COSS						\$4,839,014
26	Capacity						\$315,349
27	Non-Capacity						\$4,523,665
28							
29	% Deficient						-12%
30	Total Base				\$6,334,598		\$6,860,334

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

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 (\$/Month)	12	Cust	\$1,000.00	\$12,000	\$1,000.00	\$12,000.00
4	Demand Charge (\$/kW)	413,118	kW	\$0.41	\$169,378	\$0.41	\$169,378.38
5	Energy Optimization	12	Cust	\$0.00	\$0	\$0.00	\$0
6	LIEAF	12		\$1.25	\$15	\$1.25	\$15
7							
8	Power Supply						
9	Scheduling Charge (\$/Month)	12	Cust	\$1,000.00	\$12,000	\$1,000.00	\$12,000
10							
11							
12	Total Base				\$193,393		\$193,393
13							
14							
15							
16							

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

Description	(b) Billing Determinants		(c) Present		(e) Proposed	
	Quantity	Units	Rate	Revenue	Rate	Revenue
Real-Time Market Pricing (RTMP-D)						
Distribution Service						
Customer Charge (\$/Month)	0	Cust	\$1,000.00	\$0	\$1,000.00	\$0
Demand Charge (\$/kW)	0	kW	\$0.41	\$0	\$0.41	\$0
Power Supply						
Scheduling Charge (\$/Month)	0	Cust	\$1,000.00	\$0	\$1,000.00	\$0
Energy Charge (\$/kWh)	0	kWh	\$0.00000	\$0	\$0.00000	\$0
Rate Realignment	0	kWh	\$0.00000	\$0	\$0.00000	\$0
Energy Optimization	0	Cust	\$0.00	\$0	\$0.00	\$0
Total Base				\$0		\$0

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

Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed		(e) Rate	(f) Revenue
		Quantity	Units	Rate	Revenue	Rate	Revenue		
1	Private Lighting (Z-3)								
2	100 watt (Sodium Vapor)	221	Lamps	\$24.04	\$5,313	\$25.24	\$5,578		
3	250 watt (Sodium Vapor)	0	Lamps	\$36.83	\$0	\$38.67	0		
4	400 watt (Sodium Vapor)	168	Lamps	\$44.57	\$7,488	\$46.80	\$7,862		
5	175 watt (Mercury Vapor)	12	Lamps	\$21.32	\$256	\$22.39	\$269		
6	400 watt (Mercury Vapor)	0	Lamps	\$39.81	\$0	\$41.80	\$0		
7	400 watt (Metal Halide)	0	Lamps	\$44.27	\$0	\$46.48	\$0		
8	1000 watt (Metal Halide)	0	Lamps	\$81.50	\$0	\$85.58	\$0		
9	Z-3 100 watt (LED)	16,464	Lamps	\$8.03	\$132,206	\$8.85	\$145,691		
10	Z-3 150 watt (LED)	125	Lamps	\$8.83	\$1,104	\$9.73	\$1,216		
11	Z-3 250 watt (LED)	2,201	Lamps	\$10.43	\$22,956	\$11.49	\$25,298		
12	Z-3 400 watt (LED)	0	Lamps	\$15.25	\$0	\$16.81	\$0		
13	Z-3 1000 watt (LED)	0	Lamps	\$32.11	\$0	\$35.39	\$0		
14	Add'l Wood Pole	373	Poles	\$4.51	\$1,682	\$4.51	\$1,682		
15	Span of Conductor	395	Spans	\$3.26	\$1,288	\$3.26	\$1,288		
16	Energy Optimization								
17	PSCR Revenues (\$/kWh)	19,959	Cust	\$0.00	\$0	\$0.00	\$0		
17		427,033	kWh	\$0.02090	\$8,925	\$0.00000	\$0		
18	Total Base				\$181,217		\$188,884		

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

Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d) Proposed		(e) Rate	(f) Revenue
		Quantity	Units	Rate	Revenue	Rate	Revenue		
1	Street Lighting (SL)								
2	SL-3 - Energy	300,197	kWh	\$0.16047	\$48,173	\$0.21185	\$63,597		
3	SL-3 - Customer Charge	838	Cust	\$19.00	\$15,922	\$19.00	\$15,922		
4	SL-5 0-99 watt (LED) (closed)	320	Lamps	\$13.76	\$4,403	\$15.14	\$4,844		
5	SL-5 100-199 watt (LED) (closed)	0	Lamps	\$18.09	\$0	\$19.90	\$0		
6	SL-5 200-299 watt (LED) (closed)	216	Lamps	\$22.41	\$4,841	\$24.65	\$5,325		
7	SL-5 300-399 watt (LED) (closed)	0	Lamps	\$26.73	\$0	\$29.40	\$0		
8	SL-5 100 watt (Sodium Vapor) (closed)	0	Lamps	\$15.31	\$0	\$16.84	\$0		
9	SL-5 150 watt (Sodium Vapor) (closed)	0	Lamps	\$18.11	\$0	\$19.92	\$0		
10	SL-5 250 watt (Sodium Vapor) (closed)	48	Lamps	\$23.50	\$1,128	\$25.85	\$1,241		
11	SL -5 400 watt (Sodium Vapor) (closed)	0	Lamps	\$29.85	\$0	\$32.84	\$0		
12	SL-5 400 watt (Mercury Vapor) (closed)	0	Lamps	\$35.39	\$0	\$38.93	\$0		
13	SL-5 Add'l Wood Pole (closed)	0	Poles	\$4.51	\$0	\$4.51	\$0		
14	SL-5 Span of Conductor (closed)	0	Spans	\$3.26	\$0	\$3.26	\$0		
15	SL-6 70 watt (Sodium Vapor) (closed)	0	Lamps	\$20.97	\$0	\$22.02	\$0		
16	SL-6 100 watt (Sodium Vapor)	0	Lamps	\$21.81	\$0	\$22.90	\$0		
17	SL-6 150 watt (Sodium Vapor)	0	Lamps	\$26.46	\$0	\$27.78	\$0		
18	SL-6 250 watt (Sodium Vapor)	0	Lamps	\$30.03	\$0	\$31.53	\$0		
19	SL-6 400 watt (Sodium Vapor)	0	Lamps	\$42.30	\$0	\$44.42	\$0		
20	SL-6 175 watt (Mercury Vapor)	0	Lamps	\$22.20	\$0	\$23.31	\$0		
21	SL-6 400 watt (Mercury Vapor)	0	Lamps	\$40.75	\$0	\$42.79	\$0		
22	SL-6 175 watt (Metal Halide)	0	Lamps	\$36.20	\$0	\$38.01	\$0		
23	SL-6 400 watt (Metal Halide)	0	Lamps	\$44.57	\$0	\$46.80	\$0		
24	SL-6 1000 watt (Metal Halide)	0	Lamps	\$82.14	\$0	\$86.25	\$0		
25	SL-6 100 watt (LED)	62,545	Lamps	\$7.30	\$456,579	\$8.17	\$511,162		
26	SL-6 150 watt (LED)	14,665	Lamps	\$8.03	\$117,760	\$12.26	\$179,779		
27	SL-6 250 watt (LED)	2,100	Lamps	\$9.49	\$19,929	\$20.43	\$42,907		
28	SL-6 400 watt (LED)	0	Lamps	\$13.87	\$0	\$32.69	\$0		
29	SL-6 1000 watt (LED)	0	Lamps	\$29.19	\$0	\$81.73	\$0		
30	SL-6 Add'l Wood Pole	48	Poles	\$4.51	\$216	\$4.51	\$216		
31	SL-6 Span of Conductor	60	Spans	\$3.26	\$196	\$3.26	\$196		
32	LIEAF	838	Cust	\$1.25	\$3,637	\$4.34	\$3,637		
33	PSCR Revenues (\$/kWh)	1,761,467	kWh	\$0.02090	\$36,815	\$0.00000	\$0		
34	Total Base				\$709,597		\$828,824		

	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
Line No.	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed \$/kWh	
						Amount	Percent		
INTEGRATED RETAIL SYSTEM: RATE A-1									
1		0		\$16.25	\$16.25	\$0.00	0.00%		NA
2		50		\$28.67	\$30.92	\$2.24	7.83%		\$0.61835
3		100		\$41.10	\$45.58	\$4.49	10.92%		\$0.45585
4		150		\$53.52	\$60.25	\$6.73	12.58%		\$0.40168
5		200		\$65.94	\$74.92	\$8.98	13.61%		\$0.37460
6		250		\$78.37	\$89.59	\$11.22	14.32%		\$0.35835
7		300		\$90.79	\$104.25	\$13.46	14.83%		\$0.34751
8		350		\$103.21	\$118.92	\$15.71	15.22%		\$0.33978
9		400		\$115.64	\$133.59	\$17.95	15.52%		\$0.33397
10		450		\$128.06	\$148.26	\$20.19	15.77%		\$0.32946
11		500		\$140.49	\$162.92	\$22.44	15.97%		\$0.32585
12		550		\$152.91	\$177.59	\$24.68	16.14%		\$0.32289
13		600		\$165.33	\$192.26	\$26.93	16.29%		\$0.32043
14		650		\$177.76	\$206.93	\$29.17	16.41%		\$0.31835
15		700		\$190.18	\$221.59	\$31.41	16.52%		\$0.31656

	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
Line	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed \$/kWh	
No.						Amount	Percent		
INTEGRATED RETAIL SYSTEM: RATE AH-1									
1		0		\$16.25	\$16.25	\$0.00	0.00%		NA
2		100		\$41.10	\$45.58	\$4.49	10.92%		\$0.45585
3		300		\$90.79	\$104.25	\$13.46	14.83%		\$0.34751
4		500		\$140.49	\$162.92	\$22.44	15.97%		\$0.32585
5		700		\$175.01	\$202.04	\$27.03	15.44%		\$0.28862
6		1,000		\$226.79	\$260.71	\$33.92	14.95%		\$0.26071
7		1,500		\$313.10	\$358.49	\$45.39	14.50%		\$0.23899
8		2,000		\$399.40	\$456.27	\$56.87	14.24%		\$0.22814
9		2,500		\$485.71	\$554.05	\$68.35	14.07%		\$0.22162
10		3,000		\$572.01	\$651.83	\$79.82	13.96%		\$0.21728

	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
Line	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed \$/kWh	
No.						Amount	Percent		
INTEGRATED RETAIL SYSTEM: RATE C-1									
1		0		\$20.25	\$20.25	\$0.00	0.00%		NA
2		100		\$47.96	\$52.60	\$4.65	9.69%		\$0.52602
3		300		\$103.37	\$117.31	\$13.94	13.49%		\$0.39102
4		500		\$158.78	\$182.01	\$23.24	14.64%		\$0.36402
5		700		\$214.19	\$246.72	\$32.53	15.19%		\$0.35245
6		1,000		\$297.30	\$343.77	\$46.47	15.63%		\$0.34377
7		2,500		\$712.88	\$829.06	\$116.19	16.30%		\$0.33162
8		5,000		\$1,405.50	\$1,637.87	\$232.37	16.53%		\$0.32757
9		7,500		\$2,098.13	\$2,446.69	\$348.56	16.61%		\$0.32622
10		10,000		\$2,790.75	\$3,255.50	\$464.75	16.65%		\$0.32555

	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
Line	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed \$/kWh	
No.						Amount	Percent		
INTEGRATED RETAIL SYSTEM: RATE H-1									
1		0		\$20.25	\$20.25	\$0.00	0.00%		NA
2		100		\$47.96	\$52.60	\$4.65	9.69%		\$0.52602
3		300		\$103.37	\$117.31	\$13.94	13.49%		\$0.39102
4		500		\$158.78	\$182.01	\$23.24	14.64%		\$0.36402
5		700		\$214.19	\$246.72	\$32.53	15.19%		\$0.35245
6		1,000		\$297.30	\$343.77	\$46.47	15.63%		\$0.34377
7		1,500		\$393.14	\$451.62	\$58.48	14.88%		\$0.30108
8		2,000		\$488.97	\$559.46	\$70.49	14.42%		\$0.27973
9		2,500		\$584.81	\$667.30	\$82.49	14.11%		\$0.26692
10		3,000		\$680.64	\$775.14	\$94.50	13.88%		\$0.25838

	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
Line No.	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed \$/kWh	
						Amount	Percent		
INTEGRATED RETAIL SYSTEM: RATE P-1									
1		0	0	\$38.25	\$38.25	\$0.00	0.00%		NA
2		1,000	10	\$332.32	\$336.05	\$3.73	1.12%		\$0.33605
3		4,000	15	\$821.03	\$856.48	\$35.45	4.32%		\$0.21412
4		9,000	25	\$1,661.78	\$1,748.74	\$86.96	5.23%		\$0.19430
5		13,000	35	\$2,365.86	\$2,492.38	\$126.52	5.35%		\$0.19172
6		17,000	45	\$3,069.94	\$3,236.02	\$166.08	5.41%		\$0.19035
7		20,000	55	\$3,637.35	\$3,831.04	\$193.69	5.33%		\$0.19155
8		23,000	65	\$4,204.76	\$4,426.07	\$221.31	5.26%		\$0.19244
9		25,000	75	\$4,635.50	\$4,872.48	\$236.98	5.11%		\$0.19490
10		27,000	85	\$5,066.24	\$5,318.90	\$252.66	4.99%		\$0.19700
11		29,000	95	\$5,496.98	\$5,765.31	\$268.33	4.88%		\$0.19880
12		31,000	105	\$5,927.72	\$6,211.72	\$284.00	4.79%		\$0.20038

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Line No.	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed \$/kWh
						Amount	Percent	
INTEGRATED RETAIL SYSTEM: RATE Cp-U								
1		0	0	\$8,007.33	\$8,007.33	\$0.00	0.00%	NA
2		160,000	420	\$28,269.49	\$31,646.81	\$3,377.33	11.95%	\$0.19779
3		320,000	840	\$48,531.64	\$55,286.29	\$6,754.66	13.92%	\$0.17277
4		480,000	1,260	\$68,793.79	\$78,925.77	\$10,131.98	14.73%	\$0.16443
5		640,000	1,680	\$89,055.94	\$102,565.25	\$13,509.31	15.17%	\$0.16026
6		800,000	2,100	\$109,318.09	\$126,204.73	\$16,886.64	15.45%	\$0.15776
7		960,000	2,520	\$129,580.25	\$149,844.21	\$20,263.97	15.64%	\$0.15609
8		1,120,000	2,940	\$149,842.40	\$173,483.69	\$23,641.30	15.78%	\$0.15490
9		1,280,000	3,360	\$170,104.55	\$197,123.17	\$27,018.62	15.88%	\$0.15400
10		1,440,000	3,780	\$190,366.70	\$220,762.65	\$30,395.95	15.97%	\$0.15331
11		1,600,000	4,200	\$210,628.85	\$244,402.13	\$33,773.28	16.03%	\$0.15275

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Line No.	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed \$/kWh
						Amount	Percent	
INTEGRATED RETAIL SYSTEM: RATE WP-3								
1		0	0	\$14,293.25	\$14,308.29	\$15.04	0.11%	NA
2		600,000	1,200	\$68,022.53	\$73,268.93	\$5,246.40	7.71%	\$0.12211
3		1,200,000	2,400	\$121,751.81	\$132,229.56	\$10,477.75	8.61%	\$0.11019
4		1,800,000	3,600	\$175,481.09	\$191,190.20	\$15,709.11	8.95%	\$0.10622
5		2,400,000	4,800	\$229,210.37	\$250,150.83	\$20,940.46	9.14%	\$0.10423
6		3,000,000	6,000	\$282,939.65	\$309,111.47	\$26,171.82	9.25%	\$0.10304
7		3,600,000	7,200	\$336,668.93	\$368,072.11	\$31,403.18	9.33%	\$0.10224
8		4,200,000	8,400	\$390,398.21	\$427,032.74	\$36,634.53	9.38%	\$0.10167
9		4,800,000	9,600	\$444,127.49	\$485,993.38	\$41,865.89	9.43%	\$0.10125
10		5,400,000	10,800	\$497,856.77	\$544,954.01	\$47,097.24	9.46%	\$0.10092
11		6,000,000	12,000	\$551,586.05	\$603,914.65	\$52,328.60	9.49%	\$0.10065

	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
Line		Monthly	Monthly	Present Net	Proposed Net	Increase			Proposed
No.	Jurisdiction	kWh Use	kW	Monthly Bill	Monthly Bill	Amount	Percent		\$/kWh
INTEGRATED RETAIL SYSTEM: RATE RTMP									
1		0	0	\$2,001.25	\$2,001.25	\$0.00	0.00%		NA
2		600,000	1,200	\$2,493.25	\$2,493.25	\$0.00	0.00%		\$0.00416
3		1,200,000	2,400	\$2,985.25	\$2,985.25	\$0.00	0.00%		\$0.00249
4		1,800,000	3,600	\$3,477.25	\$3,477.25	\$0.00	0.00%		\$0.00193
5		2,400,000	4,800	\$3,969.25	\$3,969.25	\$0.00	0.00%		\$0.00165
6		3,000,000	6,000	\$4,461.25	\$4,461.25	\$0.00	0.00%		\$0.00149
7		3,600,000	7,200	\$4,953.25	\$4,953.25	\$0.00	0.00%		\$0.00138
8		4,200,000	8,400	\$5,445.25	\$5,445.25	\$0.00	0.00%		\$0.00130
9		4,800,000	9,600	\$5,937.25	\$5,937.25	\$0.00	0.00%		\$0.00124
10		5,400,000	10,800	\$6,429.25	\$6,429.25	\$0.00	0.00%		\$0.00119
11		6,000,000	12,000	\$6,921.25	\$6,921.25	\$0.00	0.00%		\$0.00115

	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
Line		Monthly	Monthly	Present Net	Proposed Net	Increase			Proposed
No.	Jurisdiction	kWh Use	kW	Monthly Bill	Monthly Bill	Amount	Percent		\$/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	\$2,492.00	\$2,492.00	\$0.00	0.00%		\$0.00415
3		1,200,000	2,400	\$2,984.00	\$2,984.00	\$0.00	0.00%		\$0.00249
4		1,800,000	3,600	\$3,476.00	\$3,476.00	\$0.00	0.00%		\$0.00193
5		2,400,000	4,800	\$3,968.00	\$3,968.00	\$0.00	0.00%		\$0.00165
6		3,000,000	6,000	\$4,460.00	\$4,460.00	\$0.00	0.00%		\$0.00149
7		3,600,000	7,200	\$4,952.00	\$4,952.00	\$0.00	0.00%		\$0.00138
8		4,200,000	8,400	\$5,444.00	\$5,444.00	\$0.00	0.00%		\$0.00130
9		4,800,000	9,600	\$5,936.00	\$5,936.00	\$0.00	0.00%		\$0.00124
10		5,400,000	10,800	\$6,428.00	\$6,428.00	\$0.00	0.00%		\$0.00119
11		6,000,000	12,000	\$6,920.00	\$6,920.00	\$0.00	0.00%		\$0.00115

	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)
Line No.	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed \$/kWh	
						Amount	Percent		
INTEGRATED RETAIL SYSTEM: RATE SL-3									
1		0		\$20.27	\$23.34	\$3.07	NA	NA	
2		100		\$36.32	\$44.52	\$8.21	22.60%	\$0.44525	
3		200		\$52.36	\$65.71	\$13.34	25.48%	\$0.32855	
4		300		\$68.41	\$86.89	\$18.48	27.02%	\$0.28965	
5		400		\$84.46	\$108.08	\$23.62	27.97%	\$0.27020	
6		500		\$100.51	\$129.26	\$28.76	28.61%	\$0.25853	
7		600		\$116.55	\$150.45	\$33.90	29.08%	\$0.25075	
8		700		\$132.60	\$171.63	\$39.03	29.44%	\$0.24519	
9		800		\$148.65	\$192.82	\$44.17	29.72%	\$0.24102	
10		900		\$164.69	\$214.00	\$49.31	29.94%	\$0.23778	
11		1,000		\$180.74	\$235.19	\$54.45	30.13%	\$0.23519	

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Line		Monthly	Monthly	Present Net	Proposed Net	Increase		Proposed
No.	Jurisdiction	kWh Use	kW	Monthly Bill	Monthly Bill	Amount	Percent	\$/kWh
INTEGRATED RETAIL SYSTEM: RATE SL (1 Pole, 1 Span)								
1	100W - LED	100		\$7.30	\$8.17	\$0.87	11.95%	\$0.08173
2	150W - LED	100		\$8.03	\$12.26	\$4.23	52.67%	\$0.12259
3	250W - LED	100		\$9.49	\$20.43	\$10.94	115.30%	\$0.20432

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Line	Jurisdiction	Monthly kWh Use	Monthly kW	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed \$/kWh
No.						Amount	Percent	
INTEGRATED RETAIL SYSTEM: RATE Z-3 (1 Pole, 1 Span)								
1	100W - LED	100		\$8.03	\$8.85	\$0.82	10.20%	\$0.08849
2	150W - LED	100		\$8.83	\$9.73	\$0.90	10.20%	\$0.09731
3	250W - LED	100		\$10.43	\$11.49	\$1.06	10.20%	\$0.11494
2	400W - LED	100		\$15.25	\$16.81	\$1.56	10.20%	\$0.16806
3	1000W - LED	100		\$32.11	\$35.39	\$3.28	10.20%	\$0.35385

UPPER PENINSULA POWER COMPANY

MPSC Vol No 8-ELECTRIC

XX96th Rev. Sheet No. A-16.00
Replaces XX95th Rev. Sheet No. A-16.00

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Chief Executive Officer
Marquette, Michigan

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UPPER PENINSULA POWER COMPANY

MPSC Vol No 8-ELECTRIC

Replaces ~~XX31st~~ Rev. Sheet No. A-18.00
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UPPER PENINSULA POWER COMPANY

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UPPER PENINSULA POWER COMPANY

MPSC Vol No 8-ELECTRIC

~~XX7th~~ Rev. Sheet No. D-1.00
Replaces ~~XX6th~~ Rev. Sheet No. D-1.00

D1. Power Supply Cost Recovery

PSCR

A. PSCR Factors:

All rates for electric service shall include an amount up to the Power Supply Cost Recovery Factor (the PSCR Factor) for the specified billing period as set forth below.

The PSCR Factors for a given month will consist of an increase or decrease of 0.010623 mills per kWh for all customers in the Integrated System and in the Iron River System for each full 0.01 mill increase or decrease in the projected power supply costs for that month above or below a cost base of 65.9342.90 mills per kWh, rounded to the nearest one-hundredth of a mill per kWh. The projected power supply costs per kWh shall equal the total projected net power cost in that month divided by the sum of that month's projected net system kWh requirements. Net system kWh requirements shall be the sum of net kWh generation and net kWh purchased and interchanged.

An amount not exceeding the PSCR Factor for each month shall be placed into effect in the first billing cycle of that monthly billing period and shall continue in effect until the first billing cycle of a subsequent month for which a subsequent PSCR Factor becomes operative.

B. Monthly Reports:

Not more than 45 days following the last day of each billing month in which a PSCR Factor has been applied to customers' bills, the Company shall file with the Commission a detailed statement for that month of the revenues recorded pursuant to the PSCR Factor and the allowance for cost of power supply included in the base rates established in the latest Commission order for the Company and the cost of power supply.

C. Annual Reconciliation:

All fuel cost and purchased and net interchanged power revenues received by the Company, whether included in base rates or collected pursuant to a fuel and purchased power cost adjustment clause or a power supply cost recovery clause, shall be subject to annual reconciliation with the cost of fuel and purchased and net interchanged power. Such annual reconciliations shall be conducted in accordance with the reconciliation procedures described in Section 6j (12) to (18) of 1939 PA 3, as amended, including the provisions for refunds, additional charges, deferral and recovery, and shall include consideration by the Commission of the reasonableness and prudence of expenditures charged pursuant to any fuel and purchased power cost adjustment clause in existence during the period being reconciled.

Continued on Sheet No. D-2.00

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By G R Haehnel
~~Chief Executive Officer~~~~Director -- Regulatory Affairs~~
Marquette, Michigan

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UPPER PENINSULA POWER COMPANY

MPSC Vol No 8-ELECTRIC
(2026 PSCR Plan, Case No. U-21883)

[XX225](#) Revised Sheet No. D-2.00
Replaces [XX224](#) Revised Sheet No. D-2.00

D1. Power Supply Cost Recovery				PSCR
Continued from Sheet No. D-1.00				
Should the Company apply lesser factors than those below, or if the factors are later revised pursuant to Commission Orders or 1982 PA 304, the Company will notify the Commission and file a revision of the following list.				
<u>ALL CLASSES</u>				
Billing Months	Power Supply Cost Recovery Factors			
	Authorized 20276 Plan Year PSCR Factor \$/kWh	Prior Years Over/Under Recovery Factor \$/kWh	Maximum Authorized 20276 PSCR Factor \$/kWh	Actual Factor Billed \$/kWh
R January 20276	\$0.000001466	\$0.00000624	\$0.000002090	~~\$0.02090~~
R February 20276	\$0.000001466	\$0.00000624	\$0.000002090	~~\$0.02090~~
R March 20276	\$0.000001466	\$0.00000624	\$0.000002090	~~\$0.02090~~
R April 20276	\$0.000001466	\$0.00000624	\$0.000002090	~~\$0.02090~~
R May 20276	\$0.000001600	\$0.00000742	\$0.000002342	~~\$0.02342~~
R June 20276	\$0.000001600	\$0.00000742	\$0.000002342	
R July 20276	\$0.000001600	\$0.00000742	\$0.000002342	
R August 20276	\$0.000001600	\$0.00000742	\$0.000002342	
R September 20276	\$0.000001600	\$0.00000742	\$0.000002342	
R October 20276	\$0.000001600	\$0.00000742	\$0.000002342	
R November 20276	\$0.000001600	\$0.00000742	\$0.000002342	
R December 20276	\$0.000001600	\$0.00000742	\$0.000002342	
Continued on Sheet No. D-3.00				

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Chief Executive Officer
Marquette, Michigan

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2026 Billing Months
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Mich Public Serv Comm
In Case No. U-20321883

UPPER PENINSULA POWER COMPANY

MPSC Vol No 8-ELECTRIC

XX11th Rev. Sheet No. D-4.00
Replaces XX10th Rev. Sheet No. D-4.00

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.

CHARACTER OF SERVICE:

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

RATE: DISTRIBUTION SERVICE

Service Charge:

\$15.00/Mo. for Year-Round

\$0.4932/Day for Year-Round

\$30.00/Mo. for Seasonal

\$0.9863/Day for Seasonal

Energy Charge:

\$0.1825513567 per kWh for all kWh

POWER SUPPLY SERVICE (Optional)

Energy Charge:

Non-Capacity \$0.1051208567 per kWh for all kWh

Capacity \$0.0056700623 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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UPPER PENINSULA POWER COMPANY

MPSC Vol No 8-ELECTRIC

~~XX10~~th Rev. Sheet No. D-8.00
Replaces ~~XX9~~th Rev. Sheet No. D-8.00

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.

CHARACTER OF SERVICE:

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

RATE: DISTRIBUTION SERVICE

Service Charge:

\$15.00 per month

\$0.4932 per day

Energy Charge:

For billing months of June through September

R ~~\$0.13567~~ \$0.18255 per kWh for all kWh

For billing months of October through May

R ~~\$0.13567~~ \$0.18255 per kWh for the first 500 kWh

R ~~\$0.06783~~ \$0.09128 per kWh for the excess

POWER SUPPLY SERVICE (Optional)

Energy Charge:

For billing months of June through September

R Non-Capacity ~~\$0.08567~~ \$0.10512 per kWh for all kWh

R Capacity ~~\$0.00623~~ \$0.00567 per kWh for all kWh

For billing months of October through May

R Non-Capacity ~~\$0.08567~~ \$0.10512 for the first 500 kWh

R Capacity ~~\$0.00623~~ \$0.00567 for the first 500 kWh

R Non-Capacity ~~\$0.04284~~ \$0.05256 for the excess kWh

R Capacity ~~\$0.00311~~ \$0.00284 for the excess kWh

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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UPPER PENINSULA POWER COMPANY

MPSC Vol No 8-ELECTRIC

~~XX11~~th Rev. Sheet No. D-12.00
Replaces 10th Rev. Sheet No. D-12.00

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. CHARACTER OF SERVICE: Single or three-phase, alternating current, 60 hertz at standard available voltages. RATE: <u>DISTRIBUTION SERVICE:</u> Service Charge: \$19.00 per month \$0.6247 per day Energy Charge: ~~\$0.16047~~<u>\$0.21185</u> per kWh for all kWh <u>POWER SUPPLY SERVICE (Optional)</u> Energy Charge: Non-Capacity ~~\$0.08927~~<u>\$0.10585</u> per kWh for all kWh Capacity ~~\$0.00641~~<u>\$0.00582</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: (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.	R R R

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UPPER PENINSULA POWER COMPANY

MPSC Vol No 8-ELECTRIC

~~XX11~~th Rev. Sheet No. D-14.00
Replaces ~~XX10~~th Rev. Sheet No. D-14.00

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.

CHARACTER OF SERVICE:

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

RATE: DISTRIBUTION SERVICE

Service Charge:
\$19.00 per month
\$0.6247 per day

Energy Charge:

For billing months of June through September

~~\$0.16047~~~~\$~~\$0.21185 per kWh for all kWh

For billing months of October through May

~~\$0.16047~~~~\$~~\$0.21185 per kWh for first 1000 kWh

~~\$0.08024~~~~\$~~\$0.10592 per kWh for the excess

POWER SUPPLY SERVICE (Optional)

Energy Charge:

For billing months of June through September

Non-Capacity ~~\$0.08927~~~~\$~~\$0.10585 per kWh for all kWh

Capacity ~~\$0.00641~~~~\$~~\$0.00582 per kWh for all kW

For billing months of October through May

Non-Capacity ~~\$0.08927~~~~\$~~\$0.10585 per kWh for first 1000 kWh

Capacity ~~\$0.00641~~~~\$~~\$0.00582 per kWh for first 1000 kWh

Non-Capacity ~~\$0.04464~~~~\$~~\$0.05293 per kWh for the excess

Capacity ~~\$0.00320~~~~\$~~\$0.00291 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.

Continued to Page D-14.10

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UPPER PENINSULA POWER COMPANY

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~~XX11~~th Rev. Sheet No. D-16.00
Replaces ~~XX10~~th Rev. Sheet No. D-16.00

D2. Light and Power Service

P-1

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.

CHARACTER OF SERVICE:

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

RATE: DISTRIBUTION SERVICE

Service Charge:
\$37.00 per month
\$1.2164 per day

R Demand Charge:
~~\$8.17~~\$11.16 per kW per month

R Energy Charge:
~~\$0.04013~~\$0.05298 per kWh for all kWh

POWER SUPPLY SERVICE (Optional)

R Demand Charge:
Capacity ~~\$6.57~~\$3.58 per kW per month
R Non-Capacity ~~\$1.00~~\$0.18 per kW per month

R Energy Charge:
~~\$0.07564~~\$0.09563 per kWh for all kWh

MINIMUM CHARGE:

The capacity charge for 25 kW or the contract minimum, whichever is greater, 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.

POWER FACTOR BILLING ADJUSTMENT:

This rate is subject to the Company's Power Factor Billing Adjustment.

Continued on Sheet No. D-17.00

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UPPER PENINSULA POWER COMPANY

MPSC Vol No 8-ELECTRIC

~~XX8th~~ Rev. Sheet No. D-25.10
Replaces ~~XX7th~~ Rev. Sheet No. D-25.10

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 a company-owned substation where a de minimis amount of load is served in conjunction with other Customer accounts, as determined by the Company in its sole discretion, will be classified as Transmission and shall receive the Substation Transformer Capacity charge.

MONTHLY RATE

	Secondary	Primary	Transmission
<u>DISTRIBUTION SERVICE</u>			
<u>Customer Charge:</u>			
Monthly	\$500.00	\$650.00	\$1500.00
Daily	\$16.4383	\$21.3698	\$49.3150
<u>Demand Charge</u>			
1. Customer Demand:\$/KW	~~\$7.48~~ <u>\$9.59</u>	~~\$4.38~~ <u>\$9.17</u>	\$0.00
Per KW of maximum demand during the current and preceding 11 months, plus,			
2. On-Peak			
Firm Demand: \$/KW	~~\$7.88~~ <u>\$10.09</u>	~~\$4.61~~ <u>\$9.66</u>	~~\$3.39~~ <u>\$3.63</u>
Interruptible Demand: \$/KW	~~\$7.88~~ <u>\$10.09</u>	~~\$4.61~~ <u>\$9.66</u>	~~\$3.39~~ <u>\$3.63</u>
7:00 AM to 11:00 PM; Monday through Friday (except holidays).			
Substation Transformer Capacity: \$/kVA			\$1.04

Continued to Sheet No. D-25.20

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UPPER PENINSULA POWER COMPANY

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~~X~~8th Rev. Sheet No. D-25.20
Replaces ~~X~~7th Rev. Sheet No. D-25.20

D2. Large Commercial & Industrial Service		Cp-U			
Continued from Sheet No. D-25.10					
		Secondary	Primary	Transmission	
<u>POWER SUPPLY SERVICE (Optional)</u>					
On-Peak					
Firm Demand: \$/kW					
Capacity		\$5.48\$2.99	\$4.93\$2.69	\$4.39\$2.39	
Non-Capacity		\$0.97\$0.18	\$0.88\$0.16	\$0.78\$0.14	
Total		\$6.453.16	\$5.812.85	\$5.172.53	
<u>Interruptible Demand: \$/kW</u>					
Capacity		\$0.00\$0.67	\$0.00\$0.37	\$0.00\$0.07	
Non-Capacity		\$0.00\$0.04	\$0.00\$0.02	\$0.00	
Total		\$0.0071	\$0.0039	\$0.0007	
7:00 AM to 11:00 PM; Monday through Friday (except holidays).					
<u>Energy Charge</u>					
1. On-Peak					
<u>Energy Charge:\$/kWh</u>					
		\$0.08069\$0.11591	\$0.07778\$0.11173		
		\$0.07493\$0.10764			
7:00 AM to 11:00 PM; Monday through Friday (except holidays).					
2. Off-Peak					
<u>Energy Charge:\$/kWh</u>					
		\$0.05246\$0.07536	\$0.05056\$0.07263		
		\$0.04871\$0.06998			
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				

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UPPER PENINSULA POWER COMPANY

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X9th Rev. Sheet No. D-28.00
Replaces X8th Rev. Sheet No. D-28.00

D2. Light and Power Service

WP-3

WHO MAY TAKE SERVICE:

Any customer for light and power purposes with a billing demand equal to or greater than 5,000 kW and a minimum of 500 kW of on-site generation, served at Transmission or Sub Transmission available voltages. To qualify, the customer must maintain a demand greater than 5,000 kW for three consecutive months in any twelve-month period. Once qualified for this rate schedule, Customer must attain a demand in excess of 5,000 kW once in each succeeding twelve-month period to remain eligible for this rate schedule. A minimum of 1,000 kW of interruptible load is required for interruptible service. Company retains the right to limit Interruptible loads to 8 Mw in total under this rate schedule.

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.

Customers that take service directly from a company-owned substation where a de minimis amount of load is served in conjunction with other Customer accounts, as determined by the Company in its sole discretion, will be classified as Transmission and shall receive the Substation Transformer Capacity charge.

CHARACTER OF SERVICE:

Three-phase, alternating current, 60 hertz at standard available voltages.

RATES:

DISTRIBUTION SERVICE

Customer Charge:

Monthly\$1500.00

Daily\$49.3150

Customer Demand Charge per month: \$/kW\$0.00

Firm Demand Charge per month: \$/kW~~\$2.89~~\$3.90

Interruptible Demand Charge per month: \$/kW~~\$2.89~~\$3.90

Substation Transformer Capacity: \$/kVa\$1.04

POWER SUPPLY SERVICE (Optional)

Firm Demand Charge per month: \$/kW

Capacity~~\$4.39~~\$2.39

Non-Capacity~~\$0.78~~\$0.14

Total~~\$5.17~~\$2.53

Interruptible Demand Charge per month: \$/kW

Capacity~~\$0.00~~\$0.07

Non-Capacity\$0.00

Total\$0.0007

On-Peak Energy: \$/kWh~~\$0.07493~~\$0.10764

Off-Peak Energy: \$/kWh~~\$0.04871~~\$0.06998

Continued on Sheet No. D-29.00

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UPPER PENINSULA POWER COMPANY

MPSC Vol No 8-ELECTRIC

~~XX11~~th Rev. Sheet No. D-50.00
Replaces ~~XX10~~th Rev. Sheet No. D-50.00

D2. Street Lighting Service

SL-3

WHO MAY TAKE SERVICE:

Any municipality for customer owned, operated and maintained street lighting and/or traffic signal system.

CHARACTER OF SERVICE:

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

RATE:

Service Charge:
\$19.00 per month
\$0.6247 per day

Energy Charge (\$/kWh)

Capacity \$0.~~02577~~03402

Non-Capacity \$0.~~13470~~17783

Total ~~\$0.16047~~\$0.21185

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.

CONTRACT:

Minimum period of three years subject to automatic renewal periods of one year each. The contract may be terminated at the end of any yearly period upon 90 days written notice by either party. If the contract is terminated before the three year period, the customer may be responsible for the lesser of the cost of removal or the remaining monthly charges.

RULES APPLYING:

Service is governed by the Company's Standard Rules and Regulations.

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UPPER PENINSULA POWER COMPANY

MPSC Vol No 8-ELECTRIC

Replaces ~~XX11~~th Rev. Sheet No. D-51.00
~~XX10~~th Rev. Sheet No. D-51.00

D2. Street Lighting Service (Closed)				SL-5
WHO MAY TAKE SERVICE:				
Any municipality owning its own street lighting system including poles, fixtures, wires, transformers, time switches and other accessories. Additions to mercury vapor lighting services are closed to new customers. This option is closed to new customers effective January 1, 2014.				
HOURS OF SERVICE:				
All night - Dusk to Dawn				
CHARACTER OF SERVICE:				
Single-phase, alternating current, 60 hertz at the Company's distribution voltage.				
RATE:				
<u>Light Emitting Diode (LED)</u>				
<u>Non-Capacity</u>			<u>Per Lamp Per Month</u>	
	<u>Watts</u>		<u>All Night</u>	
	0-99		~~\$13.76~~	<u>\$15.14</u>
	100-199		~~\$18.09~~	<u>\$19.09</u>
	200-299		~~\$22.41~~	<u>\$24.65</u>
	300-399		~~\$26.73~~	<u>\$29.40</u>
<u>Sodium Vapor</u>				
<u>Non-Capacity</u>			<u>Per Lamp Per Month</u>	
	<u>Lumens</u>	<u>Watts</u>	<u>All Night</u>	
	9,000	100	~~\$15.31~~	<u>\$16.84</u>
	14,000	150	~~\$18.11~~	<u>\$19.92</u>
	27,000	250	~~\$23.50~~	<u>\$25.85</u>
	45,000	400	~~\$29.85~~	<u>\$32.84</u>
<u>Mercury Vapor</u>				
<u>Non-Capacity</u>			<u>All Night</u>	
	<u>Lumens</u>	<u>Watts</u>	<u>All Night</u>	
	20,000	400	~~\$35.39~~	<u>\$38.93</u>
Capacity Energy: All Lights				
\$0. ~~00641~~ <u>00582</u> per kWh				
<u>Type of Facility</u>			<u>Monthly Charge</u>	
Additional Wood Pole			\$4.51/pole	
Span of Conductor (200 feet)			\$3.26/span	
Continued on Sheet No. D-52.00				

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UPPER PENINSULA POWER COMPANY

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X8th Rev. Sheet No. D-53.00

D2. Street Lighting Service

SL-6

WHO MAY TAKE SERVICE:

Any municipality from Company owned, operated and maintained street lighting system as available. Additions to mercury vapor lighting services are closed to new customers.

HOURS OF SERVICE: All night - Dusk to Dawn

CHARACTER OF SERVICE:

Single-phase, alternating current, 60 hertz at the Company's distribution voltage.

Non-Capacity Rate:

<u>Sodium Vapor</u>		<u>Per Lamp Per Month</u>	
<u>Lumens</u>	<u>Watts</u>	<u>All Night</u>	
5,670	70	~~\$20.97~~	<u>\$22.02</u> (Closed)
9,000	100	~~\$21.81~~	<u>\$22.90</u> (Closed)
14,000	150	~~\$26.46~~	<u>\$27.78</u> (Closed)
27,000	250	~~\$30.03~~	<u>\$31.53</u> (Closed)
45,000	400	~~\$42.30~~	<u>\$44.42</u> (Closed)

<u>Mercury Vapor</u>		<u>All Night</u>	
<u>Lumens</u>	<u>Watts</u>		
7,500	175	~~\$22.20~~	<u>\$23.31</u> (Closed)
20,000	400	~~\$40.75~~	<u>\$42.79</u> (Closed)

<u>Metal Halide</u>		<u>All Night</u>	
<u>Lumens</u>	<u>Watts</u>		
8,800	175	~~\$36.20~~	<u>\$38.01</u> (Closed)
36,000	400	~~\$44.57~~	<u>\$46.80</u> (Closed)
110,000	1,000	~~\$82.14~~	<u>\$86.25</u> (Closed)

<u>LED</u>		<u>All Night</u>	
<u>Lumens</u>	<u>Watts</u>		
9,000*	100*	~~\$7.30~~	<u>\$8.17</u>
14,000*	150*	~~\$8.03~~	<u>\$12.26</u>
27,000*	250*	~~\$9.49~~	<u>\$20.43</u>
45,000*	400*	~~\$13.87~~	<u>\$32.69</u>
120,000*	1,000*	~~\$29.19~~	<u>\$81.73</u>

Capacity Rate: All Lights

\$0.~~00641~~00582 per kWh

Continued on Sheet No. D-54.00

Issued: XX12-XX17-XX24
By G R Haehnel
Chief Executive Officer
Marquette, Michigan

Effective for Service
On and After: 01-01-275
Issued Under Auth. of
Mich Public Serv Comm
Dated: XX09-XX26-XX24
In Case No: U-2203221555

UPPER PENINSULA POWER COMPANY

MPSC Vol No 8-ELECTRIC

XX5th Rev. Sheet No. D-54.00
Replaces XX4th Rev. Sheet No. D-54.00

D2. Street Lighting Service

SL-6

Continued from Sheet No. D-53.00

SPECIAL TERMS AND CONDITIONS

The above charges are for lighting units on existing company-owned distribution facilities. The company will own and install the luminaires, complete with lamp, control device, and six-foot mast arm, mounted on an existing company pole. If the customer requests a mast arm in excess of 6 feet it will be considered special facilities. If the customer requests an additional pole and span the following facilities, the monthly charges listed below shall be added to the above charges.

Type of Facility	Monthly Charge
Additional Wood Pole	\$4.51/pole
Span of Conductor (200 feet)	\$3.26/span

* The wattages and lumens listed under the LED lamps are wattages and lumens of sodium vapor lamps to which the LED lamps are considered equivalent. Actual wattages and lumens of LED lamps may vary.

MINIMUM CHARGE: The monthly lamp charge plus the Energy Optimization Surcharge shown on Sheet No. D-73.00.

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.

PAYMENT OF BILLS	See Schedule SL-X, starting on Sheet No. D-60.10
SERVICE RULES	See Schedule SL-X, starting on Sheet No. D-60.10
EXTENSION OF SERVICE	See Schedule SL-X, starting on Sheet No. D-60.10
TERM OF CONTRACT	See Schedule SL-X, starting on Sheet No. D-60.10

Issued: XX04-XX24-XX23
By G R Haehnel
Chief ExecutiveFinancial Officer
Marquette, Michigan

Effective for Service
On and After: 07-01-2723
Issued Under Auth. of
Mich Public Serv Comm
Dated: XX03-XX24-XX23
In Case No: U-2203221286

UPPER PENINSULA POWER COMPANY

MPSC Vol No 8-ELECTRIC

Replaces ~~XX10~~th Rev. Sheet No. D-57.00
~~XX9~~th Rev. Sheet No. D-57.00

D2. Dusk To Dawn Outdoor Security Lighting

Z-3

WHO MAY TAKE SERVICE:

Any customer for dusk to dawn outdoor security lighting where customer takes service at the same premises under a standard rate schedule. Additions to mercury vapor lighting services are closed to new customers.

HOURS OF SERVICE:

Daily from dusk to dawn.

CHARACTER OF SERVICE:

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

Non-Capacity Rate:

<u>Sodium Vapor</u>			
	<u>Lumens</u>	<u>Watts</u>	<u>Monthly Charge</u>
R	9,000	100	~~\$24.04~~ ~~\$25.24~~ /Lamp (Closed)
R	27,000	250	~~\$36.83~~ ~~\$38.67~~ /Lamp (Closed)
R	45,000	400	~~\$44.57~~ ~~\$46.80~~ /Lamp (Closed)
<u>Mercury Vapor</u>			
	<u>Lumens</u>	<u>Watts</u>	<u>Monthly Charge</u>
R	7,500	175	~~\$21.32~~ ~~\$22.39~~ /Lamp (Closed)
R	20,000	400	~~\$39.81~~ ~~\$41.80~~ /Lamp (Closed)
<u>Metal Halide</u>			
	<u>Lumens</u>	<u>Watts</u>	<u>Monthly Charge</u>
R	36,000	400	~~\$44.27~~ ~~\$46.48~~ /Lamp (Closed)
R	110,000	1,000	~~\$81.50~~ ~~\$85.58~~ /Lamp (Closed)
<u>LED</u>			
	<u>Lumens</u>	<u>Watts</u>	<u>Monthly Charge</u>
R	9,000	100*	~~\$8.03~~ ~~\$8.85~~ /Lamp
R	14,000	150*	~~\$8.83~~ ~~\$9.73~~ /Lamp
R	27,000	250*	~~\$10.43~~ ~~\$11.49~~ /Lamp
R	45,000	400*	~~\$15.25~~ ~~\$16.81~~ /Lamp
R	120,000	1,000*	~~\$32.11~~ ~~\$35.39~~ /Lamp

*The wattages and lumens listed under the LED lamps are wattages and lumens of sodium vapor lamps to which the LED lamps are considered equivalent. Actual wattages and lumens of LED lamps may vary.

SPECIAL TERMS AND CONDITIONS

The above charges are for lighting on existing company-owned distribution facilities. The Company will own and install the luminaire, complete with lamp, control device and up to and including a 6-foot mast arm, mounted on an existing company pole. If the customer requests a mast arm in excess of 6 feet it will be considered special facilities. If the customer requests an additional pole and span, the monthly charges listed below shall be added to the above charges.

Continued on Sheet No. D-58.00

Issued: ~~XX12~~-~~XX17~~-~~XX24~~
By G R Haehnel
Chief Executive Officer
Marquette, Michigan

Effective for Service
On and After: 01-01-~~275~~
Issued Under Auth. of
Mich Public Serv Comm
Dated: ~~XX09~~-~~XX26~~-~~XX24~~
In Case No: U-~~22032~~~~21555~~

UPPCO Information Technology CAPEX				
Information Technology Projects for 2026-27				
Line	Information Technology Capital	IT Category	2026	2027
1	IT Equipment Annual Retirement and Replacement	Shared Infrastructure	526,223	381,103
2	Phone System Upgrade	Shared Infrastructure	40,553	-
3	Cyber Security Enhancements	Shared Infrastructure	16,610	-
4	Website Redesign	Corporate Applications	137,344	-
5	Corporate Applications	Corporate Applications	22,795	-
6	Customer Portal Replacement	Customer Service	550,000	-
7	SAP Customer Configuration Changes	Customer Service	50,000	50,000
8	GIS (ESRI) Replacement (Continuation)	Plant & Field (OT)	483,763	-
9	MDI for MNB	Plant & Field (OT)	15,000	-
10	KIWI SysLogger	Plant & Field (OT)	20,000	-
11	AMI Network Hardware Replacement (CGRs)	Plant & Field (OT)	-	2,944,848
12	SCADA Upgrade (Aspentech)	Plant & Field (OT)	-	726,025
13	Outtage Management System (OMS) Upgrade	Plant & Field (OT)	-	345,289
14	OT Threat Intelligence	Plant & Field (OT)	-	111,730
15	Total Information Technology Capital		1,862,287	4,558,995

Michigan Public Service Commission
Upper Peninsula Power Company
Substation Projects for 2026-27

Case No.: U-22032
Exhibit No.: A-18 (DJG-1)
Schedule:
Page: 1 of 1
Witness: Daniel J. Gervae

UPPCO Substation CAPEX Substation Projects for 2026-27			
Line	Project	2026	2027
1	Substation Tools - annual	100,000	
2	Barnum Add 2 Feeders	75,000	
3	Project Engineering for subsequent years - \$100K/Year	100,000	
4	CR 480 Substation Design and Long Lead Items	100,000	
5	18th Rd Substation	5,200,000	
6	Replace VCR with Vaccum Reclosers (MTU)	75,000	
7	M-38 138 kV Breaker (Progress payments order equipment)	50,000	
8	Substation Tools - annual		100,000
9	Engineering Development - Long Lead Time Constraints		100,000
10	CR 480 Substation		3,200,000
11	Recloser replacement (2) (Munising)		100,000
12		-	-
13		-	-
14		-	-
15	Total Substation Capital	5,700,000	3,500,000

UPPCO Routine Distribution CAPEX Routine Distribution Projects for 2026-27			
Line	Project	2026	2027
1	Retirement Units Change Outs	\$ 1,700,000	
2	UPPCO Engineering	\$ 1,700,000	
3	2025 carryover-Rose St	\$ 35,000	
4	2025-Emily Lake carryover	\$ 16,000	
5	2025 carryover Serenity Dr	\$ 25,000	
6	2025 carryover -Northwoods pt 1	\$ 20,000	
7	UG Life Extension	\$ 75,000	
8	Distribution Stores, Shop, Lab & Work Tools	\$ 250,000	
9	Distribution Line Transformers	\$ 3,000,000	
10	Distribution Reclosers	\$ 350,000	
11	Distribution Regulators	\$ 200,000	
12	Services	\$ 850,000	
13	Line Extensions	\$ 1,347,500	
14	Lighting	\$ 136,500	
15	Mandated Allowance for contractual/statutory/regulatory (Road Moves etc.)	\$ 210,000	
16	Aging Transformer Replacement	\$ 300,000	
17	Retirement Units Change Outs		\$ 1,800,000
18	UPPCO Engineering		\$ 1,700,000
19	UG Life Extension		\$ 75,000
20	Distribution Stores, Shop, Lab & Work Tools		\$ 250,000
21	Distribution Line Transformers		\$ 3,000,000
22	Distribution Reclosers		\$ 350,000
23	Distribution Regulators		\$ 200,000
24	Services		\$ 875,000
25	Line Extensions		\$ 1,437,000
26	Lighting		\$ 150,000
27	Mandated Allowance for contractual/statutory/regulatory (Road Moves etc.)		\$ 300,000
28	Aging Transformer Replacement		\$ 350,000
29			
30	Total Routine Distribution Capital	\$ 10,215,000	\$ 10,487,000

**System Hardening and Reliability Projects
2026 - 2027**

Line	2026 Distribution SHARP CapEx Projects			RASCL	# Cust	Length (ft)	Estimated Cost
1	1	East	ISH - UG CR 480 Install Feeder	L	20	4,000	\$750,000
2	2	East	ISH - UG Asset Renewal BARNUM 1203 Part 2 North Wood Replacement	A	19	10,000	\$500,000
3	3	East	DLT - OH 18th St Substation Install Feeders	L	1,167	800	\$200,000
4	4	East	DLT - OH 18th St Substation 21st Road Road Reconductor	L	1,071	8,000	\$300,000
5	5	East	ISH - Barnum substation feeder exit rebuild	R	4,401	2,100	\$300,000
6	6	East	DLT - Fuller Park	R	33	5,600	\$325,000
7	7	West	KWN 927 Popeye Rock underground	RA	305	1,000	\$250,000
8	8	West	LIN 3063 Sunset Lake Part 2	RA	320	8,000	\$450,000
9	9	West	M38 747 Motley Rd Copper Replacement	RA	17	10,750	\$300,000
10	10	West	KWN 927 Rebuild to Fort Wilkins	RAL	67	4,000	\$100,000
11	11	West	HEN 1009 Replace Portage Canal UG crossings	RA	12,188	1,800	\$2,500,000
12	12	UPPCO	Cutout Replacement	RAS			\$900,000
13	13	UPPCO	Failed Underground Replacement	RA			\$188,000
14	14	UPPCO	System Hardening	RA			\$279,000
15	15			Total			\$7,342,000

	2027 Distribution SHARP CapEx Projects			RASCL	# Cust	Length (ft)	Estimated Cost
16	1	East	ISH - OH-OH CR 480 Add 2 Phases	AL	20	7,000	\$450,000
17	2	East	ISH - OH Asset Renewal FORSYTH Serenity Drive Part 2	RA	665	7,500	\$600,000
18	3	East	ISH - Reliability Improvement GWINN 657 Seass Drive-Rice Lake Tie	R	197	8,500	\$425,000
19	4	East	DLT - OH-UG MASONVILLE Reliability Improvement 33rd Road	RA	10	4,900	\$245,000
20	5	West	M38 747 Prickett Dam to Clayco Road OH-UG conversion	RA	475	7,300	\$750,000
21	6	West	OSC 719 Jacobsville OH to UG conversion	RA	150	18,000	\$500,000
22	7	West	KWN 927 Silver River Rebuild	RA	570	3,500	\$300,000
23	8	West	ELE 1125 Extension to Birch St	RA	12,188	5,500	\$1,000,000
24	9	West	HEN 1009 Remove old Canal Crossing	RA			\$500,000
25	10	West	HEN 1017 Rebuild from WHSC to Jacker Ave	RA	12,188	6,000	\$1,000,000
26	11	UPPCO	Cutout Replacement	RAS			\$900,000
27	12	UPPCO	Failed Underground Replacement	RA			\$200,000
28	13	UPPCO	System Hardening	RA			\$300,000
29	14			Total			\$7,170,000

RASCL: R – Reliability/Storm Hardening A – Age & Condition S – Safety C – Compliance/Voltage L – Load/Capacity

Upper Peninsula Power Company (UPPCO)

Historical Distribution Reliability Indices

Line

Year	All Weather						Excluding MEDs per IEEE 1366					
	SAIDI		SAIFI		CAIDI		SAIDI		SAIFI		CAIDI	
	Annual	5 yr Avg.	Annual	5 yr Avg.	Annual	5 yr Avg.	Annual	5 yr Avg.	Annual	5 yr Avg.	Annual	5 yr Avg.
2021	249	394	1.38	1.76	181	206	149	175	1.16	1.41	128	125
2022	554	390	2.22	1.79	249	201	205	181	1.48	1.46	138	124
2023	412	446	1.37	1.84	301	237	141	182	0.98	1.43	144	129
2024	391	367	1.56	1.67	250	221	187	177	1.25	1.33	149	135
2025	411	403	1.76	1.66	233	243	190	174	1.29	1.23	147	141

Data excludes transmission-caused outages.

Michigan Public Service Commission
Upper Peninsula Power Company
Historical Major Event Days ("MEDs")
2021-2025

Case No.: U-22032
Exhibit No.: A-22 (MBI-5)
Schedule:
Page: 1 of 1
Witness: Morgan B. Impola

Major Event Days (MED)				
Line	Year	TMED	# MEDs	Average Customer Count
1	2021	18.5	1	58,553
2	2022	17.3	4	58,648
3	2023	18.6	2	58,895
4	2024	19.1	2	58,840
5	2025	18.1	2	58,488

UPPCO 2021-2025 All-Weather

Line	Cause Description	SAIDI	%	SAIFI	%	# Events	%	CMI	%	Sum Cust. Out	%
1	Vegetation	1,032	51%	3.7213	45%	2,978	33%	60,567,649	51%	218,310	45%
2	Weather-Other	506	25%	1.0356	12%	947	10%	29,749,205	25%	60,805	13%
3	Equipment	164	8%	1.1761	14%	1,600	18%	9,627,684	8%	68,964	14%
4	Unknown	114	6%	0.7113	9%	842	9%	6,714,951	6%	41,768	9%
5	Public	87	4%	0.5110	6%	319	3%	5,088,121	4%	29,995	6%
6	Other	39	2%	0.2351	3%	67	1%	2,310,026	2%	13,816	3%
7	Wildlife	34	2%	0.4849	6%	1,318	14%	1,989,190	2%	28,435	6%
8	Lightning	28	1%	0.2236	3%	280	3%	1,619,590	1%	13,110	3%
9	Planned	11	1%	0.1915	2%	781	9%	671,499	1%	11,233	2%
10	5-Year Total	2,016	100%	8.2905	100%	9,132	100%	118,337,915	100%	486,436	100%

11 Data sorted by SAIDI.
12 Data excludes transmission-caused events.

UPPCO 2021-2025 Excluding MEDs

Cause Description	SAIDI	%	SAIFI	%	# Events	%	CMI	%	Sum Cust. Out	%
Vegetation	393	45%	2.4634	40%	2,144	28%	23,029,277	45%	144,491	40%
Equipment	155	18%	1.1437	19%	1,553	20%	9,091,324	18%	67,061	19%
Public	86	10%	0.5076	8%	316	4%	5,067,847	10%	29,799	8%
Weather-Other	79	9%	0.3391	5%	477	6%	4,657,144	9%	19,905	5%
Unknown	75	9%	0.6338	10%	808	10%	4,373,748	9%	37,217	10%
Wildlife	34	4%	0.4849	8%	1,318	17%	1,989,190	4%	28,435	8%
Lightning	27	3%	0.2232	4%	277	4%	1,576,583	3%	13,086	4%
Planned	11	1%	0.1914	3%	780	10%	671,477	1%	11,232	3%
Other	11	1%	0.1887	3%	38	0%	619,551	1%	11,086	3%
5-Year Total	871	100%	6.1760	100%	7,711	100%	51,076,140	100%	362,312	100%

Michigan Public Service Commission
Upper Peninsula Power Company
Line Clearance History
2021-2025

Case No.: U-22032
Exhibit No.: A-24 (MBI-7)
Schedule:
Page: 1 of 1
Witness: Morgan B. Impola

UPPCO Line Clearance History
2021 - 2025

Line			HOU	IR	ONT	ISH	MUN	DEL	UPPCO
1	2021	Miles of Line Cleared	149	22	19	109	18	59	376
2		Cost	\$1,139,889	\$168,306	\$145,355	\$833,878	\$137,705	\$451,365	\$2,876,497
3									
4	2022	Miles of Line Cleared	124	33	0	85	44	89	375
5		Cost	\$991,081	\$263,755	\$0	\$679,370	\$351,674	\$711,341	\$2,997,221
6									
7	2023	Miles of Line Cleared	152	8	18	61	69	69	377
8		Cost	\$1,292,945	\$68,050	\$153,112	\$518,879	\$586,929	\$586,929	\$3,206,845
9									
10	2024	Miles of Line Cleared	101	7	23	119	31	103	383
11		Cost	\$830,620	\$90,375	\$228,310	\$1,290,287	\$286,277	\$968,802	\$3,694,671
12									
13	2025	Miles of Line Cleared	79	45	8	67	57	57	313
14		Cost	\$877,758	\$370,184	\$149,915	\$705,396	\$663,722	\$482,049	\$3,249,024
15									
16	5-Yr Ave	Miles of Line Cleared	121	23	14	88	44	76	365
17		Cost	\$1,026,459	\$192,134	\$135,338	\$805,562	\$405,261	\$640,097	\$3,204,852

UPPCO Pole Inspection History

Line			HOU	IR	ONT	ISH	MUN	DEL	UPPCO
1	2021	#Poles Inspected	2179	359	267	1368	634	1042	5,849
2		#Danger/Reject	24	6	5	23	5	14	77
3		%	1.1%	1.7%	1.9%	1.7%	0.8%	1.3%	1.3%
4		#TREATED	323	32	77	276	48	136	892
5		%	14.8%	8.9%	28.8%	20.2%	7.6%	13.1%	15.3%
6		COST	\$55,973	\$13,411	\$11,283	\$39,714	\$14,734	\$24,148	\$159,263
7									
8	2022	#Poles Inspected	2430	447	321	1437	646	1020	6,301
9		#Danger/Reject	23	2	2	11	7	10	55
10		%	0.9%	0.4%	0.6%	0.8%	1.1%	1.0%	0.9%
11		#TREATED	463	49	100	207	111	116	1,046
12		%	19.1%	11.0%	31.2%	14.4%	17.2%	11.4%	16.6%
13		COST	\$71,908	\$12,853	\$14,339	\$51,223	\$26,023	\$29,446	\$205,792
14									
15	2023	#Poles Inspected	2546	449	290	1524	626	1049	6,484
16		#Danger/Reject	39	4	2	42	6	25	118
17		%	1.5%	0.9%	0.7%	2.8%	1.0%	2.4%	1.8%
18		#TREATED	136	40	56	160	53	111	556
19		%	5.3%	8.9%	19.3%	10.5%	8.5%	10.6%	8.6%
20		COST	\$71,689	\$13,682	\$11,417	\$46,003	\$18,483	\$29,796	\$191,070
21									
22	2024	#Poles Inspected	1892	417	306	1451	637	1084	5,787
23		#Danger/Reject	36	10	4	15	13	26	104
24		%	1.9%	2.4%	1.3%	1.0%	2.0%	2.4%	1.8%
25		#TREATED	225	81	42	140	35	130	653
26		%	11.9%	19.4%	13.7%	9.6%	5.5%	12.0%	11.3%
27		COST	\$67,270	\$13,654	\$13,045	\$46,595	\$16,196	\$23,697	\$180,457
28									
29	2025	#Poles Inspected	2098	391	213	1386	560	1153	5,801
30		#Danger/Reject	42	7	4	73	20	43	189
31		%	2.0%	1.8%	1.9%	5.3%	3.6%	3.7%	3.3%
32		#TREATED	285	42	56	170	99	126	778
33		%	13.6%	10.7%	26.3%	12.3%	17.7%	10.9%	13.4%
34		COST	\$87,725.50	\$17,842	\$13,503	\$48,517	\$24,250	\$38,425	\$230,263
35									
36	5-Yr Ave	#Poles Inspected	2,229	413	279	1,433	621	1,070	6,044
37		#Danger/Reject	32.8	5.8	3.4	32.8	10.2	23.6	109
38		%	1.5%	1.4%	1.2%	2.3%	1.6%	2.2%	1.8%
39		#TREATED	286.4	48.8	66.2	190.6	69.2	123.8	785
40		%	12.8%	11.8%	23.7%	13.3%	11.2%	11.6%	13.0%
41		COST	\$70,913	\$14,288	\$12,717	\$46,411	\$19,937	\$29,102	\$193,369

UPPCO Underground Inspection History

Line		HOU	IR	ONT	ISH	MUN	DEL	UPPCO
1	2021	#Cabinets Inspected	1147	61	176	332	95	2,192
2		Cost	\$50,439	\$3,907	\$5,861	\$10,691	\$3,607	\$15,026
3		Cabinets Refinished	52	1	0	7	4	34
4		Cost	\$19,996	\$385	\$0.00	\$2,692	\$1,538	\$13,074
5								
6	2022	#Cabinets Inspected	137	43	121	620	299	1,379
7		Cost	\$8,974	\$3,185	\$4,142	\$30,598	\$22,047	\$8,670
8		Cabinets Refinished	80	14	5	6	8	7
9		Cost	\$30,884.86	\$5,407.00	\$1,932.06	\$2,316.62	\$3,090.37	\$2,701.18
10								
11	2023	#Cabinets Inspected	574	68	46	167	138	31
12		Cost	\$24,624	\$3,021	\$1,464	\$10,449	\$8,868	\$2,012
13		Cabinets Refinished	33	3	0	40	50	1
14		Cost	\$10,343	\$796	\$0.00	\$12,729	\$15,514	\$398
15								
16	2024	#Cabinets Inspected	825	153	45	488	95	119
17		Cost	\$42,312	\$6,012	\$2,546	\$26,455	\$7,891	\$4,912
18		Cabinets Refinished	62	38	10	0	10	0
19		Cost	\$24,750.40	\$15,169.60	\$3,992.00	\$0.00	\$3,992.00	\$0.00
20								
21	2025	#Cabinets Inspected	276	52	48	254	32	110
22		Cost	\$14,365	\$2,436	\$2,437	\$14,210	\$1,413	\$6,358
23		Cabinets Refinished	48	19	0	41	4	0
24		Cost	\$16,651	\$3,388	\$0.00	\$16,320	\$814	\$0
25								
26	5-Year Ave.	#Cabinets Inspected	592	75	87	372	132	160
27		Cost	\$28,143	\$3,712	\$3,290	\$18,481	\$8,765	\$7,396
28		Cabinets Refinished*	49	15	3	22	17	9
29		Cost*	\$17,935	\$4,934	\$998	\$7,935	\$5,465	\$3,368
30								

**Underground Outage History Comparison
2021-2025**

Line

	Year	# Events	#CUST	SAIDI	SAIFI
1					
2	2021	1,792	80,546	249.1	1.4
3	2022	2,057	130,225	553.5	2.2
4	2023	1,653	80,521	411.5	1.4
5	2024	1,969	91,981	391.4	1.6
6	2025	1,661	103,163	410.5	1.8
7	Total	9,132	486,436	2,016.1	8.3
8	Average	1,826	97,287	403.2	1.7
9					
10	2021	13	162	0.30	0.0028
11	2022	10	15	0.04	0.0003
12	2023	4	10	0.04	0.0002
13	2024	20	197	0.52	0.0034
14	2025	10	106	0.31	0.0018
15	Total	57	490	1.21	0.0084
16	Average	11	98	0.24	0.0017
17					
18	2021	41	254	0.85	0.0043
19	2022	42	108	0.34	0.0018
20	2023	25	42	0.11	0.0007
21	2024	19	20	0.07	0.0003
22	2025	26	160	1.02	0.0027
23	Total	153	584	2.39	0.0100
24	Average	31	117	0.5	0.0020
25					
26	2021	68	384	0.63	0.0066
27	2022	72	329	0.59	0.0056
28	2023	64	200	1.56	0.0034
29	2024	87	140	0.28	0.0024
30	2025	58	106	0.27	0.0018
31	Total	349	1,159	3.34	0.0197
32	Average	70	232	0.67	0.0039
33					
34	2021	122	800	1.78	0.0137
35	2022	124	452	0.97	0.0077
36	2023	93	252	1.70	0.0043
37	2024	126	357	0.87	0.0061
38	2025	94	372	1.60	0.0064
39	Total	559	2,233	6.93	0.0381
40	Average	112	447	1.39	0.0076
41					
42	2021	6.81%	0.99%	0.72%	0.99%
43	2022	6.03%	0.35%	0.18%	0.35%
44	2023	5.63%	0.31%	0.41%	0.31%
	2024	6.40%	0.39%	0.22%	0.39%
	2025	5.66%	0.36%	0.39%	0.36%
	Total	6.12%	0.46%	0.34%	0.46%
	Average	6.10%	0.48%	0.38%	0.48%

Data above excludes transmission.

Michigan Public Service Commission
Upper Peninsula Power Company
Historical Maintenance Costs
2021 - 2025

Case No.: U-22032
Exhibit No.: A-28 (MBI-11)
Schedule:
Page: 1 of 1
Witness: Morgan B. Impola

Upper Peninsula Power Company (UPPCO)
Historical Maintenance Costs

Line	Year	Overhead \$	Underground \$	Total \$	% UG Cost	OH Miles	UG Miles	OH \$/Mi	UG \$/Mi
1	2021	\$6,516,136	\$671,781	\$7,187,917	9%	3,340	1,160	\$1,951	\$579
2	2022	\$8,338,676	\$670,732	\$9,009,408	7%	3,323	1,190	\$2,510	\$564
3	2023	\$8,088,391	\$694,700	\$8,783,091	8%	3,286	1,232	\$2,462	\$564
4	2024	\$9,028,853	\$928,320	\$9,957,173	9%	3,238	1,225	\$2,788	\$758
5	2025	\$9,172,105	\$624,276	\$9,796,381	6%	3,244	1,254	\$2,827	\$498
6	Average	\$8,228,832	\$717,962	\$8,946,794	8%	3,286	1,212	\$2,504	\$592

~~UPPER PENINSULA POWER COMPANY~~

~~MPSC Vol No 8-ELECTRIC~~ ~~Original Sheet No. C-20.90~~

~~C3. Standard Rules & Regulations-Line Extension Construction Policy (Closed)~~

~~SECTION III. LINE EXTENSION CONSTRUCTION POLICY Closed as of January 1, 2011. For extensions occurring after this date see Sheet No. C-19.00 - C-20.80.~~

~~A. Definitions~~

~~1. Line Extension:~~

~~A line extending from the Company's existing distribution system to the customer's meter.~~

~~2. Net Cost of Construction:~~

~~Total cost of construction less cost of right of way acquisitions, permits, and clearing.~~

~~3. Average Annual Revenue:~~

~~The average annual revenue of the connecting customer's rate classification for the previous year, as determined by the data reported in the Company's Annual FERC Form 1 Report.~~

~~4. Directly Connected Customer:~~

~~Any customer who connects to an existing line extension within 60 months from the date of the original line extension agreement.~~

~~B. General~~

~~1. A preliminary estimate for any line extension, temporary service, moving or replacement of existing facilities will be provided at any time at no cost to the customer; such estimate will not become binding on the Company. A request for a firm estimate will require a \$50.00 fee, which will be credited towards the cost of the construction of the line extension. Firm estimates will be prepared according to Standard Form No. ENGEST 94-1, and a copy will be provided to the customer.~~

~~2. Payment in full for the work requested in (B.1) above will be made by the customer, in advance, to the Company, based on the firm estimate less the \$50.00 estimate fee. Upon completion of the work, the estimate will be compared with the actual cost. Should the estimate be higher than the actual cost, the difference will be refunded to the customer, without interest. If the actual cost is greater than the estimate, there will be no additional charges to the customer unless the additional cost resulted from conditions which could not have been anticipated, controlled or discovered without undue expense. In such event, the increased cost to the customer shall be no greater than 10% of the firm estimate. Payment for additional charges due to unforeseen circumstances can be made in two equal annual installments without interest.~~

~~Continued to Sheet No. C-20.91~~

~~VP External Affairs~~
~~Green Bay, Wisconsin~~
~~Issued Under Auth. of~~
~~Mich Public Serv Comm~~
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~~In Case No: U-16166~~

~~UPPER PENINSULA POWER COMPANY~~

~~MPSC Vol No 8-ELECTRIC~~

~~Original Sheet No. C-20.91~~

~~C3. Standard Rules & Regulations-Line Extension Construction Policy (Closed)~~

~~Continued from Sheet No. C-20.90~~

- ~~3. The customer will be responsible for providing all rights-of-way easements and permits as necessary for the Company to proceed with the required work. If the customer is unable to obtain the necessary easements or permits, or an alternate route is necessary, the Company reserves the right to revise the estimate and charge the customer according to the actual costs incurred.~~
- ~~4. Scheduling of construction shall be done as soon as reasonably possible following payment in full by the customer. If the date scheduled for commencement of construction is not satisfactory to the customer, a date mutually agreeable will be established.~~
- ~~5. Where additional costs are incurred by the Company at the request of the customer, the customer shall be required to pay for such costs.~~
- ~~6. The Upper Peninsula of Michigan was excluded from the mandatory underground rules adopted by the Michigan Public Service Commission in Case No. U-3001.~~
- ~~7. Each distribution line extension shall be a separate, distinct unit and any further extension therefrom shall have no effect upon the agreements under which such extension is constructed.~~
- ~~8. At the request of a customer, existing overhead electric distribution service lines may be replaced with underground facilities where, in the opinion of the Company, such replacement is feasible and would not be detrimental to the electric service to other customers. Before replacement construction is started, the customer shall be required to pay the depreciated cost (net cost) of the existing overhead facilities plus the cost of removal, less the value of materials salvaged, and also pay the full cost of the underground installation.~~
- ~~9. The Company may designate areas where, in the Company's opinion, for aesthetic or technical reasons all installations shall be underground. All future customers in such Underground District would be subject to the applicable provisions of these rules, except that the Company reserves the right to refuse to install its facilities underground in cases where, in the Company's opinion, such construction would be impractical or present a potential detriment to other customers' service.~~
- ~~10. In areas other than declared underground areas, if the Company, for its own convenience, installs its facilities underground, the differential between estimated overhead construction costs and underground costs of such installation will be borne by the Company.~~

~~Continued to Sheet No. C-20.92~~

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Original Sheet No. C-20.92

~~C3. Standard Rules & Regulations-Line Extension Construction Policy (Closed)~~

Continued from Sheet No. C-20.91

~~C. Subdivisions~~

- ~~1. Residential subdivisions and other areas where a governmental body or owner mandates underground distribution facilities and services shall be designated as Underground Districts. The Company may also designate areas where, in the Company's opinion, such designation would be desirable for aesthetic or technical reasons. All future applicants for service in the Underground District would be subject to the applicable provisions of these rules, except that the Company reserves the right to refuse to install its facilities underground in cases where, in the Company's opinion, such construction would be impractical or present a potential detriment to other customers' service.~~
- ~~2. The Company will furnish, install, own, and maintain the entire underground electric distribution system, including the service lateral cables. The trenches for primary or secondary cables may be occupied jointly by facilities of the Company and other utilities where satisfactory agreement for reimbursement exists between the Company and other utilities. Company cables shall be separated by at least five (5) feet from paralleling underground facilities of other utilities, i.e. gas, water, etc., which do not share the same trench. The underground placement of all facilities shall be performed in compliance with Federal, State and local codes. The Company agrees to notify other utilities when maintenance of facilities requires digging in the easement and to comply with the requirements of MCL 460.701 et seq.~~
- ~~3. The service normally available from the system will be at secondary voltage, single phase, three wire, 60 Hz. When required, three phase service will be made available.~~
- ~~4. The developer or owner must provide for recorded easements or right-of-way acceptable to the Company. The easements are to be coordinated with other utilities and will include easements for street lighting cable. The easement or right of way must be cleared of all trees, stumps, and obstructions to allow trenching equipment to operate. Survey stakes indicating easements, lot lines, and grade must be in place, and the developer or owner must certify to the Company that the easements are graded to within four (4) inches of final grade before the underground distribution facilities are installed.~~

Continued to Sheet No. C-20.93

~~VP External Affairs~~
~~Green Bay, Wisconsin~~
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~~MPSC Vol No 8-ELECTRIC~~ Original Sheet No. C-20.93

~~C3. Standard Rules & Regulations-Line Extension Construction Policy (Closed)~~

~~Continued from Sheet No. C-20.92~~

- ~~5. The developer or owner will be responsible for any cost of relocating or repairing Company facilities caused by his operations or the operations of anyone under the developer or owner's directions.~~
- ~~6. Any extension from an existing distribution system or subdivision shall be considered a distinct separate unit and treated accordingly.~~
- ~~7. All costs of installation, relocation or rearrangement of facilities shall be paid by the owner.~~

~~D. Mobile Home Parks~~

- ~~1. Distribution facilities in new mobile home parks shall be placed underground.~~
- ~~2. The Company will furnish, install, own and maintain the entire underground electric distribution system including the pre meter portion of the service lateral cables for new mobile home parks.~~
- ~~3. The service for tenant loads normally available from the system will be at secondary voltage, single phase, 120/240 volt, three wire, 60 Hz. Three phase service will be made available for pumps and service installations only under terms of a separate agreement. Certain related equipment, such as pad mounted transformers, switching equipment and service pedestals may be above grade. The area must be suitable for the direct burial installation of cable.~~
- ~~4. The park owner must provide for each mobile home lot an industry recognized meter pedestal that meets the National Electrical Code and all state and local ordinances.~~
- ~~5. All costs of installation, relocation or rearrangement of facilities shall be paid by the owner.~~
- ~~6. In the event the park owner requests relocation of facilities or such facilities are endangered by change in grade, the park owner shall pay the cost of the relocation or rearrangement of the facilities.~~
- ~~7. Mobile home parks are considered residential installations for purposes of refunding.~~

~~Continued to Sheet No. C-20.94~~

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~~C3. Standard Rules & Regulations Line Extension Construction Policy (Closed)~~

~~Continued from Sheet No. C-20.93~~

~~E. Residential~~

~~1. Definitions~~

- ~~a. Year-round Residential Service Service to customer at address shown on driver's license and voter's registration card.~~
- ~~b. Seasonal Residential Service Service to customer other than year-round customer.~~

~~2. Charges~~

~~Actual cost of construction.~~

~~3. Refunds~~

- ~~a. At the time of connection, a refund will be made to the original customer or developer of three times that customer's average annual distribution revenue, not to exceed the net cost of construction.~~

- ~~b. Refunds for Direct Connections to a Residential Line Extension:~~

~~During the 60-month period immediately following the date of the original line extension agreement, the Company will make refunds, without interest, to the original residential customer for each subsequent direct connection to the line extension as follows:~~

~~1. Direct Connections Residential~~

~~A refund will be made to the original residential customer for subsequent direct connections to the original line extension by residential service customers equal to three times the average annual distribution revenue of the directly connected customer minus the net cost of construction of that direct connection. The minimum refund shall be \$500.00.~~

~~2. Direct Connections Commercial/Industrial~~

~~A refund will be made to the original residential customer for subsequent direct connections to the original line extension by commercial or industrial service customers equal to the first 24 months' actual distribution revenue (less sales tax) of the directly connected customer minus the net cost of construction of that direct connection. The minimum refund shall be \$500.00.~~

~~Continued to Sheet No. C-20.95~~

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~~MPSC Vol No 8-ELECTRIC~~ ~~Original Sheet No. C-20.95~~

~~C3. Standard Rules & Regulations Line Extension Construction Policy (Closed)~~

~~Continued from Sheet No. C-20.94~~

~~e. Notwithstanding any of the above, the total of all refunds to the original residential line extension customer or developer shall not exceed the original customer's net cost of construction.~~

~~F. Commercial/Industrial~~

~~1. Charges~~

~~Actual cost of construction.~~

~~2. Refunds~~

~~a. An amount equal to each month's actual distribution revenue shall be credited to the original commercial/industrial customer's monthly billing, (less sales tax) for a period of 24 months. The refund shall be limited to the net cost of construction.~~

~~b. Refunds for Direct Connections to a Commercial Line Extension:~~

~~During the 60-month period following the date of the original line extension agreement, the Company will make refunds, without interest, to the original commercial/industrial customer for each subsequent direct connection to the line extension as follows:~~

~~1. Direct Connections - Residential~~

~~A refund will be made to the original commercial/industrial customer for subsequent direct connections to the original line extension by residential service customers equal to three times the average annual distribution revenue of the directly connected customer minus the net cost of construction of that direct connection. The minimum refund shall be \$500.00.~~

~~2. Direct Connections - Commercial/Industrial~~

~~A refund will be made to the original commercial/industrial customer for subsequent direct connections to the original line extension by commercial or industrial service customers equal to the first 24 months' actual distribution revenue (less sales tax) of the directly connected customer minus the net cost of construction of that direct connection. The minimum refund shall be \$500.00.~~

~~Continued to Sheet No. C-20.96~~

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~~MPSC Vol No 8 ELECTRIC~~ ~~Original Sheet No. C-20.96~~

~~C3. Standard Rules & Regulations-Line Extension Construction Policy (Closed)~~

~~Continued from Sheet No. C-20.95~~

- ~~e. Notwithstanding any of the above, the total of all refunds to the original commercial/industrial line extension customer shall not exceed the original net cost of construction.~~

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UPPER PENINSULA POWER COMPANY

MPSC Vol No 8 - ELECTRIC
19.00

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

Original Replaces 1st Rev.

Sheet No. C-19.00

C3. Standard Rules & Regulations-Line Extension Construction Policy

SECTION III. - LINE EXTENSION CONSTRUCTION POLICY ~~For extensions occurring prior to January 1, 2011 see Sheet No. C-20.90 - C-20.96.~~

EFFECTIVE IN All territory served.

1. DEFINITIONS

a. Extension

An extension is defined to include right-of-way, permits, easements, poles, conductors and appurtenances used in extending the distribution system and service facilities from the company's existing facilities to a point of connection with customer facilities. An original extension includes all facilities installed to render service to the location(s) requested by the applicant(s) to serve the location(s). Any customer addition to an extension with an added investment that is less than the extension allowance(s) of these extension rules shall be considered part of the original extension. Customer additions that require an added investment exceeding the extension allowances shall be considered as separate new extensions.

b. Distribution System

All primary and secondary wire or cable and its supports, trenches, connection equipment and enclosures, control equipment, right-of-way preparation, etc., necessary to extend electric service to points of connection with service facilities.

If enlargement or extensions of transmission facilities are required, the company shall submit a request to the transmission owner for review. If approved, the transmission owner will create an estimate for the necessary modifications to the transmission system to serve the customer load, if any be treated as if they are a part of the distribution system. However, the customer must sign a contract listing costs, the customer obligation to the transmission owner as well as to the company for required modifications to serve the customer load, company obligation, and supporting analysis. This contract shall be submitted to the Michigan Public Service Commission for approval. The Commission will assess whether existing rate payers will be adversely affected and will respond within 20 working days. Costs associated with required filings, engineering, and construction are to be paid by the customer, or secured with a line of credit, in advance of construction.

c. Service Drops or Laterals

The overhead line (service drops) or underground line (service lateral) between the transformer or distribution system (excluding any risers at a pole) and the building wall or other customer structure as determined by the company.

Continued to Sheet No. C-19.100

Issued XX12-XX22-XX10
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X1-X1-XX11
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Green Bay, Wisconsin Marquette, Michigan
Mich Public Serv Comm

Effective for
On and After:

Dated: XX12-XX21-XX10
In Case No: U-16166XXXXX

UPPER PENINSULA POWER COMPANY

MPSC Vol No 8 - ELECTRIC
No. C-19.10

Original-1st Rev. Sheet

Replaces Original Sheet No. C-19.10

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C3. Standard Rules & Regulations-Line Extension Construction Policy

Continued from Sheet No. C-19.00

1. d. Service Facilities
Includes transformers, service drops or laterals, lighting equipment, and meters.
- e. Electric Facilities
Includes both the distribution system and the service facilities.
- f. Investment
Includes the cost of all distribution system equipment installed to render the requested service as well as the cost of installing the equipment and any associated maintenance incurred in the process of extending facilities to render the requested service. Standard service facilities (transformers, services, lighting equipment, and meters) are installed at no cost to the customer and are not considered part of the investment when applying these extension rules (see Section 2 for definition of standard facilities).
- g. Development Period
A period of five years immediately following the energizing of an extension. An extension is considered energized when the line is electrically connected to existing company facilities. Accordingly, an energized circuit does not necessarily require individual customer service drops and meters. The energizing of the original portion of the extension shall be the date used for purposes of determination of the five-year development period and shall apply to all additions to the original extension. The definition of an extension, as contained in Section 1.a. of these extension rules, shall determine what is considered an addition to the original extension.

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h. Standard Facilities

It is the intent of the company to provide safe, reliable service at the lowest reasonable cost following accepted engineering and planning practices to design and install facilities that consider normal growth in the area of the service extension, yet not overbuild or overdesign facilities which result in unnecessary cost increases to the company and its customers.

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i. Standard Service Lengths

1-phase		3-phase	
100A	125 ft	100A	125 ft
200A	125 ft	200A	125 ft
400A	125 ft	400A	125 ft
600A	125 ft	600A	125 ft

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800A	100 ft	800A	100 ft
		1000-1200A	75 ft
		1600-2000A	50 ft
		2500-3000A	25 ft

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UPPER PENINSULA POWER COMPANY

MPSC Vol No 8 - ELECTRIC
C-19.20

Original 1st Rev. Sheet No.

Replaces Original Sheet No. C-19.20

C3. Standard Rules & Regulations-Line Extension Construction Policy

Continued from Sheet No. C-19.10

1. j. Site Ready

A customer's premises and/or the construction site is deemed to be ready for electric facilities installation when the customer has made any required payments and/or signed contract, all approved permits and fully executed easements have been received, a trench route is cleared and graded to within 6" of the final grade, a meter socket has been installed and inspected, and there is evidence for the continuing need for electric service.

2. GENERAL POLICY

It is the intent of the company to provide safe, reliable service at the lowest reasonable cost following accepted engineering and planning practices to design and install facilities that consider normal growth in the area of the service extension, yet not overbuild or overdesign facilities which result in unnecessary cost increases to the company and its customers.

The company shall extend, enlarge, or change its facilities for supplying electric service in accordance with the following:

- a. The company shall provide, own, and maintain the electric facilities. The company, if practical, will discuss with the applicant the character and location of such facilities, service connections, and meters. Final determination, however, shall be at the sole discretion of the company.
- b. Standard voltages available to new customers and enlargement of service include shall be in accordance with filed rules of the company. (See Available Service Voltages-120/240V 1-phase, and 120/208V or 277/480V 3-phase.)
- c. The company will use reasonable care, but shall not be liable for damage to trees, lawns, shrubs, fences, sidewalks, or other obstructions, incident to installation, repair, or replacement of electric facilities unless such damage is due to negligence on its part.
- d. If the company is not assured as to the stability and economic feasibility of any project, a suitable payment, an extension of the term of contract, and/or a minimum annual guarantee over such term may be required. The reasons and supporting analysis for each contract entered into under this provision will be furnished the customer and the Michigan Public Service Commission in writing. The company will inform the customer of the customer's right to ask the Commission for a review of the extension costs and contract provisions. Refer to Section 5, Uneconomic Extensions.
- e. The calculation of company investment as applied in these extension rules shall be the based-on-average estimated investment costs based on current average fully loaded costs for similar types of company installations-labor, equipment, and material, and any contractor costs necessary to serve the customer load.

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	Dated: 12-21-10
	In Case No: U-16166

UPPER PENINSULA POWER COMPANY

MPSC Vol No 8 - ELECTRIC

1st Rev. Sheet No. C-19.30
Replaces Original Sheet No. C-19.30

C3. Standard Rules & Regulations-Line Extension Construction Policy

Continued from Sheet No. C-19.20

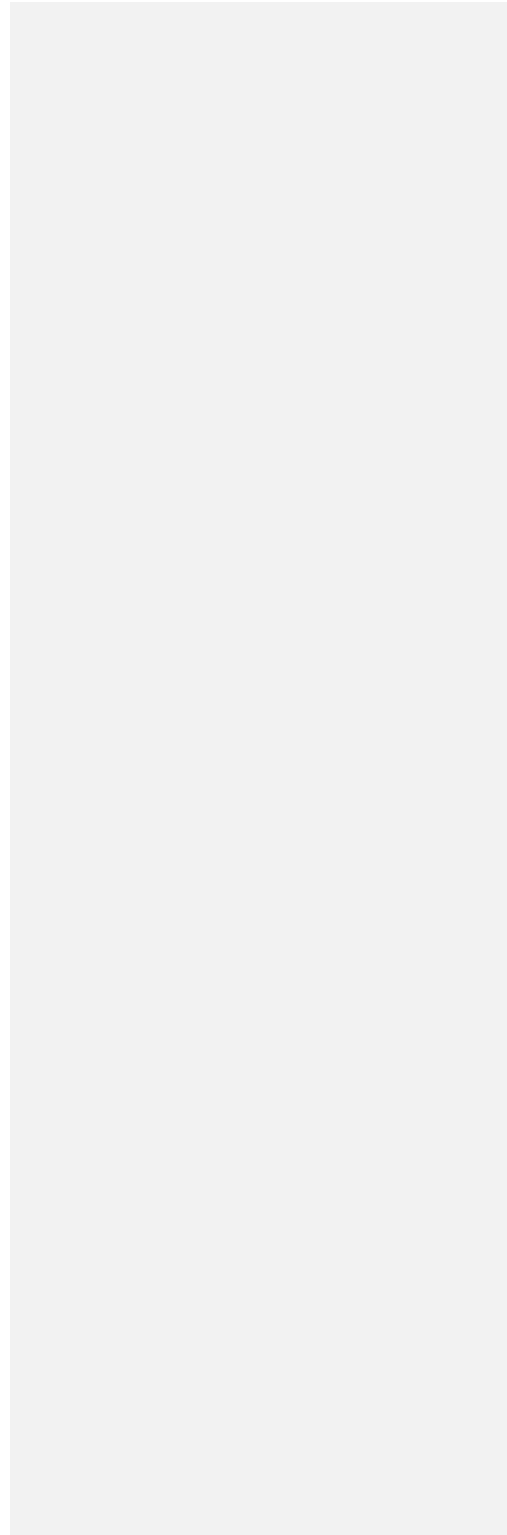
- R 2. f. At the request of the Company, the applicant shall locate and mark
R permanent survey stakes indicating property lines and shall furnish,
R at no expense to the Company, recordable easements granting
R rights-of-way satisfactory to the company for the design,
R installation, operation, and maintenance of the electric facilities
along the entire route determined by the company. The rights-of-way
on applicant's property as designated by the company shall be cleared
of trees and other obstructions at applicant's expense. No buildings
or trees shall be placed on said rights-of-way. The rights-of-way may
be used for gardens, shrubs, landscaping and other purposes if they
will not interfere with maintenance of electric facilities.
- g. Customers may be required to execute a contract for electric service.
- h. Underground electric facilities are available subject to the following conditions:
- 1) Prior to installation of underground electric facilities, the applicant, if requested by the Company, shall enter into a written contract with the Company describing the proposed facilities and setting forth the respective agreements of the applicant and the Company in regard to such facilities. Such contract shall be subject in all respects to the provisions of this underground policy.
 - 2) Underground electric facilities shall not be installed beneath farm fields, swamp land, gravel pits, etc.
 - 3) The Company shall be notified in advance of any change in grade levels. Any and all costs incurred as a result of such change shall be at the expense of the responsible party.
 - 4) Nothing in this underground policy prevents the Company from constructing overhead transmission or distribution lines into or through an area containing underground electric facilities.

Continued to Sheet No. C-19.40

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UPPER PENINSULA POWER COMPANY

MPSC Vol No 8 - ELECTRIC
19.40

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

Replaces ~~Original-1st Rev.~~ Sheet No.

C-19.40

C3. Standard Rules & Regulations-Line Extension Construction Policy

Continued from Sheet No. C-19.30

2. h. 5) In the event the company is required by law, ordinance, etc., to install underground facilities, the provisions of this policy including payment obligations shall apply.
- 6) If in the opinion of the company installations of underground facilities are more feasible, for reasons of safety, cost, reliability, etc., than overhead facilities, the company will install facilities underground. Any payments required under these extension rules shall be applicable.
- R 7) ~~When requested,~~ Customers served by underground facilities shall provide suitable space for padmounted equipment, including required barriers or vaults, at no cost to the company.
- R 8) The company, at its discretion, when requested by one or more applicants shall install, when and where feasible, underground electric distribution systems under the following conditions:
- a) The applicant shall furnish a recorded plat, certified survey map, recorded plat of survey or recorded survey map showing the location and nature of the area for which the underground electric distribution system is being requested. The area supplied from the underground distribution system shall be specifically defined. The characteristics, nature, and amount of initial electric load to be served shall be indicated. Said recorded plat or map shall include a statement that underground service is required within this area.
- b) The applicant shall provide, at no expense to the Company, grading within six inches of finished grade of the area covered by the rights-of-way so that the underground distribution system and the street lighting cables, if any, can be properly installed in relation to the finished grade. The character and location of the street lighting facilities shall conform to specifications prepared by the company.
- D

Continued to Sheet No. C-19.50

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19.50

C3. Standard Rules & Regulations-Line Extension Construction Policy

Continued from Sheet No. C-19.40

2. h. 9) The company, at its discretion, 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. 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 distribution facilities installed in the Company's service territory between November 1 and April 15. The Winter Construction Charge will not be charged, however, if the customer's application for subdivisions service is received by the Company prior to September 1, and the customer's premises and/or the construction site is ready for underground facilities installation (as defined in Section 1.j) prior to October 1, and the company receives the total advance customer payment required for the installation of facilities prior to October 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 November 1 and April 15. The Winter Construction Charge will not be charged, however, if the application for service is received by the Company prior to September 15 and the customer's premises and/or the construction site is ready for underground facilities installation prior to October 15, and the company receives the total advance customer payment required for the installation of facilities prior to October 15.

2. The Winter Construction Charges, or a portion thereof, may will be waived-reimbursed by the Company if the Company's underground contractors do not actually charge the Company for winter construction conditions are not encountered during construction.

3. Winter Construction Charges are in addition to any other charges contemplated in these rules, and are non-refundable, except as noted. The company reserves the right to delay underground facilities installation during winter conditions if it may jeopardize the integrity of the installation and future reliability of the system.

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UPPER PENINSULA POWER COMPANY

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C-19.60

Original 1st Rev. Sheet No.
Replaces Original Sheet No. C-19.60

C3. Standard Rules & Regulations-Line Extension Construction Policy
Continued from Sheet No. C-19.50

D

~~4. A customer's premises and/or the construction site is deemed to be ready for underground facilities installation when the dwelling foundation wall is installed and back-filled, and a trench route is cleared and graded to within 6" of the final grade.~~

3. STANDARD UNDERGROUND OR OVERHEAD EXTENSION RULES

The allowances in this section are for the installation of electric facilities that are considered as standard design for the company and apply equally to standard underground and/or overhead facilities in all Michigan retail service territory served by the company. Each extension as defined in Section 1.a. of these extension rules shall be treated as a separate extension in accordance with this Section 3.

a. General Requirements

Applicants for electric service shall pay, in advance of construction, the total estimated cost of the distribution system required as specified in section 1.f. The applicant qualifies for extension allowances on lots meeting the criteria of section 3.b.1). The applicant shall specify in writing the lot numbers, addresses or other appropriate identification of the locations electric service is desired under the application, including load estimates if requested. The applicant shall be eligible for refunds as outlined in section 3.b.5) a).

b. Extension Allowance Qualifications (Developments and Non-Developments)

1) One of the following two criteria, a) or b) below, shall qualify a customer for the extension allowances of Section 3.b.2) of these extension rules:

a) An existing or future building structure site to which service is requested shall:

- (1) Be on a tract of property in a final state-approved and recorded plat, or a building site approved by a municipality and on a municipal sewerage system, or have an approved "State and County Permit Application for Private Domestic Sewage Systems" and,
- (2) Have the structure or some portion thereof completed in a manner that indicates it will be a permanent structure (i.e., foundation, concrete slab, etc.) or building permit for said structure or,
- (3) Have permanent water and sewer facilities installed for mobile home court lots.

Commented [JR1]: Move this to the Definition Section with a reference to the new definition in the WCC section. Also need to re-define "dwelling foundation" to something else, like "permanent load needed"

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2nd3rd Rev. Sheet No. C-

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

19.70

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 during a rate case proceeding.
- 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:

Customer Class	Allowance
Residential - Year Round	\$ <u>530</u>
Residential - Seasonal	\$ <u>265</u>
Commercial and Industrial (Energy Only)	\$ <u>770</u>
Commercial and Industrial (Energy and Demand)	\$ <u>86</u> /kW

- 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 and the customer-provided load study will be used as a basis for developing the demand estimate. The Company reserves the right to review and recalculate the extension allowance after 12-months of actual service usage and the five year development period in cases where the customer fails to meet the estimated demand used in the original calculation may be charged a true-up and the recalculated value shall be used to determine the refundable amount during the 5-year developmental period. A customer who exceeds the expected demand would be entitled to a refund, if applicable, of the recalculated allowance difference. The in-service date shall be the same date as noted in section 1.g.

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~~UPPER PENINSULA POWER COMPANY~~

~~MPSC Vol No 8 - ELECTRIC 1st Rev. Sheet No. C-19.80~~
~~(To combine cancelled tariff sheets) 1st Rev. Sheet No. C-19.90~~

~~These sheets have been cancelled and
are reserved for future use.~~

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VP External Affairs

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C3. Standard Rules & Regulations-Line Extension Construction Policy

Continued from Sheet No. C-19.70

3. b. 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, customer-required design changes, 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 ~~\$100~~10%. 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.~~

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No. C-20.10

C3. Standard Rules & Regulations-Line Extension Construction Policy

Continued from Sheet No. C-20.00

3. b. 5) 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.

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 1-1-83 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 customers 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 company or the contractor employees arrives to find the site it is not ready for the installation of facilities, the customer shall be responsible for all costs associated with the return to the site and billed accordingly.

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C3. Standard Rules & Regulations-Line Extension Construction Policy

Continued from Sheet No. C-20.10

4. MISCELLANEOUS EXTENSIONS

a. Temporary Extension

The customer shall pay the entire estimated cost of connecting and disconnecting temporary service, including the estimated cost of installation and removal of any poles, wires, transformers, meter equipment, other facilities and maintenance incurred as part of the installation and removal, less salvage. These charges shall be in addition to the rate applicable to the type of service supplied.

b. Special Facilities

The company shall install only those standard facilities as defined in 1.h. and deemed necessary to render service in accordance with the tariff schedules. If the applicant requests special facilities or added costs in addition to the standard facilities normally installed or costs normally incurred by the company, the extra investment or cost shall be paid by the applicant. This payment shall be made in advance of construction. The company reserves the right to deny the installation of special facilities.

The contributor shall be eligible for refunds under section 3.b.5) on payments for non-standard distribution system facilities and transformers. Payments for frost removal and non-standard service facilities other than transformers shall be non-refundable.

c. Enlargement of Capacity (Including changes from single-phase to three-phase.)

1) System

Customers requiring an enlargement of capacity shall receive an extension allowance based on section 3.b.2)-d) for the incremental load being added. The customer shall make a refundable cash payment in advance of construction equal to the investment in standard new facilities that exceeds the extension allowance.

When a specific customer can be identified as being responsible for the enlargement, the following extension allowances shall be used:

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C3. Standard Rules & Regulations-Line Extension Construction Policy

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4. c. 1) a) Commercial, and Industrial

(1) Customers Billed on Energy-only Basis

The extension allowance in section 3.b.2)-d)-~~(2)~~ based on the new load minus the extension allowance in section 3.b.2)-~~(d)~~ ~~(2)~~-based on existing load.

To reduce potential neutral voltage problems, the company may, at its own option and cost, provide for farm customers distribution system instead of standard service drop or lateral facilities.

(2) Customers Billed on Demand and Energy Basis

The increase load multiplied by the extension allowance in section 3.b.2)-d)-~~(3)~~.

This method is also used for customers moving from energy-only to demand and energy billing.

b) Residential

The extension allowance in Section 3.b.2)-d) that the customer qualifies for after the upgrade minus the extension allowance the customer qualified for before the upgrade. This includes customers moving from a Residential rate to a Commercial or Industrial rate.

2) Services

Customers requiring an enlargement of service facilities due to a significant load increase shall be treated as a new customer with respect to making contributions for standard or non-standard service facilities.

d. Replacement, Relocation and/or Rebuilding of Existing Facilities

This includes replacement of overhead facilities with underground facilities.

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C3. Standard Rules & Regulations-Line Extension Construction Policy

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4. d. 1) Distribution System Facilities
In addition to any other payments required by these extension rules, applicant or the customer responsible, when responsibility can be determined, shall be required to pay all costs associated with the new construction, including maintenance incurred in the process of replacement, relocation, and/or rebuilding, less salvage value on salvageable items and used life credit on non-salvageable items. Any costs associated with relocating, rewiring, etc., of customer-owned equipment or restoration of lawns, driveways, patios, etc., shall be the customer's responsibility. Street and private lighting ~~conversions from mercury vapor to high pressure sodium shall follow procedures set forth in the company's conversion program~~ installations shall be treated as line extensions when new facilities beyond one pole and/or one span of overhead secondary wire is required to serve the new lighting facilities.
- 2) Service Facilities
a) Overhead to Underground Service Replacements
For replacement of an overhead service drop with an underground service lateral, the customer requesting the replacement shall be required to make a contribution ~~equal to based on the cost of the company's current estimated cost~~ for underground service service replacement -lateral in addition to less the cost to remove of an equivalent the overhead service drop less any allowance for upgrades per section 4.c.2).
- b) Transformers and Other Service Replacements/Relocations
(1) Where Existing Facilities are Salvageable
The customer requesting the replacement shall be required to make a contribution equal to the costs of labor associated with the removal of the existing facilities and the installation of the new facilities.

(2) Where Existing Facilities Are Not Salvageable
Section 4.d.1) shall apply.
- 3) Credit Allowances
Where the replacement, relocation, or rebuilding of existing facilities is required to avoid creating a code violation or to correct an existing code violation, a \$200 credit shall be applied to the customer payment required in 4.d.1) and 2).
- 4) Refunds
The contributor shall be eligible for refunds under Section 3.b.5) for distribution system facilities payments if:
a) The contributor is the customer receiving service on the property or the owner of a rental property whose tenants are receiving service on the property; and

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C3. Standard Rules & Regulations-Line Extension Construction Policy

Continued from Sheet No. C-20.40

4. d. 4) b) ~~The existing facilities are on or within six feet of the contributor's property, and~~
e) The new facilities significantly enhance the possibility of serving new customers as part of an original extension as defined in Section 1.a.
- e. Other
Any extensions not covered by these extension rules shall be made in accordance with the principles of these rules and the customer shall pay for any investment in excess of the appropriate extension allowance.
- f. Electric services:
The Company will provide an allowance to cover the cost of a standard electric service up to a maximum length of 125 feet based on the customer's main disconnect size. Standard service lengths are defined in 1.i. The customer will be responsible for a contribution payment pertaining to the following costs of an electric service:
- 1) Portion of service that exceeds 125' in the standard service length.
 - 2) Nonstandard installation costs.
 - 3) Special facilities installed at the discretion of the Company to provide a safe and reliable service or as requested by the customer and approved by the Company.
 - 4) Winter construction charges.

~~Customer payment will be the result of the following formula:~~

~~Contribution = [(ACTF x ACTR) - (AF x AR)] + (SFC + WCC) where:~~

~~ACTF = Actual footage length of electric service.~~

~~ACTR = Actual per foot rate consisting of standard costs plus nonstandard costs.~~

~~AF = Allowance footage length (Actual footage length not to exceed 125 feet).~~

~~AR = Allowance rate for standard installation costs.~~

~~SFC = Special Facility Charges.~~

~~WCC = Winter Construction Charges.~~

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UPPER PENINSULA POWER COMPANY

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C3. Standard Rules & Regulations-Line Extension Construction Policy

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Green Bay, WisconsinMich Public Serv Comm

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Dated: 12-19-13

In Case No: U-17274

UPPER PENINSULA POWER COMPANY

D

MPSC Vol No 8 - ELECTRIC
20.70

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

Replaces Original 1st Rev. Sheet

No. C-20.70

C3. Standard Rules & Regulations-Line Extension Construction Policy

Continued from Sheet No. C-20.540

5. UNECONOMIC EXTENSIONS

~~Proposed extensions may be reviewed for economic considerations. If the cost of an extension exceeds five times the extension allowances, shown in Section 3.b. The company may require a contract with the customer, reserves the right to make special contractual arrangements as to the provision of necessary Service Facilities, duration of contract, amount of deposit and refunds thereon, minimum bills or other service conditions with respect to prospective customers whose load requirements exceed the capacity of the available distribution system in the area, or whose load characteristics or special service needs require unusual investments by the Company, or where there is not sufficient assurance of the permanence of the use of the service. If approved for service under this section, the required distribution facilities will be installed as Special Facilities.~~
Under the terms of the contract, the customer shall be required to pay an additional monthly payment equal to the recurring estimated operation and maintenance expenses associated with that portion of the extension that is in excess of five times the average embedded cost extension allowance as defined in Section 3.b.2)d) at the time the extension was made. The reasons and supporting analysis for each contract will be furnished to the customer and the Michigan Public Service Commission in writing. ~~The company will inform the customer of the customer's right to ask the Commission for a review of the extension costs and contract provisions.~~

6. EXCEPTION TO EXTENSION RULE PAYMENTS

If the total payment required from the application of all sections of these extension rules totals less than \$20-100 from one customer or applicant, said payment shall be waived. This rule shall amend all sections of these extension rules.

7. COLLECTION OF CUSTOMER CONTRIBUTIONS FOR CONSTRUCTION:

~~a. If the total advance customer payment required for the installation of an electric service is less than or equal to \$20, the advance customer payment will be waived. If the total advance customer payment required for the installation of an electric service line is greater than \$20, the Company will bill the customer and require payment in advance of construction of the electric service line.~~

~~b. If the total advance customer payment required from the application of all sections of these extension rules except the costs associated with the installation/removal of electric service facilities (Advance Customer Payment) is less than or equal to \$20, the Advance Customer Payment will be waived. If the total Advance Customer Payment required is greater than \$1020, the Company will bill the customer and require payment in advance of construction of the electric facilities.~~

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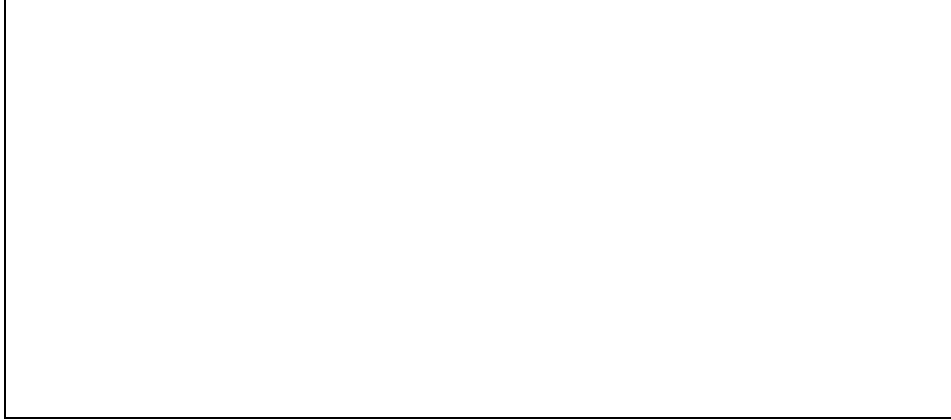
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By D-M-DerricksG Haehnel
After: X1-X1-XX14
Asst. VP - Regulatory Affairs President and CEO
Issued Under Auth. of
Green Bay, Wisconsin Marquette, Michigan
Mich Public Serv Comm

Effective for
On and

Dated: XX12-19XX-XX13
In Case No: U-XXXXX17274

UPPER PENINSULA POWER COMPANY

MPSC Vol No 8-ELECTRIC
D-60.10

____—~~2nd~~1st Rev. Sheet No.

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No. D-60.10

D2. Street Lighting Service - Rules		SL-X
1)	<u>DEFINITIONS</u> Governmental authorities are defined as any tax supported body or one of its instrumentalities.	
2)	<u>PAYMENT OF BILLS</u> 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.	
R	3) <u>SERVICE RULES</u>	
	a) Service is governed by the Company's Standard Rules and Regulations.	
R	b) <u>Ownership</u>	
	1) <u>Company-Owned Lighting System (SL-6)</u>	
	a) The Company shall own, operate, and maintain the entire street lighting system, including circuits and lighting fixtures.	
	b) The Company will be responsible for all future group replacement or ornamental systems. The decision to replace ornamental equipment will be at the sole discretion of the Company and will take into consideration good utility operating practice and the desires of the governmental authority.	
	c) Upon request and at the expense of the governmental authority, the Company will relocate any fixtures or change the position of any lamp.	
N	d) Customers requesting ornamental facilities will be required to pay a special facilities payment of 24% of the cost difference between standard lighting facilities and ornamental lighting facilities in advance for system maintenance. Standard lighting facilities shall be defined as a standard cobrahead lighting fixture on a standard utility pole. This payment is due upon installation of the facilities.	
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R	e) <u>For service under this schedule, installation of the unit must be on an existing utility pole upon which the Company's secondary lines are already attached.</u>	Formatted: Indent: Left: 1.18", Hanging: 0.44", Tab stops Not at 2.8"
R	f) <u>The customer shall make a special facilities, non-refundable payment for any conductor costs over 200 feet or for additional poles that are required to support the area light secondary.</u>	
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	2) <u>Customer-Owned Ornamental System (SL-5)</u>	
	a) The governmental authority shall own the system, including switching equipment and the connecting cable to the Company's system.	
	b) Systems must be of a design and in a condition satisfactory to the Company.	
	~~c) Replacement of governmental authority owned equipment shall be at the expense of the governmental authority.~~	
D	~~d) The system may be served by either multiple or series type circuits as agreed upon between the customer and the Company.~~	

Continued on Sheet No. D-60.20

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Issued: ~~XX12-XX21-XX11~~
Service

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By ~~G Haehnel~~ ~~J F Schott~~
~~XX1-XX1-XX12~~

On and After:

~~VP Regulatory Affairs~~ President and CEO

Issued Under Auth. of
~~Green Bay, Wisconsin~~ Marquette, Michigan

Mich Public Serv Comm

Dated: ~~XX12-XX20-XX11~~
In Case No: U-~~16417~~ XXXXXX

UPPER PENINSULA POWER COMPANY

MPSC Vol No 8-ELECTRIC
60.20

~~1st-2nd~~ Rev. Sheet No. D-

D-60.20

Replaces ~~Original-1st~~ Sheet No.

D2. Street Lighting Service - Rules

SL-X

Continued from Sheet No. D-60.10

- ~~c) Replacement of governmental authority owned equipment shall be at the expense of the governmental authority.~~
- ~~d) The system may be served by either multiple or series type circuits as agreed upon between the customer and the Company.~~
- e) The customer must make the Company aware of any changes the customer makes to poles and fixtures after initial installation. This includes but is not limited to changes in location and wattage.
- c) Maintenance - Customer-Owned Ornamental System
- 1) The following items are considered normal maintenance of customer owned ornamental lighting and will be replaced or maintained at Company expense within the contract:
- a) Underground and/or overhead cables: All breaks or open circuits except those caused by accidents, improper installation, foreign digging operations or deterioration due to aging and/or absorption of moisture. Deterioration due to aging is to be determined by the Company.
- b) Ballasts, luminaires, photo electric controls, lamps, refractors and relays that the company normally stocks for standard systems. The customer shall be responsible for any repairs (including parts and labor) of equipment after the expiration of the contract.
- c) The acquisition of repair and maintenance items and the cost of items which the Company does not consider standard facilities shall be the responsibility of the customer. The labor to replace this failed equipment is included in the monthly rates.
- 2) All other maintenance, replacement or repair costs other than those listed shall be the responsibility of the customer.
- 3) On customer owned lighting, damage claims shall be billed to the customer. It is the customer's responsibility to collect from the party who was responsible for the damage.
- d) All lights will be turned on at approximately fifteen minutes after sunset and off at approximately thirty minutes before sunrise.
- e) Individual locations with vandalism records will be reported to the customer, and the customer is given the option of:
- ~~1) Continuing service with the provision that future replacements due to continued vandalism at that location will be at the customer's expense,~~
- ~~1) Continuing service but at a different location, or,~~
- ~~2) Continuing service but at a different location, or,~~
- ~~3) Discontinuing service at that location.~~
- ~~3) Discontinuing service at that location.~~

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~~f) Requested higher than standard mounting heights are considered a refundable special facility. The customer is required to pay the cost difference of a standard pole and the special pole.~~
Continued on Sheet No. D-60.30

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UPPER PENINSULA POWER COMPANY

MPSC Vol No 8-ELECTRIC
No. D-60.30

Original-1st Rev Sheet

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60.30

D2. Street Lighting Service - Rules

SL-X

Continued from Sheet No. D-60.20

f) Requested higher-than-standard mounting heights are considered a refundable special facility. The customer is required to pay the cost difference of a standard pole and the special pole.

g) Customers shall pay time and material costs for installations of lights in areas that the customer has previously requested removal of lights if both requests happen within a twelve-month time period.

h) For times a customer requests the Company to remove or derate 25 or more lamps, the Customer and Company may mutually agree in writing to a schedule reflecting the requested changes in the customer's monthly billing. The Company will have the sole discretion in determining when the actual necessary field work is completed. All removal and deratings are at the expense of the customer.

4) SHORT TERM SERVICE HOLIDAY/DECORATIVE LIGHTING

Subject to company approval, the Company will allow municipal customers to make temporary attachments of holiday lighting and/or decorations on Company-owned light poles. The customer must execute an annual agreement for such attachments, and must meet all conditions thereof. Estimated energy consumption will be billed under the current C-1 energy rate. Time and material charges for installation, removal or associated maintenance may also apply.

5) TERM OF CONTRACT

Minimum period of three years subject to automatic renewal periods of one year each. The contract may be terminated at the end of any yearly period upon 90 days written notice by either party. If the contract is terminated before the three year period, the customer may be responsible for the lesser of the cost of removal or the remaining monthly charges.

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Mich Public Serv Comm

Dated: ~~XX12-XX20-XX11~~
In Case No: U-~~XXXXXX16417~~

QUALIFICATIONS OF JOHN S. THOMPSON, PHD

Exhibit JST-1

Curriculum Vita
John S. Thompson, Ph.D.
thompsonadvisoryllc@gmail.com



John Thompson holds a Ph.D. in Economics and a B.S. in Accounting. He has been consulting for approximately twelve years, including at the firms Thompson Advisory, LLC; FINCAP, Inc.; EmployStats and Econ One Research. John consults and sponsors testimony in the regulated utility sector on financial topics such as cost of capital, which require the application of financial models in order to estimate reasonable returns on equity for regulated utilities. He also consults and sponsors testimony on cases involving economic damages, often involving business and labor market disputes. In this capacity, his work has involved analyses of business damages in numerous industries, analyses of lost earnings in various labor markets, and assessments of efforts to find mitigating employment. All told, John has performed quantitative analyses, critiqued other experts' analyses, prepared written testimony, and given oral testimony in numerous state and federal cases.

Previously, John taught for approximately seventeen years at the university level, most recently in the McCombs School of Business and the Department of Economics at the University of Texas, where he taught in the MBA and Executive MBA programs. As part of this teaching, he lectured on economic topics including revenue and cost structure, contribution margins, market structure and competition, opportunity cost and economic profits; financial topics such as risk and return, discounted cash flows, discount rates and the cost of capital; and statistical and econometric topics such as sampling, OLS regression, and econometric modeling. John also taught undergraduates and MBAs in the Krannert School of Management at Purdue University.

Thompson Advisory, LLC

Education and Training

Ph.D. in Economics, Auburn University, 1998.
Specializations in Industrial Organization and International Economics.
Dissertation on empirical methods in antitrust economics.

B.S. in Accounting, Kansas University, 1994.

Certified Valuation Analyst, National Association of Certified Valuation Analysts, 2010.

Consulting

Thompson Advisory, LLC • Principal, 2024–present. Preparation of testimony concerning business, employment and personal injury damages, and return on equity for regulated utilities. Clients have included an international electricity producer, and regulated North American gas and electric utilities.

FINCAP, Inc. • Consultant, 2019–present. Preparation and support of direct and rebuttal testimony concerning return on equity for regulated utilities in approximately 78 proceedings (as of December 2024) before state regulatory commissions and the Federal Energy Regulatory Commission. Clients have included regulated gas and electric utilities.

EmployStats • Consultant, 2015–present. Preparation and support of direct and rebuttal testimony in approximately 42 proceedings (as of December 2024), focusing primarily on damages analyses related to business disputes such as breach of contract, covenants not to compete, and lost earnings capacity from employment disputes. Has also assisted with impact studies and class certification cases. Industries have included apartment complexes, real estate development, oilfield services, medical devices and physician services.

Corporate Sciences • Senior Manager and Economist, 2005–2006. Worked with managing principal to analyze damages and value privately held businesses.

Econ One Research • Economist, 2002–2005. Worked with managing principal, senior economists and analysts to analyze damages related to antitrust and intellectual property disputes.

Teaching

University of Texas • Lecturer (finance and economics), 2015–2020. Taught microeconomic theory, microeconomic theory for business, MBA microeconomics and introduction to microeconomics.

Purdue University • Continuous Term Lecturer (economics), 2012–2014. Taught intermediate microeconomics, MBA macroeconomics, principles of macroeconomics and game theory. Area Coordinator for principles of macroeconomics. Visiting Assistant Professor (economics), 2009–2010. Taught labor, intermediate and advanced microeconomics.

Fu Jen Catholic University, ONPS International Summer School • Instructor (economics), 2013. Taught principles of microeconomics and macroeconomics, and econometrics.

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Kansas State University • Visiting Assistant Professor (economics), 2010–2011. Taught intermediate microeconomics and principles of macroeconomics. Observed, evaluated and advised teaching GTAs.

University College of the Cayman Islands • Director of Graduate Studies and Executive Training (department), 2007–2008. Worked with the President and Dean to manage the inception of a new academic department and profit center. Chair of Business Studies (department), 2006–2007. Managed staff of twelve faculty members, responsible for hiring, academic scheduling, and strategic planning. Associate Professor (economics), 2006–2008. Taught numerous economics courses including labor, econometrics, international, and managerial economics.

Louisiana State University • Visiting Assistant Professor (economics), 1999–2002. Taught numerous economics courses including intermediate microeconomics, industrial organization and managerial (MBA) economics. Instructor (economics), 1997–1999. Taught survey of economics and principles of economics.

Teaching Awards and Honors

Distinguished Teacher, Purdue University (Krannert School of Management), 2012, 2013 and 2014.

Excellence in Teaching, Louisiana State University (College Freshmen), 1999.

Instructor of the Year, Louisiana State University (College of Business), 1998.

Graduate Teaching Assistant of the Year, Auburn University (Department of Economics), 1996.

Research

“Measures of Central Tendency for Cost of Equity Estimates,” (co-authored), filed with the Federal Energy Regulatory Commission (2019).

“After the fall: Stock price movements and the deterrent effect of antitrust enforcement,” (co-authored), *Review of Industrial Organization*, vol. 19, no. 3 (2001).

“Joint supply and modern economic theory: An historical perspective,” (co-authored), *History of Political Economy*, vol. 33, no. 3 (2001).

“A note on multiple choice exams, with respect to students’ risk preference and confidence, (co-authored), *Assessment & Evaluation in Higher Education*, vol. 26, no. 3 (2001).

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Deposition Testimony

Case	Court	Docket	Deposition Date
1700 US 287 HWY v Stephen Belle Isle	Texas District Court, 141st District Court, Tarrant County	141-356273	Aug. 13, 2025
Lennar Homes v Black Castle	Texas District Court, 433 rd Judicial District, Comal County	C2022-1153D	Mar. 26, 2025
Novum v Orazul	International Court of Arbitration	28608/PDP	Mar. 13, 2025
Nickel Bridge Capital v Hendrickson	US District Court, Southern District of Texas, Houston	4:23-cv-1047	Feb. 14, 2025
Johnson v Duecker	Texas District Court, 368 th Judicial District, Williamson County	23-0405-C368	Sep. 27, 2024
Craig Box v Get Fresh Produce	Texas District Court, 295th District Court, Harris County	2023-27667	Aug. 29, 2024
FBCC CityPoint v. City of Austin et al.	US District Court, Western District of Texas, Austin	1:22-cv-01272	Apr. 17, 2024
Casis Village Shell v. Malone et al.	District Court, 98th Judicial District, Travis County, Texas	D-1-GN-23-00148 1	Mar. 8, 2024
Reloj v. Government Employees Insurance Company Inc.	US District Court, Southern District of California	'21CV1751 L AGS	Nov. 27, 2023

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Regulatory Commission Hearing Testimony

Case	Court	Docket	Hearing Date
Appalachian Power Co.	PSCWV	24-0854-E-42T	Jun. 17, 2025

Arbitration Hearing Testimony

Case	Court	Docket	Hearing Date
Novum v Orazul	International Court of Arbitration	28608/PDP	Apr. 23, 2025
Connolly v BioMarin	US District Court, Southern District of Texas, Houston	N/A	Aug. 14, 2024

Utility Regulatory Case Experience¹

Utility Case	Commission	Docket	Date	Nature of Case
Liberty Utilities	FERC	N/A	Jul-26 (anticipated)	Rate of Return on Equity
Upper Peninsula Power Company	Michigan PSC	N/A	Apr-26 (anticipated)	Rate of Return on Equity
Mountaineer Gas Co.	PSC of West Virginia	26-0079-G-42T	Mar-26	Rate of Return on Equity
Avista Corp.	Washington UTC	UE-260007	Jan-26	Rate of Return on Equity
Public Service Co. of Oklahoma	Oklahoma CC	PUD 2025-000075	Jan-26	Rate of Return on Equity
Kentucky Power Co.	Kentucky PSC	2025-00257	Aug-25	Rate of Return on Equity
Ohio Power Co.	Ohio PUC	25-392-EL-AIR	Jun-25	Rate of Return on Equity

¹ Dr. Thompson sponsored (or is sponsoring for anticipated filings) written direct or rebuttal testimony in **boldface cases**, while he supported the analyses and testimony of other experts in non-boldface cases.

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Indianapolis Power & Light Co.	Indiana URC	46258	Jun-25 Oct-25	Rate of Return on Equity
Black Hills Nebraska Gas, LLC	Nebraska PSC	NG-124	May-25	Rate of Return on Equity
Valley Link Transmission Company, LLC	FERC	ER25-1633	Mar.-25	Rate of Return on Equity
Idaho Power	Idaho PUC	N/A	Feb.-25	Rate of Return on Equity
Avista Corp.	Idaho PUC	N/A	Oct.-24	Rate of Return on Equity
Avista Corp.	Oregon PUC	UG-519	Sep.-24	Rate of Return on Equity
Rockland Electric Co.	FERC	N/A	Aug.-24	Rate of Return on Equity
Cross Texas Transmission	Texas PUC	N/A	Aug.-24	Rate of Return on Equity
Dayton Power & Light dba AES Ohio	Ohio PUC	N/A	Aug.-24	Rate of Return on Equity
Black Hills Colorado Electric, LLC	Colorado PUC	24AL-0275E	Jun-24	Rate of Return on Equity
Black Hills/Iowa Gas Utility Co., LLC	Iowa UB	RPU-2024-0001	Apr.-24	Rate of Return on Equity
Kentucky Utilities Company d/b/a Old Dominion Power Co.	Virginia SCC	PUR-2024-00052	Apr.-24	Rate of Return on Equity
Duke Energy Indiana, LLC	Indiana URC	46038	Apr.-24	Rate of Return on Equity
Duke Energy Florida, LLC	Florida PSC	20240025-EI	Apr.-24	Rate of Return on Equity
Appalachian Power Co.	PSCWV	24-0854-E-42T	Feb.-24	Rate of Return on Equity

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Upper Peninsula Power Company	Michigan PSC	N/A	Feb-24	Rate of Return on Equity
Public Service Co. of Oklahoma	Oklahoma CC	PUD 2023-000086	Jan-24	Rate of Return on Equity
Avista Corp.	Washington UTC	UE-240006 UG-240007	Jan-24	Rate of Return on Equity
Viridon Mid-Atlantic LLC	FERC	ER24-506	Nov-23	Rate of Return on Equity
Florida Power & Light Co.	FERC	ER24-268	Oct-23	Rate of Return on Equity
Entergy Louisiana, LLC	Louisiana PSC	U-36959	Aug-23	Rate of Return on Equity
Indianapolis Power & Light Co.	Indiana URC	Cause No. 45911	Jun-23 Nov-23	Rate of Return on Equity
Kentucky Power Co.	Kentucky PSC	2023-00159	Jun-23	Rate of Return on Equity
NorthWestern Energy	South Dakota PUC	EL23-016	Jun-23	Rate of Return on Equity
Consolidated Edison Co. of New York	FERC	ER23-2212	Jun-23	Rate of Return on Equity
Idaho Power Co.	Idaho PUC	IPC-E-23-11	Jun-23	Rate of Return on Equity
Potomac Electric Co.	Maryland PSC	9702	May-23	Rate of Return on Equity
Black Hills Wyoming Gas, Inc.	Wyoming PSC	30026-78-GR-23	May-23	Rate of Return on Equity
Black Hills Colorado Gas, Inc.	Colorado PUC	23AL-0231G	May-23	Rate of Return on Equity
Black Hills Colorado Gas, Inc.	Colorado PUC	23AL-0231G	May-23	Rate of Return on Equity
Appalachian Power Co.	Virginia SCC	PUR-2023-00001	Mar-23	Rate of Return on Equity
Avista Corp.	Oregon PUC	UG-461	Feb-23	Rate of Return on Equity

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Baltimore Gas & Electric Co.	Maryland PSC	9692	Feb-23	Rate of Return on Equity
Avista Corp.	Idaho PUC	AVU-E-23-01; AVU-G-23-01	Jan-23	Rate of Return on Equity
Ohio Power Co.	Ohio PUC	23-23-EL-SSO	Jan-23	Rate of Return on Equity
Public Service Co. of New Mexico	New Mexico PRC	22-00270-UT	Dec-22	Rate of Return on Equity
Public Service Co. of Oklahoma	Oklahoma CC	PUD 2022-000093	Nov-22	Rate of Return on Equity
Mountaineer Gas Co.	PSC of West Virginia	23-0280-G-42T	Oct-22	Rate of Return on Equity
Rocky Mountain Natural Gas LLC	Colorado PUC	22AL-0426G	Oct-22	Rate of Return on Equity
Westfield Gas Corp. d/b/a Citizens Gas of Westfield	Indiana URC	Cause No. 45761	Aug-22 Jan-23	Rate of Return on Equity
NorthWestern Energy	Montana PSC	D2022.07. 078	Aug-22	Rate of Return on Equity
Alaska Electric Light and Power Co.	RC of Alaska	U-22-078	Jul-22	Rate of Return on Equity
Black Hills Colorado Electric, LLC	FERC	ER22-2185	Jun-22	Rate of Return on Equity
Cheyenne Light, Fuel and Power Co.	Wyoming PSC	17072	Jun-22	Rate of Return on Equity
Delmarva Power Co.	Maryland PSC	9681	May-22 Sep-22	Rate of Return on Equity
Niagara Mohawk Power Co.	FERC	ER22-1201	Mar-22	Rate of Return on Equity
Rockland Electric Co.	FERC	ER22-910	Jan-22	Rate of Return on Equity
Avista Corp.	Washington UTC	UE-220053 UG-220054	Jan-22 Aug-22	Rate of Return on Equity

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Black Hills Energy Arkansas, Inc.	Arkansas PSC	21-097-U	Dec-21 Jun-22 Aug-22	Rate of Return on Equity
Ohio Power Co.	Ohio PUC	21-1166-EL-UNC	Nov-21	Application of Significantly Excessive Earnings Test
Avista Corp.	Oregon PUC	UG-433	Oct-21	Rate of Return on Equity
Portland General Electric Co.	FERC	ER22-233	Oct-21	Rate of Return on Equity
El Paso Electric Co.	FERC	ER22-282	Oct-21	Rate of Return on Equity
Delmarva Power Co.	Maryland PSC	9670	Aug-21 Dec-21	Rate of Return on Equity
Kentucky Utilities Company d/b/a Old Dominion Power Co.	Virginia SCC	PUR-2021-00171	Aug-21 Mar-22	Rate of Return on Equity
Black Hills/Iowa Gas Utility Co., LLC	Iowa UB	RPU-2021-0002	Jun-21 Oct-21	Rate of Return on Equity
Avista Corp.	FERC	ER21-2198	Jun-21	Rate of Return on Equity
Black Hills Colorado Gas, Inc.	Colorado PUC	21AL-0236G	Jun-21	Rate of Return on Equity
NorthWestern Energy	Montana PSC	D2021.02. 022	May-21	Rate of Return on Equity
Black Hills/Kansas Gas Utility Co. LLC	Kansas SCC	21-BHCG-418-RT S	May-21 Oct-21	Rate of Return on Equity
Public Service Co. of Oklahoma	Oklahoma CC	202100055	Apr-21 Aug-21	Rate of Return on Equity
Avista Corp.	Idaho PUC	AVU-E-21-01; AVU-G-21-01	Jan-21	Rate of Return on Equity
Dayton Power and Light Co.	Ohio PUC PSC	20-1651-EL-AIR	Dec-20 Aug-21	Rate of Return on Equity

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Louisville Gas & Electric Co.	Kentucky PSC	2020-00350	Nov-20 Apr-21	Rate of Return on Equity
Kentucky Utilities Co.	Kentucky PSC	2020-00349	Nov-20 Apr-21	Rate of Return on Equity
Avista Corp.	Washington UTC	UE-200900 UG-200901	Oct-20 May-21	Rate of Return on Equity
Potomac Electric Co.	Maryland PSC	9655	Oct-20 Mar-21	Rate of Return on Equity
Black Hills Colorado Gas, Inc.	Colorado PUC	20AL-0380G	Sep-20	Rate of Return on Equity
Pacific Gas & Electric Co.	FERC	ER20-2878	Sep-20	Rate of Return on Equity
Ohio Power Co.	Ohio PUC	20-585-EL-AIR	Jun-20 Jan-21	Rate of Return on Equity
Black Hills Nebraska Gas, Inc.	Nebraska PSC	NG-109	Jun-20 Oct-20	Rate of Return on Equity
Baltimore Gas & Electric Co.	Maryland PSC	9645	Mar-20 Sep-20 Oct-20	Rate of Return on Equity
Dayton Power and Light Co.	FERC	ER20-1150	Mar-20	Rate of Return on Equity
DATC Path 15, LLC	FERC	ER20-1006	Feb-20	Rate of Return on Equity
New Mexico Gas Co.	New Mexico PRC	19-00317-UT	Dec-19 Jul-20	Rate of Return on Equity
Jersey Central Power & Light Co.	FERC	ER20-227	Oct-19	Rate of Return on Equity
Florida Power & Light Co.	FERC	ER19-2585-000	Aug-19	Rate of Return on Equity
Avista Corp.	Idaho PUC	AVU-E-19-04	Jun-19	Rate of Return on Equity

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NorthWestern Energy	FERC	ER19-1756	May-19	Rate of Return on Equity
Avista Corp.	Washington UTC	UE-190334 UG-190335	Apr-19	Rate of Return on Equity
Midwest Independent System Operator, et al.	FERC	EL14-12	Feb-19 Apr-19	Rate of Return on Equity
Baltimore Gas & Electric Co.	Maryland PSC	9406	Jun-18 Oct-18	Rate of Return on Equity
Appalachian Power Co.	West Virginia PSC	18-0646-E-42T	Jun-18 Oct-18	Rate of Return on Equity

Business, Employment, Wrongful Death, Personal Injury and Valuation Case Experience²

Case	Court	Docket	Date	Nature of Case
Wolf River Hydro LP ³	N/A	N/A	Apr. 2026	Valuation
Miller v Baylor Scott & White	Texas District Court, 197th Judicial District, Cameron County	2025-DCL-02693	Feb. 2026	Wrongful Death Damage
White v Exel	Texas District Court, 298th Judicial District, Dallas County	DC-24-01647	Feb. 2026	Personal Injury Damages
Putt v Magnolia Oil & Gas	Texas District Court, 55th Judicial District, Harris County	2024-82600	Jan. 2026	Wrongful Termination Damages
Mann v Stellar Oilfield Rentals	JAMS Arbitration	N/A	Jan. 2026	Wrongful Termination Damages

² Dr. Thompson sponsored written direct or rebuttal testimony in **boldface cases**, while he supported the analyses and testimony of other experts in non-boldface cases.

³ Dr. Thompson authored a valuation report for this project.

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Flores v Randalls	Texas District Court, 281st Judicial District, Harris County	2024-84584	Jan. 2026	Personal Injury Damages
Rodriguez v Nuestra Clinica	County Court, Hidalgo County, Texas	CL-25-0471-G	Nov. 2025	Wrongful Termination Damages
Vasquez v Wal-Mart Associates	US District Court, Western District of Texas, San Antonio	5:25-CV-00012	Nov. 2025	Wrongful Termination Damages
Tumey v. Medina County	US District Court, Western District of Texas, San Antonio	5:24-cv-00083 -FB-ESC	Sep. 2025	Wrongful Death Damages
1700 US 287 HWY v Stephen Belle Isle	Texas District Court, 141st District Court, Tarrant County	141-356273	Aug. 2025	Business Damages
Diaz v Yummi Sushi et al.	Superior Court of the State of California, County of Los Angeles	24STCV31607	Jun. 2025	Business Analysis and Employment Damages
PJS v Valdez and CCS	Texas District Court, 269th District Court, Harris County	2025-02921	Jun. 2025	Business Damages
Texas Auto Salvage v City of San Antonio	US District Court, Western District of Texas, San Antonio	5:25-cv-00052 -XR	Apr. 2025	Business Damages
Reed v City of Floresville	US District Court, Western District of Texas, San Antonio	5:24-CV-701	Feb. 2025	Wrongful Termination Damages
Smith et al. v ABSG Consulting, Inc.	US District Court, Southern District of Texas, Houston	4:24-CV-1425	Jan. 2025	Wrongful Termination Damages

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EEOC v Houston Independent School District	US District Court, Southern District of Texas, Houston	4:24-cv-125	Jan. 2025	Wage Discrimination
Costa et al. v Apple	US District Court, Northern District of California	3:23-CV-01353-WHO	Jan. 2025	Wage and Hour
Novum v Orazul	International Court of Arbitration	28608/PDP	Sep. 2024	Business Damages
Goldstein v Forcepoint	US District Court, Western District of Texas, Austin Division	1:17-cv-1194 1:23-cv-1484	Aug. 2024	Wrongful Termination Damages
Lobaugh v. HYTORC	Texas District Court, 295th District Court, Harris County	2023-31758	Jun. 2024	Personal Injury Damages
Amarillo UA v Dallas Commercial Builders	Texas District Court, 181st Judicial District, Potter County	111542-B-CV	Jun. 2024	Business Damages
Lennar Homes v Black Castle	Texas District Court, 433rd Judicial District, Comal County	C2022-1153D	Apr. 2024	Business Damages
Ariza and Streck v Amegy Bank	American Arbitration Association	N/A	Apr. 2024	Wrongful Termination Damages
Johnson v Duecker	Texas District Court, 368th Judicial District, Williamson County	23-0405-C368	Apr. 2024	Personal Injury Damages
Mow v USAA	American Arbitration Association	01-23-0001-7931	Mar. 2024	Wrongful Termination Damages
Klinkenberg v USAA	American Arbitration	01-23-0001-6872	Mar. 2024	Wrongful Termination

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	Association			Damages
Graham v USAA	American Arbitration Association	01-23-0001-89 01	Mar. 2024	Wrongful Termination Damages
Craig Box v Get Fresh Produce	Texas District Court, 295th District Court, Harris County	2023-27667	Mar. 2024	Personal Injury Damages
Guerra v Castillo	US District Court, Southern District of Texas, McAllen	7:20-CV-0401	Feb. 2024	Wrongful Termination Damages
Connolly v BioMarin	US District Court, Southern District of Texas, Houston	N/A	Jan. 2024	Wrongful Termination Damages
Nickel Bridge Capital v Hendrickson	US District Court, Southern District of Texas, Houston	4:23-cv-1047	Jan. 2024	Business Damages
Robert Fisherkeller v BASF Corp.	US District Court, Northern District of Texas, Fort Worth	N/A	Jan. 2024	Wrongful Termination Damages
Washington v. Raytheon Company	US District Court, Eastern District of Texas, Sherman	4:22-cv-514	Sep. 2023	Wrongful Termination Damages
FBCC CityPoint v. City of Austin et al.	US District Court, Western District of Texas, Austin	1:22-cv-01272	Sep. 2023	Business Damages
Mowen v. USAA	American Arbitration Association	01-23-0000-87 63	Sep. 2023	Wrongful Termination Damages
Casis Village Shell v. Malone et al.	District Court, 98th Judicial District, Travis County, Texas	D-1-GN-23-00 1481	Sep. 2023	Business Damages

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Contreras v. RBFCU	US District Court, Western District of Texas	1:22-cv-01284 -LY	Sep. 2023	Wrongful Termination Damages
Hart v TRIARC Systems	US Bankruptcy Court, Northern District of Texas, Fort Worth	23-41996-mx m	Aug. 2023	Business Damages
Harris v. Ascend Performance Materials	US District Court, Southern District of Texas, Galveston	3:22-cv-178	Aug. 2023	Wrongful Termination Damages
Valentin v. Town of Natick	US District Court, District of Massachusetts	N/A	Aug. 2023	Real Estate Valuation; Financial Damages
Matthew v. TCPA	US District Court, Southern District of New York	N/A	Aug. 2023	Wrongful Termination Damages
Moot v. LinkedIn	JAMS Arbitration	N/A	Aug. 2023	Wrongful Termination Damages
Loftin v. Credit Human FCU	US District Court, Western District of Texas, San Antonio	5:22-cv-1343	Jun. 2023	Wrongful Termination Damages
Gomez v. Willacy County	Texas District Court, District Court, Willacy County	2022-CV-0092 -A	Jun. 2023	Wrongful Death Damages
Stapleton v. Prince Carpentry, Inc.	US District Court, Eastern District of New York	22-CV-04044(JS)(JMW)	Jun. 2023	Wrongful Termination Damages
Mullings v. Sam Houston State University	US District Court, Southern District of Texas, Houston	4:22cv1366	Jun. 2023	Wrongful Termination Damages
Clark v. Freeport LNG Development, L.P.	Texas District Court, 295th District Court,	2022-25093	Jun. 2023	Wrongful Termination Damages

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Harris County				
Reloj v. Government Employees Insurance Company Inc.	US District Court, Southern District of California	'21CV1751 L AGS	May 2023	Wage and Hour
Xoticas Rio Grande Valley v. City of Pharr, Texas et al.	US District Court, Southern District of Texas, Laredo	5:21-CV-00120	Jan. 2023	Business Damages
Beadles, Newman & Lawler v. Newman and James Lawler et al.	Texas District Court, 96th District Court, Tarrant County	096-283896-16	Jan. 2023	Business Valuation
Georgann Oglesby v. Medtronic, Inc.	US District Court, Western District of Texas, San Antonio	5:20-CV-1267	Jun. 2022	Personal Injury Damages
Townsley et al. v. IBM Corp.	US District Court, Western District of Texas, Austin	1:20-CV-00969-LY	Mar. 2022	Wrongful Termination Damages
State of Texas and Texas HSC v. Chiquita Brooks-Lasure et al.	US District Court, Eastern District of Texas, Tyler	6:21-CV-00191	Feb. 2022	Economic Impact Study
Pappas Harris Capital v. Advance Hydrocarbon Corp. et al.	Texas District Court, 295th District Court, Harris County	202010778	Feb. 2022	Business Valuation
Gallagher v. Webster and Epic Insurance Brokers	Texas District Court of Travis County, Texas, 345th Judicial District	D-1-GN-20-004823	Jul. 2021	Business Damages
C2 Education v. Lee	US District Court, Northern District of California	3:18-02920-SI	Jul. 2019	Business Damages
Mulcahy v. Cielo	Texas District Court of Travis County, Texas, 250th Judicial District	D-1-GN-18-003429	Nov. 2018	Employment Damages, Real Estate Valuation

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Huntsman v. Southwest Airlines	US District Court, Northern District of California, San Francisco Division	3:17-CV-0397 2-JD	Mar. 2018	Employment Damages
Rowell v. Attorney General of the State of Texas, et. al.	US District Court, Western District of Texas, Austin Division	1:14-CV-0019 0-LY	Nov. 2017	Economic Damages
Nudelman MD v. Volk MD	US District Court, Western District of Texas, San Antonio Division	5:15-CV-0092 3-FB	Sep. 2016	Employment Damages, Real Estate Valuation

ROE ANALYSIS

SUMMARY OF RESULTS

Method	Result
DCF	
IBES	11.1%
S&P Capital IQ	9.9%
Value Line	9.9%
Zacks	10.6%
Internal br + sv	9.2%
CAPM	11.4%
Utility Risk Premium	10.7%
ROE Recommendation	

Cost of Equity Range	10.1%	--	11.3%

REGULATORY MECHANISMS

Case No.: U-22032
 Witness: John S. Thompson
 Exhibit: A-34 (JST-3)

Page: 1 of 6

UTILITY GROUP

Company	Type of Cost Recovery Mechanism (a)										Other Regulatory Mechanisms (a)		
	Fuel/ Purch Power	Bad Debt	Pension	Environ- mental	Energy Efficiency/ Conservation	Other (b)	Gener- ation	Distri- bution	Trans- mission	Renewables	Decoupling/ Multi-Yr Plans/ Formula Rates	Earn Sharing/ Perf-Based Rates	Future Test Year
1 Alliant Energy	✓	✓	✓	--	✓	✓	--	--	✓	✓	✓	✓	✓
2 Ameren Corp.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
3 American Electric Power	✓	✓	--	✓	✓	✓	--	✓	✓	✓	--	✓	✓
4 Avista Corp.	✓	--	--	--	✓	✓	--	--	✓	✓	✓	--	--
5 CenterPoint Energy	✓	✓	✓	✓	✓	✓	--	✓	✓	✓	✓	✓	--
6 CMS Energy Corp.	✓	--	✓	--	✓	✓	--	--	✓	--	--	✓	✓
7 Dominion Energy	✓	--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8 DTE Energy Co.	✓	--	--	--	✓	✓	--	--	✓	✓	--	✓	✓
9 Duke Energy Corp.	✓	✓	--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10 Edison International	✓	--	✓	✓	✓	✓	--	--	✓	--	✓	--	✓
11 Entergy Corp.	✓	--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12 Evergy Inc.	✓	✓	--	--	✓	✓	✓	✓	✓	--	--	--	--
13 Eversource Energy	✓	--	✓	✓	✓	✓	--	✓	✓	✓	✓	✓	--
14 FirstEnergy Corp.	✓	✓	--	✓	✓	✓	--	✓	✓	✓	✓	✓	✓
15 IDACORP, Inc.	✓	--	--	--	✓	✓	--	--	✓	--	✓	✓	✓
16 OGE Energy Corp.	✓	--	✓	--	✓	✓	--	--	✓	--	✓	✓	--
17 Otter Tail Corp.	✓	--	--	--	✓	✓	✓	--	✓	✓	✓	✓	✓
18 Pinnacle West Capital	✓	--	--	✓	✓	✓	✓	--	✓	✓	✓	--	--
19 Pub Sv Enterprise Grp.	D	✓	✓	✓	✓	✓	--	✓	✓	✓	✓	--	✓
20 Sempra Energy	✓	✓	--	✓	✓	✓	✓	✓	✓	✓	✓	--	✓
21 Xcel Energy Inc.	✓	--	✓	--	✓	✓	✓	✓	✓	✓	✓	--	✓
Total	20	9	11	12	21	21	9	12	17	16	17	13	15

(a) From most recent SEC Form 10-K Reports and Investor Presentations (as provided on each company's website under Investor Relations).

Data from S&P Global Market Intelligence, *RRA State Regulatory Evaluations Quarterly Update* (Dec. 2024) also used to supplement the Future Test Year findings.

(b) See Exhibit JST-3 pages 5-6.

D - Delivery-only utility.

UTILITY GROUP OPERATING COS.

Company	State	Type of Cost Recovery Mechanism (a)										Other Regulatory Mechanisms (a)		
		Fuel/ Purch Power	Bad Debt	Pension	Environ- mental	Energy Efficiency/ Conservation	Other (b)	Gener- ation	Distri- bution	Trans- mission	Renewables	Decoupling/ Multi-Yr Plans/ Formula Rates	Earn Sharing/ Perf-Based Rates	Future Test Year
1 ALLIANT ENERGY CORP.														
Interstate Power & Light Co.	IA	✓	--	✓	--	✓	✓	--	--	✓	--	✓	✓	✓
Wisconsin Power & Light Co.	WI	✓	✓	✓	--	✓	--	--	--	✓	--	--	✓	✓
2 AMEREN CORP.														
Ameren Illinois Co.	IL	D	✓	--	✓	✓	--	--	--	✓	✓	✓	✓	✓
Union Electric Co.	MO	✓	--	✓	--	✓	✓	✓	✓	--	✓	--	--	--
3 AMERICAN ELECTRIC POWER														
Southwestern Electric Power Co.	AR	✓	--	--	✓	✓	✓	--	✓	✓	✓	✓	--	✓
Indiana Michigan Power Co.	IN	✓	--	--	✓	✓	--	--	✓	✓	✓	--	--	✓
Kentucky Power Co.	KY	✓	--	--	✓	✓	✓	--	--	--	--	--	--	--
Southwestern Electric Power Co.	LA	✓	--	--	--	✓	✓	--	✓	✓	✓	✓	--	--
Indiana Michigan Power Co.	MI	✓	--	--	--	✓	--	--	✓	✓	✓	--	--	✓
Ohio Power Co.	OH	D	✓	--	--	--	✓	--	✓	✓	✓	✓	--	✓
Public Service Co. of Oklahoma	OK	✓	--	--	--	✓	--	--	--	--	✓	--	--	--
Kingsport Power Co.	TN	✓	--	--	✓	--	✓	--	✓	✓	--	--	--	✓
AEP Texas Inc.	TX	D	--	--	--	✓	--	--	✓	✓	✓	✓	--	--
Southwestern Electric Power Co.	TX	✓	--	--	--	✓	--	--	✓	✓	--	--	--	--
Appalachian Power Co.	VA	✓	--	--	✓	✓	--	--	✓	✓	✓	--	--	--
Appalachian Pwr. Co./Wheeling Pwr.	WV	✓	--	--	✓	✓	✓	--	✓	✓	✓	--	--	--
4 AVISTA CORP.														
Alaska Electric Light & Power Co.	AK	✓	--	--	--	--	--	--	--	--	--	--	--	--
Avista Corp.	ID	✓	--	--	--	--	✓	--	--	--	--	✓	--	--
Avista Corp.	WA	✓	--	--	--	✓	✓	--	--	--	--	✓	--	--
5 CENTERPOINT ENERGY														
Southern Indiana Gas & Electric Co.	IN	✓	--	--	✓	✓	--	--	✓	✓	✓	✓	✓	--
CenterPoint Energy Houston Electric	TX	D	✓	✓	--	✓	✓	--	✓	✓	--	--	--	--
6 CMS ENERGY														
Consumers Energy Co.	MI	✓	--	✓	--	✓	✓	--	--	--	--	--	✓	✓
7 DOMINION ENERGY														
Virginia Electric & Power Co.	NC	✓	--	--	✓	✓	--	--	--	--	--	✓	✓	--
Dominion Energy South Carolina	SC	✓	--	✓	✓	✓	✓	✓	--	--	--	✓	--	--
Virginia Electric & Power Co.	VA	✓	--	--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8 DTE ENERGY CO.														
DTE Electric Co.	MI	✓	--	--	--	✓	✓	--	--	--	✓	--	✓	✓

UTILITY GROUP OPERATING COS.

Company	State	Type of Cost Recovery Mechanism (a)										Other Regulatory Mechanisms (a)		
		Fuel/ Purch Power	Bad Debt	Pension	Environ- mental	Energy Efficiency/ Conservation	Other (b)	Gener- ation	Distri- bution	Trans- mission	Renewables	Decoupling/ Multi-Yr Plans/ Formula Rates	Earn Sharing/ Perf-Based Rates	Future Test Year
9 DUKE ENERGY														
Duke Energy Florida LLC	FL	✓	--	--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Duke Energy Indiana LLC	IN	✓	--	--	✓	✓	--	✓	✓	✓	✓	--	--	✓
Duke Energy Kentucky Inc.	KY	✓	--	--	✓	✓	--	--	--	--	--	--	--	✓
Duke Energy Carolinas LLC	NC	✓	--	--	--	✓	--	--	--	--	--	✓	✓	--
Duke Energy Progress LLC	NC	✓	--	--	--	✓	--	--	--	--	--	✓	✓	--
Duke Energy Ohio Inc.	OH	D	✓	--	--	✓	✓	--	✓	✓	--	✓	--	✓
Duke Energy Progress LLC	SC	✓	--	--	--	✓	--	--	--	--	--	✓	--	--
Duke Energy Carolinas LLC	SC	✓	--	--	--	✓	--	--	--	--	--	✓	--	--
10 EDISON INTERNATIONAL														
Southern California Edison Co.	CA	✓	--	✓	✓	✓	✓	--	--	--	--	✓	--	✓
11 ENTERGY CORP.														
Entergy Arkansas LLC	AR	✓	--	✓	--	✓	--	✓	--	✓	--	✓	--	✓
Entergy New Orleans LLC	LA	✓	--	✓	✓	✓	--	✓	✓	✓	--	✓	--	✓
Entergy Louisiana LLC	LA	✓	--	✓	✓	--	✓	✓	✓	✓	✓	✓	--	--
Entergy Mississippi LLC	MS	✓	--	✓	--	--	✓	✓	✓	✓	--	✓	✓	✓
Entergy Texas Inc.	TX	✓	--	✓	--	--	✓	✓	✓	✓	--	--	--	--
12 EVERGY, INC.														
Evergy Kansas Central Inc.	KS	✓	--	--	--	✓	✓	✓	✓	✓	--	--	--	--
Evergy Kansas South Inc.	KS	✓	--	--	--	✓	--	✓	✓	--	--	--	--	--
Evergy Metro Inc.	KS	✓	--	--	--	✓	✓	✓	✓	✓	--	--	--	--
Evergy Metro Inc.	MO	✓	--	--	--	✓	✓	--	--	✓	--	--	--	--
Evergy Missouri West Inc.	MO	✓	--	--	--	✓	✓	--	--	--	--	--	--	--
13 EVERSOURCE ENERGY														
Connecticut Light and Power Co.	CT	D	--	--	✓	✓	✓	--	✓	✓	✓	✓	--	--
NSTAR Electric Co.	MA	D	--	✓	--	✓	✓	--	✓	✓	✓	✓	✓	--
Public Service Co. of New Hampshire	NH	✓	--	--	✓	✓	✓	--	✓	✓	--	--	--	--
14 FIRSTENERGY CORP.														
Potomac Edison Co.	MD	D	--	--	--	✓	--	--	--	✓	--	--	--	--
Jersey Central Power & Light Co.	NJ	D	✓	--	✓	✓	--	--	✓	✓	--	✓	--	--
Cleveland Elec./Ohio Ed./Toledo Ed.	OH	D	✓	--	--	✓	✓	--	✓	✓	--	✓	✓	--
FE PA	PA	D	--	--	--	✓	✓	--	✓	--	--	--	--	✓
Monongahela Power Co.	WV	✓	--	--	--	--	✓	--	--	--	✓	--	--	--
Potomac Edison Co.	WV	✓	--	--	--	--	✓	--	--	--	✓	--	--	--
15 IDACORP														
Idaho Power Co.	ID	✓	--	--	--	✓	✓	--	--	--	--	✓	✓	--
Idaho Power Co.	OR	✓	--	--	--	✓	--	--	--	--	--	--	--	✓
16 OGE ENERGY CORP.														
Oklahoma Gas & Electric Co.	AR	✓	--	--	--	--	--	--	--	✓	--	✓	--	--
Oklahoma Gas & Electric Co.	OK	✓	--	✓	--	✓	✓	--	--	✓	--	✓	✓	--

UTILITY GROUP OPERATING COS.

	Company	Type of Cost Recovery Mechanism (a)										Other Regulatory Mechanisms (a)				
		State	Fuel/ Purch	Power	Bad Debt	Pension	Environ- mental	Energy Efficiency/ Conservation	Other (b)	Gener- ation	Distri- bution	Trans- mission	Renewables	Decoupling/ Multi-Yr Plans/ Formula Rates	Earn Sharing/ Perf-Based Rates	Future Test Year
17	OTTER TAIL CORP.															
	Otter Tail Power Co.	MN	✓	--	--	--	✓	✓	✓	--	✓	✓	✓	--	✓	
	Otter Tail Power Co.	ND	✓	--	--	--	--	✓	✓	--	✓	✓	--	✓	✓	
	Otter Tail Power Corp.	SD	✓	--	--	--	✓	--	✓	--	✓	--	--	✓	--	
18	PINNACLE WEST CAPITAL															
	Arizona Public Service Co.	AZ	✓	--	--	✓	✓	✓	✓	--	✓	✓	✓	--	--	
19	PUB SV ENTERPRISE GRP.															
	Public Service Electric & Gas Co.	NJ	D	✓	✓	✓	✓	✓	--	✓	✓	✓	✓	--	✓	
20	SEMPRA ENERGY															
	San Diego Gas & Electric Co.	CA	✓	✓	--	✓	✓	✓	✓	✓	✓	✓	✓	--	✓	
	Oncor Electric Delivery Co.	TX	D	--	--	--	--	--	--	✓	✓	--	--	--	--	
21	XCEL ENERGY, INC.															
	Public Service Co. of Colorado	CO	✓	--	✓	--	✓	✓	--	✓	✓	✓	✓	--	✓	
	Northern States Power Co. - Minnesota	MN	✓	--	✓	--	✓	✓	--	✓	✓	✓	✓	--	✓	
	Southwestern Public Service Co.	NM	✓	--	✓	--	✓	✓	--	✓	--	✓	--	--	✓	
	Northern States Power Co. - Minnesota	ND	✓	--	--	--	--	--	--	--	✓	✓	✓	--	✓	
	Northern States Power Co. - Minnesota	SD	✓	--	--	--	--	--	✓	--	--	--	✓	--	--	
	Southwestern Public Service Co.	TX	✓	--	✓	--	✓	✓	✓	✓	✓	--	--	--	--	
	Northern States Power Co. - Wisconsin	WI	✓	--	✓	--	✓	--	--	--	--	--	✓	--	✓	
	Total	72	59	9	20	23	58	43	20	37	46	30	39	18	30	

(a) From most recent SEC Form 10-K Reports and Investor Presentations (as provided on each company's website under Investor Relations).

Data from S&P Global Market Intelligence, *RRA State Regulatory Evaluations Quarterly Update* (Dec. 2024) also used to supplement the Future Test Year findings.

(b) See Exhibit JST-3 pages 5-6.

D - Delivery-only utility.

NOTE (b) - OTHER RECOVERY MECHANISMS

	Company	State	Description
1	ALLIANT ENERGY CORP. Interstate Power & Light Co.	IA	Tax benefit rider
2	AMEREN CORP. Union Electric Co.	MO	Ad valorem tax
3	AMERICAN ELECTRIC POWER Southwestern Electric Power Co. Kentucky Power Co. Southwestern Electric Power Co. Ohio Power Co. Kingsport Power Co. Appalachian Pwr. Co./Wheeling Pwr. Co.	AR KY LA OH TN WV	Vegetation management Decommissioning rider Vegetation management Vegetation management Vegetation management Vegetation management
4	AVISTA CORP. Avista Corp. Avista Corp.	ID WA	Wildfire resiliency, insurance Wildfire resiliency, insurance
5	CENTERPOINT ENERGY CenterPoint Energy Houston Electric LLC	TX	Temporary emergency electric energy facilities, system restoration cost
6	CMS ENERGY Consumers Energy Co.	MI	Decommissioning cost
7	DOMINION ENERGY Dominion Energy South Carolina Virginia Electric & Power Co.	SC VA	Relicensing/decommissioning Coastal Virginia Offshore Wind project, relicensing/decommissioning
8	DTE ENERGY CO. DTE Electric Co.	MI	Decommissioning cost
9	DUKE ENERGY Duke Energy Florida LLC Duke Energy Ohio Inc.	FL OH	Storm damage Storm damage
10	EDISON INTERNATIONAL Southern California Edison Co.	CA	Inflationary price increases, nuclear decommissioning, wildfire related costs, public purpose programs, wildfire liability insurance
11	ENTERGY CORP. Entergy Louisiana LLC Entergy Mississippi LLC Entergy Texas Inc.	LA MS TX	Resilience plan, tax adjustment mechanism Storm damage, ad valorem tax, vegetation Rate case expenses, advanced metering system
12	EVERGY, INC. Evergy Kansas Central Inc. Evergy Metro Inc. Evergy Metro Inc. Evergy Missouri West Inc.	KS KS MO MO	Ad valorem tax Ad valorem tax Ad valorem tax Ad valorem tax
13	EVERSOURCE ENERGY Connecticut Light and Power Co. NSTAR Electric Co. Public Service Co. of New Hampshire	CT MA NH	System benefits Low income customer discounts, vegetation management, storm restoration, advanced metering infrastructure, EV infrastructure System benefits, vegetation management, ad valorem tax, storm costs, pole plant adjustment mechanism

NOTE (b) - OTHER RECOVERY MECHANISMS

Company	State	Description
14 FIRSTENERGY CORP. Cleveland Elec./Ohio Ed./Toledo Ed. FE PA Monongahela Power Co. Potomac Edison Co.	OH PA WV WV	Smart meters Storm costs, Tax Act, smart meters, vegetation, management Vegetation management, storm costs Vegetation management, storm costs
15 IDACORP Idaho Power Co.	ID	Accumulated Deferred ITC annual utilization
16 OGE ENERGY CORP. Oklahoma Gas & Electric Co.	OK	ITC rider
17 OTTER TAIL CORP. Otter Tail Power Co. Otter Tail Power Co.	MN ND	Advanced metering initiative Advanced metering initiative
18 PINNACLE WEST CAPITAL Arizona Public Service Co.	AZ	Tax expense adjustor, Four Corners Court Resolution Surcharge (federally mandated emissions controls)
19 PUB SV ENTERPRISE GRP. Public Service Electric & Gas Co.	NJ	Storm costs, electric vehicle program
20 SEMPRA ENERGY San Diego Gas & Electric Co.	CA	Insurance premiums, wildfire mitigation, advanced metering initiative
21 XCEL ENERGY, INC. Public Service Co. of Colorado Northern States Power Co. - Minnesota Southwestern Public Service Co. Southwestern Public Service Co.	CO MN NM TX	Ad valorem tax, Comanche Units 1&2 retirement costs, transportation electrification Ad valorem tax Transportation electrification Advanced metering initiative, rate case expenses

CAPITAL STRUCTURE**ELECTRIC GROUP OPERATING SUBSIDIARIES**

	Operating Company	Debt	Preferred	Common Equity
1	ALLIANT ENERGY CORP.			
	Interstate Power & Light	49.1%	0.0%	50.9%
	Wisconsin Power & Light	45.6%	0.0%	54.4%
2	AMEREN CORP.			
	Ameren Illinois Co.	44.4%	0.3%	55.3%
	Union Electric Co.	47.6%	0.5%	51.9%
3	AMERICAN ELECTRIC POWER			
	AEP Texas, Inc.	54.3%	0.0%	45.7%
	Appalachian Power Co.	49.9%	0.0%	50.1%
	Indiana Michigan Power Co.	48.5%	0.0%	51.5%
	Kentucky Power Co.	50.8%	0.0%	49.2%
	Kingsport Power Co.	47.3%	0.0%	52.7%
	Ohio Power Co.	47.2%	0.0%	52.8%
	Public Service Co. of Oklahoma	49.4%	0.0%	50.6%
	Southwestern Electric Pwr Co.	48.7%	0.0%	51.3%
	Wheeling Power Co.	53.1%	0.0%	46.9%
4	AVISTA CORP.			
	Avista Corp.	50.0%	0.0%	50.0%
	Alaska Electric Light & Power	42.3%	0.0%	57.7%
5	CENTERPOINT ENERGY			
	Centerpoint Energy Houston Electric	54.9%	0.0%	45.1%
6	CMS ENERGY			
	Consumers Energy Co.	49.9%	0.1%	50.0%
7	DOMINION ENERGY			
	Virginia Electric & Power	40.9%	0.0%	59.1%
	Dominion Energy South Carolina	46.0%	0.0%	54.0%
8	DTE ENERGY CO.			
	DTE Electric Co.	50.2%	0.0%	49.8%
9	DUKE ENERGY			
	Duke Energy Carolinas	46.9%	0.0%	53.1%
	Duke Energy Florida	46.5%	0.0%	53.5%
	Duke Energy Indiana	46.4%	0.0%	53.6%
	Duke Energy Ohio	42.8%	0.0%	57.2%
	Duke Energy Progress	48.1%	0.0%	51.9%
	Duke Energy Kentucky	46.3%	0.0%	53.7%

CAPITAL STRUCTURE**ELECTRIC GROUP OPERATING SUBSIDIARIES**

Case No.: U-22032
Witness: John S. Thompson
Exhibit: A-35 (JST-4)
Page: 2 of 4

	Operating Company	Debt	Preferred	Common Equity
10	EDISON INTERNATIONAL			
	Southern California Edison Co.	55.7%	3.2%	41.1%
11	ENTERGY CORP.			
	Entergy Arkansas Inc.	53.5%	0.0%	46.5%
	Entergy Louisiana LLC	46.5%	0.0%	53.5%
	Entergy Mississippi Inc.	50.3%	0.0%	49.7%
	Entergy New Orleans Inc.	51.9%	0.0%	48.1%
	Entergy Texas Inc.	49.4%	0.5%	50.1%
12	EVERGY, INC.			
	Eversgy Metro	48.6%	0.0%	51.4%
	Eversgy Kansas Central	47.3%	0.0%	52.7%
13	EVERSOURCE ENERGY			
	Connecticut Light & Power	42.9%	1.0%	56.1%
	NSTAR Electric Co.	43.9%	0.3%	55.8%
	Public Service Co. of New Hampshire	41.4%	0.0%	58.6%
14	FIRSTENERGY CORP.			
	Cleve. Elec. Illum./Ohio Ed./Toledo Ed.	43.4%	0.0%	56.6%
	Jersey Central Power & Light Co.	36.9%	0.0%	63.1%
	Monongahela Power Co.	44.5%	0.0%	55.5%
	The Potomac Edison Co.	48.1%	0.0%	51.9%
	FE PA	45.9%	0.0%	54.1%
15	IDACORP			
	Idaho Power Co.	50.3%	0.0%	49.7%
16	OGE ENERGY CORP.			
	Oklahoma G&E	46.4%	0.0%	53.6%
17	OTTER TAIL CORP.			
	Otter Tail Power Co.	44.8%	0.0%	55.2%
18	PINNACLE WEST CAPITAL			
	Arizona Public Service Co.	47.7%	0.0%	52.3%
19	PUBLIC SERVICE ENTERPRISE GROUP			
	Pub Service Electric & Gas Co.	44.7%	0.0%	55.3%

CAPITAL STRUCTURE

ELECTRIC GROUP OPERATING SUBSIDIARIES

Operating Company		Debt	Preferred	Common Equity
20	SEMPRA ENERGY			
	San Diego Gas & Electric	46.9%	0.0%	53.1%
	Oncor Electric Delivery	49.6%	0.0%	50.4%
21	XCEL ENERGY, INC.			
	Northern States Power Co. (MN)	46.3%	0.0%	53.7%
	Northern States Power Co. (WI)	47.1%	0.0%	52.9%
	Public Service Co. of Colorado	44.2%	0.0%	55.8%
	Southwestern Public Service Co.	45.8%	0.0%	54.2%
Minimum		36.9%	0.0%	41.1%
Maximum		55.7%	3.2%	63.1%
Average		47.4%	0.1%	52.5%

(a) SEC Form 10-K Annual Reports and FERC Form 1 Reports.

CAPITAL STRUCTURE

UTILITY GROUP

	Company	At Year-end 2025 (a)			Value Line Projected (b)		
		Debt	Preferred	Common Equity	Debt	Preferred	Common Equity
1	Alliant Energy	62.1%	0.0%	37.9%	64.5%	0.0%	35.5%
2	Ameren Corp.	58.1%	0.0%	41.9%	51.0%	0.5%	48.5%
3	American Elec Pwr	58.9%	0.0%	41.1%	57.5%	0.0%	42.5%
4	Avista Corp.	50.4%	0.0%	49.6%	47.5%	0.0%	52.5%
5	CenterPoint Energy	66.1%	0.0%	33.9%	58.0%	0.0%	42.0%
6	CMS Energy Corp.	65.9%	0.8%	33.3%	62.0%	1.0%	37.0%
7	Dominion Energy	57.4%	1.3%	41.4%	61.5%	1.0%	37.5%
8	DTE Energy Co.	66.5%	0.0%	33.5%	61.5%	0.0%	38.5%
9	Duke Energy Corp.	62.2%	0.7%	37.1%	60.5%	0.5%	39.0%
10	Edison International	64.4%	0.9%	34.6%	64.5%	3.0%	32.5%
11	Entergy Corp.	63.6%	0.5%	36.0%	63.5%	0.0%	36.5%
12	Evergy Inc.	56.1%	0.0%	43.9%	52.0%	0.0%	48.0%
13	Eversource Energy	63.3%	0.0%	36.7%	61.0%	0.5%	38.5%
14	FirstEnergy Corp.	65.2%	0.0%	34.8%	65.0%	1.0%	34.0%
15	IDACORP, Inc.	49.1%	0.0%	50.9%	44.0%	0.0%	56.0%
16	OGE Energy Corp.	51.9%	0.0%	48.1%	50.4%	0.0%	49.6%
17	Otter Tail Corp.	35.9%	0.0%	64.1%	31.2%	0.0%	68.8%
18	Pinnacle West Capital	58.0%	0.0%	42.0%	55.5%	0.0%	44.5%
19	Pub Sv Enterprise Grp.	57.0%	0.0%	43.0%	55.0%	0.0%	45.0%
20	Sempra	43.0%	0.0%	57.0%	52.0%	0.0%	48.0%
21	Xcel Energy Inc.	57.8%	0.0%	42.2%	58.5%	0.0%	41.5%
Minimum		35.9%	0.0%	33.3%	31.2%	0.0%	32.5%
Maximum		66.5%	1.3%	64.1%	65.0%	3.0%	68.8%
Average		57.8%	0.2%	42.0%	56.0%	0.4%	43.6%

(a) SEC Form 10-K Annual Report.

(b) The Value Line Investment Survey (Feb. 6, Mar. 6 and Apr. 17, 2026).

DCF MODEL - UTILITY GROUP

DIVIDEND YIELD

		(a)	(b)	
	Company	Price	Dividends	Yield
1	Alliant Energy	\$ 71.81	\$ 2.03	2.8%
2	Ameren Corp.	\$ 110.72	\$ 2.96	2.7%
3	American Elec Pwr	\$ 132.38	\$ 3.92	3.0%
4	Avista Corp.	\$ 40.60	\$ 1.97	4.9%
5	CenterPoint Energy	\$ 42.94	\$ 0.92	2.1%
6	CMS Energy Corp.	\$ 77.25	\$ 2.28	3.0%
7	Dominion Energy	\$ 62.08	\$ 2.67	4.3%
8	DTE Energy Co.	\$ 146.49	\$ 4.66	3.2%
9	Duke Energy Corp.	\$ 129.58	\$ 4.30	3.3%
10	Edison International	\$ 71.82	\$ 3.61	5.0%
11	Entergy Corp.	\$ 110.73	\$ 2.40	2.2%
12	Evergy Inc.	\$ 81.67	\$ 2.78	3.4%
13	Eversource Energy	\$ 69.07	\$ 3.17	4.6%
14	FirstEnergy Corp.	\$ 50.26	\$ 1.86	3.7%
15	IDACORP, Inc.	\$ 143.51	\$ 3.52	2.5%
16	OGE Energy Corp.	\$ 47.94	\$ 1.70	3.5%
17	Otter Tail Corp.	\$ 87.76	\$ 2.31	2.6%
18	Pinnacle West Capital	\$ 101.53	\$ 3.69	3.6%
19	Pub Sv Enterprise Grp.	\$ 81.43	\$ 2.68	3.3%
20	Sempra	\$ 95.65	\$ 2.66	2.8%
21	Xcel Energy Inc.	\$ 79.71	\$ 2.41	3.0%
	Average			3.3%

(a) Average of closing prices for 30 trading days ended Apr. 27, 2026.

(b) The Value Line Investment Survey, Summary & Index (May 1, 2026).

DCF MODEL - UTILITY GROUP

GROWTH RATES

	(a)	(b)	(c)	(d)	(e)
	Earnings Growth				br+sv
Company	IBES	S&P	V Line	Zacks	Growth
1 Alliant Energy	7.5%	7.8%	6.0%	7.2%	5.8%
2 Ameren Corp.	8.7%	8.0%	6.5%	9.3%	7.8%
3 American Elec Pwr	8.2%	8.6%	6.5%	6.7%	5.7%
4 Avista Corp.	7.5%	6.9%	5.0%	7.1%	2.3%
5 CenterPoint Energy	8.8%	8.7%	8.0%	8.9%	5.3%
6 CMS Energy Corp.	8.0%	7.5%	8.0%	7.1%	6.0%
7 Dominion Energy	8.6%	6.1%	6.5%	5.3%	5.9%
8 DTE Energy Co.	6.4%	7.4%	5.5%	5.9%	5.3%
9 Duke Energy Corp.	6.7%	6.6%	6.0%	n/a	4.2%
10 Edison International	8.2%	6.1%	6.0%	9.4%	6.0%
11 Entergy Corp.	12.0%	10.8%	3.0%	11.5%	3.5%
12 Evergy Inc.	7.5%	8.6%	6.5%	9.1%	3.9%
13 Eversource Energy	3.8%	4.9%	5.5%	3.3%	5.1%
14 FirstEnergy Corp.	7.6%	7.8%	5.0%	7.6%	6.0%
15 IDACORP, Inc.	8.9%	8.3%	5.0%	7.9%	4.5%
16 OGE Energy Corp.	5.8%	6.6%	3.0%	5.6%	4.4%
17 Otter Tail Corp.	n/a	8.2%	-1.0%	n/a	5.7%
18 Pinnacle West Capital	1.8%	8.1%	6.0%	5.8%	5.6%
19 Pub Sv Enterprise Grp.	8.2%	6.6%	7.5%	6.1%	5.4%
20 Sempra	7.5%	8.4%	7.0%	5.2%	6.0%
21 Xcel Energy Inc.	n/a	8.9%	8.0%	9.4%	7.6%

- (a) IBES growth rates from LSEG, as provided by www.fidelity.com (Apr. 28, 2026).
(b) S&P Capital IQ growth rates, as provided by www.koyfin.com (retrieved Apr. 28, 2026).
(c) The Value Line Investment Survey (Feb. 6, Mar. 6 and Apr. 17, 2026).
(d) www.zacks.com (retrieved Apr. 28, 2026).
(e) See Exhibit JST-6.

DCF MODEL - UTILITY GROUP

COST OF EQUITY ESTIMATES

			(a)	(a)	(a)	
					br+sv	
	Company	IBES	S&P	V Line	Zacks	Growth
1	Alliant Energy	10.3%	10.6%	8.8%	10.0%	8.6%
2	Ameren Corp.	11.4%	10.7%	9.2%	11.9%	10.5%
3	American Elec Pwr	11.2%	11.5%	9.5%	9.7%	8.6%
4	Avista Corp.	12.4%	11.8%	9.9%	11.9%	7.2%
5	CenterPoint Energy	10.9%	10.8%	10.1%	11.0%	7.4%
6	CMS Energy Corp.	11.0%	10.5%	11.0%	10.1%	9.0%
7	Dominion Energy	12.9%	10.4%	10.8%	9.6%	10.2%
8	DTE Energy Co.	9.6%	10.6%	8.7%	9.1%	8.5%
9	Duke Energy Corp.	10.0%	9.9%	9.3%	n/a	7.5%
10	Edison International	13.2%	11.2%	11.0%	14.5%	11.1%
11	Entergy Corp.	14.2%	12.9%	5.2%	13.7%	5.7%
12	Evergy Inc.	10.9%	12.0%	9.9%	12.5%	7.3%
13	Eversource Energy	8.4%	9.5%	10.1%	7.8%	9.7%
14	FirstEnergy Corp.	11.3%	11.5%	8.7%	11.3%	9.7%
15	IDACORP, Inc.	11.4%	10.7%	7.5%	10.3%	7.0%
16	OGE Energy Corp.	9.3%	10.1%	6.5%	9.1%	8.0%
17	Otter Tail Corp.	n/a	10.8%	1.6%	n/a	8.3%
18	Pinnacle West Capital	5.4%	11.8%	9.6%	9.4%	9.2%
19	Pub Sv Enterprise Grp.	11.5%	9.9%	10.8%	9.4%	8.7%
20	Sempra	10.3%	11.1%	9.8%	8.0%	8.8%
21	Xcel Energy Inc.	n/a	11.9%	11.0%	12.4%	10.6%
	Average (b)	11.1%	9.9%	9.9%	10.6%	9.2%

(a) Sum of dividend yield (Exhibit JST-5, p. 1) and respective growth rate (Exhibit JST-5, p. 2).

(b) Excludes highlighted values.

BR+SV GROWTH RATE

UTILITY GROUP

		(a)	(a)	(a)	(b)	(c)	(d)	(e)		(f)	(g)		
		2030			Adjustment					"sv" Factor			
	<u>Company</u>	<u>EPS</u>	<u>DPS</u>	<u>BVPS</u>	<u>b</u>	<u>r</u>	<u>Factor</u>	<u>Adjusted r</u>	<u>br</u>	<u>s</u>	<u>v</u>	<u>sv</u>	<u>br + sv</u>
1	Alliant Energy	\$4.55	\$2.72	\$33.85	40.2%	13.4%	1.0183	13.7%	5.5%	0.0052	0.5769	0.30%	5.8%
2	Ameren Corp.	\$7.15	\$3.57	\$52.65	50.1%	13.6%	1.0177	13.8%	6.9%	0.0152	0.5950	0.90%	7.8%
3	American Elec Pwr	\$7.50	\$4.31	\$60.90	42.5%	12.3%	1.0082	12.4%	5.3%	0.0073	0.5404	0.39%	5.7%
4	Avista Corp.	\$3.10	\$2.40	\$35.50	22.6%	8.7%	1.0111	8.8%	2.0%	0.0100	0.3238	0.32%	2.3%
5	CenterPoint Energy	\$2.40	\$1.25	\$22.50	47.9%	10.7%	1.0273	11.0%	5.3%	0.0001	0.5714	0.01%	5.3%
6	CMS Energy Corp.	\$5.15	\$3.10	\$34.55	39.8%	14.9%	1.0168	15.2%	6.0%	0.0002	0.6710	0.01%	6.0%
7	Dominion Energy	\$4.60	\$2.80	\$41.00	39.1%	11.2%	1.0347	11.6%	4.5%	0.0310	0.4533	1.41%	5.9%
8	DTE Energy Co.	\$9.50	\$5.70	\$72.95	40.0%	13.0%	1.0207	13.3%	5.3%	0.0006	0.5709	0.03%	5.3%
9	Duke Energy Corp.	\$8.50	\$5.30	\$80.00	37.6%	10.6%	1.0206	10.8%	4.1%	0.0025	0.4839	0.12%	4.2%
10	Edison International	\$7.60	\$4.48	\$60.60	41.1%	12.5%	1.0362	13.0%	5.3%	0.0174	0.4088	0.71%	6.0%
11	Entergy Corp.	\$4.35	\$3.00	\$45.80	31.0%	9.5%	1.0003	9.5%	2.9%	0.0147	0.4090	0.60%	3.5%
12	Eversource Energy	\$5.30	\$3.10	\$57.75	41.5%	9.2%	1.0145	9.3%	3.9%	0.0003	0.3921	0.01%	3.9%
13	Eversource Energy	\$6.25	\$3.88	\$55.00	37.9%	11.4%	1.0266	11.7%	4.4%	0.0140	0.4762	0.67%	5.1%
14	FirstEnergy Corp.	\$3.60	\$2.24	\$28.75	37.8%	12.5%	1.0309	12.9%	4.9%	0.0199	0.5400	1.08%	6.0%
15	IDACORP, Inc.	\$7.50	\$4.35	\$77.50	42.0%	9.7%	1.0195	9.9%	4.1%	0.0080	0.4833	0.39%	4.5%
16	OGE Energy Corp.	\$3.15	\$1.85	\$30.70	41.3%	10.3%	1.0243	10.5%	4.3%	0.0016	0.4661	0.08%	4.4%
17	Otter Tail Corp.	\$6.50	\$3.15	\$63.55	51.5%	10.2%	1.0372	10.6%	5.5%	0.0050	0.4351	0.22%	5.7%
18	Pinnacle West Capital	\$7.00	\$4.40	\$75.00	37.1%	9.3%	1.0398	9.7%	3.6%	0.0496	0.4000	1.98%	5.6%
19	Pub Sv Enterprise Grp.	\$5.75	\$3.45	\$46.25	40.0%	12.4%	1.0297	12.8%	5.1%	0.0046	0.5795	0.26%	5.4%
20	Sempra	\$7.00	\$3.52	\$67.25	49.7%	10.4%	1.0371	10.8%	5.4%	0.0147	0.4396	0.64%	6.0%
21	Xcel Energy Inc.	\$5.70	\$3.20	\$53.40	43.9%	10.7%	1.0478	11.2%	4.9%	0.0529	0.5033	2.66%	7.6%

BR+SV GROWTH RATE

UTILITY GROUP

	(a)	(a)	(h)	(a)	(a)	(h)	(i)	(a)	(a)		(j)	(a)	(a)	(i)
		2025			2030		Chg		2025			Common Shares		
Company	Eq Ratio	Tot Cap	Com Eq	Eq Ratio	Tot Cap	Com Eq	Equity	High	Low	Avg.	M/B	2025	2030	Growth
1 Alliant Energy	40.1%	\$18,288	\$7,333	35.5%	\$24,800	\$8,804	3.7%	\$90.0	\$70.0	\$80.0	2.363	257.14	260.00	0.22%
2 Ameren Corp.	45.3%	\$26,450	\$11,982	48.5%	\$29,500	\$14,308	3.6%	\$145.0	\$115.0	\$130.0	2.469	276.40	285.00	0.61%
3 American Elec Pwr	42.0%	\$70,730	\$29,707	42.5%	\$75,900	\$32,258	1.7%	\$145.0	\$120.0	\$132.5	2.176	540.86	550.00	0.34%
4 Avista Corp.	49.0%	\$5,515	\$2,702	52.5%	\$5,750	\$3,019	2.2%	\$60.0	\$45.0	\$52.5	1.479	82.19	85.00	0.67%
5 CenterPoint Energy	35.1%	\$31,776	\$11,153	42.0%	\$34,900	\$14,658	5.6%	\$60.0	\$45.0	\$52.5	2.333	652.87	653.00	0.00%
6 CMS Energy Corp.	32.9%	\$27,086	\$8,911	37.0%	\$28,500	\$10,545	3.4%	\$120.0	\$90.0	\$105.0	3.039	306.40	306.50	0.01%
7 Dominion Energy	38.0%	\$71,350	\$27,113	37.5%	\$102,300	\$38,363	7.2%	\$85.0	\$65.0	\$75.0	1.829	855.00	930.00	1.70%
8 DTE Energy Co.	34.1%	\$36,088	\$12,306	38.5%	\$39,300	\$15,131	4.2%	\$195.0	\$145.0	\$170.0	2.330	207.75	208.00	0.02%
9 Duke Energy Corp.	39.0%	\$131,300	\$51,207	39.0%	\$161,400	\$62,946	4.2%	\$170.0	\$140.0	\$155.0	1.938	778.00	783.00	0.13%
10 Edison International	30.9%	\$55,329	\$17,097	32.5%	\$75,600	\$24,570	7.5%	\$125.0	\$80.0	\$102.5	1.691	384.79	405.00	1.03%
11 Entergy Corp.	45.3%	\$47,858	\$21,680	36.5%	\$59,580	\$21,747	0.1%	\$85.0	\$70.0	\$77.5	1.692	450.15	470.00	0.87%
12 Evergy Inc.	43.9%	\$23,261	\$10,212	48.0%	\$24,600	\$11,808	2.9%	\$110.0	\$80.0	\$95.0	1.645	230.26	230.50	0.02%
13 Eversource Energy	37.5%	\$43,575	\$16,341	38.5%	\$55,400	\$21,329	5.5%	\$120.0	\$90.0	\$105.0	1.909	376.00	390.00	0.73%
14 FirstEnergy Corp.	33.5%	\$38,300	\$12,831	34.0%	\$51,400	\$17,476	6.4%	\$70.0	\$55.0	\$62.5	2.174	578.00	605.00	0.92%
15 IDACORP, Inc.	50.0%	\$7,120	\$3,560	56.0%	\$7,725	\$4,326	4.0%	\$165.0	\$135.0	\$150.0	1.935	54.86	56.00	0.41%
16 OGE Energy Corp.	48.1%	\$10,347	\$4,977	49.6%	\$12,800	\$6,349	5.0%	\$65.0	\$50.0	\$57.5	1.873	206.10	207.00	0.09%
17 Otter Tail Corp.	65.9%	\$2,825	\$1,862	68.8%	\$3,925	\$2,700	7.7%	\$135.0	\$90.0	\$112.5	1.770	41.91	42.50	0.28%
18 Pinnacle West Capital	43.4%	\$16,252	\$7,053	44.5%	\$23,600	\$10,502	8.3%	\$145.0	\$105.0	\$125.0	1.667	120.90	140.00	2.98%
19 Pub Sv Enterprise Grp.	44.5%	\$39,000	\$17,355	45.0%	\$51,900	\$23,355	6.1%	\$120.0	\$100.0	\$110.0	2.378	499.20	504.00	0.19%
20 Sempra	52.1%	\$60,593	\$31,569	48.0%	\$95,300	\$45,744	7.7%	\$145.0	\$95.0	\$120.0	1.784	652.73	680.00	0.82%
21 Xcel Energy Inc.	41.6%	\$56,703	\$23,588	41.5%	\$91,700	\$38,056	10.0%	\$125.0	\$90.0	\$107.5	2.013	623.60	710.00	2.63%

- (a) The Value Line Investment Survey (Feb. 6, Mar. 6 and Apr. 17, 2026).
(b) "b" is the retention ratio, computed as (EPS-DPS)/EPS.
(c) "r" is the rate of return on book equity, computed as EPS/BVPS.
(d) Computed using the formula $2 \times (1 + 5\text{-Yr. Change in Equity}) / (2 + 5 \text{ Yr. Change in Equity})$.
(e) Product of average year-end "r" for 2029 and Adjustment Factor.
(f) Product of change in common shares outstanding and M/B Ratio.
(g) Computed as $1 - \text{B/M Ratio}$.
(h) Product of total capital and equity ratio.
(i) Five-year rate of change.
(j) Average of High and Low expected market prices divided by 2029 BVPS.

CAPM

UTILITY GROUP

		(a)	(b)	(c)		(d)	(e)		(f)		
		Market Return (R _m)									
		Div	Proj.		Risk-Free	Risk		Unadjusted	Market	Size	Adjusted
	Company	Yield	Growth	R _(m)	Rate	Premium	Beta	CAPM	Cap	Adjustment	CAPM
1	Alliant Energy	1.5%	11.5%	13.0%	4.8%	8.2%	0.80	11.4%	\$18,500	0.40%	11.8%
2	Ameren Corp.	1.5%	11.5%	13.0%	4.8%	8.2%	0.75	11.0%	\$30,700	0.27%	11.2%
3	American Elec Pwr	1.5%	11.5%	13.0%	4.8%	8.2%	0.70	10.5%	\$71,400	0.01%	10.6%
4	Avista Corp.	1.5%	11.5%	13.0%	4.8%	8.2%	0.70	10.5%	\$3,400	0.88%	11.4%
5	CenterPoint Energy	1.5%	11.5%	13.0%	4.8%	8.2%	0.75	11.0%	\$28,000	0.27%	11.2%
6	CMS Energy Corp.	1.5%	11.5%	13.0%	4.8%	8.2%	0.70	10.5%	\$23,400	0.27%	10.8%
7	Dominion Energy	1.5%	11.5%	13.0%	4.8%	8.2%	0.80	11.4%	\$51,400	0.27%	11.6%
8	DTE Energy Co.	1.5%	11.5%	13.0%	4.8%	8.2%	0.80	11.4%	\$30,300	0.27%	11.6%
9	Duke Energy Corp.	1.5%	11.5%	13.0%	4.8%	8.2%	0.65	10.1%	\$92,400	0.01%	10.1%
10	Edison International	1.5%	11.5%	13.0%	4.8%	8.2%	0.90	12.2%	\$28,300	0.27%	12.5%
11	Entergy Corp.	1.5%	11.5%	13.0%	4.8%	8.2%	0.80	11.4%	\$46,800	0.27%	11.6%
12	Eversource Energy	1.5%	11.5%	13.0%	4.8%	8.2%	0.75	11.0%	\$18,900	0.40%	11.3%
13	FirstEnergy Corp.	1.5%	11.5%	13.0%	4.8%	8.2%	0.80	11.4%	\$26,400	0.27%	11.6%
14	FirstEnergy Corp.	1.5%	11.5%	13.0%	4.8%	8.2%	0.70	10.5%	\$27,000	0.27%	10.8%
15	IDACORP, Inc.	1.5%	11.5%	13.0%	4.8%	8.2%	0.65	10.1%	\$7,900	0.37%	10.5%
16	OGE Energy Corp.	1.5%	11.5%	13.0%	4.8%	8.2%	0.85	11.8%	\$9,900	0.37%	12.1%
17	Otter Tail Corp.	1.5%	11.5%	13.0%	4.8%	8.2%	0.85	11.8%	\$3,600	0.88%	12.7%
18	Pinnacle West Capital	1.5%	11.5%	13.0%	4.8%	8.2%	0.75	11.0%	\$12,400	0.40%	11.3%
19	Pub Sv Enterprise Grp.	1.5%	11.5%	13.0%	4.8%	8.2%	0.85	11.8%	\$39,500	0.27%	12.0%
20	Sempra	1.5%	11.5%	13.0%	4.8%	8.2%	0.90	12.2%	\$64,000	0.01%	12.2%
21	Xcel Energy Inc.	1.5%	11.5%	13.0%	4.8%	8.2%	0.70	10.5%	\$50,200	0.27%	10.8%
Average											11.4%

- (a) Weighted average for dividend-paying stocks in the S&P 500 based on data from www.valueline.com (retrieved Dec. 31, 2025).
- (b) Average of weighted average earnings growth rates from IBES, Value Line, and Zacks for dividend-paying stocks in the S&P 500 based on data from LSEG, as provided by www.fidelity.com (retrieved Dec. 31, 2025), www.valueline.com (retrieved Dec. 31, 2025), and www.zacks.com (retrieved Dec. 31, 2025). Eliminated growth rates that were greater than 20%, as well as all negative values.
- (c) Average yield on 30-year Treasury bonds for six-months ending Mar. 2026 based on data from <https://fred.stlouisfed.org/>.
- (d) The Value Line Investment Survey, Summary & Index (May 1, 2026).
- (e) The Value Line Investment Survey (Feb. 6, Mar. 6 and Apr. 17, 2026).
- (f) Source: Kroll, 2025 CRSP Deciles Size Premium, Cost of Capital Navigator (2026).

UTILITY RISK PREMIUM

COST OF EQUITY ESTIMATE

<u>Current Equity Risk Premium</u>	
(a) Avg. Yield over Study Period	7.70%
(b) Average Utility Bond Yield	<u>5.68%</u>
Change in Bond Yield	-2.02%
(c) Risk Premium/Interest Rate Relationship	<u>-0.4174</u>
Adjustment to Average Risk Premium	0.84%
(a) Average Risk Premium over Study Period	<u>3.97%</u>
Adjusted Risk Premium	4.81%
<u>Implied Cost of Equity</u>	
(b) Baa Utility Bond Yield	5.84%
Adjusted Equity Risk Premium	<u>4.81%</u>
Risk Premium Cost of Equity	10.65%

- (a) Exhibit JST-8, page 2.
- (b) Average bond yield on all utility bonds and 'Baa' subset for six-months ending Mar. 2026 based on data from Moody's Investors Service at www.credittrends.com.
- (c) Exhibit JST-8, page 3.

UTILITY RISK PREMIUM

AUTHORIZED RETURNS

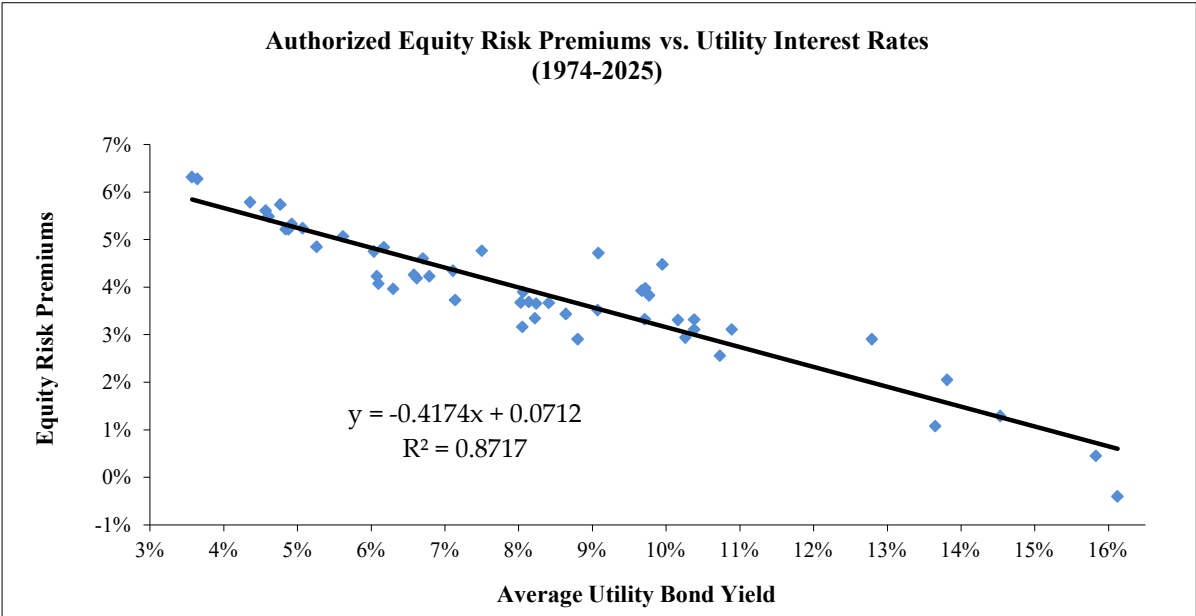
	(a)	(b)	
Year	Allowed ROE	Average Utility Bond Yield	Risk Premium
1974	13.10%	9.27%	3.83%
1975	13.20%	9.88%	3.32%
1976	13.10%	9.17%	3.93%
1977	13.30%	8.58%	4.72%
1978	13.20%	9.22%	3.98%
1979	13.50%	10.39%	3.11%
1980	14.23%	13.15%	1.08%
1981	15.22%	15.62%	-0.40%
1982	15.78%	15.33%	0.45%
1983	15.36%	13.31%	2.05%
1984	15.32%	14.03%	1.29%
1985	15.20%	12.29%	2.91%
1986	13.93%	9.45%	4.48%
1987	12.99%	9.88%	3.11%
1988	12.79%	10.23%	2.56%
1989	12.97%	9.66%	3.31%
1990	12.70%	9.76%	2.94%
1991	12.54%	9.21%	3.33%
1992	12.09%	8.57%	3.52%
1993	11.46%	7.56%	3.90%
1994	11.21%	8.30%	2.91%
1995	11.58%	7.91%	3.67%
1996	11.40%	7.74%	3.66%
1997	11.33%	7.64%	3.69%
1998	11.77%	7.00%	4.77%
1999	10.72%	7.55%	3.17%

	(a)	(b)	
Year	Allowed ROE	Average Utility Bond Yield	Risk Premium
2000	11.58%	8.14%	3.44%
2001	11.07%	7.72%	3.35%
2002	11.21%	7.53%	3.68%
2003	10.96%	6.61%	4.35%
2004	10.81%	6.20%	4.61%
2005	10.51%	5.67%	4.84%
2006	10.34%	6.08%	4.26%
2007	10.31%	6.12%	4.19%
2008	10.37%	6.64%	3.73%
2009	10.52%	6.29%	4.23%
2010	10.29%	5.54%	4.75%
2011	10.19%	5.12%	5.07%
2012	10.01%	4.27%	5.74%
2013	9.81%	4.57%	5.24%
2014	9.75%	4.42%	5.33%
2015	9.60%	4.38%	5.22%
2016	9.60%	4.11%	5.49%
2017	9.68%	4.07%	5.61%
2018	9.56%	4.34%	5.22%
2019	9.65%	3.86%	5.79%
2020	9.39%	3.07%	6.32%
2021	9.42%	3.14%	6.28%
2022	9.61%	4.76%	4.85%
2023	9.68%	5.60%	4.08%
2024	9.81%	5.58%	4.23%
2025	<u>9.77%</u>	<u>5.80%</u>	<u>3.97%</u>
Average	11.61%	7.70%	3.91%

- (a) S&P Global Market Intelligence, *Major Rate Case Decisions*, RRA Regulatory Focus; *UtilityScope Regulatory Service*, Argus. Data for "general" rate cases (excluding limited-issue rider cases) beginning in 2006 (the first year such data presented by RRA).
- (b) Moody's Investors Service.

UTILITY RISK PREMIUM

REGRESSION RESULTS



EXPECTED EARNINGS BENCHMARK

UTILITY GROUP

	(a)	(b)	(c)
Company	Expected Return on Common Equity	Adjustment Factor	Adjusted Return on Common Equity
1 Alliant Energy	13.5%	1.0183	13.7%
2 Ameren Corp.	10.0%	1.0177	10.2%
3 American Elec Pwr	11.0%	1.0082	11.1%
4 Avista Corp.	8.5%	1.0111	8.6%
5 CenterPoint Energy	10.5%	1.0273	10.8%
6 CMS Energy Corp.	15.0%	1.0168	15.3%
7 Dominion Energy	11.0%	1.0347	11.4%
8 DTE Energy Co.	13.0%	1.0207	13.3%
9 Duke Energy Corp.	10.5%	1.0206	10.7%
10 Edison International	12.5%	1.0362	13.0%
11 Entergy Corp.	9.5%	1.0003	9.5%
12 Evergy Inc.	9.0%	1.0145	9.1%
13 Eversource Energy	11.5%	1.0266	11.8%
14 FirstEnergy Corp.	12.5%	1.0309	12.9%
15 IDACORP, Inc.	9.5%	1.0195	9.7%
16 OGE Energy Corp.	10.5%	1.0243	10.8%
17 Otter Tail Corp.	10.5%	1.0372	10.9%
18 Pinnacle West Capital	9.5%	1.0398	9.9%
19 Pub Sv Enterprise Grp.	12.5%	1.0297	12.9%
20 Sempra	10.5%	1.0371	10.9%
21 Xcel Energy Inc.	10.5%	1.0478	11.0%
Average (d)	10.8%		11.1%

- (a) The Value Line Investment Survey (Feb. 6, Mar. 6 and Apr. 17, 2026).
(b) Adjustment to convert year-end return to an average rate of return from Exhibit JST-6.
(c) (a) x (b).
(d) Excludes highlighted values.

DCF BENCHMARK - NON-UTILITY GROUP

DIVIDEND YIELD

			(a)	(b)	
	Company	Industry Group	Price	Dividends	Yield
1	Abbott Labs.	Med Supp Non-Invasive	\$124.98	\$2.36	1.9%
2	Altria Group	Tobacco	\$58.34	\$4.24	7.3%
3	Amdocs Ltd.	IT Services	\$80.71	\$2.11	2.6%
4	AptarGroup	Packaging & Container	\$122.20	\$1.92	1.6%
5	Automatic Data Proc.	Human Resources	\$260.43	\$6.80	2.6%
6	Cboe Global Markets	Brokers & Exchanges	\$255.41	\$2.88	1.1%
7	Chevron Corp.	Petroleum (Integrated)	\$154.28	\$7.80	5.1%
8	Church & Dwight	Household Products	\$85.27	\$1.18	1.4%
9	Cisco Systems	Telecom. Equipment	\$76.90	\$1.66	2.2%
10	CME Group	Brokers & Exchanges	\$271.69	\$5.00	1.8%
11	Coca-Cola	Beverage	\$69.99	\$2.14	3.1%
12	Colgate-Palmolive	Household Products	\$79.43	\$2.08	2.6%
13	Costco Wholesale	Retail Store	\$888.37	\$5.20	0.6%
14	Gen'l Dynamics	Aerospace/Defense	\$346.40	\$6.00	1.7%
15	Home Depot	Retail Building Supply	\$355.81	\$9.20	2.6%
16	Honeywell Int'l	Diversified Co.	\$199.76	\$4.76	2.4%
17	Int'l Business Mach.	Computer Software	\$304.19	\$7.20	2.4%
18	Johnson & Johnson	Drug	\$208.23	\$5.20	2.5%
19	Kimberly-Clark	Household Products	\$100.85	\$5.04	5.0%
20	Loews Corp.	Financial Svcs. (Div.)	\$104.84	\$0.25	0.2%
21	Marsh & McLennan	Financial Svcs. (Div.)	\$184.79	\$3.52	1.9%
22	McDonald's Corp.	Restaurant	\$310.15	\$7.44	2.4%
23	McKesson Corp.	Med Supp Non-Invasive	\$820.11	\$3.28	0.4%
24	Microsoft Corp.	Computer Software	\$479.31	\$3.73	0.8%
25	PepsiCo, Inc.	Beverage	\$145.07	\$6.00	4.1%
26	Philip Morris Int'l	Tobacco	\$158.95	\$5.88	3.7%
27	Procter & Gamble	Household Products	\$143.07	\$4.23	3.0%
28	Realty Income Corp.	R.E.I.T.	\$57.74	\$3.35	5.8%
29	Republic Services	Environmental	\$212.32	\$2.32	1.1%
30	Roper Tech.	Computer Software	\$440.61	\$3.64	0.8%
31	T-Mobile US	Telecom. Services	\$198.47	\$4.21	2.1%
32	Travelers Cos.	Insurance (Prop/Cas.)	\$284.81	\$4.40	1.5%
33	Union Pacific	Railroad	\$233.17	\$5.52	2.4%
34	Verizon Communic.	Telecom. Services	\$40.33	\$2.76	6.8%
35	Walmart Inc.	Retail Store	\$114.70	\$0.94	0.8%
36	Waste Management	Environmental	\$217.62	\$3.30	1.5%
					2.5%

- (a) Average of closing prices for 30 trading days ended Jan. 16, 2026.
(b) The Value Line Investment Survey, *Summary & Index* (Jan. 16, 2026).

DCF BENCHMARK - NON-UTILITY GROUP

GROWTH RATES

	Company	Ticker	(a)	(b)	(c)	(d)
			Earnings Growth			
			IBES	S&P	V Line	Zacks
1	Abbott Labs.	ABT	10.10%	9.65%	6.90%	10.66%
2	Altria Group	MO	3.30%	3.24%	6.65%	3.24%
3	Amdocs Ltd.	DOX	8.30%	8.94%	6.55%	8.94%
4	AptarGroup	ATR	4.90%	8.45%	7.25%	4.91%
5	Automatic Data Proc.	ADP	n/a	9.00%	12.40%	n/a
6	Cboe Global Markets	CBOE	13.50%	14.91%	11.50%	16.26%
7	Chevron Corp.	CVX	4.50%	13.20%	15.00%	2.27%
8	Church & Dwight	CHD	5.00%	5.74%	4.85%	5.74%
9	Cisco Systems	CSCO	8.00%	9.23%	5.00%	8.02%
10	CME Group	CME	6.40%	7.59%	12.50%	6.66%
11	Coca-Cola	KO	6.10%	6.56%	4.05%	6.03%
12	Colgate-Palmolive	CL	3.80%	3.84%	5.00%	3.84%
13	Costco Wholesale	COST	12.80%	9.06%	28.00%	8.31%
14	Gen'l Dynamics	GD	13.10%	11.24%	23.50%	13.16%
15	Home Depot	HD	1.80%	2.92%	21.35%	1.85%
16	Honeywell Int'l	HON	6.50%	8.78%	15.35%	6.83%
17	Int'l Business Mach.	IBM	8.80%	7.63%	14.15%	8.82%
18	Johnson & Johnson	JNJ	7.30%	7.24%	13.50%	8.48%
19	Kimberly-Clark	KMB	4.80%	2.76%	9.00%	3.78%
20	Loews Corp.	L	n/a	n/a	13.00%	n/a
21	Marsh & McLennan	MRSH	7.10%	6.20%	14.00%	6.20%
22	McDonald's Corp.	MCD	7.20%	6.93%	18.50%	7.57%
23	McKesson Corp.	MCK	14.00%	14.63%	57.00%	15.75%
24	Microsoft Corp.	MSFT	16.80%	13.51%	22.00%	16.85%
25	PepsiCo, Inc.	PEP	3.60%	4.24%	10.50%	3.57%
26	Philip Morris Int'l	PM	11.50%	11.13%	9.95%	11.13%
27	Procter & Gamble	PG	4.30%	5.00%	8.00%	4.24%
28	Realty Income Corp.	O	18.80%	7.16%	1.75%	3.52%
29	Republic Services	RSG	7.90%	8.44%	9.95%	8.44%
30	Roper Tech.	ROP	8.00%	10.00%	26.00%	10.00%
31	T-Mobile US	TMUS	15.40%	17.04%	20.15%	15.65%
32	Travelers Cos.	TRV	6.10%	3.96%	31.00%	3.96%
33	Union Pacific	UNP	7.10%	7.61%	16.00%	7.01%
34	Verizon Communic.	VZ	1.60%	1.36%	5.35%	2.18%
35	Walmart Inc.	WMT	8.40%	8.05%	4.00%	8.91%
36	Waste Management	WM	10.90%	10.78%	9.65%	10.78%

- (a) IBES growth rates from LSEG, as provided by www.fidelity.com (Jan. 14, 2026).
(b) S&P Capital IQ growth rates, as provided by www.koyfin.com (retrieved Jan. 20, 2026).
(c) The Value Line Investment Survey (Jan. 14, 2026).
(d) www.zacks.com (retrieved Jan. 14, 2026).

DCF BENCHMARK - NON-UTILITY GROUP

DCF COST OF EQUITY ESTIMATES

	(a)	(b)	(c)	(d)
Company	IBES	S&P	V Line	Zacks
1 Abbott Labs.	12.0%	11.5%	8.8%	12.5%
2 Altria Group	10.6%	10.5%	13.9%	10.5%
3 Amdocs Ltd.	10.9%	11.6%	9.2%	11.6%
4 AptarGroup	6.5%	10.0%	8.8%	6.5%
5 Automatic Data Proc.	n/a	11.6%	15.0%	n/a
6 Cboe Global Markets	14.6%	16.0%	12.6%	17.4%
7 Chevron Corp.	9.6%	18.3%	20.1%	7.3%
8 Church & Dwight	6.4%	7.1%	6.2%	7.1%
9 Cisco Systems	10.2%	11.4%	7.2%	10.2%
10 CME Group	8.2%	9.4%	14.3%	8.5%
11 Coca-Cola	9.2%	9.6%	7.1%	9.1%
12 Colgate-Palmolive	6.4%	6.5%	7.6%	6.5%
13 Costco Wholesale	13.4%	9.6%	28.6%	8.9%
14 Gen'l Dynamics	14.8%	13.0%	25.2%	14.9%
15 Home Depot	4.4%	5.5%	23.9%	4.4%
16 Honeywell Int'l	8.9%	11.2%	17.7%	9.2%
17 Int'l Business Mach.	11.2%	10.0%	16.5%	11.2%
18 Johnson & Johnson	9.8%	9.7%	16.0%	11.0%
19 Kimberly-Clark	9.8%	7.8%	14.0%	8.8%
20 Loews Corp.	n/a	n/a	13.2%	n/a
21 Marsh & McLennan	9.0%	8.1%	15.9%	8.1%
22 McDonald's Corp.	9.6%	9.3%	20.9%	10.0%
23 McKesson Corp.	14.4%	15.0%	57.4%	16.1%
24 Microsoft Corp.	17.6%	14.3%	22.8%	17.6%
25 PepsiCo, Inc.	7.7%	8.4%	14.6%	7.7%
26 Philip Morris Int'l	15.2%	14.8%	13.6%	14.8%
27 Procter & Gamble	7.3%	8.0%	11.0%	7.2%
28 Realty Income Corp.	24.6%	13.0%	7.6%	9.3%
29 Republic Services	9.0%	9.5%	11.0%	9.5%
30 Roper Tech.	8.8%	10.8%	26.8%	10.8%
31 T-Mobile US	17.5%	19.2%	22.3%	17.8%
32 Travelers Cos.	7.6%	5.5%	32.5%	5.5%
33 Union Pacific	9.5%	10.0%	18.4%	9.4%
34 Verizon Communic.	8.4%	8.2%	12.2%	9.0%
35 Walmart Inc.	9.2%	8.9%	4.8%	9.7%
36 Waste Management	12.4%	12.3%	11.2%	12.3%
Average (b)	10.2%	10.3%	11.5%	9.9%

(a) Sum of dividend yield (p. 1) and respective growth rate (p. 2).

(b) Excludes highlighted figures.

Upper Peninsula Power Company
Determination of New PSCR Base Rate
Projected Test Year Ended December 31, 2027

Line		
1	Projected Test Year PSCR Costs	
2		Total
3	FERC Account	UPPCO
4		
5	501 (Fuel Costs)	\$0
6	547 (Fuel Costs)	25,461
7	555 (Purchased Power)	\$35,705,869.29
8	561, 565, 567, 575 (Transmission Costs)	11,387,496
9	Total Fuel, Purchased Power & Transmission O&M	\$47,118,826
10		
11	447 (Opportunity sales)	3,106.04
12	442 (RTMP sales)	5,278,335.22
13	442 (RTMP Transmission)	1,495,483.48
14	447 (Capacity Sales)	\$0
15	447 (Ancillary Services)	-
16	Total Opportunity, RTMP, Capacity Sale & REC Revenues	\$6,776,925
17		
18	Net PSCR Costs	\$40,341,901
19		
20	Generation plus Purchases less Opportunity Sales and RTMP Sales (Mwhs)	611,896
21	System Requirement Sales subject to PSCR Factor (Mwhs)	576,011
22		
23	Average PSCR Cost (\$/Mwh)	\$65.93
24	Current PSCR Base Rate (\$/Mwh)	\$42.90
25	Average PSCR Cost less PSCR Base Rate	\$23.03
26	Current PSCR Loss Factor	1.0623
27		
28	PSCR Factor with CURRENT PSCR Base Rate & Loss Factor (\$/Mwh)	\$24.46
29		
30	CURRENT PSCR Base Rate on Sales excluding losses (\$/Mwh)	\$45.57
31	PROPOSED NEW PSCR BASE RATE, PSCR LOSS FACTOR, AND PSCR FACTOR	
32		Total
33	FERC Account	UPPCO
34		
35	501 (Fuel Costs)	\$0
36	547 (Fuel Costs)	\$25,461
37	555 (Purchased Power)	\$35,705,869
38	561, 565, 567, 575 (Transmission Costs)	\$11,387,496
39	Total Fuel, Purchased Power & Transmission O&M	\$47,118,826
40		
41	447 (Opportunity sales)	\$3,106
42	442 (RTMP sales)	\$5,278,335
43	442 (RTMP Transmission)	\$1,495,483
44	447 (Capacity Sales)	\$0
45	447 (REC Sales)	\$0
46	Total Opportunity, RTMP, Capacity Sale & REC Revenues	\$6,776,925
47		
48	Net PSCR Costs	\$40,341,901
49		
50	Generation plus Purchases less Opportunity Sales and RTMP Sales (Mwhs)	611,896
51	System Requirement Sales subject to PSCR Factor (Mwhs)	576,011
52		
53	Average PSCR Cost (\$/Mwh)	\$65.93
54	PROPOSED PSCR BASE RATE (\$/Mwh)	\$65.93
55	Average PSCR Cost less PSCR Base Rate	\$0.00
56	PROPOSED PSCR Loss Factor	1.0623
57		
58	PSCR Factor with PROPOSED PSCR Base Rate & Loss Factor (\$/Mwh)	\$0.00
59		
60	PROPOSED PSCR Base Rate on Sales excluding losses (\$/Mwh)	\$70.04
61	COMPARISON OF PROPOSED TO CURRENT PSCR RATES	
62		
63	PROPOSED PSCR Base Rate on Sales excluding losses (\$/Mwh)	\$70.04
64	PSCR Factor with PROPOSED PSCR Base Rate & Loss Factor (\$/Mwh)	\$0.00
65	PROPOSED PSCR Base Rate on Sales plus PSCR Factor (\$/Mwh)	\$70.04
66		
67	CURRENT PSCR Base Rate on Sales excluding losses (\$/Mwh)	\$45.57
68	PSCR Factor with CURRENT PSCR Base Rate & Loss Factor (\$/Mwh)	\$24.46
69	CURRENT PSCR Base Rate on Sales plus PSCR Factor (\$/Mwh)	\$70.04
70		
71	PROPOSED minus CURRENT PSCR Base Rate on Sales plus PSCR Factor (\$/Mwh)	\$0.00
72	System Requirement Sales subject to PSCR Factor (Mwhs)	576,011
73	Revenue Requirement Impact of PSCR Loss Factor Change	\$0

EXHIBIT A-43 (BAB-1)

**This confidential material will
be provided pursuant to a
signed Protective Order.**

(MPSC Case No. U-22032)

Case No.: U-22032
 Exhibit: A-44 (NLW-37)
 Page: 1 of 1
 Witness: Natasha L. Wonch

Bad Debt Expense (Historical and Projected)					
			Annual		
		Year Actual	Simple 5 Year Average	Inflation Factor	Inflation Adjusted 5 Year Avg
2021	Actual	\$ 200,410			
2022	Actual	\$ 366,499			
2023	Actual	\$ 318,147			
2024	Actual	\$ 281,208			
2025	Actual	\$ 248,185			
2026	Budget	\$ 383,424			
2027	Projected		\$ 319,493	2.6%	\$ 327,726

Michigan Public Service Commission
Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT

SCH ID	LINE NO.	COS Without Minimum System DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
SUM	1	SUMMARY AT PRESENT RATES	Reference							
SUM	2									
SUM	3	DEVELOPMENT OF RETURN								
SUM	4									
SUM	5	OPERATING REVENUE								
SUM	6	Base Sales of Electricity	SCH , LN	16,966,929	8,965,384	59,062	5,942,507	(126,009)	2,125,985	
SUM	7	Other Operating Revenue	SCH , LN	0	0	0	0	0	0	
SUM	8	TOTAL OPERATING REVENUE		16,966,929	8,965,384	59,062	5,942,507	(126,009)	2,125,985	
SUM	9									
SUM	10	OPERATING EXPENSES								
SUM	11	Operation & Maintenance Expense - Fuel & PP	SCH , LN	0	0	0	0	0	0	
SUM	12	Operation and Maintenance Expense - Non Fuel	SCH , LN	6,137,621	3,285,222	20,897	1,914,812	139,916	776,774	
SUM	13	Depreciation and Amortization Expense	SCH , LN	6,068,972	3,298,607	20,589	1,891,518	127,372	730,887	
SUM	14	Taxes Other Than Income Taxes	SCH , LN	2,363,266	1,284,482	8,017	736,559	49,599	284,608	
SUM	15	State and Federal Income Taxes	SCH , LN	250,101	83,618	1,216	245,789	(121,816)	41,293	
SUM	16	TOTAL OPERATING EXPENSES		14,819,960	7,951,928	50,720	4,788,678	195,071	1,833,562	
SUM	17									
SUM	18	OPERATING INCOME (RETURN)		2,146,969	1,013,456	8,342	1,153,829	(321,079)	292,422	
SUM	19									
SUM	20	OPERATING INCOME ADJUSTMENTS								
SUM	21	AFUDC	TOTPLT	120,538	65,515	409	37,568	2,530	14,516	
SUM	22	Income Tax Effect of Interest & Customer Interest	RATEBASE	9,499	5,146	32	2,964	202	1,155	
SUM	23	Interest Synchronization Adjustment	RATEBASE	14	8	0	4	0	2	
SUM	24	TOTAL OPERATING INCOME ADJUSTMENTS		130,051	70,668	441	40,536	2,732	15,673	
SUM	25	ADJUSTED OPERATING INCOME (RETURN)		2,277,020	1,084,124	8,784	1,194,365	(318,347)	308,095	
SUM	26									
SUM	27									
SUM	28	DEVELOPMENT OF RATE BASE								
SUM	29	Electric Plant in Service	SCH , LN	133,043,876	72,311,983	451,349	41,465,812	2,792,244	16,022,488	
SUM	30	Less: Depreciation & Amortization Reserve	SCH , LN	88,226,927	47,953,083	299,308	27,497,704	1,851,653	10,625,178	
SUM	31	Plus: Plant Held for Future Use	SCH , LN	0	0	0	0	0	0	
SUM	32	Plus: Constuction Work In Progress	SCH , LN	3,671,767	1,995,678	12,456	1,144,380	77,061	442,191	
SUM	33	Plus: Fuel Stock	SCH , LN	0	0	0	0	0	0	
SUM	34	Plus: Cash Working Capital	SCH , LN	9,648,784	5,140,632	32,612	3,026,147	220,744	1,228,648	
SUM	35	Plus: Utility Materials and Supplies	SCH , LN	(288,473)	(156,791)	(979)	(89,908)	(6,054)	(34,741)	
SUM	36	Plus: Prepayments	SCH , LN	586,348	318,692	1,989	182,747	12,306	70,614	
SUM	37	Plus: Cash & Bank Balances	SCH , LN	567,672	308,541	1,926	176,926	11,914	68,365	
SUM	38	Less: Deductions to Rate Base	SCH , LN	634,148	344,672	2,151	197,645	13,309	76,371	
SUM	39	TOTAL NET RATE BASE	SCH , LN	58,368,899	31,620,981	197,894	18,210,756	1,243,252	7,096,017	
SUM	40									
SUM	41									
SUM	42	RATE OF RETURN (PRESENT)		3.90%	3.43%	4.44%	6.56%	-25.61%	4.34%	
SUM	43	INDEX RATE OF RETURN (PRESENT)		1.00	0.88	1.14	1.68	-6.56	1.11	
SUM	44									
SUM	45									
SUM	46									
SUM	47	EQUALIZED RETURN AT PROPOSED ROR	Reference							
SUM	48									
SUM	49	DEVELOPMENT OF RETURN (EQUALIZED RATE LEVELS)								
SUM	50									
SUM	51	RATE BASE	SCH , LN	58,368,899	31,620,981	197,894	18,210,756	1,243,252	7,096,017	
SUM	52									
SUM	53	RATE OF RETURN		6.71%	6.71%	6.71%	6.71%	6.71%	6.71%	
SUM	54									

Michigan Public Service Commission Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
SUM	1	SUMMARY AT PRESENT RATES	Reference									
SUM	2											
SUM	3	DEVELOPMENT OF RETURN										
SUM	4											
SUM	5	OPERATING REVENUE										
SUM	6	Base Sales of Electricity	SCH , LN	8,350,331	0	615,053		2,330,053	0	167,509	3,078,782	
SUM	7	Other Operating Revenue	SCH , LN	0	0	0		0	0	0	0	
SUM	8	TOTAL OPERATING REVENUE		8,350,331	0	615,053		2,330,053	0	167,509	3,078,782	
SUM	9											
SUM	10	OPERATING EXPENSES										
SUM	11	Operation & Maintenance Expense - Fuel & PP	SCH , LN	0	0	0		0	0	0	0	
SUM	12	Operation and Maintenance Expense - Non Fuel	SCH , LN	2,991,583	0	293,639		826,146	0	75,861	767,929	
SUM	13	Depreciation and Amortization Expense	SCH , LN	3,003,620	0	294,987		837,521	0	76,719	768,170	
SUM	14	Taxes Other Than Income Taxes	SCH , LN	1,169,613	0	114,868		326,132	0	29,875	299,127	
SUM	15	State and Federal Income Taxes	SCH , LN	124,158	0	(40,540)		37,122	0	(8,472)	273,690	
SUM	16	TOTAL OPERATING EXPENSES		7,288,974	0	662,954		2,026,921	0	173,983	2,108,916	
SUM	17											
SUM	18	OPERATING INCOME (RETURN)		1,061,357	0	(47,901)		303,132	0	(6,474)	969,866	
SUM	19											
SUM	20	OPERATING INCOME ADJUSTMENTS										
SUM	21	AFUDC	TOTPLT	59,656	0	5,859		16,634	0	1,524	15,257	
SUM	22	Income Tax Effect of Interest & Customer Interest	RATEBASE	4,686	0	460		1,306	0	120	1,201	
SUM	23	Interest Synchronization Adjustment	RATEBASE	7	0	1		2	0	0	2	
SUM	24	TOTAL OPERATING INCOME ADJUSTMENTS		64,349	0	6,320		17,943	0	1,644	16,460	
SUM	25	ADJUSTED OPERATING INCOME (RETURN)		1,125,706	0	(41,581)		321,074	0	(4,831)	986,326	
SUM	26											
SUM	27											
SUM	28	DEVELOPMENT OF RATE BASE										
SUM	29	Electric Plant in Service	SCH , LN	65,845,286	0	6,466,697		18,360,124	0	1,681,843	16,839,814	
SUM	30	Less: Depreciation & Amortization Reserve	SCH , LN	43,664,747	0	4,288,336		12,175,362	0	1,115,300	11,167,181	
SUM	31	Plus: Plant Held for Future Use	SCH , LN	0	0	0		0	0	0	0	
SUM	32	Plus: Constuction Work In Progress	SCH , LN	1,817,209	0	178,469		506,706	0	46,416	464,748	
SUM	33	Plus: Fuel Stock	SCH , LN	0	0	0		0	0	0	0	
SUM	34	Plus: Cash Working Capital	SCH , LN	4,680,961	0	459,671		1,303,929	0	119,899	1,215,044	
SUM	35	Plus: Utility Materials and Supplies	SCH , LN	(142,769)	0	(14,021)		(39,809)	0	(3,647)	(36,513)	
SUM	36	Plus: Prepayments	SCH , LN	290,192	0	28,500		80,916	0	7,412	74,216	
SUM	37	Plus: Cash & Bank Balances	SCH , LN	280,949	0	27,592		78,339	0	7,176	71,852	
SUM	38	Less: Deductions to Rate Base	SCH , LN	313,849	0	30,823		87,513	0	8,016	80,266	
SUM	39	TOTAL NET RATE BASE	SCH , LN	28,793,232	0	2,827,749		8,027,330	0	735,783	7,381,715	
SUM	40											
SUM	41											
SUM	42	RATE OF RETURN (PRESENT)		3.82%	0.00%	-1.56%		3.91%	0.00%	-0.75%	13.28%	
SUM	43	INDEX RATE OF RETURN (PRESENT)		0.98	0.00	-0.40		1.00	0.00	-0.19	3.40	
SUM	44											
SUM	45											
SUM	46											
SUM	47	EQUALIZED RETURN AT PROPOSED ROR	Reference									
SUM	48											
SUM	49	DEVELOPMENT OF RETURN (EQUALIZED RATE LEVELS)										
SUM	50											
SUM	51	RATE BASE	SCH , LN	28,793,232	0	2,827,749		8,027,330	0	735,783	7,381,715	
SUM	52											
SUM	53	RATE OF RETURN		6.71%	6.71%	6.71%		6.71%	6.71%	6.71%	6.71%	
SUM	54											

Michigan Public Service Commission Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Large Comm & Ind CP-U Total	S Secondary CP-U Sec	P Large Commerical & Industrial Primary CP-U Prim	Q Transmission CP-U Trans	T Real-Time Market Pricing RTMP	Q > 5,000kW Light & Power WP-3	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
										(z)
SUM	1	SUMMARY AT PRESENT RATES	Reference							
SUM	2									
SUM	3	DEVELOPMENT OF RETURN								
SUM	4									
SUM	5	OPERATING REVENUE								
SUM	6	Base Sales of Electricity	SCH , LN		1,649,382	366,164	(126,009)	1,409,227	0	716,758
SUM	7	Other Operating Revenue	SCH , LN		0	0	0	0	0	0
SUM	8	TOTAL OPERATING REVENUE			1,649,382	366,164	(126,009)	1,409,227	0	716,758
SUM	9									
SUM	10	OPERATING EXPENSES								
SUM	11	Operation & Maintenance Expense - Fuel & PP	SCH , LN		0	0	0	0	0	0
SUM	12	Operation and Maintenance Expense - Non Fuel	SCH , LN		913,355	244,876	139,916	528,563	0	248,212
SUM	13	Depreciation and Amortization Expense	SCH , LN		858,541	209,107	127,372	522,062	0	208,825
SUM	14	Taxes Other Than Income Taxes	SCH , LN		334,317	81,426	49,599	203,292	0	81,317
SUM	15	State and Federal Income Taxes	SCH , LN		(169,987)	(56,550)	(121,816)	8,379	0	32,914
SUM	16	TOTAL OPERATING EXPENSES			1,936,225	478,859	195,071	1,262,296	0	571,266
SUM	17									
SUM	18	OPERATING INCOME (RETURN)			(286,844)	(112,695)	(321,079)	146,931	0	145,491
SUM	19									
SUM	20	OPERATING INCOME ADJUSTMENTS								
SUM	21	AFUDC	TOTPLT		17,052	4,153	2,530	10,369	0	4,148
SUM	22	Income Tax Effect of Interest & Customer Interest	RATEBASE		1,357	336	202	818	0	337
SUM	23	Interest Synchronization Adjustment	RATEBASE		2	0	0	1	0	0
SUM	24	TOTAL OPERATING INCOME ADJUSTMENTS			18,410	4,490	2,732	11,188	0	4,485
SUM	25	ADJUSTED OPERATING INCOME (RETURN)			(268,433)	(108,205)	(318,347)	158,119	0	149,976
SUM	26									
SUM	27									
SUM	28	DEVELOPMENT OF RATE BASE								
SUM	29	Electric Plant in Service	SCH , LN		18,820,915	4,584,031	2,792,244	11,444,640	0	4,577,848
SUM	30	Less: Depreciation & Amortization Reserve	SCH , LN		12,480,932	3,039,862	1,851,653	7,589,417	0	3,035,762
SUM	31	Plus: Plant Held for Future Use	SCH , LN		0	0	0	0	0	0
SUM	32	Plus: Constuction Work In Progress	SCH , LN		519,423	126,511	77,061	315,851	0	126,340
SUM	33	Plus: Fuel Stock	SCH , LN		0	0	0	0	0	0
SUM	34	Plus: Cash Working Capital	SCH , LN		1,443,730	387,275	220,744	835,711	0	392,938
SUM	35	Plus: Utility Materials and Supplies	SCH , LN		(40,809)	(9,939)	(6,054)	(24,815)	(0)	(9,926)
SUM	36	Plus: Prepayments	SCH , LN		82,947	20,203	12,306	50,439	0	20,175
SUM	37	Plus: Cash & Bank Balances	SCH , LN		80,305	19,559	11,914	48,832	0	19,533
SUM	38	Less: Deductions to Rate Base	SCH , LN		89,709	21,850	13,309	54,550	0	21,820
SUM	39	TOTAL NET RATE BASE	SCH , LN		8,335,871	2,065,928	1,243,252	5,026,690	0	2,069,327
SUM	40									
SUM	41									
SUM	42	RATE OF RETURN (PRESENT)			-3.22%	-5.33%	-25.67%	3.06%	114.61%	7.16%
SUM	43	INDEX RATE OF RETURN (PRESENT)			-0.83	-1.37	-6.58	0.78	29.38	1.83
SUM	44									
SUM	45									
SUM	46									
SUM	47	EQUALIZED RETURN AT PROPOSED ROR	Reference							
SUM	48									
SUM	49	DEVELOPMENT OF RETURN (EQUALIZED RATE LEVELS)								
SUM	50									
SUM	51	RATE BASE	SCH , LN		8,335,871	2,065,928	1,243,252	5,026,690	0	2,069,327
SUM	52									
SUM	53	RATE OF RETURN			6.71%	6.71%	6.71%	6.71%	6.71%	6.71%
SUM	54									

Michigan Public Service Commission Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
RETAIL SYSTEM										
SCH ID	LINE NO.	COS Without Minimum System DESCRIPTION	ALLOCATION BASIS	S Street Lighting SL-3	S Street Light (Closed) SL-5	S Street Lighting SL-6	Street Lighting Total	S Integrated OSL Z-3	S Iron River OSL Z-4	
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag) (ah)
SUM	1	SUMMARY AT PRESENT RATES	Reference							
SUM	2									
SUM	3	DEVELOPMENT OF RETURN								
SUM	4									
SUM	5	OPERATING REVENUE								
SUM	6	Base Sales of Electricity	SCH , LN	6,019	665	40,749	47,432	11,630	0	
SUM	7	Other Operating Revenue	SCH , LN	0	0	0	0	0	0	
SUM	8	TOTAL OPERATING REVENUE		6,019	665	40,749	47,432	11,630	0	
SUM	9									
SUM	10	OPERATING EXPENSES								
SUM	11	Operation & Maintenance Expense - Fuel & PP	SCH , LN	0	0	0	0	0	0	
SUM	12	Operation and Maintenance Expense - Non Fuel	SCH , LN	3,197	173	13,134	16,503	4,394	0	
SUM	13	Depreciation and Amortization Expense	SCH , LN	3,218	173	13,099	16,489	4,100	0	
SUM	14	Taxes Other Than Income Taxes	SCH , LN	1,253	67	5,101	6,421	1,596	0	
SUM	15	State and Federal Income Taxes	SCH , LN	(619)	54	1,632	1,068	149	0	
SUM	16	TOTAL OPERATING EXPENSES		7,049	467	32,965	40,481	10,239	0	
SUM	17									
SUM	18	OPERATING INCOME (RETURN)		(1,030)	197	7,784	6,951	1,391	0	
SUM	19									
SUM	20	OPERATING INCOME ADJUSTMENTS								
SUM	21	AFUDC	TOTPLT	64	3	260	327	81	0	
SUM	22	Income Tax Effect of Interest & Customer Interest	RATEBASE	5	0	20	26	6	0	
SUM	23	Interest Synchronization Adjustment	RATEBASE	0	0	0	0	0	0	
SUM	24	TOTAL OPERATING INCOME ADJUSTMENTS		69	4	281	353	88	0	
SUM	25	ADJUSTED OPERATING INCOME (RETURN)		(961)	201	8,065	7,304	1,479	0	
SUM	26									
SUM	27									
SUM	28	DEVELOPMENT OF RATE BASE								
SUM	29	Electric Plant in Service	SCH , LN	70,537	3,793	287,145	361,475	89,873	0	
SUM	30	Less: Depreciation & Amortization Reserve	SCH , LN	46,776	2,515	190,418	239,709	59,599	0	
SUM	31	Plus: Plant Held for Future Use	SCH , LN	0	0	0	0	0	0	
SUM	32	Plus: Constuction Work In Progress	SCH , LN	1,947	105	7,925	9,976	2,480	0	
SUM	33	Plus: Fuel Stock	SCH , LN	0	0	0	0	0	0	
SUM	34	Plus: Cash Working Capital	SCH , LN	5,061	273	20,792	26,126	6,486	0	
SUM	35	Plus: Utility Materials and Supplies	SCH , LN	(153)	(8)	(623)	(784)	(195)	(0)	
SUM	36	Plus: Prepayments	SCH , LN	311	17	1,266	1,593	396	0	
SUM	37	Plus: Cash & Bank Balances	SCH , LN	301	16	1,225	1,542	383	0	
SUM	38	Less: Deductions to Rate Base	SCH , LN	336	18	1,369	1,723	428	0	
SUM	39	TOTAL NET RATE BASE	SCH , LN	30,891	1,662	125,943	158,496	39,397	0	
SUM	40									
SUM	41									
SUM	42	RATE OF RETURN (PRESENT)		-3.16%	12.05%	6.36%	4.61%	3.81%	-8.82%	
SUM	43	INDEX RATE OF RETURN (PRESENT)		-0.81	3.09	1.63	1.18	0.98	-2.26	
SUM	44									
SUM	45									
SUM	46									
SUM	47	EQUALIZED RETURN AT PROPOSED ROR	Reference							
SUM	48									
SUM	49	DEVELOPMENT OF RETURN (EQUALIZED RATE LEVELS)								
SUM	50									
SUM	51	RATE BASE	SCH , LN	30,891	1,662	125,943	158,496	39,397	0	
SUM	52									
SUM	53	RATE OF RETURN		6.71%	6.71%	6.71%	6.71%	6.71%	6.71%	
SUM	54									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
SUM	55	RETURN (RATE BASE * ROR)		6.71%	3,918,304	2,122,716	13,285	1,222,488	476,356
SUM	56								
SUM	57	LESS:							
SUM	58	OPERATING EXPENSES							
SUM	59	Operation & Maintenance Expense - Fuel & PP	SCH , LN		6,137,621	3,285,222	20,897	1,914,812	776,774
SUM	60	Depreciation and Amortization Expense	SCH , LN		6,068,972	3,298,607	20,589	1,891,518	730,887
SUM	61	Taxes Other Than Income Taxes	SCH , LN		2,363,266	1,284,482	8,017	736,559	284,608
SUM	62	State and Federal Income Taxes	Calculated		789,755	425,107	2,696	255,036	96,617
SUM	63	TOTAL OPERATING EXPENSES			15,359,614	8,293,418	52,200	4,797,925	1,888,887
SUM	64								
SUM	65	EQUALS TOTAL COST OF SERVICE			19,277,918	10,416,134	65,485	6,020,413	2,365,242
SUM	66								
SUM	67	LESS:							
SUM	68	Other Operating Revenue	SCH , LN		0	0	0	0	0
SUM	69								
SUM	70	LESS:							
SUM	71	Operating Income Adjustments (Present)	SCH , LN		130,051	70,668	441	40,536	15,673
SUM	72								
SUM	73	EQUALS:							
SUM	74	DISTRIBUTION BASE RATE SALES @ EQUALIZED ROR 6.71%			19,147,867	10,345,466	65,043	5,979,877	2,349,569
SUM	75								
SUM	76	REVENUE DEFICIENCY (SUFFICIENCY)			2,180,938	1,380,082	5,981	37,370	223,585
SUM	77								
SUM	78								
SUM	79	SALES REVENUE INCREASE (DECREASE) TO RETAIL REVENUES (%)			12.85%	15.39%	10.13%	0.63%	10.52%
SUM	80				1.00	1.20	0.79	0.05	0.82
SUM	81								
SUM	82								
SUM	83								
SUM	84								
SUM	85								
SUM	86								
SUM	87								
SUM	88								
SUM	89								
SUM	90								
SUM	91								
SUM	92								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
SUM	55	RETURN (RATE BASE * ROR)		6.71%	1,932,890	0	189,827		538,875	0	49,393	495,535
SUM	56											
SUM	57	LESS:										
SUM	58	OPERATING EXPENSES										
SUM	59	Operation & Maintenance Expense - Fuel & PP	SCH , LN		2,991,583	0	293,639		826,146	0	75,861	767,929
SUM	60	Depreciation and Amortization Expense	SCH , LN		3,003,620	0	294,987		837,521	0	76,719	768,170
SUM	61	Taxes Other Than Income Taxes	SCH , LN		1,169,613	0	114,868		326,132	0	29,875	299,127
SUM	62	State and Federal Income Taxes	Calculated		389,560	0	35,547		108,734	0	9,356	112,318
SUM	63	TOTAL OPERATING EXPENSES			7,554,376	0	739,041		2,098,534	0	191,812	1,947,543
SUM	64											
SUM	65	EQUALS TOTAL COST OF SERVICE			9,487,266	0	928,868		2,637,408	0	241,205	2,443,078
SUM	66											
SUM	67	LESS:										
SUM	68	Other Operating Revenue	SCH , LN		0	0	0		0	0	0	0
SUM	69											
SUM	70	LESS:										
SUM	71	Operating Income Adjustments (Present)	SCH , LN		64,349	0	6,320		17,943	0	1,644	16,460
SUM	72											
SUM	73	EQUALS:										
SUM	74	DISTRIBUTION BASE RATE SALES @ EQUALIZED ROR 6.71%			9,422,917	0	922,548		2,619,466	0	239,561	2,426,618
SUM	75											
SUM	76	REVENUE DEFICIENCY (SUFFICIENCY)			1,072,586	0	307,495		289,413	0	72,053	(652,164)
SUM	77											
SUM	78											
SUM	79	SALES REVENUE INCREASE (DECREASE) TO RETAIL REVENUES (%)			12.84%	0.00%	49.99%		12.42%	0.00%	43.01%	-21.18%
SUM	80				1.00	0.00	3.89		0.97	0.00	3.35	(1.65)
SUM	81											
SUM	82											
SUM	83											
SUM	84											
SUM	85											
SUM	86											
SUM	87											
SUM	88											
SUM	89											
SUM	90											
SUM	91											
SUM	92											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	Large Comm & Ind	Large Commercial & Industrial	Transmission	Real-Time	Q		
ID	NO.		BASIS	CP-U	Secondary	Primary	Market Pricing	> 5,000kW		
		(a)	(b)	Total	CP-U Sec	CP-U Prim	RTMP	Light & Power		(z)
			(s)	(t)	(u)	(v)	(w)	(y)		
SUM	55	RETURN (RATE BASE * ROR)		6.71%	559,587	138,686	83,460	337,442	0	138,914
SUM	56									
SUM	57	LESS:								
SUM	58	OPERATING EXPENSES								
SUM	59	Operation & Maintenance Expense - Fuel & PP	SCH , LN		913,355	244,876	139,916	528,563	0	248,212
SUM	60	Depreciation and Amortization Expense	SCH , LN		858,541	209,107	127,372	522,062	0	208,825
SUM	61	Taxes Other Than Income Taxes	SCH , LN		334,317	81,426	49,599	203,292	0	81,317
SUM	62	State and Federal Income Taxes	Calculated		102,266	24,628	10,298	67,340	0	29,276
SUM	63	TOTAL OPERATING EXPENSES			2,208,478	560,037	327,185	1,321,257	0	567,629
SUM	64									
SUM	65	EQUALS TOTAL COST OF SERVICE			2,768,065	698,722	410,644	1,658,699	0	706,543
SUM	66									
SUM	67	LESS:								
SUM	68	Other Operating Revenue	SCH , LN		0	0	0	0	0	0
SUM	69									
SUM	70	LESS:								
SUM	71	Operating Income Adjustments (Present)	SCH , LN		18,410	4,490	2,732	11,188	0	4,485
SUM	72									
SUM	73	EQUALS:								
SUM	74	DISTRIBUTION BASE RATE SALES @ EQUALIZED ROR 6.71%			2,749,655	694,232	407,912	1,647,511	0	702,058
SUM	75									
SUM	76	REVENUE DEFICIENCY (SUFFICIENCY)			1,100,273	328,068	533,921	238,284	(0)	(14,699)
SUM	77									
SUM	78									
SUM	79	SALES REVENUE INCREASE (DECREASE) TO RETAIL REVENUES (%)			66.71%	89.60%	0.00%	16.91%	0.00%	-2.05%
SUM	80				5.19	6.97	0.00	1.32	0.00	(0.16)
SUM	81									
SUM	82									
SUM	83									
SUM	84									
SUM	85									
SUM	86									
SUM	87									
SUM	88									
SUM	89									
SUM	90									
SUM	91									
SUM	92									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
RETAIL SYSTEM										
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	S Street Lighting SL-3	S Street Light (Closed) SL-5	S Street Lighting SL-6	Street Lighting Total	S Integrated OSL Z-3	S Iron River OSL Z-4	
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag) (ah)
SUM	55	RETURN (RATE BASE * ROR)		6.71%	2,074	112	8,455	10,640	2,645	0
SUM	56									
SUM	57	LESS:								
SUM	58	OPERATING EXPENSES								
SUM	59	Operation & Maintenance Expense - Fuel & PP	SCH , LN		3,197	173	13,134	16,503	4,394	0
SUM	60	Depreciation and Amortization Expense	SCH , LN		3,218	173	13,099	16,489	4,100	0
SUM	61	Taxes Other Than Income Taxes	SCH , LN		1,253	67	5,101	6,421	1,596	0
SUM	62	State and Federal Income Taxes	Calculated		379	25	1,760	2,164	532	0
SUM	63	TOTAL OPERATING EXPENSES			8,047	438	33,093	41,578	10,622	0
SUM	64									
SUM	65	EQUALS TOTAL COST OF SERVICE			10,120	550	41,547	52,217	13,267	0
SUM	66									
SUM	67	LESS:								
SUM	68	Other Operating Revenue	SCH , LN		0	0	0	0	0	0
SUM	69									
SUM	70	LESS:								
SUM	71	Operating Income Adjustments (Present)	SCH , LN		69	4	281	353	88	0
SUM	72									
SUM	73	EQUALS:								
SUM	74	DISTRIBUTION BASE RATE SALES @ EQUALIZED ROR 6.71%			10,051	546	41,267	51,864	13,179	0
SUM	75									
SUM	76	REVENUE DEFICIENCY (SUFFICIENCY)			4,033	(119)	518	4,432	1,549	(0)
SUM	77									
SUM	78									
SUM	79	SALES REVENUE INCREASE (DECREASE) TO RETAIL REVENUES (%)			67.00%	-17.85%	1.27%	9.34%	13.32%	0.00%
SUM	80				5.21	(1.39)	0.10	0.73	1.04	0.00
SUM	81									
SUM	82									
SUM	83									
SUM	84									
SUM	85									
SUM	86									
SUM	87									
SUM	88									
SUM	89									
SUM	90									
SUM	91									
SUM	92									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
PLT	1	DEVELOPMENT OF RATE BASE - 13 Month Average							
PLT	2								
PLT	3	ELECTRIC PLANT IN SERVICE							
PLT	4								
PLT	5	INTANGIBLE PLANT							
PLT	6	301-Organization	SALWAGXAG	0	0	0	0	0	0
PLT	7	302-Franchises and Consents	PTDPLT	1,606,220	873,012	5,449	500,611	33,710	193,437
PLT	8	303-Misc. Intangible Plant	PTDPLT	0	0	0	0	0	0
PLT	9	TOTAL INTANGIBLE		1,606,220	873,012	5,449	500,611	33,710	193,437
PLT	10								
PLT	11	PRODUCTION PLANT							
PLT	12	Steam Production							
PLT	13	310-Land and Land Rights	DPROD	141,450	76,881	480	44,086	2,969	17,035
PLT	14	311-Structures & Improvements	DPROD	0	0	0	0	0	0
PLT	15	312-Boiler Plant Equipment	DPROD	0	0	0	0	0	0
PLT	16	314-Turbo-Generator Units	DPROD	0	0	0	0	0	0
PLT	17	315-Accessory Electric Equipment	DPROD	0	0	0	0	0	0
PLT	18	316-Misc Power Plant Equipment	DPROD	0	0	0	0	0	0
PLT	19	Total Steam Production		141,450	76,881	480	44,086	2,969	17,035
PLT	20								
PLT	21	Hydraulic Production							
PLT	22	330-Land and Land Rights	DPROD	622,438	338,307	2,112	193,995	13,063	74,960
PLT	23	331-Structures & Improvements	DPROD	3,347,692	1,819,537	11,357	1,043,376	70,259	403,163
PLT	24	332-Reservoirs, Dams and Waterways	DPROD	93,915,331	51,044,843	318,606	29,270,610	1,971,038	11,310,233
PLT	25	333-Water Wheels, Turbines, and Generators	DPROD	4,603,856	2,502,287	15,618	1,434,885	96,623	554,443
PLT	26	334-Accessory Electric Equipment	DPROD	7,034,329	3,823,297	23,864	2,192,391	147,632	847,145
PLT	27	335-Misc Power Plant Equipment	DPROD	1,178,405	640,487	3,998	367,274	24,732	141,915
PLT	28	336-Roads, Railroads, and Bridges	DPROD	1,092,359	593,719	3,706	340,456	22,926	131,553
PLT	29	Total Steam Production		111,794,409	60,762,477	379,260	34,842,986	2,346,273	13,463,413
PLT	30								
PLT	31	Other Production Combustion Equipment:							
PLT	32	340-Land and Land Rights	DPROD	62,188	33,800	211	19,382	1,305	7,489
PLT	33	341-Structures & Improvements	DPROD	227,483	123,641	772	70,900	4,774	27,396
PLT	34	342-Fuel Holders, Prod & Acc	DPROD	1,628,178	884,947	5,524	507,455	34,171	196,082
PLT	35	343-Other Production Engine	DPROD	3,295,968	1,791,424	11,182	1,027,255	69,174	396,934
PLT	36	344-Generators	DPROD	1,171,346	636,650	3,974	365,074	24,583	141,065
PLT	37	345-Accessory Electric Equipment	DPROD	892,675	485,186	3,028	278,220	18,735	107,505
PLT	38	346-Misc Power Plant Equipment	DPROD	31,372	17,051	106	9,778	658	3,778
PLT	39	Total Other Production Combustion Equipment		7,309,210	3,972,700	24,796	2,278,063	153,401	880,249
PLT	40								
PLT	41	Production - Energy	DPROD	0	0	0	0	0	0
PLT	42								
PLT	43	TOTAL PRODUCTION PLANT		119,245,069	64,812,058	404,536	37,165,135	2,502,643	14,360,696
PLT	44								
PLT	45								

Upper Peninsula Power Company												
Forecasted Cost of Service Allocation Study												
Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
PLT	1	DEVELOPMENT OF RATE BASE - 13 Month Average										
PLT	2											
PLT	3	ELECTRIC PLANT IN SERVICE										
PLT	4											
PLT	5	INTANGIBLE PLANT										
PLT	6	301-Organization	SALWAGXAG		0	0	0		0	0	0	0
PLT	7	302-Franchises and Consents	PTDPLT		794,941	0	78,072		221,659	0	20,305	203,305
PLT	8	303-Misc. Intangible Plant	PTDPLT		0	0	0		0	0	0	0
PLT	9	TOTAL INTANGIBLE			794,941	0	78,072		221,659	0	20,305	203,305
PLT	10											
PLT	11	PRODUCTION PLANT										
PLT	12	Steam Production										
PLT	13	310-Land and Land Rights	DPROD		70,006	0	6,875		19,520	0	1,788	17,904
PLT	14	311-Structures & Improvements	DPROD		0	0	0		0	0	0	0
PLT	15	312-Boiler Plant Equipment	DPROD		0	0	0		0	0	0	0
PLT	16	314-Turbo-Generator Units	DPROD		0	0	0		0	0	0	0
PLT	17	315-Accessory Electric Equipment	DPROD		0	0	0		0	0	0	0
PLT	18	316-Misc Power Plant Equipment	DPROD		0	0	0		0	0	0	0
PLT	19	Total Steam Production			70,006	0	6,875		19,520	0	1,788	17,904
PLT	20											
PLT	21	Hydraulic Production										
PLT	22	330-Land and Land Rights	DPROD		308,053	0	30,254		85,897	0	7,868	78,784
PLT	23	331-Structures & Improvements	DPROD		1,656,820	0	162,717		461,983	0	42,319	423,729
PLT	24	332-Reservoirs, Dams and Waterways	DPROD		46,480,018	0	4,564,825		12,960,364	0	1,187,208	11,887,182
PLT	25	333-Water Wheels, Turbines, and Generators	DPROD		2,278,513	0	223,774		635,334	0	58,199	582,726
PLT	26	334-Accessory Electric Equipment	DPROD		3,481,388	0	341,909		970,741	0	88,923	890,359
PLT	27	335-Misc Power Plant Equipment	DPROD		583,209	0	57,277		162,621	0	14,897	149,155
PLT	28	336-Roads, Railroads, and Bridges	DPROD		540,624	0	53,095		150,746	0	13,809	138,264
PLT	29	Total Steam Production			55,328,626	0	5,433,851		15,427,686	0	1,413,223	14,150,197
PLT	30											
PLT	31	Other Production Combustion Equipment:										
PLT	32	340-Land and Land Rights	DPROD		30,778	0	3,023		8,582	0	786	7,871
PLT	33	341-Structures & Improvements	DPROD		112,584	0	11,057		31,393	0	2,876	28,793
PLT	34	342-Fuel Holders, Prod & Acc	DPROD		805,808	0	79,139		224,689	0	20,582	206,084
PLT	35	343-Other Production Engine	DPROD		1,631,221	0	160,203		454,845	0	41,665	417,182
PLT	36	344-Generators	DPROD		579,716	0	56,934		161,646	0	14,807	148,261
PLT	37	345-Accessory Electric Equipment	DPROD		441,797	0	43,389		123,190	0	11,285	112,989
PLT	38	346-Misc Power Plant Equipment	DPROD		15,527	0	1,525		4,329	0	397	3,971
PLT	39	Total Other Production Combustion Equipment			3,617,431	0	355,270		1,008,675	0	92,398	925,151
PLT	40											
PLT	41	Production - Energy	DPROD		0	0	0		0	0	0	0
PLT	42											
PLT	43	TOTAL PRODUCTION PLANT			59,016,062	0	5,795,996		16,455,881	0	1,507,408	15,093,253
PLT	44											
PLT	45											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	Large Comm & Ind	Large Commercial & Industrial	Transmission	Real-Time	> 5,000kW		
ID	NO.		BASIS	CP-U	Secondary	Primary	Market Pricing	Light & Power		
		(a)	(b)	Total	CP-U Sec	CP-U Prim	CP-U Trans	RTMP	WP-3	(z)
PLT	1	DEVELOPMENT OF RATE BASE - 13 Month Average								
PLT	2									
PLT	3	ELECTRIC PLANT IN SERVICE								
PLT	4									
PLT	5	INTANGIBLE PLANT								
PLT	6	301-Organization	SALWAGXAG	0	0	0	0	0	0	
PLT	7	302-Franchises and Consents	PTDPLT	227,222	55,342	33,710	138,170	0	55,268	
PLT	8	303-Misc. Intangible Plant	PTDPLT	0	0	0	0	0	0	
PLT	9	TOTAL INTANGIBLE		227,222	55,342	33,710	138,170	0	55,268	
PLT	10									
PLT	11	PRODUCTION PLANT								
PLT	12	Steam Production								
PLT	13	310-Land and Land Rights	DPROD	20,010	4,874	2,969	12,168	0	4,867	
PLT	14	311-Structures & Improvements	DPROD	0	0	0	0	0	0	
PLT	15	312-Boiler Plant Equipment	DPROD	0	0	0	0	0	0	
PLT	16	314-Turbo-Generator Units	DPROD	0	0	0	0	0	0	
PLT	17	315-Accessory Electric Equipment	DPROD	0	0	0	0	0	0	
PLT	18	316-Misc Power Plant Equipment	DPROD	0	0	0	0	0	0	
PLT	19	Total Steam Production		20,010	4,874	2,969	12,168	0	4,867	
PLT	20									
PLT	21	Hydraulic Production								
PLT	22	330-Land and Land Rights	DPROD	88,053	21,446	13,063	53,543	0	21,417	
PLT	23	331-Structures & Improvements	DPROD	473,578	115,345	70,259	287,974	0	115,189	
PLT	24	332-Reservoirs, Dams and Waterways	DPROD	13,285,636	3,235,856	1,971,038	8,078,742	0	3,231,491	
PLT	25	333-Water Wheels, Turbines, and Generators	DPROD	651,280	158,626	96,623	396,031	0	158,412	
PLT	26	334-Accessory Electric Equipment	DPROD	995,104	242,368	147,632	605,104	0	242,041	
PLT	27	335-Misc Power Plant Equipment	DPROD	166,702	40,602	24,732	101,368	0	40,547	
PLT	28	336-Roads, Railroads, and Bridges	DPROD	154,529	37,637	22,926	93,966	0	37,586	
PLT	29	Total Steam Production		15,814,881	3,851,880	2,346,273	9,616,728	0	3,846,685	
PLT	30									
PLT	31	Other Production Combustion Equipment:								
PLT	32	340-Land and Land Rights	DPROD	8,797	2,143	1,305	5,350	0	2,140	
PLT	33	341-Structures & Improvements	DPROD	32,181	7,838	4,774	19,568	0	7,827	
PLT	34	342-Fuel Holders, Prod & Acc	DPROD	230,329	56,099	34,171	140,058	0	56,023	
PLT	35	343-Other Production Engine	DPROD	466,261	113,563	69,174	283,524	0	113,410	
PLT	36	344-Generators	DPROD	165,703	40,359	24,583	100,761	0	40,304	
PLT	37	345-Accessory Electric Equipment	DPROD	126,281	30,757	18,735	76,789	0	30,716	
PLT	38	346-Misc Power Plant Equipment	DPROD	4,438	1,081	658	2,699	0	1,079	
PLT	39	Total Other Production Combustion Equipment		1,033,990	251,839	153,401	628,750	0	251,499	
PLT	40									
PLT	41	Production - Energy	DPROD	0	0	0	0	0	0	
PLT	42									
PLT	43	TOTAL PRODUCTION PLANT		16,868,881	4,108,593	2,502,643	10,257,645	0	4,103,051	
PLT	44									
PLT	45									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH	LINE	COS Without Minimum System		ALLOCATION	S	S	S	S	S	
ID	NO.	DESCRIPTION		BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
		(a)	(b)		(aa)	(ab)	(ac)	(ad)	(ae)	(af)
										(ag)
										(ah)
PLT	1	DEVELOPMENT OF RATE BASE - 13 Month Average								
PLT	2									
PLT	3	ELECTRIC PLANT IN SERVICE								
PLT	4									
PLT	5	INTANGIBLE PLANT								
PLT	6	301-Organization	SALWAGXAG		0	0	0	0	0	0
PLT	7	302-Franchises and Consents	PTDPLT		852	46	3,467	4,364	1,085	0
PLT	8	303-Misc. Intangible Plant	PTDPLT		0	0	0	0	0	0
PLT	9	TOTAL INTANGIBLE			852	46	3,467	4,364	1,085	0
PLT	10									
PLT	11	PRODUCTION PLANT								
PLT	12	Steam Production								
PLT	13	310-Land and Land Rights	DPROD		75	4	305	384	96	0
PLT	14	311-Structures & Improvements	DPROD		0	0	0	0	0	0
PLT	15	312-Boiler Plant Equipment	DPROD		0	0	0	0	0	0
PLT	16	314-Turbo-Generator Units	DPROD		0	0	0	0	0	0
PLT	17	315-Accessory Electric Equipment	DPROD		0	0	0	0	0	0
PLT	18	316-Misc Power Plant Equipment	DPROD		0	0	0	0	0	0
PLT	19	Total Steam Production			75	4	305	384	96	0
PLT	20									
PLT	21	Hydraulic Production								
PLT	22	330-Land and Land Rights	DPROD		330	18	1,343	1,691	420	0
PLT	23	331-Structures & Improvements	DPROD		1,775	95	7,225	9,096	2,261	0
PLT	24	332-Reservoirs, Dams and Waterways	DPROD		49,792	2,678	202,695	255,165	63,441	0
PLT	25	333-Water Wheels, Turbines, and Generators	DPROD		2,441	131	9,936	12,509	3,110	0
PLT	26	334-Accessory Electric Equipment	DPROD		3,729	201	15,182	19,112	4,752	0
PLT	27	335-Misc Power Plant Equipment	DPROD		625	34	2,543	3,202	796	0
PLT	28	336-Roads, Railroads, and Bridges	DPROD		579	31	2,358	2,968	738	0
PLT	29	Total Steam Production			59,271	3,187	241,283	303,741	75,519	0
PLT	30									
PLT	31	Other Production Combustion Equipment:								
PLT	32	340-Land and Land Rights	DPROD		33	2	134	169	42	0
PLT	33	341-Structures & Improvements	DPROD		121	6	491	618	154	0
PLT	34	342-Fuel Holders, Prod & Acc	DPROD		863	46	3,514	4,424	1,100	0
PLT	35	343-Other Production Engine	DPROD		1,747	94	7,114	8,955	2,226	0
PLT	36	344-Generators	DPROD		621	33	2,528	3,183	791	0
PLT	37	345-Accessory Electric Equipment	DPROD		473	25	1,927	2,425	603	0
PLT	38	346-Misc Power Plant Equipment	DPROD		17	1	68	85	21	0
PLT	39	Total Other Production Combustion Equipment			3,875	208	15,775	19,859	4,937	0
PLT	40									
PLT	41	Production - Energy	DPROD		0	0	0	0	0	0
PLT	42									
PLT	43	TOTAL PRODUCTION PLANT			63,221	3,400	257,364	323,984	80,552	0
PLT	44									
PLT	45									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
PLT	46								
PLT	47	ELECTRIC PLANT IN SERVICE CONTINUED							
PLT	48								
PLT	49	TRANSMISSION PLANT	DTRAN	0	0	0	0	0	0
PLT	50								
PLT	51								
PLT	52	DISTRIBUTION PLANT							
PLT	53	360-Land and Land Rights	DDISPSUB	0	0	0	0	0	0
PLT	54	361-Structures & Improvements	DDISPSUB	0	0	0	0	0	0
PLT	55	362-Station Equipment	DDISPSUB	0	0	0	0	0	0
PLT	56	364-Towers and Fixtures							
PLT	57	Primary - Demand	DDISTPRI	0	0	0	0	0	0
PLT	58	Primary - Customer	CDISTPRI	0	0	0	0	0	0
PLT	59	Secondary - Demand	DDISTSEC	0	0	0	0	0	0
PLT	60	Secondary - Customer	CDISTSEC	0	0	0	0	0	0
PLT	61	Total Account 364		0	0	0	0	0	0
PLT	62	365-Overhead Conductors & Devices							
PLT	63	Primary - Demand	DDISTPRI	0	0	0	0	0	0
PLT	64	Primary - Customer	CDISTPRI	0	0	0	0	0	0
PLT	65	Secondary - Demand	DDISTSEC	0	0	0	0	0	0
PLT	66	Secondary - Customer	CDISTSEC	0	0	0	0	0	0
PLT	67	Total Account 365		0	0	0	0	0	0
PLT	68	366-Underground Conduit	DDISTSEC	0	0	0	0	0	0
PLT	69	367-Underground Conductor							
PLT	70	Primary - Demand	DDISTPRI	0	0	0	0	0	0
PLT	71	Primary - Customer	CDISTPRI	0	0	0	0	0	0
PLT	72	Secondary - Demand	DDISTSEC	0	0	0	0	0	0
PLT	73	Secondary - Customer	CDISTSEC	0	0	0	0	0	0
PLT	74	Total Account 367		0	0	0	0	0	0
PLT	75	368-Line Transformers - Demand	DDISTSLT	0	0	0	0	0	0
PLT	76	368-Line Transformers - Customer	CDISTSLT	0	0	0	0	0	0
PLT	77	369-Services	CSERVICE	0	0	0	0	0	0
PLT	78	370-Meters	CMETERS	0	0	0	0	0	0
PLT	79	371-Inst. on Customer Premises	CUSTPREM	0	0	0	0	0	0
PLT	80	373-Street Lighting / Signal Systems	CLIGHT	0	0	0	0	0	0
PLT	81	TOTAL DISTRIBUTION PLANT		0	0	0	0	0	0
PLT	82				129,653,810	9,695,599			
PLT	83								
PLT	84	TOTAL PROD, TRANS, & DIST PLANT		119,245,069	64,812,058	404,536	37,165,135	2,502,643	14,360,696
PLT	85								
PLT	86								
PLT	87								
PLT	88								
PLT	89								
PLT	90								
PLT	91								
PLT	92								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
PLT	46											
PLT	47	ELECTRIC PLANT IN SERVICE CONTINUED										
PLT	48											
PLT	49	TRANSMISSION PLANT	DTRAN		0	0	0		0	0	0	0
PLT	50											
PLT	51											
PLT	52	DISTRIBUTION PLANT										
PLT	53	360-Land and Land Rights	DDISPSUB		0	0	0		0	0	0	0
PLT	54	361-Structures & Improvements	DDISPSUB		0	0	0		0	0	0	0
PLT	55	362-Station Equipment	DDISPSUB		0	0	0		0	0	0	0
PLT	56	364-Towers and Fixtures										
PLT	57	Primary - Demand	DDISTPRI		0	0	0		0	0	0	0
PLT	58	Primary - Customer	CDISTPRI		0	0	0		0	0	0	0
PLT	59	Secondary - Demand	DDISTSEC		0	0	0		0	0	0	0
PLT	60	Secondary - Customer	CDISTSEC		0	0	0		0	0	0	0
PLT	61	Total Account 364			0	0	0		0	0	0	0
PLT	62	365-Overhead Conductors & Devices										
PLT	63	Primary - Demand	DDISTPRI		0	0	0		0	0	0	0
PLT	64	Primary - Customer	CDISTPRI		0	0	0		0	0	0	0
PLT	65	Secondary - Demand	DDISTSEC		0	0	0		0	0	0	0
PLT	66	Secondary - Customer	CDISTSEC		0	0	0		0	0	0	0
PLT	67	Total Account 365			0	0	0		0	0	0	0
PLT	68	366-Underground Conduit	DDISTSEC		0	0	0		0	0	0	0
PLT	69	367-Underground Conductor										
PLT	70	Primary - Demand	DDISTPRI		0	0	0		0	0	0	0
PLT	71	Primary - Customer	CDISTPRI		0	0	0		0	0	0	0
PLT	72	Secondary - Demand	DDISTSEC		0	0	0		0	0	0	0
PLT	73	Secondary - Customer	CDISTSEC		0	0	0		0	0	0	0
PLT	74	Total Account 367			0	0	0		0	0	0	0
PLT	75	368-Line Transformers - Demand	DDISTSLT		0	0	0		0	0	0	0
PLT	76	368-Line Transformers - Customer	CDISTSLT		0	0	0		0	0	0	0
PLT	77	369-Services	CSERVICE		0	0	0		0	0	0	0
PLT	78	370-Meters	CMETERS		0	0	0		0	0	0	0
PLT	79	371-Inst. on Customer Premises	CUSTPREM		0	0	0		0	0	0	0
PLT	80	373-Street Lighting / Signal Systems	CLIGHT		0	0	0		0	0	0	0
PLT	81	TOTAL DISTRIBUTION PLANT			0	0	0		0	0	0	0
PLT	82											
PLT	83											
PLT	84	TOTAL PROD, TRANS, & DIST PLANT			59,016,062	0	5,795,996		16,455,881	0	1,507,408	15,093,253
PLT	85											
PLT	86											
PLT	87											
PLT	88											
PLT	89											
PLT	90											
PLT	91											
PLT	92											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
COS Without Minimum System				Large Comm & Ind	S Large Commerical & Industrial		Q	T	Q	
SCH	LINE	DESCRIPTION	ALLOCATION BASIS	CP-U	Secondary	Primary	Transmission	Real-Time	Light & Power	
ID	NO.			Total	CP-U Sec	CP-U Prim	CP-U Trans	Market Pricing	WP-3	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
										(z)
PLT	46									
PLT	47	ELECTRIC PLANT IN SERVICE CONTINUED								
PLT	48									
PLT	49	TRANSMISSION PLANT	DTRAN		0	0	0	0	0	0
PLT	50									
PLT	51									
PLT	52	DISTRIBUTION PLANT								
PLT	53	360-Land and Land Rights	DDISPSUB		0	0	0	0	0	0
PLT	54	361-Structures & Improvements	DDISPSUB		0	0	0	0	0	0
PLT	55	362-Station Equipment	DDISPSUB		0	0	0	0	0	0
PLT	56	364-Towers and Fixtures								
PLT	57	Primary - Demand	DDISTPRI		0	0	0	0	0	0
PLT	58	Primary - Customer	CDISTPRI		0	0	0	0	0	0
PLT	59	Secondary - Demand	DDISTSEC		0	0	0	0	0	0
PLT	60	Secondary - Customer	CDISTSEC		0	0	0	0	0	0
PLT	61	Total Account 364			0	0	0	0	0	0
PLT	62	365-Overhead Conductors & Devices								
PLT	63	Primary - Demand	DDISTPRI		0	0	0	0	0	0
PLT	64	Primary - Customer	CDISTPRI		0	0	0	0	0	0
PLT	65	Secondary - Demand	DDISTSEC		0	0	0	0	0	0
PLT	66	Secondary - Customer	CDISTSEC		0	0	0	0	0	0
PLT	67	Total Account 365			0	0	0	0	0	0
PLT	68	366-Underground Conduit	DDISTSEC		0	0	0	0	0	0
PLT	69	367-Underground Conductor								
PLT	70	Primary - Demand	DDISTPRI		0	0	0	0	0	0
PLT	71	Primary - Customer	CDISTPRI		0	0	0	0	0	0
PLT	72	Secondary - Demand	DDISTSEC		0	0	0	0	0	0
PLT	73	Secondary - Customer	CDISTSEC		0	0	0	0	0	0
PLT	74	Total Account 367			0	0	0	0	0	0
PLT	75	368-Line Transformers - Demand	DDISTSLT		0	0	0	0	0	0
PLT	76	368-Line Transformers - Customer	CDISTSLT		0	0	0	0	0	0
PLT	77	369-Services	CSERVICE		0	0	0	0	0	0
PLT	78	370-Meters	CMETERS		0	0	0	0	0	0
PLT	79	371-Inst. on Customer Premises	CUSTPREM		0	0	0	0	0	0
PLT	80	373-Street Lighting / Signal Systems	CLIGHT		0	0	0	0	0	0
PLT	81	TOTAL DISTRIBUTION PLANT			0	0	0	0	0	0
PLT	82									
PLT	83									
PLT	84	TOTAL PROD, TRANS, & DIST PLANT			16,868,881	4,108,593	2,502,643	10,257,645	0	4,103,051
PLT	85									
PLT	86									
PLT	87									
PLT	88									
PLT	89									
PLT	90									
PLT	91									
PLT	92									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH	LINE	COS Without Minimum System		ALLOCATION	S	S	S	S	S	
ID	NO.	DESCRIPTION		BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
		(a)	(b)		(aa)	(ab)	(ac)	(ad)	(ae)	(af)
										(ag)
										(ah)
PLT	46	ELECTRIC PLANT IN SERVICE CONTINUED								
PLT	47									
PLT	48									
PLT	49	TRANSMISSION PLANT	DTRAN		0	0	0	0	0	0
PLT	50									
PLT	51									
PLT	52	DISTRIBUTION PLANT								
PLT	53	360-Land and Land Rights	DDISPSUB		0	0	0	0	0	0
PLT	54	361-Structures & Improvements	DDISPSUB		0	0	0	0	0	0
PLT	55	362-Station Equipment	DDISPSUB		0	0	0	0	0	0
PLT	56	364-Towers and Fixtures								
PLT	57	Primary - Demand	DDISTPRI		0	0	0	0	0	0
PLT	58	Primary - Customer	CDISTPRI		0	0	0	0	0	0
PLT	59	Secondary - Demand	DDISTSEC		0	0	0	0	0	0
PLT	60	Secondary - Customer	CDISTSEC		0	0	0	0	0	0
PLT	61	Total Account 364			0	0	0	0	0	0
PLT	62	365-Overhead Conductors & Devices								
PLT	63	Primary - Demand	DDISTPRI		0	0	0	0	0	0
PLT	64	Primary - Customer	CDISTPRI		0	0	0	0	0	0
PLT	65	Secondary - Demand	DDISTSEC		0	0	0	0	0	0
PLT	66	Secondary - Customer	CDISTSEC		0	0	0	0	0	0
PLT	67	Total Account 365			0	0	0	0	0	0
PLT	68	366-Underground Conduit	DDISTSEC		0	0	0	0	0	0
PLT	69	367-Underground Conductor								
PLT	70	Primary - Demand	DDISTPRI		0	0	0	0	0	0
PLT	71	Primary - Customer	CDISTPRI		0	0	0	0	0	0
PLT	72	Secondary - Demand	DDISTSEC		0	0	0	0	0	0
PLT	73	Secondary - Customer	CDISTSEC		0	0	0	0	0	0
PLT	74	Total Account 367			0	0	0	0	0	0
PLT	75	368-Line Transformers - Demand	DDISTSLT		0	0	0	0	0	0
PLT	76	368-Line Transformers - Customer	CDISTSLT		0	0	0	0	0	0
PLT	77	369-Services	CSERVICE		0	0	0	0	0	0
PLT	78	370-Meters	CMETERS		0	0	0	0	0	0
PLT	79	371-Inst. on Customer Premises	CUSTPREM		0	0	0	0	0	0
PLT	80	373-Street Lighting / Signal Systems	CLIGHT		0	0	0	0	0	0
PLT	81	TOTAL DISTRIBUTION PLANT			0	0	0	0	0	0
PLT	82									
PLT	83									
PLT	84	TOTAL PROD, TRANS, & DIST PLANT			63,221	3,400	257,364	323,984	80,552	0
PLT	85									
PLT	86									
PLT	87									
PLT	88									
PLT	89									
PLT	90									
PLT	91									
PLT	92									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
PLT 93		ELECTRIC PLANT IN SERVICE CONTINUED							
PLT 94									
PLT 95		GENERAL PLANT							
PLT 96		389-Land and Land Rights	SALWAGXAG	116,858	63,515	396	36,421	2,453	14,073
PLT 97		390-Structures & Improvements	SALWAGXAG	3,753,637	2,040,176	12,734	1,169,897	78,779	452,051
PLT 98		391-Office Furniture & Equipment	SALWAGXAG	131,758	71,613	447	41,065	2,765	15,868
PLT 99		392-Transportation Equipment	SALWAGXAG	2,166,087	1,177,311	7,348	675,105	45,461	260,862
PLT 100		393-Stores Equipment	SALWAGXAG	16,337	8,880	55	5,092	343	1,967
PLT 101		394-Tools, Shop & Garage Equip.	SALWAGXAG	444,387	241,533	1,508	138,502	9,327	53,518
PLT 102		395-Laboratory Equipment	SALWAGXAG	221,836	120,572	753	69,140	4,656	26,716
PLT 103		396-Power Operated Equipment	SALWAGXAG	452,646	246,022	1,536	141,076	9,500	54,512
PLT 104		397-Communication Equipment	SALWAGXAG	4,863,481	2,643,399	16,499	1,515,802	102,072	585,710
PLT 105		398-Miscellaneous Equipment	SALWAGXAG	25,560	13,892	87	7,966	536	3,078
PLT 106		TOTAL GENERAL PLANT		12,192,587	6,626,913	41,363	3,800,066	255,891	1,468,355
PLT 107									
PLT 108		COMPLETED CONSTRUCTION NOT CLASSIFIED	PTDPLT	0	0	0	0	0	0
PLT 109									
PLT 110		TOTAL ELECTRIC PLANT IN SERVICE		133,043,876	72,311,983	451,349	41,465,812	2,792,244	16,022,488
PLT 111									
PLT 112									
PLT 113									
PLT 114									
PLT 115									
PLT 116									
PLT 117									
PLT 118									
PLT 119									
PLT 120									
PLT 121									
PLT 122									
PLT 123									
PLT 124									
PLT 125									
PLT 126									
PLT 127									
PLT 128									
PLT 129									
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PLT 132									
PLT 133									
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PLT 135									
PLT 136									
PLT 137									
PLT 138									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027									
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM					
COS Without Minimum System				S Integrated Retail	S Iron River	S Res. Heating	S General Service	S General Service	S Commercial
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Residential A-1	Residential A-2	Res. Heating AH-1	C-1	C-2	Heating H-1
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)
				(p)	(q)	(r)			
PLT	93	ELECTRIC PLANT IN SERVICE CONTINUED							
PLT	94								
PLT	95	GENERAL PLANT							
PLT	96	389-Land and Land Rights	SALWAGXAG	57,835	0	5,680	16,126	0	1,477
PLT	97	390-Structures & Improvements	SALWAGXAG	1,857,728	0	182,448	518,004	0	47,451
PLT	98	391-Office Furniture & Equipment	SALWAGXAG	65,209	0	6,404	18,183	0	1,666
PLT	99	392-Transportation Equipment	SALWAGXAG	1,072,027	0	105,284	298,921	0	27,382
PLT	100	393-Stores Equipment	SALWAGXAG	8,085	0	794	2,255	0	207
PLT	101	394-Tools, Shop & Garage Equip.	SALWAGXAG	219,933	0	21,600	61,326	0	5,618
PLT	102	395-Laboratory Equipment	SALWAGXAG	109,790	0	10,783	30,613	0	2,804
PLT	103	396-Power Operated Equipment	SALWAGXAG	224,021	0	22,001	62,465	0	5,722
PLT	104	397-Communication Equipment	SALWAGXAG	2,407,005	0	236,393	671,163	0	61,481
PLT	105	398-Miscellaneous Equipment	SALWAGXAG	12,650	0	1,242	3,527	0	323
PLT	106	TOTAL GENERAL PLANT		6,034,283	0	592,630	1,682,583	0	154,130
PLT	107								
PLT	108	COMPLETED CONSTRUCTION NOT CLASSIFIED	PTDPLT	0	0	0	0	0	0
PLT	109								
PLT	110	TOTAL ELECTRIC PLANT IN SERVICE		65,845,286	0	6,466,697	18,360,124	0	1,681,843
PLT	111								
PLT	112								
PLT	113								
PLT	114								
PLT	115								
PLT	116								
PLT	117								
PLT	118								
PLT	119								
PLT	120								
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PLT	135								
PLT	136								
PLT	137								
PLT	138								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	RETAIL SYSTEM						
ID	NO.		BASIS	Large Comm & Ind	Large Commercial & Industrial	Transmission	Real-Time	Light & Power		
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
					CP-U	Secondary	Primary	CP-U Trans	Market Pricing	> 5,000kW
					Total	CP-U Sec	CP-U Prim		RTMP	WP-3
PLT	93	ELECTRIC PLANT IN SERVICE CONTINUED								
PLT	94									
PLT	95	GENERAL PLANT								
PLT	96	389-Land and Land Rights	SALWAGXAG		16,531	4,026	2,453	10,052	0	4,021
PLT	97	390-Structures & Improvements	SALWAGXAG		531,004	129,332	78,779	322,894	0	129,157
PLT	98	391-Office Furniture & Equipment	SALWAGXAG		18,639	4,540	2,765	11,334	0	4,534
PLT	99	392-Transportation Equipment	SALWAGXAG		306,423	74,633	45,461	186,330	0	74,532
PLT	100	393-Stores Equipment	SALWAGXAG		2,311	563	343	1,405	0	562
PLT	101	394-Tools, Shop & Garage Equip.	SALWAGXAG		62,865	15,311	9,327	38,227	0	15,291
PLT	102	395-Laboratory Equipment	SALWAGXAG		31,382	7,643	4,656	19,083	0	7,633
PLT	103	396-Power Operated Equipment	SALWAGXAG		64,033	15,596	9,500	38,937	0	15,575
PLT	104	397-Communication Equipment	SALWAGXAG		688,007	167,571	102,072	418,364	0	167,345
PLT	105	398-Miscellaneous Equipment	SALWAGXAG		3,616	881	536	2,199	0	879
PLT	106	TOTAL GENERAL PLANT			1,724,812	420,096	255,891	1,048,825	0	419,529
PLT	107									
PLT	108	COMPLETED CONSTRUCTION NOT CLASSIFIED	PTDPLT		0	0	0	0	0	0
PLT	109									
PLT	110	TOTAL ELECTRIC PLANT IN SERVICE			18,820,915	4,584,031	2,792,244	11,444,640	0	4,577,848
PLT	111									
PLT	112									
PLT	113									
PLT	114									
PLT	115									
PLT	116									
PLT	117									
PLT	118									
PLT	119									
PLT	120									
PLT	121									
PLT	122									
PLT	123									
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PLT	135									
PLT	136									
PLT	137									
PLT	138									

PRODUCTION DEMAND COMPONENT				Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027						RETAIL SYSTEM			
SCH	LINE	COS Without Minimum System	ALLOCATION	S	S	S	Street	S	S	Integrated	S		
ID	NO.	DESCRIPTION	BASIS	Street	Street Light	Street	Lighting	Lighting	Lighting	OSL	Iron River		
		(a)	(b)	SL-3	(Closed) SL-5	Lighting SL-6	Total			Z-3	OSL Z-4	(ag)	(ah)
PLT	93	ELECTRIC PLANT IN SERVICE CONTINUED											
PLT	94												
PLT	95	GENERAL PLANT											
PLT	96	389-Land and Land Rights	SALWAGXAG	62	3	252	317			79	0		
PLT	97	390-Structures & Improvements	SALWAGXAG	1,990	107	8,101	10,198			2,536	0		
PLT	98	391-Office Furniture & Equipment	SALWAGXAG	70	4	284	358			89	0		
PLT	99	392-Transportation Equipment	SALWAGXAG	1,148	62	4,675	5,885			1,463	0		
PLT	100	393-Stores Equipment	SALWAGXAG	9	0	35	44			11	0		
PLT	101	394-Tools, Shop & Garage Equip.	SALWAGXAG	236	13	959	1,207			300	0		
PLT	102	395-Laboratory Equipment	SALWAGXAG	118	6	479	603			150	0		
PLT	103	396-Power Operated Equipment	SALWAGXAG	240	13	977	1,230			306	0		
PLT	104	397-Communication Equipment	SALWAGXAG	2,579	139	10,497	13,214			3,285	0		
PLT	105	398-Miscellaneous Equipment	SALWAGXAG	14	1	55	69			17	0		
PLT	106	TOTAL GENERAL PLANT		6,464	348	26,315	33,127			8,236	0		
PLT	107												
PLT	108	COMPLETED CONSTRUCTION NOT CLASSIFIED	PTDPLT	0	0	0	0			0	0		
PLT	109												
PLT	110	TOTAL ELECTRIC PLANT IN SERVICE		70,537	3,793	287,145	361,475			89,873	0		
PLT	111												
PLT	112												
PLT	113												
PLT	114												
PLT	115												
PLT	116												
PLT	117												
PLT	118												
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PLT	135												
PLT	136												
PLT	137												
PLT	138												

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT

COS Without Minimum System			INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	
SCH	LINE	DESCRIPTION	ALLOCATION	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
ID	NO.		BASIS	SYSTEM			SECONDARY	PRIMARY	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
D&A	1	DEPRECIATION & AMORTIZATION RESERVE:							
D&A	2	PRODUCTION PLANT	PRODPLT	86,749,285	47,149,955	294,295	27,037,167	1,820,641	10,447,226
D&A	3	TRANSMISSION PLANT	TRANPLT	0	0	0	0	0	0
D&A	4	DISTRIBUTION PLANT							
D&A	5	360-Land and Land Rights	PLT_360	0	0	0	0	0	0
D&A	6	361-Structures & Improvements	PLT_361	0	0	0	0	0	0
D&A	7	362-Station Equipment	PLT_362	0	0	0	0	0	0
D&A	8	364-Towers and Fixtures	PLT_364	0	0	0	0	0	0
D&A	9	365-Overhead Conductors & Devices	PLT_365	0	0	0	0	0	0
D&A	10	366-Underground Conduit	PLT_366	0	0	0	0	0	0
D&A	11	367-Underground Conductor	PLT_367	0	0	0	0	0	0
D&A	12	368-Line Transformers	PLT_368	0	0	0	0	0	0
D&A	13	369-Services	PLT_369	0	0	0	0	0	0
D&A	14	370-Meters	PLT_370	0	0	0	0	0	0
D&A	15	371-Inst. on Customer Premises	PLT_371	0	0	0	0	0	0
D&A	16	373-Street Lighting / Signal Systems	PLT_373	0	0	0	0	0	0
D&A	17	TOTAL DISTRIBUTION PLANT		0	0	0	0	0	0
D&A	18	GENERAL & INTANGIBLE	INTGENLPLT	1,477,642	803,128	5,013	460,537	31,012	177,953
D&A	19	TOTAL DEPRECIATION & AMORTIZATION RESERVE		88,226,927	47,953,083	299,308	27,497,704	1,851,653	10,625,178
D&A	20								
D&A	21	NET ELECTRIC PLANT IN SERVICE							
D&A	22	NET PRODUCTION PLANT		32,495,785	17,662,103	110,241	10,127,968	682,002	3,913,471
D&A	23	NET TRANSMISSION PLANT		0	0	0	0	0	0
D&A	24	NET DISTRIBUTION PLANT		0	0	0	0	0	0
D&A	25	NET GENERAL & INTANGIBLE PLANT		12,321,165	6,696,797	41,799	3,840,140	258,589	1,483,839
D&A	26	COMPLETED CONSTRUCTION NOT CLASSIFIED		0	0	0	0	0	0
D&A	27	TOTAL NET PLANT IN SERVICE		44,816,949	24,358,900	152,041	13,968,108	940,591	5,397,310
D&A	28								
D&A	29	PLANT HELD FOR FUTURE USE							
D&A	30	PRODUCTION PLANT	PRODPLT	0	0	0	0	0	0
D&A	31	TRANSMISSION	TRANPLT	0	0	0	0	0	0
D&A	32	DISTRIBUTION	DISTPLT	0	0	0	0	0	0
D&A	33	GENERAL PLANT	INTGENLPLT	0	0	0	0	0	0
D&A	34	TOTAL PLANT HELD FOR FUTURE USE		0	0	0	0	0	0
D&A	35								
D&A	36	CONSTRUCTION WORK IN PROGRESS							
D&A	37	PRODUCTION PLANT	PRODPLT	865,366	470,344	2,936	269,709	18,162	104,216
D&A	38	TRANSMISSION PLANT	TRANPLT	0	0	0	0	0	0
D&A	39	DISTRIBUTION PLANT	TOTPLT	2,741,449	1,490,032	9,300	854,428	57,536	330,153
D&A	40	GENERAL & INTANGIBLE PLANT	INTGENLPLT	64,952	35,303	220	20,244	1,363	7,822
D&A	41	TOTAL CONSTRUCTION WORK IN PROGRESS		3,671,767	1,995,678	12,456	1,144,380	77,061	442,191
D&A	42								
D&A	43	TOTAL NET PLANT IN SERVICE		48,488,716	26,354,578	164,497	15,112,488	1,017,652	5,839,501
D&A	44								
D&A	45								
D&A	46								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
D&A	1	DEPRECIATION & AMORTIZATION RESERVE:										
D&A	2	PRODUCTION PLANT	PRODPLT		42,933,441	0	4,216,514		11,971,446	0	1,096,621	10,980,151
D&A	3	TRANSMISSION PLANT	TRANPLT		0	0	0		0	0	0	0
D&A	4	DISTRIBUTION PLANT										
D&A	5	360-Land and Land Rights	PLT_360		0	0	0		0	0	0	0
D&A	6	361-Structures & Improvements	PLT_361		0	0	0		0	0	0	0
D&A	7	362-Station Equipment	PLT_362		0	0	0		0	0	0	0
D&A	8	364-Towers and Fixtures	PLT_364		0	0	0		0	0	0	0
D&A	9	365-Overhead Conductors & Devices	PLT_365		0	0	0		0	0	0	0
D&A	10	366-Underground Conduit	PLT_366		0	0	0		0	0	0	0
D&A	11	367-Underground Conductor	PLT_367		0	0	0		0	0	0	0
D&A	12	368-Line Transformers	PLT_368		0	0	0		0	0	0	0
D&A	13	369-Services	PLT_369		0	0	0		0	0	0	0
D&A	14	370-Meters	PLT_370		0	0	0		0	0	0	0
D&A	15	371-Inst. on Customer Premises	PLT_371		0	0	0		0	0	0	0
D&A	16	373-Street Lighting / Signal Systems	PLT_373		0	0	0		0	0	0	0
D&A	17	TOTAL DISTRIBUTION PLANT			0	0	0		0	0	0	0
D&A	18	GENERAL & INTANGIBLE	INTGENLPLT		731,306	0	71,822		203,915	0	18,679	187,030
D&A	19	TOTAL DEPRECIATION & AMORTIZATION RESERVE			43,664,747	0	4,288,336		12,175,362	0	1,115,300	11,167,181
D&A	20											
D&A	21	NET ELECTRIC PLANT IN SERVICE										
D&A	22	NET PRODUCTION PLANT			16,082,621	0	1,579,482		4,484,435	0	410,788	4,113,102
D&A	23	NET TRANSMISSION PLANT			0	0	0		0	0	0	0
D&A	24	NET DISTRIBUTION PLANT			0	0	0		0	0	0	0
D&A	25	NET GENERAL & INTANGIBLE PLANT			6,097,918	0	598,879		1,700,327	0	155,755	1,559,532
D&A	26	COMPLETED CONSTRUCTION NOT CLASSIFIED			0	0	0		0	0	0	0
D&A	27	TOTAL NET PLANT IN SERVICE			22,180,539	0	2,178,361		6,184,762	0	566,543	5,672,633
D&A	28											
D&A	29	PLANT HELD FOR FUTURE USE										
D&A	30	PRODUCTION PLANT	PRODPLT		0	0	0		0	0	0	0
D&A	31	TRANSMISSION	TRANPLT		0	0	0		0	0	0	0
D&A	32	DISTRIBUTION	DISTPLT		0	0	0		0	0	0	0
D&A	33	GENERAL PLANT	INTGENLPLT		0	0	0		0	0	0	0
D&A	34	TOTAL PLANT HELD FOR FUTURE USE			0	0	0		0	0	0	0
D&A	35											
D&A	36	CONSTRUCTION WORK IN PROGRESS										
D&A	37	PRODUCTION PLANT	PRODPLT		428,282	0	42,062		119,421	0	10,939	109,532
D&A	38	TRANSMISSION PLANT	TRANPLT		0	0	0		0	0	0	0
D&A	39	DISTRIBUTION PLANT	TOTPLT		1,356,782	0	133,250		378,321	0	34,655	346,995
D&A	40	GENERAL & INTANGIBLE PLANT	INTGENLPLT		32,146	0	3,157		8,963	0	821	8,221
D&A	41	TOTAL CONSTRUCTION WORK IN PROGRESS			1,817,209	0	178,469		506,706	0	46,416	464,748
D&A	42											
D&A	43	TOTAL NET PLANT IN SERVICE			23,997,748	0	2,356,830		6,691,468	0	612,959	6,137,381
D&A	44											
D&A	45											
D&A	46											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	RETAIL SYSTEM						
ID	NO.		BASIS	Large Comm & Ind	Large Commercial & Industrial	Transmission	Real-Time	> 5,000kW		
		(a)	(b)	CP-U	Secondary	Primary	Market Pricing	Light & Power		
				Total	CP-U Sec	CP-U Prim	CP-U Trans	RTMP	WP-3	
			(s)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
D&A	1	DEPRECIATION & AMORTIZATION RESERVE:								
D&A	2	PRODUCTION PLANT	PRODPLT	12,271,898	2,988,949	1,820,641	7,462,308	0	2,984,918	
D&A	3	TRANSMISSION PLANT	TRANPLT	0	0	0	0	0	0	
D&A	4	DISTRIBUTION PLANT								
D&A	5	360-Land and Land Rights	PLT_360	0	0	0	0	0	0	
D&A	6	361-Structures & Improvements	PLT_361	0	0	0	0	0	0	
D&A	7	362-Station Equipment	PLT_362	0	0	0	0	0	0	
D&A	8	364-Towers and Fixtures	PLT_364	0	0	0	0	0	0	
D&A	9	365-Overhead Conductors & Devices	PLT_365	0	0	0	0	0	0	
D&A	10	366-Underground Conduit	PLT_366	0	0	0	0	0	0	
D&A	11	367-Underground Conductor	PLT_367	0	0	0	0	0	0	
D&A	12	368-Line Transformers	PLT_368	0	0	0	0	0	0	
D&A	13	369-Services	PLT_369	0	0	0	0	0	0	
D&A	14	370-Meters	PLT_370	0	0	0	0	0	0	
D&A	15	371-Inst. on Customer Premises	PLT_371	0	0	0	0	0	0	
D&A	16	373-Street Lighting / Signal Systems	PLT_373	0	0	0	0	0	0	
D&A	17	TOTAL DISTRIBUTION PLANT		0	0	0	0	0	0	
D&A	18	GENERAL & INTANGIBLE	INTGENLPLT	209,033	50,912	31,012	127,109	0	50,844	
D&A	19	TOTAL DEPRECIATION & AMORTIZATION RESERVE		12,480,932	3,039,862	1,851,653	7,589,417	0	3,035,762	
D&A	20									
D&A	21	NET ELECTRIC PLANT IN SERVICE								
D&A	22	NET PRODUCTION PLANT		4,596,983	1,119,643	682,002	2,795,338	0	1,118,133	
D&A	23	NET TRANSMISSION PLANT		0	0	0	0	0	0	
D&A	24	NET DISTRIBUTION PLANT		0	0	0	0	0	0	
D&A	25	NET GENERAL & INTANGIBLE PLANT		1,743,001	424,526	258,589	1,059,886	0	423,954	
D&A	26	COMPLETED CONSTRUCTION NOT CLASSIFIED		0	0	0	0	0	0	
D&A	27	TOTAL NET PLANT IN SERVICE		6,339,984	1,544,169	940,591	3,855,223	0	1,542,087	
D&A	28									
D&A	29	PLANT HELD FOR FUTURE USE								
D&A	30	PRODUCTION PLANT	PRODPLT	0	0	0	0	0	0	
D&A	31	TRANSMISSION	TRANPLT	0	0	0	0	0	0	
D&A	32	DISTRIBUTION	DISTPLT	0	0	0	0	0	0	
D&A	33	GENERAL PLANT	INTGENLPLT	0	0	0	0	0	0	
D&A	34	TOTAL PLANT HELD FOR FUTURE USE		0	0	0	0	0	0	
D&A	35									
D&A	36	CONSTRUCTION WORK IN PROGRESS								
D&A	37	PRODUCTION PLANT	PRODPLT	122,418	29,816	18,162	74,440	0	29,776	
D&A	38	TRANSMISSION PLANT	TRANPLT	0	0	0	0	0	0	
D&A	39	DISTRIBUTION PLANT	TOTPLT	387,816	94,457	57,536	235,824	0	94,329	
D&A	40	GENERAL & INTANGIBLE PLANT	INTGENLPLT	9,188	2,238	1,363	5,587	0	2,235	
D&A	41	TOTAL CONSTRUCTION WORK IN PROGRESS		519,423	126,511	77,061	315,851	0	126,340	
D&A	42									
D&A	43	TOTAL NET PLANT IN SERVICE		6,859,406	1,670,680	1,017,652	4,171,074	0	1,668,427	
D&A	44									
D&A	45									
D&A	46									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH	LINE	COS Without Minimum System		ALLOCATION	S	S	S	S	S	
ID	NO.	DESCRIPTION		BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
		(a)	(b)		(aa)	(ab)	(ac)	(ad)	(ae)	(af)
D&A	1	DEPRECIATION & AMORTIZATION RESERVE:								
D&A	2	PRODUCTION PLANT	PRODPLT		45,993	2,473	187,229	235,695	58,601	0
D&A	3	TRANSMISSION PLANT	TRANPLT		0	0	0	0	0	0
D&A	4	DISTRIBUTION PLANT								
D&A	5	360-Land and Land Rights	PLT_360		0	0	0	0	0	0
D&A	6	361-Structures & Improvements	PLT_361		0	0	0	0	0	0
D&A	7	362-Station Equipment	PLT_362		0	0	0	0	0	0
D&A	8	364-Towers and Fixtures	PLT_364		0	0	0	0	0	0
D&A	9	365-Overhead Conductors & Devices	PLT_365		0	0	0	0	0	0
D&A	10	366-Underground Conduit	PLT_366		0	0	0	0	0	0
D&A	11	367-Underground Conductor	PLT_367		0	0	0	0	0	0
D&A	12	368-Line Transformers	PLT_368		0	0	0	0	0	0
D&A	13	369-Services	PLT_369		0	0	0	0	0	0
D&A	14	370-Meters	PLT_370		0	0	0	0	0	0
D&A	15	371-Inst. on Customer Premises	PLT_371		0	0	0	0	0	0
D&A	16	373-Street Lighting / Signal Systems	PLT_373		0	0	0	0	0	0
D&A	17	TOTAL DISTRIBUTION PLANT			0	0	0	0	0	0
D&A	18	GENERAL & INTANGIBLE	INTGENLPLT		783	42	3,189	4,015	998	0
D&A	19	TOTAL DEPRECIATION & AMORTIZATION RESERVE			46,776	2,515	190,418	239,709	59,599	0
D&A	20	NET ELECTRIC PLANT IN SERVICE								
D&A	21	NET PRODUCTION PLANT			17,229	926	70,135	88,290	21,951	0
D&A	22	NET TRANSMISSION PLANT			0	0	0	0	0	0
D&A	23	NET DISTRIBUTION PLANT			0	0	0	0	0	0
D&A	24	NET GENERAL & INTANGIBLE PLANT			6,532	351	26,592	33,476	8,323	0
D&A	25	COMPLETED CONSTRUCTION NOT CLASSIFIED			0	0	0	0	0	0
D&A	26	TOTAL NET PLANT IN SERVICE			23,761	1,278	96,727	121,766	30,275	0
D&A	27	PLANT HELD FOR FUTURE USE								
D&A	28	PRODUCTION PLANT	PRODPLT		0	0	0	0	0	0
D&A	29	TRANSMISSION	TRANPLT		0	0	0	0	0	0
D&A	30	DISTRIBUTION	DISTPLT		0	0	0	0	0	0
D&A	31	GENERAL PLANT	INTGENLPLT		0	0	0	0	0	0
D&A	32	TOTAL PLANT HELD FOR FUTURE USE			0	0	0	0	0	0
D&A	33	CONSTRUCTION WORK IN PROGRESS								
D&A	34	PRODUCTION PLANT	PRODPLT		459	25	1,868	2,351	585	0
D&A	35	TRANSMISSION PLANT	TRANPLT		0	0	0	0	0	0
D&A	36	DISTRIBUTION PLANT	TOTPLT		1,453	78	5,917	7,448	1,852	0
D&A	37	GENERAL & INTANGIBLE PLANT	INTGENLPLT		34	2	140	176	44	0
D&A	38	TOTAL CONSTRUCTION WORK IN PROGRESS			1,947	105	7,925	9,976	2,480	0
D&A	39	TOTAL NET PLANT IN SERVICE			25,708	1,382	104,652	131,742	32,755	0
D&A	40	TOTAL NET PLANT IN SERVICE								
D&A	41	TOTAL NET PLANT IN SERVICE								
D&A	42	TOTAL NET PLANT IN SERVICE								
D&A	43	TOTAL NET PLANT IN SERVICE								
D&A	44	TOTAL NET PLANT IN SERVICE								
D&A	45	TOTAL NET PLANT IN SERVICE								
D&A	46	TOTAL NET PLANT IN SERVICE								

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH	LINE	DESCRIPTION	ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	
ID	NO.		BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TOTAL
		(a)	(b)	SYSTEM	(d)	(e)	(f)	(g)	(h)
									(i)
RBO	1	ADDITIONS AND DEDUCTIONS TO RATE BASE							
RBO	2								
RBO	3	PLUS: ADDITIONS TO RATE BASE							
RBO	4	Fuel Stock	ENEFUEL	0	0	0	0	0	0
RBO	5	Cash Working Capital	OMXFPP	9,648,784	5,140,632	32,612	3,026,147	220,744	1,228,648
RBO	6	Utility Material and Supplies:							
RBO	7	Production	PRODPLT	(221,630)	(120,461)	(752)	(69,076)	(4,651)	(26,691)
RBO	8	Transmission	TRANPLT	0	0	0	0	0	0
RBO	9	Distribution	DISTPLT	0	0	0	0	0	0
RBO	10	General	GENLPLT	(66,842)	(36,330)	(227)	(20,833)	(1,403)	(8,050)
RBO	11	Total Utility Material and Supplies		(288,473)	(156,791)	(979)	(89,908)	(6,054)	(34,741)
RBO	12	Prepayments							
RBO	13	Insurance - Plant Related	TOTPLT	100,164	54,441	340	31,218	2,102	12,063
RBO	14	Insurance - Other	SALWAGES	86,420	46,971	293	26,935	1,814	10,408
RBO	15	IT Related	TOTPLT	399,764	217,280	1,356	124,595	8,390	48,144
RBO	16	Other Prepaid	SALWAGXAG	0	0	0	0	0	0
RBO	17	Total Prepayments		586,348	318,692	1,989	182,747	12,306	70,614
RBO	18	Cash & Bank Balances	TOTPLT	567,672	308,541	1,926	176,926	11,914	68,365
RBO	19	TOTAL ADDITIONS TO RATE BASE		10,514,331	5,611,075	35,548	3,295,913	238,909	1,332,886
RBO	20								
RBO	21	LESS: DEDUCTIONS TO RATE BASE							
RBO	22	Accumulated Deferred Income Taxes							
RBO	23	Property	TOTPLT	615,371	334,466	2,088	191,793	12,915	74,109
RBO	24	Payroll	SALWAGES	18,777	10,206	64	5,852	394	2,261
RBO	25	Taxes	TOTPLT	0	0	0	0	0	0
RBO	26	Total Accumulated Deferred Income Taxes		634,148	344,672	2,151	197,645	13,309	76,371
RBO	27	Customer Deposits	CUSTDEP	0	0	0	0	0	0
RBO	28	Customer Advances for Construction	DISTPLT	0	0	0	0	0	0
RBO	29	TOTAL DEDUCTIONS TO RATE BASE		634,148	344,672	2,151	197,645	13,309	76,371
RBO	30								
RBO	31								
RBO	32	TOTAL RATE BASE		58,368,899	31,620,981	197,894	18,210,756	1,243,252	7,096,017
RBO	33								
RBO	34								
RBO	35								
RBO	36								
RBO	37								
RBO	38								
RBO	39								
RBO	40								
RBO	41								
RBO	42								
RBO	43								
RBO	44								
RBO	45								
RBO	46								

Upper Peninsula Power Company												
Forecasted Cost of Service Allocation Study												
Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH	LINE	DESCRIPTION	ALLOCATION	Integrated Retail	Iron River	Res. Heating		General Service	General Service	Commercial	25kW-200kW	
ID	NO.		BASIS	Residential	Residential	AH-1		C-1	C-2	Heating	Light & Power	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
RBO	1	ADDITIONS AND DEDUCTIONS TO RATE BASE										
RBO	2											
RBO	3	PLUS: ADDITIONS TO RATE BASE										
RBO	4	Fuel Stock	ENEFUEL		0	0	0		0	0	0	0
RBO	5	Cash Working Capital	OMXFPP		4,680,961	0	459,671		1,303,929	0	119,899	1,215,044
RBO	6	Utility Material and Supplies:										
RBO	7	Production	PRODPLT		(109,688)	0	(10,773)		(30,585)	0	(2,802)	(28,053)
RBO	8	Transmission	TRANPLT		0	0	0		0	0	0	0
RBO	9	Distribution	DISTPLT		0	0	0		0	0	0	0
RBO	10	General	GENLPLT		(33,081)	0	(3,249)		(9,224)	0	(845)	(8,460)
RBO	11	Total Utility Material and Supplies			(142,769)	0	(14,021)		(39,809)	0	(3,647)	(36,513)
RBO	12	Prepayments										
RBO	13	Insurance - Plant Related	TOTPLT		49,572	0	4,869		13,823	0	1,266	12,678
RBO	14	Insurance - Other	SALWAGES		42,771	0	4,201		11,926	0	1,092	10,938
RBO	15	IT Related	TOTPLT		197,849	0	19,431		55,168	0	5,054	50,600
RBO	16	Other Prepaid	SALWAGXAG		0	0	0		0	0	0	0
RBO	17	Total Prepayments			290,192	0	28,500		80,916	0	7,412	74,216
RBO	18	Cash & Bank Balances	TOTPLT		280,949	0	27,592		78,339	0	7,176	71,852
RBO	19	TOTAL ADDITIONS TO RATE BASE			5,109,333	0	501,742		1,423,375	0	130,840	1,324,600
RBO	20											
RBO	21	LESS: DEDUCTIONS TO RATE BASE										
RBO	22	Accumulated Deferred Income Taxes										
RBO	23	Property	TOTPLT		304,556	0	29,911		84,922	0	7,779	77,890
RBO	24	Payroll	SALWAGES		9,293	0	913		2,591	0	237	2,377
RBO	25	Taxes	TOTPLT		0	0	0		0	0	0	0
RBO	26	Total Accumulated Deferred Income Taxes			313,849	0	30,823		87,513	0	8,016	80,266
RBO	27	Customer Deposits	CUSTDEP		0	0	0		0	0	0	0
RBO	28	Customer Advances for Construction	DISTPLT		0	0	0		0	0	0	0
RBO	29	TOTAL DEDUCTIONS TO RATE BASE			313,849	0	30,823		87,513	0	8,016	80,266
RBO	30											
RBO	31											
RBO	32	TOTAL RATE BASE			28,793,232	0	2,827,749		8,027,330	0	735,783	7,381,715
RBO	33											
RBO	34											
RBO	35											
RBO	36											
RBO	37											
RBO	38											
RBO	39											
RBO	40											
RBO	41											
RBO	42											
RBO	43											
RBO	44											
RBO	45											
RBO	46											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION BASIS	Large Comm & Ind	Large Commerical & Industrial	Transmission	Real-Time	Light & Power		
ID	NO.			CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	CP-U Trans	Market Pricing RTMP	WP-3	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
				(z)						
RBO	1	ADDITIONS AND DEDUCTIONS TO RATE BASE								
RBO	2									
RBO	3	PLUS: ADDITIONS TO RATE BASE								
RBO	4	Fuel Stock	ENEFUEL		0	0	0	0	0	0
RBO	5	Cash Working Capital	OMXFPP		1,443,730	387,275	220,744	835,711	0	392,938
RBO	6	Utility Material and Supplies:								
RBO	7	Production	PRODPLT		(31,353)	(7,636)	(4,651)	(19,065)	0	(7,626)
RBO	8	Transmission	TRANPLT		0	0	0	0	0	0
RBO	9	Distribution	DISTPLT		0	0	0	0	0	0
RBO	10	General	GENPLT		(9,456)	(2,303)	(1,403)	(5,750)	(0)	(2,300)
RBO	11	Total Utility Material and Supplies			(40,809)	(9,939)	(6,054)	(24,815)	(0)	(9,926)
RBO	12	Prepayments								
RBO	13	Insurance - Plant Related	TOTPLT		14,170	3,451	2,102	8,616	0	3,446
RBO	14	Insurance - Other	SALWAGES		12,225	2,978	1,814	7,434	0	2,974
RBO	15	IT Related	TOTPLT		56,552	13,774	8,390	34,388	0	13,755
RBO	16	Other Prepaid	SALWAGXAG		0	0	0	0	0	0
RBO	17	Total Prepayments			82,947	20,203	12,306	50,439	0	20,175
RBO	18	Cash & Bank Balances	TOTPLT		80,305	19,559	11,914	48,832	0	19,533
RBO	19	TOTAL ADDITIONS TO RATE BASE			1,566,174	417,098	238,909	910,166	0	422,720
RBO	20									
RBO	21	LESS: DEDUCTIONS TO RATE BASE								
RBO	22	Accumulated Deferred Income Taxes								
RBO	23	Property	TOTPLT		87,053	21,203	12,915	52,935	0	21,174
RBO	24	Payroll	SALWAGES		2,656	647	394	1,615	0	646
RBO	25	Taxes	TOTPLT		0	0	0	0	0	0
RBO	26	Total Accumulated Deferred Income Taxes			89,709	21,850	13,309	54,550	0	21,820
RBO	27	Customer Deposits	CUSTDEP		0	0	0	0	0	0
RBO	28	Customer Advances for Construction	DISTPLT		0	0	0	0	0	0
RBO	29	TOTAL DEDUCTIONS TO RATE BASE			89,709	21,850	13,309	54,550	0	21,820
RBO	30									
RBO	31									
RBO	32	TOTAL RATE BASE			8,335,871	2,065,928	1,243,252	5,026,690	0	2,069,327
RBO	33									
RBO	34									
RBO	35									
RBO	36									
RBO	37									
RBO	38									
RBO	39									
RBO	40									
RBO	41									
RBO	42									
RBO	43									
RBO	44									
RBO	45									
RBO	46									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH	LINE	COS Without Minimum System		ALLOCATION	S	S	S	S	S	
ID	NO.	DESCRIPTION		BASIS	Street	Street Light	Street	Street	Integrated	Iron River
		(a)		(b)	Lighting	(Closed)	Lighting	Lighting	OSL	OSL
					SL-3	SL-5	SL-6	Total	Z-3	Z-4
					(aa)	(ab)	(ac)	(ad)	(ae)	(af)
										(ag)
										(ah)
RBO	1	ADDITIONS AND DEDUCTIONS TO RATE BASE								
RBO	2									
RBO	3	PLUS: ADDITIONS TO RATE BASE								
RBO	4	Fuel Stock	ENEFUEL		0	0	0	0	0	0
RBO	5	Cash Working Capital	OMXFPP		5,061	273	20,792	26,126	6,486	0
RBO	6	Utility Material and Supplies:								
RBO	7	Production	PRODPLT		(118)	(6)	(478)	(602)	(150)	0
RBO	8	Transmission	TRANPLT		0	0	0	0	0	0
RBO	9	Distribution	DISTPLT		0	0	0	0	0	0
RBO	10	General	GENPLT		(35)	(2)	(144)	(182)	(45)	(0)
RBO	11	Total Utility Material and Supplies			(153)	(8)	(623)	(784)	(195)	(0)
RBO	12	Prepayments								
RBO	13	Insurance - Plant Related	TOTPLT		53	3	216	272	68	0
RBO	14	Insurance - Other	SALWAGES		46	2	187	235	58	0
RBO	15	IT Related	TOTPLT		212	11	863	1,086	270	0
RBO	16	Other Prepaid	SALWAGXAG		0	0	0	0	0	0
RBO	17	Total Prepayments			311	17	1,266	1,593	396	0
RBO	18	Cash & Bank Balances	TOTPLT		301	16	1,225	1,542	383	0
RBO	19	TOTAL ADDITIONS TO RATE BASE			5,520	298	22,660	28,477	7,071	0
RBO	20									
RBO	21	LESS: DEDUCTIONS TO RATE BASE								
RBO	22	Accumulated Deferred Income Taxes								
RBO	23	Property	TOTPLT		326	18	1,328	1,672	416	0
RBO	24	Payroll	SALWAGES		10	1	41	51	13	0
RBO	25	Taxes	TOTPLT		0	0	0	0	0	0
RBO	26	Total Accumulated Deferred Income Taxes			336	18	1,369	1,723	428	0
RBO	27	Customer Deposits	CUSTDEP		0	0	0	0	0	0
RBO	28	Customer Advances for Construction	DISTPLT		0	0	0	0	0	0
RBO	29	TOTAL DEDUCTIONS TO RATE BASE			336	18	1,369	1,723	428	0
RBO	30									
RBO	31									
RBO	32	TOTAL RATE BASE			30,891	1,662	125,943	158,496	39,397	0
RBO	33									
RBO	34									
RBO	35									
RBO	36									
RBO	37									
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RBO	45									
RBO	46									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT

SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERCIAL SECONDARY	TOTAL COMMERCIAL PRIMARY	TOTAL TRANSMISSION	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
REV	1	OPERATING REVENUES								
REV	2									
REV	3	SALES REVENUES								
REV	4	Sales of Electricity Revenues		16,966,929	8,965,384	59,062	5,942,507	(126,009)	2,125,985	
REV	5	TOTAL SALES OF ELECTRICITY		16,966,929	8,965,384	59,062	5,942,507	(126,009)	2,125,985	
REV	6									
REV	7	Revenue Credits:								
REV	8	450-Late Payment Revenues	CUST	0	0	0	0	0	0	
REV	9	451-Misc Service Revenue	CUST	0	0	0	0	0	0	
REV	10	453-Sales of Water and Water Power	ENERGY1	0	0	0	0	0	0	
REV	11	454-Rent from Electric Property	DISTPLT	0	0	0	0	0	0	
REV	12	456-Other Electric Revenue								
REV	13	Other Miscellaneous Revenue	DISTPLT	0	0	0	0	0	0	
REV	14	Ssale for Resale- Energy 447	ENERGY1	0	0	0	0	0	0	
REV	15	RTMP - Opportunity Sales	ENERGY1	0	0	0	0	0	0	
REV	16	Electric True-up	ENERGY1	0	0	0	0	0	0	
REV	17	U-20995 Revenue Credit	ENERGY1	0	0	0	0	0	0	
REV	18	Deferred Revenue Adj	ENERGY1	0	0	0	0	0	0	
REV	19	Total Revenue Credits		0	0	0	0	0	0	
REV	20									
REV	21	Total Revenue Requirements		16,966,929	8,965,384	59,062	5,942,507	(126,009)	2,125,985	
REV	22									
REV	23									
REV	24									
REV	25									
REV	26									
REV	27									
REV	28									
REV	29									
REV	30									
REV	31									
REV	32									
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REV	36									
REV	37									
REV	38									
REV	39									
REV	40									
REV	41									
REV	42									
REV	43									
REV	44									
REV	45									
REV	46									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
REV 1		OPERATING REVENUES										
REV 2												
REV 3		SALES REVENUES										
REV 4		Sales of Electricity Revenues			8,350,331	0	615,053		2,330,053	0	167,509	3,078,782
REV 5		TOTAL SALES OF ELECTRICITY			8,350,331	0	615,053		2,330,053	0	167,509	3,078,782
REV 6												
REV 7		Revenue Credits:										
REV 8		450-Late Payment Revenues	CUST		0	0	0		0	0	0	0
REV 9		451-Misc Service Revenue	CUST		0	0	0		0	0	0	0
REV 10		453-Sales of Water and Water Power	ENERGY1		0	0	0		0	0	0	0
REV 11		454-Rent from Electric Property	DISTPLT		0	0	0		0	0	0	0
REV 12		456-Other Electric Revenue										
REV 13		Other Miscellaneous Revenue	DISTPLT		0	0	0		0	0	0	0
REV 14		Ssale for Resale- Energy 447	ENERGY1		0	0	0		0	0	0	0
REV 15		RTMP - Opportunity Sales	ENERGY1		0	0	0		0	0	0	0
REV 16		Electric True-up	ENERGY1		0	0	0		0	0	0	0
REV 17		U-20995 Revenue Credit	ENERGY1		0	0	0		0	0	0	0
REV 18		Deferred Revenue Adj	ENERGY1		0	0	0		0	0	0	0
REV 19		Total Revenue Credits			0	0	0		0	0	0	0
REV 20												
REV 21		Total Revenue Requirements			8,350,331	0	615,053		2,330,053	0	167,509	3,078,782
REV 22												
REV 23												
REV 24												
REV 25												
REV 26												
REV 27												
REV 28												
REV 29												
REV 30												
REV 31												
REV 32												
REV 33												
REV 34												
REV 35												
REV 36												
REV 37												
REV 38												
REV 39												
REV 40												
REV 41												
REV 42												
REV 43												
REV 44												
REV 45												
REV 46												

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
COS Without Minimum System				Large Comm & Ind	S	P	Q	T	Q	
SCH	LINE	DESCRIPTION	ALLOCATION	CP-U	Secondary	Primary	Transmission	Real-Time	> 5,000kW	
ID	NO.		BASIS	Total	CP-U Sec	CP-U Prim	CP-U Trans	Market Pricing	Light & Power	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
										(z)
REV	1	OPERATING REVENUES								
REV	2									
REV	3	SALES REVENUES								
REV	4	Sales of Electricity Revenues			1,649,382	366,164	(126,009)	1,409,227	0	716,758
REV	5	TOTAL SALES OF ELECTRICITY			1,649,382	366,164	(126,009)	1,409,227	0	716,758
REV	6									
REV	7	Revenue Credits:								
REV	8	450-Late Payment Revenues	CUST		0	0	0	0	0	0
REV	9	451-Misc Service Revenue	CUST		0	0	0	0	0	0
REV	10	453-Sales of Water and Water Power	ENERGY1		0	0	0	0	0	0
REV	11	454-Rent from Electric Property	DISTPLT		0	0	0	0	0	0
REV	12	456-Other Electric Revenue								
REV	13	Other Miscellaneous Revenue	DISTPLT		0	0	0	0	0	0
REV	14	Ssale for Resale- Energy 447	ENERGY1		0	0	0	0	0	0
REV	15	RTMP - Opportunity Sales	ENERGY1		0	0	0	0	0	0
REV	16	Electric True-up	ENERGY1		0	0	0	0	0	0
REV	17	U-20995 Revenue Credit	ENERGY1		0	0	0	0	0	0
REV	18	Deferred Revenue Adj	ENERGY1		0	0	0	0	0	0
REV	19	Total Revenue Credits			0	0	0	0	0	0
REV	20									
REV	21	Total Revenue Requirements			1,649,382	366,164	(126,009)	1,409,227	0	716,758
REV	22									
REV	23									
REV	24									
REV	25									
REV	26									
REV	27									
REV	28									
REV	29									
REV	30									
REV	31									
REV	32									
REV	33									
REV	34									
REV	35									
REV	36									
REV	37									
REV	38									
REV	39									
REV	40									
REV	41									
REV	42									
REV	43									
REV	44									
REV	45									
REV	46									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH	LINE	COS Without Minimum System		ALLOCATION	S	S	S	S	S	
ID	NO.	DESCRIPTION		BASIS	Street	Street Light	Street	Street	Integrated	Iron River
		(a)		(b)	Lighting	(Closed)	Lighting	Lighting	OSL	OSL
					SL-3	SL-5	SL-6	Total	Z-3	Z-4
					(aa)	(ab)	(ac)	(ad)	(ae)	(af)
										(ag)
										(ah)
REV	1	OPERATING REVENUES								
REV	2									
REV	3	SALES REVENUES								
REV	4	Sales of Electricity Revenues			6,019	665	40,749	47,432	11,630	0
REV	5	TOTAL SALES OF ELECTRICITY			6,019	665	40,749	47,432	11,630	0
REV	6									
REV	7	Revenue Credits:								
REV	8	450-Late Payment Revenues	CUST		0	0	0	0	0	0
REV	9	451-Misc Service Revenue	CUST		0	0	0	0	0	0
REV	10	453-Sales of Water and Water Power	ENERGY1		0	0	0	0	0	0
REV	11	454-Rent from Electric Property	DISTPLT		0	0	0	0	0	0
REV	12	456-Other Electric Revenue								
REV	13	Other Miscellaneous Revenue	DISTPLT		0	0	0	0	0	0
REV	14	Ssale for Resale- Energy 447	ENERGY1		0	0	0	0	0	0
REV	15	RTMP - Opportunity Sales	ENERGY1		0	0	0	0	0	0
REV	16	Electric True-up	ENERGY1		0	0	0	0	0	0
REV	17	U-20995 Revenue Credit	ENERGY1		0	0	0	0	0	0
REV	18	Deferred Revenue Adj	ENERGY1		0	0	0	0	0	0
REV	19	Total Revenue Credits			0	0	0	0	0	0
REV	20									
REV	21	Total Revenue Requirements			6,019	665	40,749	47,432	11,630	0
REV	22									
REV	23									
REV	24									
REV	25									
REV	26									
REV	27									
REV	28									
REV	29									
REV	30									
REV	31									
REV	32									
REV	33									
REV	34									
REV	35									
REV	36									
REV	37									
REV	38									
REV	39									
REV	40									
REV	41									
REV	42									
REV	43									
REV	44									
REV	45									
REV	46									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
O&M	1	OPERATION & MAINTENANCE EXPENSE							
O&M	2								
O&M	3	FUEL AND PURCHASED POWER							
O&M	4								
O&M	5	Purchased Power							
O&M	6	555 - Purchased Power - Energy	ENERGY1	0	0	0	0	0	0
O&M	7	555 - Purchased Power - Demand	DPURCH	0	0	0	0	0	0
O&M	8	Total Purchased Power		0	0	0	0	0	0
O&M	9								
O&M	10	Fuel							
O&M	11	501-Fuel (Transportation and Handling)	ENEFUEL	0	0	0	0	0	0
O&M	12	547-Fuel Handling	ENEFUEL	0	0	0	0	0	0
O&M	13	Total Fuel and Fuel Handling (501 & 547)		0	0	0	0	0	0
O&M	14								
O&M	15	TOTAL FUEL AND PURCHASED POWER		0	0	0	0	0	0
O&M	16								
O&M	17								
O&M	18	PRODUCTION EXPENSE							
O&M	19								
O&M	20	Steam Production Operation							
O&M	21	500-Supervision & Engineering	SALWAGPO	0	0	0	0	0	0
O&M	22	502-Steam Expense	DPROD	0	0	0	0	0	0
O&M	23	505-Electric Expense	DPROD	0	0	0	0	0	0
O&M	24	506-Miscellaneous	DPROD	0	0	0	0	0	0
O&M	25	507-Rent	DPROD	0	0	0	0	0	0
O&M	26	508-Supplies and Expenses	DPROD	0	0	0	0	0	0
O&M	27	509-Allowances	DPROD	0	0	0	0	0	0
O&M	28	Total Steam Production Operation		0	0	0	0	0	0
O&M	29								
O&M	30	Steam Production Maintenance							
O&M	31	510-Supervision & Engineering	SALWAGPM	0	0	0	0	0	0
O&M	32	511-Structures	DPROD	11,365	6,177	39	3,542	239	1,369
O&M	33	512-Boilers	ENERGY1	0	0	0	0	0	0
O&M	34	513-Electric Plant	ENERGY1	0	0	0	0	0	0
O&M	35	514-Miscellaneous Plant	DPROD	0	0	0	0	0	0
O&M	36	Total Steam Production Maintenance		11,365	6,177	39	3,542	239	1,369
O&M	37								
O&M	38	Total Steam Production O&M		11,365	6,177	39	3,542	239	1,369
O&M	39								
O&M	40								
O&M	41								
O&M	42								
O&M	43								
O&M	44								
O&M	45								
O&M	46								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
O&M	1	OPERATION & MAINTENANCE EXPENSE										
O&M	2											
O&M	3	FUEL AND PURCHASED POWER										
O&M	4											
O&M	5	Purchased Power										
O&M	6	555 - Purchased Power - Energy	ENERGY1		0	0	0		0	0	0	0
O&M	7	555 - Purchased Power - Demand	DPURCH		0	0	0		0	0	0	0
O&M	8	Total Purchased Power			0	0	0		0	0	0	0
O&M	9											
O&M	10	Fuel										
O&M	11	501-Fuel (Transportation and Handling)	ENEFUEL		0	0	0		0	0	0	0
O&M	12	547-Fuel Handling	ENEFUEL		0	0	0		0	0	0	0
O&M	13	Total Fuel and Fuel Handling (501 & 547)			0	0	0		0	0	0	0
O&M	14											
O&M	15	TOTAL FUEL AND PURCHASED POWER										
O&M	16											
O&M	17											
O&M	18	PRODUCTION EXPENSE										
O&M	19											
O&M	20	Steam Production Operation										
O&M	21	500-Supervision & Engineering	SALWAGPO		0	0	0		0	0	0	0
O&M	22	502-Steam Expense	DPROD		0	0	0		0	0	0	0
O&M	23	505-Electric Expense	DPROD		0	0	0		0	0	0	0
O&M	24	506-Miscellaneous	DPROD		0	0	0		0	0	0	0
O&M	25	507-Rent	DPROD		0	0	0		0	0	0	0
O&M	26	508-Supplies and Expenses	DPROD		0	0	0		0	0	0	0
O&M	27	509-Allowances	DPROD		0	0	0		0	0	0	0
O&M	28	Total Steam Production Operation			0	0	0		0	0	0	0
O&M	29											
O&M	30	Steam Production Maintenance										
O&M	31	510-Supervision & Engineering	SALWAGPM		0	0	0		0	0	0	0
O&M	32	511-Structures	DPROD		5,625	0	552		1,568	0	144	1,439
O&M	33	512-Boilers	ENERGY1		0	0	0		0	0	0	0
O&M	34	513-Electric Plant	ENERGY1		0	0	0		0	0	0	0
O&M	35	514-Miscellaneous Plant	DPROD		0	0	0		0	0	0	0
O&M	36	Total Steam Production Maintenance			5,625	0	552		1,568	0	144	1,439
O&M	37											
O&M	38	Total Steam Production O&M			5,625	0	552		1,568	0	144	1,439
O&M	39											
O&M	40											
O&M	41											
O&M	42											
O&M	43											
O&M	44											
O&M	45											
O&M	46											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	RETAIL SYSTEM						
ID	NO.		BASIS	Large Comm & Ind	Large Commercial & Industrial	Transmission	Real-Time	Light & Power		
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
					CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	CP-U Trans	Market Pricing RTMP	> 5,000kW Light & Power WP-3
O&M	1	OPERATION & MAINTENANCE EXPENSE								
O&M	2									
O&M	3	FUEL AND PURCHASED POWER								
O&M	4									
O&M	5	Purchased Power								
O&M	6	555 - Purchased Power - Energy	ENERGY1		0	0	0	0	0	0
O&M	7	555 - Purchased Power - Demand	DPURCH		0	0	0	0	0	0
O&M	8	Total Purchased Power			0	0	0	0	0	0
O&M	9									
O&M	10	Fuel								
O&M	11	501-Fuel (Transportation and Handling)	ENEFUEL		0	0	0	0	0	0
O&M	12	547-Fuel Handling	ENEFUEL		0	0	0	0	0	0
O&M	13	Total Fuel and Fuel Handling (501 & 547)			0	0	0	0	0	0
O&M	14									
O&M	15	TOTAL FUEL AND PURCHASED POWER			0	0	0	0	0	0
O&M	16									
O&M	17									
O&M	18	PRODUCTION EXPENSE								
O&M	19									
O&M	20	Steam Production Operation								
O&M	21	500-Supervision & Engineering	SALWAGPO		0	0	0	0	0	0
O&M	22	502-Steam Expense	DPROD		0	0	0	0	0	0
O&M	23	505-Electric Expense	DPROD		0	0	0	0	0	0
O&M	24	506-Miscellaneous	DPROD		0	0	0	0	0	0
O&M	25	507-Rent	DPROD		0	0	0	0	0	0
O&M	26	508-Supplies and Expenses	DPROD		0	0	0	0	0	0
O&M	27	509-Allowances	DPROD		0	0	0	0	0	0
O&M	28	Total Steam Production Operation			0	0	0	0	0	0
O&M	29									
O&M	30	Steam Production Maintenance								
O&M	31	510-Supervision & Engineering	SALWAGPM		0	0	0	0	0	0
O&M	32	511-Structures	DPROD		1,608	392	239	978	0	391
O&M	33	512-Boilers	ENERGY1		0	0	0	0	0	0
O&M	34	513-Electric Plant	ENERGY1		0	0	0	0	0	0
O&M	35	514-Miscellaneous Plant	DPROD		0	0	0	0	0	0
O&M	36	Total Steam Production Maintenance			1,608	392	239	978	0	391
O&M	37									
O&M	38	Total Steam Production O&M			1,608	392	239	978	0	391
O&M	39									
O&M	40									
O&M	41									
O&M	42									
O&M	43									
O&M	44									
O&M	45									
O&M	46									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	S Street Lighting SL-3	S Street Light (Closed) SL-5	S Street Lighting SL-6	Street Lighting Total	S Integrated OSL Z-3	S Iron River OSL Z-4	
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag) (ah)
O&M	1	OPERATION & MAINTENANCE EXPENSE								
O&M	2									
O&M	3	FUEL AND PURCHASED POWER								
O&M	4									
O&M	5	Purchased Power								
O&M	6	555 - Purchased Power - Energy	ENERGY1	0	0	0	0	0	0	
O&M	7	555 - Purchased Power - Demand	DPURCH	0	0	0	0	0	0	
O&M	8	Total Purchased Power		0	0	0	0	0	0	
O&M	9									
O&M	10	Fuel								
O&M	11	501-Fuel (Transportation and Handling)	ENEFUEL	0	0	0	0	0	0	
O&M	12	547-Fuel Handling	ENEFUEL	0	0	0	0	0	0	
O&M	13	Total Fuel and Fuel Handling (501 & 547)		0	0	0	0	0	0	
O&M	14									
O&M	15	TOTAL FUEL AND PURCHASED POWER		0	0	0	0	0	0	
O&M	16									
O&M	17									
O&M	18	PRODUCTION EXPENSE								
O&M	19									
O&M	20	Steam Production Operation								
O&M	21	500-Supervision & Engineering	SALWAGPO	0	0	0	0	0	0	
O&M	22	502-Steam Expense	DPROD	0	0	0	0	0	0	
O&M	23	505-Electric Expense	DPROD	0	0	0	0	0	0	
O&M	24	506-Miscellaneous	DPROD	0	0	0	0	0	0	
O&M	25	507-Rent	DPROD	0	0	0	0	0	0	
O&M	26	508-Supplies and Expenses	DPROD	0	0	0	0	0	0	
O&M	27	509-Allowances	DPROD	0	0	0	0	0	0	
O&M	28	Total Steam Production Operation		0	0	0	0	0	0	
O&M	29									
O&M	30	Steam Production Maintenance								
O&M	31	510-Supervision & Engineering	SALWAGPM	0	0	0	0	0	0	
O&M	32	511-Structures	DPROD	6	0	25	31	8	0	
O&M	33	512-Boilers	ENERGY1	0	0	0	0	0	0	
O&M	34	513-Electric Plant	ENERGY1	0	0	0	0	0	0	
O&M	35	514-Miscellaneous Plant	DPROD	0	0	0	0	0	0	
O&M	36	Total Steam Production Maintenance		6	0	25	31	8	0	
O&M	37									
O&M	38	Total Steam Production O&M		6	0	25	31	8	0	
O&M	39									
O&M	40									
O&M	41									
O&M	42									
O&M	43									
O&M	44									
O&M	45									
O&M	46									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT

COS Without Minimum System		ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION	
SCH ID	LINE NO.	DESCRIPTION							
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
O&M	47	OPERATION & MAINTENANCE EXPENSE CONTINUED							
O&M	48	PRODUCTION EXPENSE CONTINUED							
O&M	49								
O&M	50	Hydraulic Power Generation Operation							
O&M	51	535-Supervision & Engineering	SALWAGPO	1,101,140	598,491	3,736	343,193	23,110	132,610
O&M	52	537-Hydraulic Expenses	DPROD	(26)	(14)	(0)	(8)	(1)	(3)
O&M	53	538-Electric Expense	DPROD	318,575	173,152	1,081	99,290	6,686	38,366
O&M	54	539-Miscellaneous	DPROD	13,315	7,237	45	4,150	279	1,604
O&M	55	540-Rents	DPROD	122,420	66,538	415	38,155	2,569	14,743
O&M	56	Total Hydraulic Power Generation Operation		1,555,424	845,404	5,277	484,779	32,644	187,320
O&M	57								
O&M	58	Hydraulic Power Generation Maintenance							
O&M	59	541-Supervision & Engineering	SALWAGPM	215,964	117,381	733	67,310	4,533	26,009
O&M	60	542-Structures	DPROD	7,737	4,205	26	2,411	162	932
O&M	61	543-Reservoirs, Dams, and Waterways	DPROD	275,845	149,927	936	85,973	5,789	33,220
O&M	62	544-Electric Plant	DPROD	1,044,818	567,879	3,545	325,639	21,928	125,828
O&M	63	545-Miscellaneous Plant	DPROD	43,996	23,913	149	13,712	923	5,298
O&M	64	Total Hydraulic Power Generation Maintenance		1,588,360	863,305	5,388	495,044	33,336	191,286
O&M	65								
O&M	66	Total Hydraulic Power Production O&M		3,143,784	1,708,709	10,665	979,824	65,980	378,606
O&M	67								
O&M	68	Combustion Turbine Production Operation							
O&M	69	546-Supervision & Engineering	SALWAGPO	0	0	0	0	0	0
O&M	70	548-Generation Expense	DPROD	10,455	5,682	35	3,258	219	1,259
O&M	71	549-Miscellaneous	DPROD	18,637	10,129	63	5,809	391	2,244
O&M	72	550-Rents	DPROD	0	0	0	0	0	0
O&M	73	Total Combustion Turbine Production Operation		29,091	15,812	99	9,067	611	3,503
O&M	74								
O&M	75	Combustion Turbine Production Maintenance							
O&M	76	551-Supervision & Engineering	SALWAGPM	0	0	0	0	0	0
O&M	77	552-Structures	DPROD	24,315	13,216	82	7,578	510	2,928
O&M	78	553-Electric Plant	DPROD	288	157	1	90	6	35
O&M	79	554-Miscellaneous Plant	DPROD	13,662	7,426	46	4,258	287	1,645
O&M	80	Total Combustion Turbine Production Maintenance		38,265	20,798	130	11,926	803	4,608
O&M	81								
O&M	82	Total Combustion Turbine Production O&M		67,356	36,610	229	20,993	1,414	8,112
O&M	83								
O&M	84	System Control and Dispatch							
O&M	85	556-System Load Control	DPRODLD	372,898	137,189	1,188	128,166	19,349	87,006
O&M	86	557-Other Expenses	DPROD	0	0	0	0	0	0
O&M	87	Total System Control and Dispatch		372,898	137,189	1,188	128,166	19,349	87,006
O&M	88								
O&M	89	TOTAL NON-FUEL PRODUCTION O&M EXPENSE		3,595,404	1,888,685	12,121	1,132,525	86,981	475,093
O&M	90	TOTAL PRODUCTION O&M EXPENSE		3,595,404	1,888,685	12,121	1,132,525	86,981	475,093
O&M	91								
O&M	92								

Upper Peninsula Power Company												
Forecasted Cost of Service Allocation Study												
Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S	S	S	S	S	S	
SCH	LINE	DESCRIPTION	ALLOCATION	Integrated Retail	Iron River	Res. Heating	General Service	General Service	Commercial	25kW-200kW		
ID	NO.		BASIS	Residential	Residential	AH-1	C-1	C-2	Heating	Light & Power		
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
O&M	47	OPERATION & MAINTENANCE EXPENSE CONTINUED										
O&M	48	PRODUCTION EXPENSE CONTINUED										
O&M	49											
O&M	50	Hydraulic Power Generation Operation										
O&M	51	535-Supervision & Engineering	SALWAGPO	544,970	0	53,522	151,958	0	13,920	139,375		
O&M	52	537-Hydraulic Expenses	DPROD	(13)	0	(1)	(4)	0	(0)	(3)		
O&M	53	538-Electric Expense	DPROD	157,667	0	15,485	43,963	0	4,027	40,323		
O&M	54	539-Miscellaneous	DPROD	6,590	0	647	1,837	0	168	1,685		
O&M	55	540-Rents	DPROD	60,587	0	5,950	16,894	0	1,548	15,495		
O&M	56	Total Hydraulic Power Generation Operation		769,801	0	75,603	214,649	0	19,663	196,875		
O&M	57											
O&M	58	Hydraulic Power Generation Maintenance										
O&M	59	541-Supervision & Engineering	SALWAGPM	106,884	0	10,497	29,803	0	2,730	27,335		
O&M	60	542-Structures	DPROD	3,829	0	376	1,068	0	98	979		
O&M	61	543-Reservoirs, Dams, and Waterways	DPROD	136,520	0	13,408	38,067	0	3,487	34,915		
O&M	62	544-Electric Plant	DPROD	517,095	0	50,784	144,185	0	13,208	132,246		
O&M	63	545-Miscellaneous Plant	DPROD	21,774	0	2,138	6,071	0	556	5,569		
O&M	64	Total Hydraulic Power Generation Maintenance		786,102	0	77,203	219,194	0	20,079	201,044		
O&M	65											
O&M	66	Total Hydraulic Power Production O&M		1,555,903	0	152,806	433,844	0	39,741	397,919		
O&M	67											
O&M	68	Combustion Turbine Production Operation										
O&M	69	546-Supervision & Engineering	SALWAGPO	0	0	0	0	0	0	0		
O&M	70	548-Generation Expense	DPROD	5,174	0	508	1,443	0	132	1,323		
O&M	71	549-Miscellaneous	DPROD	9,224	0	906	2,572	0	236	2,359		
O&M	72	550-Rents	DPROD	0	0	0	0	0	0	0		
O&M	73	Total Combustion Turbine Production Operation		14,398	0	1,414	4,015	0	368	3,682		
O&M	74											
O&M	75	Combustion Turbine Production Maintenance										
O&M	76	551-Supervision & Engineering	SALWAGPM	0	0	0	0	0	0	0		
O&M	77	552-Structures	DPROD	12,034	0	1,182	3,355	0	307	3,078		
O&M	78	553-Electric Plant	DPROD	143	0	14	40	0	4	36		
O&M	79	554-Miscellaneous Plant	DPROD	6,761	0	664	1,885	0	173	1,729		
O&M	80	Total Combustion Turbine Production Maintenance		18,938	0	1,860	5,281	0	484	4,843		
O&M	81											
O&M	82	Total Combustion Turbine Production O&M		33,336	0	3,274	9,295	0	851	8,526		
O&M	83											
O&M	84	System Control and Dispatch										
O&M	85	556-System Load Control	DPRODLD	124,949	0	12,241	34,021	0	3,404	43,261		
O&M	86	557-Other Expenses	DPROD	0	0	0	0	0	0	0		
O&M	87	Total System Control and Dispatch		124,949	0	12,241	34,021	0	3,404	43,261		
O&M	88											
O&M	89	TOTAL NON-FUEL PRODUCTION O&M EXPENSE		1,719,812	0	168,873	478,728	0	44,140	451,144		
O&M	90	TOTAL PRODUCTION O&M EXPENSE		1,719,812	0	168,873	478,728	0	44,140	451,144		
O&M	91											
O&M	92											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	Large Comm & Ind	Secondary	Primary	Transmission	Real-Time	Light & Power	
ID	NO.		BASIS	CP-U	CP-U Sec	CP-U Prim	CP-U Trans	Market Pricing	WP-3	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
				(z)						
O&M	47	OPERATION & MAINTENANCE EXPENSE CONTINUED								
O&M	48	PRODUCTION EXPENSE CONTINUED								
O&M	49									
O&M	50	Hydraulic Power Generation Operation								
O&M	51	535-Supervision & Engineering	SALWAGPO	155,772	37,940	23,110	94,722	0	37,889	
O&M	52	537-Hydraulic Expenses	DPROD	(4)	(1)	(1)	(2)	0	(1)	
O&M	53	538-Electric Expense	DPROD	45,067	10,977	6,686	27,404	0	10,962	
O&M	54	539-Miscellaneous	DPROD	1,884	459	279	1,145	0	458	
O&M	55	540-Rents	DPROD	17,318	4,218	2,569	10,531	0	4,212	
O&M	56	Total Hydraulic Power Generation Operation		220,037	53,592	32,644	133,800	0	53,520	
O&M	57									
O&M	58	Hydraulic Power Generation Maintenance								
O&M	59	541-Supervision & Engineering	SALWAGPM	30,551	7,441	4,533	18,578	0	7,431	
O&M	60	542-Structures	DPROD	1,095	267	162	666	0	266	
O&M	61	543-Reservoirs, Dams, and Waterways	DPROD	39,022	9,504	5,789	23,729	0	9,491	
O&M	62	544-Electric Plant	DPROD	147,804	35,999	21,928	89,877	0	35,951	
O&M	63	545-Miscellaneous Plant	DPROD	6,224	1,516	923	3,785	0	1,514	
O&M	64	Total Hydraulic Power Generation Maintenance		224,696	54,727	33,336	136,633	0	54,653	
O&M	65									
O&M	66	Total Hydraulic Power Production O&M		444,732	108,319	65,980	270,433	0	108,173	
O&M	67									
O&M	68	Combustion Turbine Production Operation								
O&M	69	546-Supervision & Engineering	SALWAGPO	0	0	0	0	0	0	
O&M	70	548-Generation Expense	DPROD	1,479	360	219	899	0	360	
O&M	71	549-Miscellaneous	DPROD	2,636	642	391	1,603	0	641	
O&M	72	550-Rents	DPROD	0	0	0	0	0	0	
O&M	73	Total Combustion Turbine Production Operation		4,115	1,002	611	2,502	0	1,001	
O&M	74									
O&M	75	Combustion Turbine Production Maintenance								
O&M	76	551-Supervision & Engineering	SALWAGPM	0	0	0	0	0	0	
O&M	77	552-Structures	DPROD	3,440	838	510	2,092	0	837	
O&M	78	553-Electric Plant	DPROD	41	10	6	25	0	10	
O&M	79	554-Miscellaneous Plant	DPROD	1,933	471	287	1,175	0	470	
O&M	80	Total Combustion Turbine Production Maintenance		5,413	1,318	803	3,292	0	1,317	
O&M	81									
O&M	82	Total Combustion Turbine Production O&M		9,529	2,321	1,414	5,794	0	2,318	
O&M	83									
O&M	84	System Control and Dispatch								
O&M	85	556-System Load Control	DPRODLD	102,512	47,481	19,349	35,683	0	51,324	
O&M	86	557-Other Expenses	DPROD	0	0	0	0	0	0	
O&M	87	Total System Control and Dispatch		102,512	47,481	19,349	35,683	0	51,324	
O&M	88									
O&M	89	TOTAL NON-FUEL PRODUCTION O&M EXPENSE		558,381	158,512	86,981	312,887	0	162,205	
O&M	90	TOTAL PRODUCTION O&M EXPENSE		558,381	158,512	86,981	312,887	0	162,205	
O&M	91									
O&M	92									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	S Street Lighting SL-3	S Street Light (Closed) SL-5	S Street Lighting SL-6	Street Lighting Total	S Integrated OSL Z-3	S Iron River OSL Z-4	
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag) (ah)
O&M	47	OPERATION & MAINTENANCE EXPENSE CONTINUED								
O&M	48	PRODUCTION EXPENSE CONTINUED								
O&M	49									
O&M	50	Hydraulic Power Generation Operation								
O&M	51	535-Supervision & Engineering	SALWAGPO	584	31	2,377	2,992	744	0	
O&M	52	537-Hydraulic Expenses	DPROD	(0)	(0)	(0)	(0)	(0)	0	
O&M	53	538-Electric Expense	DPROD	169	9	688	866	215	0	
O&M	54	539-Miscellaneous	DPROD	7	0	29	36	9	0	
O&M	55	540-Rents	DPROD	65	3	264	333	83	0	
O&M	56	Total Hydraulic Power Generation Operation		825	44	3,357	4,226	1,051	0	
O&M	57									
O&M	58	Hydraulic Power Generation Maintenance								
O&M	59	541-Supervision & Engineering	SALWAGPM	114	6	466	587	146	0	
O&M	60	542-Structures	DPROD	4	0	17	21	5	0	
O&M	61	543-Reservoirs, Dams, and Waterways	DPROD	146	8	595	749	186	0	
O&M	62	544-Electric Plant	DPROD	554	30	2,255	2,839	706	0	
O&M	63	545-Miscellaneous Plant	DPROD	23	1	95	120	30	0	
O&M	64	Total Hydraulic Power Generation Maintenance		842	45	3,428	4,316	1,073	0	
O&M	65									
O&M	66	Total Hydraulic Power Production O&M		1,667	90	6,785	8,542	2,124	0	
O&M	67									
O&M	68	Combustion Turbine Production Operation								
O&M	69	546-Supervision & Engineering	SALWAGPO	0	0	0	0	0	0	
O&M	70	548-Generation Expense	DPROD	6	0	23	28	7	0	
O&M	71	549-Miscellaneous	DPROD	10	1	40	51	13	0	
O&M	72	550-Rents	DPROD	0	0	0	0	0	0	
O&M	73	Total Combustion Turbine Production Operation		15	1	63	79	20	0	
O&M	74									
O&M	75	Combustion Turbine Production Maintenance								
O&M	76	551-Supervision & Engineering	SALWAGPM	0	0	0	0	0	0	
O&M	77	552-Structures	DPROD	13	1	52	66	16	0	
O&M	78	553-Electric Plant	DPROD	0	0	1	1	0	0	
O&M	79	554-Miscellaneous Plant	DPROD	7	0	29	37	9	0	
O&M	80	Total Combustion Turbine Production Maintenance		20	1	83	104	26	0	
O&M	81									
O&M	82	Total Combustion Turbine Production O&M		36	2	145	183	46	0	
O&M	83									
O&M	84	System Control and Dispatch								
O&M	85	556-System Load Control	DPRODLD	163	10	784	956	232	0	
O&M	86	557-Other Expenses	DPROD	0	0	0	0	0	0	
O&M	87	Total System Control and Dispatch		163	10	784	956	232	0	
O&M	88									
O&M	89	TOTAL NON-FUEL PRODUCTION O&M EXPENSE		1,872	101	7,739	9,712	2,409	0	
O&M	90	TOTAL PRODUCTION O&M EXPENSE		1,872	101	7,739	9,712	2,409	0	
O&M	91									
O&M	92									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
COS Without Minimum System										
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
O&M	93	OPERATION & MAINTENANCE EXPENSE CONTINUED								
O&M	94									
O&M	95	TRANSMISSION EXPENSE								
O&M	96	Transmission Operations:								
O&M	97	560-Supervision & Engineering	SALWAGTO	0	0	0	0	0	0	
O&M	98	561.000-Load Dispatching	DTRANLD	0	0	0	0	0	0	
O&M	99	561.400-Sched, Sys Control & Disp Serv	DTRAN3	0	0	0	0	0	0	
O&M	100	561.420-MISO Reimburse-Bal Auth Costs	DTRAN3	0	0	0	0	0	0	
O&M	101	561.800-Reliab, Plan & Stand Devel Serv	DTRAN3	0	0	0	0	0	0	
O&M	102	562-Station Equipment	PLT_353	0	0	0	0	0	0	
O&M	103	563-Overhead Lines	OHTRAN	0	0	0	0	0	0	
O&M	104	564-Underground Lines	UGTRAN	0	0	0	0	0	0	
O&M	105	566-Miscellaneous	TRANPLT	0	0	0	0	0	0	
O&M	106	567-Rents	TRANPLT	0	0	0	0	0	0	
O&M	107	Total Transmission Operations		0	0	0	0	0	0	
O&M	108									
O&M	109	Wheeling:								
O&M	110	565-Wheeling - Network	DTRAN	0	0	0	0	0	0	
O&M	111	565-Wheeling - ATC Transmission Credit	DTRAN	0	0	0	0	0	0	
O&M	112	565-Wheeling - Point to Point	DTRAN	0	0	0	0	0	0	
O&M	113	Total Wheeling		0	0	0	0	0	0	
O&M	114									
O&M	115	Transmission Maintenance								
O&M	116	568-Supervision & Engineering	SALWAGTM	0	0	0	0	0	0	
O&M	117	569-Structures	PLT_352	0	0	0	0	0	0	
O&M	118	570-Station Equipment	PLT_353	0	0	0	0	0	0	
O&M	119	571-Overhead Lines	OHTRAN	0	0	0	0	0	0	
O&M	120	572-Underground Lines	UGTRAN	0	0	0	0	0	0	
O&M	121	573-Miscellaneous	TRANPLT	0	0	0	0	0	0	
O&M	122	Total Transmission Maintenance		0	0	0	0	0	0	
O&M	123									
O&M	124	TOTAL TRANSMISSION EXPENSE		0	0	0	0	0	0	
O&M	125									
O&M	126									
O&M	127	REGIONAL MARKET EXPENSE								
O&M	128	575.1-Operation Supervision	ENERGY3	0	0	0	0	0	0	
O&M	129	575.4-Capacity Market Administration	ENERGY3	0	0	0	0	0	0	
O&M	130	575.5-Ancillary Services Market Administration	ENERGY3	0	0	0	0	0	0	
O&M	131	575.6-Market Monitoring and Compliance	ENERGY3	0	0	0	0	0	0	
O&M	132	575.70-Market Facil, Monitoring, & Compliance	ENERGY3	0	0	0	0	0	0	
O&M	133	575.71-Market Fac, Monit, Compl-Transm	ENERGY3	0	0	0	0	0	0	
O&M	134	575.72-ARS Monthly Operating Costs	ENERGY3	0	0	0	0	0	0	
O&M	135	575.8-Rents	ENERGY3	0	0	0	0	0	0	
O&M	136	TOTAL REGIONAL MARKET EXPENSE		0	0	0	0	0	0	
O&M	137									
O&M	138									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
O&M	93	OPERATION & MAINTENANCE EXPENSE CONTINUED										
O&M	94											
O&M	95	TRANSMISSION EXPENSE										
O&M	96	Transmission Operations:										
O&M	97	560-Supervision & Engineering	SALWAGTO		0	0	0		0	0	0	0
O&M	98	561.000-Load Dispatching	DTRANLD		0	0	0		0	0	0	0
O&M	99	561.400-Sched, Sys Control & Disp Serv	DTRAN3		0	0	0		0	0	0	0
O&M	100	561.420-MISO Reimburse-Bal Auth Costs	DTRAN3		0	0	0		0	0	0	0
O&M	101	561.800-Reliab, Plan & Stand Devel Serv	DTRAN3		0	0	0		0	0	0	0
O&M	102	562-Station Equipment	PLT_353		0	0	0		0	0	0	0
O&M	103	563-Overhead Lines	OHTRAN		0	0	0		0	0	0	0
O&M	104	564-Underground Lines	UGTRAN		0	0	0		0	0	0	0
O&M	105	566-Miscellaneous	TRANPLT		0	0	0		0	0	0	0
O&M	106	567-Rents	TRANPLT		0	0	0		0	0	0	0
O&M	107	Total Transmission Operations			0	0	0		0	0	0	0
O&M	108											
O&M	109	Wheeling:										
O&M	110	565-Wheeling - Network	DTRAN		0	0	0		0	0	0	0
O&M	111	565-Wheeling - ATC Transmission Credit	DTRAN		0	0	0		0	0	0	0
O&M	112	565-Wheeling - Point to Point	DTRAN		0	0	0		0	0	0	0
O&M	113	Total Wheeling			0	0	0		0	0	0	0
O&M	114											
O&M	115	Transmission Maintenance										
O&M	116	568-Supervision & Engineering	SALWAGTM		0	0	0		0	0	0	0
O&M	117	569-Structures	PLT_352		0	0	0		0	0	0	0
O&M	118	570-Station Equipment	PLT_353		0	0	0		0	0	0	0
O&M	119	571-Overhead Lines	OHTRAN		0	0	0		0	0	0	0
O&M	120	572-Underground Lines	UGTRAN		0	0	0		0	0	0	0
O&M	121	573-Miscellaneous	TRANPLT		0	0	0		0	0	0	0
O&M	122	Total Transmission Maintenance			0	0	0		0	0	0	0
O&M	123											
O&M	124	TOTAL TRANSMISSION EXPENSE			0	0	0		0	0	0	0
O&M	125											
O&M	126											
O&M	127	REGIONAL MARKET EXPENSE										
O&M	128	575.1-Operation Supervision	ENERGY3		0	0	0		0	0	0	0
O&M	129	575.4-Capacity Market Administration	ENERGY3		0	0	0		0	0	0	0
O&M	130	575.5-Ancillary Services Market Administration	ENERGY3		0	0	0		0	0	0	0
O&M	131	575.6-Market Monitoring and Compliance	ENERGY3		0	0	0		0	0	0	0
O&M	132	575.70-Market Facil, Monitoring, & Compliance	ENERGY3		0	0	0		0	0	0	0
O&M	133	575.71-Market Fac, Monit, Compl-Transm	ENERGY3		0	0	0		0	0	0	0
O&M	134	575.72-ARS Monthly Operating Costs	ENERGY3		0	0	0		0	0	0	0
O&M	135	575.8-Rents	ENERGY3		0	0	0		0	0	0	0
O&M	136	TOTAL REGIONAL MARKET EXPENSE			0	0	0		0	0	0	0
O&M	137											
O&M	138											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	Large Comm & Ind	Secondary	Primary	Transmission	Real-Time	Light & Power	
ID	NO.		BASIS	CP-U	CP-U Sec	CP-U Prim	CP-U Trans	Market Pricing	WP-3	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
										(z)
O&M	93	OPERATION & MAINTENANCE EXPENSE CONTINUED								
O&M	94									
O&M	95	TRANSMISSION EXPENSE								
O&M	96	Transmission Operations:								
O&M	97	560-Supervision & Engineering	SALWAGTO		0	0	0	0	0	0
O&M	98	561.000-Load Dispatching	DTRANLD		0	0	0	0	0	0
O&M	99	561.400-Sched, Sys Control & Disp Serv	DTRAN3		0	0	0	0	0	0
O&M	100	561.420-MISO Reimburse-Bal Auth Costs	DTRAN3		0	0	0	0	0	0
O&M	101	561.800-Reliab, Plan & Stand Devel Serv	DTRAN3		0	0	0	0	0	0
O&M	102	562-Station Equipment	PLT_353		0	0	0	0	0	0
O&M	103	563-Overhead Lines	OHTRAN		0	0	0	0	0	0
O&M	104	564-Underground Lines	UGTRAN		0	0	0	0	0	0
O&M	105	566-Miscellaneous	TRANPLT		0	0	0	0	0	0
O&M	106	567-Rents	TRANPLT		0	0	0	0	0	0
O&M	107	Total Transmission Operations			0	0	0	0	0	0
O&M	108									
O&M	109	Wheeling:								
O&M	110	565-Wheeling - Network	DTRAN		0	0	0	0	0	0
O&M	111	565-Wheeling - ATC Transmission Credit	DTRAN		0	0	0	0	0	0
O&M	112	565-Wheeling - Point to Point	DTRAN		0	0	0	0	0	0
O&M	113	Total Wheeling			0	0	0	0	0	0
O&M	114									
O&M	115	Transmission Maintenance								
O&M	116	568-Supervision & Engineering	SALWAGTM		0	0	0	0	0	0
O&M	117	569-Structures	PLT_352		0	0	0	0	0	0
O&M	118	570-Station Equipment	PLT_353		0	0	0	0	0	0
O&M	119	571-Overhead Lines	OHTRAN		0	0	0	0	0	0
O&M	120	572-Underground Lines	UGTRAN		0	0	0	0	0	0
O&M	121	573-Miscellaneous	TRANPLT		0	0	0	0	0	0
O&M	122	Total Transmission Maintenance			0	0	0	0	0	0
O&M	123									
O&M	124	TOTAL TRANSMISSION EXPENSE			0	0	0	0	0	0
O&M	125									
O&M	126									
O&M	127	REGIONAL MARKET EXPENSE								
O&M	128	575.1-Operation Supervision	ENERGY3		0	0	0	0	0	0
O&M	129	575.4-Capacity Market Administration	ENERGY3		0	0	0	0	0	0
O&M	130	575.5-Ancillary Services Market Administration	ENERGY3		0	0	0	0	0	0
O&M	131	575.6-Market Monitoring and Compliance	ENERGY3		0	0	0	0	0	0
O&M	132	575.70-Market Facil, Monitoring, & Compliance	ENERGY3		0	0	0	0	0	0
O&M	133	575.71-Market Fac, Monit, Compl-Transm	ENERGY3		0	0	0	0	0	0
O&M	134	575.72-ARS Monthly Operating Costs	ENERGY3		0	0	0	0	0	0
O&M	135	575.8-Rents	ENERGY3		0	0	0	0	0	0
O&M	136	TOTAL REGIONAL MARKET EXPENSE			0	0	0	0	0	0
O&M	137									
O&M	138									

Upper Peninsula Power Company										
Forecasted Cost of Service Allocation Study										
Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
COS Without Minimum System				S	S	S		S	S	
SCH	LINE		ALLOCATION	Street	Street Light	Street	Street	Integrated	Iron River	
ID	NO.	DESCRIPTION	BASIS	Lighting	(Closed)	Lighting	Lighting	OSL	OSL	
		(a)	(b)	SL-3	SL-5	SL-6	Total	Z-3	Z-4	(ag) (ah)
O&M	93	OPERATION & MAINTENANCE EXPENSE CONTINUED								
O&M	94									
O&M	95	TRANSMISSION EXPENSE								
O&M	96	Transmission Operations:								
O&M	97	560-Supervision & Engineering	SALWAGTO	0	0	0	0	0	0	
O&M	98	561.000-Load Dispatching	DTRANLD	0	0	0	0	0	0	
O&M	99	561.400-Sched, Sys Control & Disp Serv	DTRAN3	0	0	0	0	0	0	
O&M	100	561.420-MISO Reimburse-Bal Auth Costs	DTRAN3	0	0	0	0	0	0	
O&M	101	561.800-Reliab, Plan & Stand Devel Serv	DTRAN3	0	0	0	0	0	0	
O&M	102	562-Station Equipment	PLT_353	0	0	0	0	0	0	
O&M	103	563-Overhead Lines	OHTRAN	0	0	0	0	0	0	
O&M	104	564-Underground Lines	UGTRAN	0	0	0	0	0	0	
O&M	105	566-Miscellaneous	TRANPLT	0	0	0	0	0	0	
O&M	106	567-Rents	TRANPLT	0	0	0	0	0	0	
O&M	107	Total Transmission Operations		0	0	0	0	0	0	
O&M	108									
O&M	109	Wheeling:								
O&M	110	565-Wheeling - Network	DTRAN	0	0	0	0	0	0	
O&M	111	565-Wheeling - ATC Transmission Credit	DTRAN	0	0	0	0	0	0	
O&M	112	565-Wheeling - Point to Point	DTRAN	0	0	0	0	0	0	
O&M	113	Total Wheeling		0	0	0	0	0	0	
O&M	114									
O&M	115	Transmission Maintenance								
O&M	116	568-Supervision & Engineering	SALWAGTM	0	0	0	0	0	0	
O&M	117	569-Structures	PLT_352	0	0	0	0	0	0	
O&M	118	570-Station Equipment	PLT_353	0	0	0	0	0	0	
O&M	119	571-Overhead Lines	OHTRAN	0	0	0	0	0	0	
O&M	120	572-Underground Lines	UGTRAN	0	0	0	0	0	0	
O&M	121	573-Miscellaneous	TRANPLT	0	0	0	0	0	0	
O&M	122	Total Transmission Maintenance		0	0	0	0	0	0	
O&M	123									
O&M	124	TOTAL TRANSMISSION EXPENSE		0	0	0	0	0	0	
O&M	125									
O&M	126									
O&M	127	REGIONAL MARKET EXPENSE								
O&M	128	575.1-Operation Supervision	ENERGY3	0	0	0	0	0	0	
O&M	129	575.4-Capacity Market Administration	ENERGY3	0	0	0	0	0	0	
O&M	130	575.5-Ancillary Services Market Administration	ENERGY3	0	0	0	0	0	0	
O&M	131	575.6-Market Monitoring and Compliance	ENERGY3	0	0	0	0	0	0	
O&M	132	575.70-Market Facil, Monitoring, & Compliance	ENERGY3	0	0	0	0	0	0	
O&M	133	575.71-Market Fac, Monit, Compl-Transm	ENERGY3	0	0	0	0	0	0	
O&M	134	575.72-ARS Monthly Operating Costs	ENERGY3	0	0	0	0	0	0	
O&M	135	575.8-Rents	ENERGY3	0	0	0	0	0	0	
O&M	136	TOTAL REGIONAL MARKET EXPENSE		0	0	0	0	0	0	
O&M	137									
O&M	138									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System		ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	
SCH	LINE	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
ID	NO.			SYSTEM			SECONDARY	PRIMARY	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
									(i)
O&M	139	OPERATION & MAINTENANCE EXPENSE CONTINUED							
O&M	140								
O&M	141	DISTRIBUTION EXPENSES							
O&M	142								
O&M	143	Operation							
O&M	144	580-Supervision	SALWAGDO	0	0	0	0	0	0
O&M	145	581-Load Dispatch	DDISPSUB	0	0	0	0	0	0
O&M	146	582-Station Equipment	PLT_362	0	0	0	0	0	0
O&M	147	583-Overhead Lines	OHDIST	0	0	0	0	0	0
O&M	148	584-Underground Lines	UGDIST	0	0	0	0	0	0
O&M	149	585-Street Lighting	PLT_373	0	0	0	0	0	0
O&M	150	586-Metering	CMETERS	0	0	0	0	0	0
O&M	151	587-Customer Installations	PLT_371	0	0	0	0	0	0
O&M	152	588-Miscellaneous	DISTPLT	0	0	0	0	0	0
O&M	153	589-Rents	DISTPLT	0	0	0	0	0	0
O&M	154	Total Distribution Operation		0	0	0	0	0	0
O&M	155								
O&M	156	Maintenance							
O&M	157	590-Supervision	SALWAGDM	0	0	0	0	0	0
O&M	158	591-Structures	PLT_361	0	0	0	0	0	0
O&M	159	592-Station Equipment	PLT_362	0	0	0	0	0	0
O&M	160	593-Overhead Lines	OHDIST	0	0	0	0	0	0
O&M	161	594-Underground Lines	UGDIST	0	0	0	0	0	0
O&M	162	595-Transformers	PLT_368	0	0	0	0	0	0
O&M	163	596-Street Lighting	PLT_373	0	0	0	0	0	0
O&M	164	597-Metering	CMETERS	0	0	0	0	0	0
O&M	165	598-Miscellaneous	DISTPLT	0	0	0	0	0	0
O&M	166	Total Distribution Maintenance		0	0	0	0	0	0
O&M	167								
O&M	168	TOTAL DISTRIBUTION EXPENSES		0	0	0	0	0	0
O&M	169								
O&M	170	TOTAL OPER & MAINT PROD,TRAN,& DIST EXCL COST OF FUEL & PP		3,595,404	1,888,685	12,121	1,132,525	86,981	475,093
O&M	171								
O&M	172								
O&M	173	CUSTOMER ACCOUNTS EXPENSES							
O&M	174	901-Supervision	SALWAGCA	0	0	0	0	0	0
O&M	175	902-Meter Reading	CMETRDG	0	0	0	0	0	0
O&M	176	903-Customer Records and Collection Expense	CUSTREC	0	0	0	0	0	0
O&M	177	904-Uncollectible Accounts	EXP_904	42,659	37,977	297	3,249	476	659
O&M	178	905-Miscellaneous CA	CUSTCSS	0	0	0	0	0	0
O&M	179	TOTAL CUSTOMER ACCTS EXPENSE		42,659	37,977	297	3,249	476	659
O&M	180								
O&M	181								
O&M	182								
O&M	183								
O&M	184								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
O&M	139	OPERATION & MAINTENANCE EXPENSE CONTINUED										
O&M	140											
O&M	141	DISTRIBUTION EXPENSES										
O&M	142											
O&M	143	Operation										
O&M	144	580-Supervision	SALWAGDO		0	0	0		0	0	0	0
O&M	145	581-Load Dispatch	DDISPSUB		0	0	0		0	0	0	0
O&M	146	582-Station Equipment	PLT_362		0	0	0		0	0	0	0
O&M	147	583-Overhead Lines	OHDIST		0	0	0		0	0	0	0
O&M	148	584-Underground Lines	UGDIST		0	0	0		0	0	0	0
O&M	149	585-Street Lighting	PLT_373		0	0	0		0	0	0	0
O&M	150	586-Metering	CMETERS		0	0	0		0	0	0	0
O&M	151	587-Customer Installations	PLT_371		0	0	0		0	0	0	0
O&M	152	588-Miscellaneous	DISTPLT		0	0	0		0	0	0	0
O&M	153	589-Rents	DISTPLT		0	0	0		0	0	0	0
O&M	154	Total Distribution Operation			0	0	0		0	0	0	0
O&M	155											
O&M	156	Maintenance										
O&M	157	590-Supervision	SALWAGDM		0	0	0		0	0	0	0
O&M	158	591-Structures	PLT_361		0	0	0		0	0	0	0
O&M	159	592-Station Equipment	PLT_362		0	0	0		0	0	0	0
O&M	160	593-Overhead Lines	OHDIST		0	0	0		0	0	0	0
O&M	161	594-Underground Lines	UGDIST		0	0	0		0	0	0	0
O&M	162	595-Transformers	PLT_368		0	0	0		0	0	0	0
O&M	163	596-Street Lighting	PLT_373		0	0	0		0	0	0	0
O&M	164	597-Metering	CMETERS		0	0	0		0	0	0	0
O&M	165	598-Miscellaneous	DISTPLT		0	0	0		0	0	0	0
O&M	166	Total Distribution Maintenance			0	0	0		0	0	0	0
O&M	167											
O&M	168	TOTAL DISTRIBUTION EXPENSES			0	0	0		0	0	0	0
O&M	169											
O&M	170	TOTAL OPER & MAINT PROD,TRAN.& DIST EXCL COST OF FUEL & PP			1,719,812	0	168,873		478,728	0	44,140	451,144
O&M	171											
O&M	172											
O&M	173	CUSTOMER ACCOUNTS EXPENSES										
O&M	174	901-Supervision	SALWAGCA		0	0	0		0	0	0	0
O&M	175	902-Meter Reading	CMETRDG		0	0	0		0	0	0	0
O&M	176	903-Customer Records and Collection Expense	CUSTREC		0	0	0		0	0	0	0
O&M	177	904-Uncollectible Accounts	EXP_904		34,704	0	3,273		2,478	0	124	407
O&M	178	905-Miscellaneous CA	CUSTCSS		0	0	0		0	0	0	0
O&M	179	TOTAL CUSTOMER ACCTS EXPENSE			34,704	0	3,273		2,478	0	124	407
O&M	180											
O&M	181											
O&M	182											
O&M	183											
O&M	184											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	RETAIL SYSTEM						
ID	NO.		BASIS	Large Comm & Ind	S	P	Q	T	Q	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
				CP-U	Secondary	Primary	Transmission	Real-Time	Light & Power	(z)
				Total	CP-U Sec	CP-U Prim	CP-U Trans	Market Pricing	WP-3	
								RTMP		
O&M	139	OPERATION & MAINTENANCE EXPENSE CONTINUED								
O&M	140									
O&M	141	DISTRIBUTION EXPENSES								
O&M	142									
O&M	143	Operation								
O&M	144	580-Supervision	SALWAGDO	0	0	0	0	0	0	0
O&M	145	581-Load Dispatch	DDISPSUB	0	0	0	0	0	0	0
O&M	146	582-Station Equipment	PLT_362	0	0	0	0	0	0	0
O&M	147	583-Overhead Lines	OHDIST	0	0	0	0	0	0	0
O&M	148	584-Underground Lines	UGDIST	0	0	0	0	0	0	0
O&M	149	585-Street Lighting	PLT_373	0	0	0	0	0	0	0
O&M	150	586-Metering	CMETERS	0	0	0	0	0	0	0
O&M	151	587-Customer Installations	PLT_371	0	0	0	0	0	0	0
O&M	152	588-Miscellaneous	DISTPLT	0	0	0	0	0	0	0
O&M	153	589-Rents	DISTPLT	0	0	0	0	0	0	0
O&M	154	Total Distribution Operation		0	0	0	0	0	0	0
O&M	155									
O&M	156	Maintenance								
O&M	157	590-Supervision	SALWAGDM	0	0	0	0	0	0	0
O&M	158	591-Structures	PLT_361	0	0	0	0	0	0	0
O&M	159	592-Station Equipment	PLT_362	0	0	0	0	0	0	0
O&M	160	593-Overhead Lines	OHDIST	0	0	0	0	0	0	0
O&M	161	594-Underground Lines	UGDIST	0	0	0	0	0	0	0
O&M	162	595-Transformers	PLT_368	0	0	0	0	0	0	0
O&M	163	596-Street Lighting	PLT_373	0	0	0	0	0	0	0
O&M	164	597-Metering	CMETERS	0	0	0	0	0	0	0
O&M	165	598-Miscellaneous	DISTPLT	0	0	0	0	0	0	0
O&M	166	Total Distribution Maintenance		0	0	0	0	0	0	0
O&M	167									
O&M	168	TOTAL DISTRIBUTION EXPENSES		0	0	0	0	0	0	0
O&M	169									
O&M	170	TOTAL OPER & MAINT PROD,TRAN,& DIST EXCL COST OF FUEL & PP		558,381	158,512	86,981	312,887	0	162,205	
O&M	171									
O&M	172	CUSTOMER ACCOUNTS EXPENSES								
O&M	173									
O&M	174	901-Supervision	SALWAGCA	0	0	0	0	0	0	0
O&M	175	902-Meter Reading	CMETRDG	0	0	0	0	0	0	0
O&M	176	903-Customer Records and Collection Expense	CUSTREC	0	0	0	0	0	0	0
O&M	177	904-Uncollectible Accounts	EXP_904	1,377	241	476	659	0	0	0
O&M	178	905-Miscellaneous CA	CUSTCSS	0	0	0	0	0	0	0
O&M	179	TOTAL CUSTOMER ACCTS EXPENSE		1,377	241	476	659	0	0	0
O&M	180									
O&M	181									
O&M	182									
O&M	183									
O&M	184									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027									
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM					
SCH	LINE	DESCRIPTION	ALLOCATION BASIS	S	S	S	Street	S	S
ID	NO.			Street	Street Light	Street	Lighting	Integrated	Iron River
				Lighting	(Closed)	Lighting	Total	OSL	OSL
				SL-3	SL-5	SL-6		Z-3	Z-4
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)
									(ag)
									(ah)
O&M	139	OPERATION & MAINTENANCE EXPENSE CONTINUED							
O&M	140								
O&M	141	DISTRIBUTION EXPENSES							
O&M	142								
O&M	143	Operation							
O&M	144	580-Supervision	SALWAGDO	0	0	0	0	0	0
O&M	145	581-Load Dispatch	DDISPSUB	0	0	0	0	0	0
O&M	146	582-Station Equipment	PLT_362	0	0	0	0	0	0
O&M	147	583-Overhead Lines	OHDIST	0	0	0	0	0	0
O&M	148	584-Underground Lines	UGDIST	0	0	0	0	0	0
O&M	149	585-Street Lighting	PLT_373	0	0	0	0	0	0
O&M	150	586-Metering	CMETERS	0	0	0	0	0	0
O&M	151	587-Customer Installations	PLT_371	0	0	0	0	0	0
O&M	152	588-Miscellaneous	DISTPLT	0	0	0	0	0	0
O&M	153	589-Rents	DISTPLT	0	0	0	0	0	0
O&M	154	Total Distribution Operation		0	0	0	0	0	0
O&M	155								
O&M	156	Maintenance							
O&M	157	590-Supervision	SALWAGDM	0	0	0	0	0	0
O&M	158	591-Structures	PLT_361	0	0	0	0	0	0
O&M	159	592-Station Equipment	PLT_362	0	0	0	0	0	0
O&M	160	593-Overhead Lines	OHDIST	0	0	0	0	0	0
O&M	161	594-Underground Lines	UGDIST	0	0	0	0	0	0
O&M	162	595-Transformers	PLT_368	0	0	0	0	0	0
O&M	163	596-Street Lighting	PLT_373	0	0	0	0	0	0
O&M	164	597-Metering	CMETERS	0	0	0	0	0	0
O&M	165	598-Miscellaneous	DISTPLT	0	0	0	0	0	0
O&M	166	Total Distribution Maintenance		0	0	0	0	0	0
O&M	167								
O&M	168	TOTAL DISTRIBUTION EXPENSES							
O&M	169								
O&M	170	TOTAL OPER & MAINT PROD,TRAN,& DIST EXCL COST OF FUEL & PP		1,872	101	7,739	9,712	2,409	0
O&M	171								
O&M	172	CUSTOMER ACCOUNTS EXPENSES							
O&M	173								
O&M	174	901-Supervision	SALWAGCA	0	0	0	0	0	0
O&M	175	902-Meter Reading	CMETRDG	0	0	0	0	0	0
O&M	176	903-Customer Records and Collection Expense	CUSTREC	0	0	0	0	0	0
O&M	177	904-Uncollectible Accounts	EXP_904	0	0	0	0	297	0
O&M	178	905-Miscellaneous CA	CUSTCSS	0	0	0	0	0	0
O&M	179	TOTAL CUSTOMER ACCTS EXPENSE		0	0	0	0	297	0
O&M	180								
O&M	181								
O&M	182								
O&M	183								
O&M	184								

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
O&M	185	OPERATION & MAINTENANCE EXPENSE CONTINUED							
O&M	186								
O&M	187	CUSTOMER SERVICE EXPENSES							
O&M	188	907-Supervision	SALWAGCS	0	0	0	0	0	0
O&M	189	908-Customer Assistance	CUSTCSS	0	0	0	0	0	0
O&M	190	908-Cust Assist - Energy Optimization	CUSTCSS	0	0	0	0	0	0
O&M	191	909-Informational and Instructional Expenses	CUSTCSS	0	0	0	0	0	0
O&M	192	910-Miscellaneous Cust Serv	CUSTCSS	0	0	0	0	0	0
O&M	193	TOTAL CUSTOMER SERVICE EXPENSE		0	0	0	0	0	0
O&M	194								
O&M	195	SALES EXPENSES							
O&M	196	912-Demonstrations and Selling	CUSTCSS	0	0	0	0	0	0
O&M	197	916-Miscellaneous Sales Expense	CUSTCSS	0	0	0	0	0	0
O&M	198	SALES EXPENSES TOTAL		0	0	0	0	0	0
O&M	199								
O&M	200	TOTAL CUSTOMER OPERATIONS EXPENSE		42,659	37,977	297	3,249	476	659
O&M	201								
O&M	202	TOTAL OPER & MAINT EXCL COST OF GAS AND A&G EXP		3,638,063	1,926,662	12,418	1,135,774	87,457	475,752
O&M	203								
O&M	204	ADMINISTRATIVE & GENERAL EXPENSE							
O&M	205	920-Administrative Salaries	SALWAGXAG	695,704	378,129	2,360	216,830	14,601	83,784
O&M	206	921-Office Supplies & Expense	SALWAGXAG	36,239	19,697	123	11,295	761	4,364
O&M	207	922-A&G Expense Transferred	SALWAGXAG	0	0	0	0	0	0
O&M	208	923-Outside Services - Legal	SALWAGXAG	77,587	42,170	263	24,181	1,628	9,344
O&M	209	924-Property Insurance	TOTPLT	297,910	161,920	1,011	92,850	6,252	35,877
O&M	210	925-Injuries and Damages	SALWAGXAG	167,706	91,152	569	52,269	3,520	20,197
O&M	211	926-Pensions & Benefits	SALWAGES	823,057	447,348	2,792	256,522	17,274	99,121
O&M	212	928-Regulatory Commission	SALWAGES	102,534	55,729	348	31,957	2,152	12,348
O&M	213	929-Duplicate Charges - Electric	SALWAGXAG	0	0	0	0	0	0
O&M	214	930-Miscellaneous	SALWAGXAG	5,227	2,841	18	1,629	110	629
O&M	215	931-Rents	GENLPLT	474	257	2	148	10	57
O&M	216	935-Maintenance of General Plant	GENLPLT	293,121	159,317	994	91,357	6,152	35,301
O&M	217	TOTAL A&G EXPENSE		2,499,559	1,358,560	8,480	779,038	52,459	301,022
O&M	218								
O&M	219	TOTAL OPERATION & MAINTENANCE EXP (INCL FUEL)		6,137,621	3,285,222	20,897	1,914,812	139,916	776,774
O&M	220								
O&M	221	TOTAL OPERATION & MAINTENANCE EXP (EXCL FUEL)		6,137,621	3,285,222	20,897	1,914,812	139,916	776,774
O&M	222								
O&M	223								
O&M	224								
O&M	225								
O&M	226								
O&M	227								
O&M	228								
O&M	229								
O&M	230								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
COS Without Minimum System				S	S	S	S	S	S	S
SCH	LINE	DESCRIPTION	ALLOCATION	Integrated Retail	Iron River	Res. Heating	General Service	General Service	Commercial	25kW-200kW
ID	NO.		BASIS	Residential	Residential	AH-1	C-1	C-2	Heating	Light & Power
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
				A-1	A-2				H-1	P-1
O&M	185	OPERATION & MAINTENANCE EXPENSE CONTINUED								
O&M	186									
O&M	187	CUSTOMER SERVICE EXPENSES								
O&M	188	907-Supervision	SALWAGCS	0	0	0	0	0	0	0
O&M	189	908-Customer Assistance	CUSTCSS	0	0	0	0	0	0	0
O&M	190	908-Cust Assist - Energy Optimization	CUSTCSS	0	0	0	0	0	0	0
O&M	191	909-Informational and Instructional Expenses	CUSTCSS	0	0	0	0	0	0	0
O&M	192	910-Miscellaneous Cust Serv	CUSTCSS	0	0	0	0	0	0	0
O&M	193	TOTAL CUSTOMER SERVICE EXPENSE		0	0	0	0	0	0	0
O&M	194									
O&M	195	SALES EXPENSES								
O&M	196	912-Demonstrations and Selling	CUSTCSS	0	0	0	0	0	0	0
O&M	197	916-Miscellaneous Sales Expense	CUSTCSS	0	0	0	0	0	0	0
O&M	198	SALES EXPENSES TOTAL		0	0	0	0	0	0	0
O&M	199									
O&M	200	TOTAL CUSTOMER OPERATIONS EXPENSE		34,704	0	3,273	2,478	0	124	407
O&M	201									
O&M	202	TOTAL OPER & MAINT EXCL COST OF GAS AND A&G EXP		1,754,516	0	172,146	481,206	0	44,264	451,551
O&M	203									
O&M	204	ADMINISTRATIVE & GENERAL EXPENSE								
O&M	205	920-Administrative Salaries	SALWAGXAG	344,313	0	33,815	96,007	0	8,795	88,058
O&M	206	921-Office Supplies & Expense	SALWAGXAG	17,935	0	1,761	5,001	0	458	4,587
O&M	207	922-A&G Expense Transferred	SALWAGXAG	0	0	0	0	0	0	0
O&M	208	923-Outside Services - Legal	SALWAGXAG	38,399	0	3,771	10,707	0	981	9,820
O&M	209	924-Property Insurance	TOTPLT	147,440	0	14,480	41,112	0	3,766	37,707
O&M	210	925-Injuries and Damages	SALWAGXAG	83,000	0	8,151	23,144	0	2,120	21,227
O&M	211	926-Pensions & Benefits	SALWAGES	407,343	0	40,005	113,582	0	10,404	104,177
O&M	212	928-Regulatory Commission	SALWAGES	50,746	0	4,984	14,150	0	1,296	12,978
O&M	213	929-Duplicate Charges - Electric	SALWAGXAG	0	0	0	0	0	0	0
O&M	214	930-Miscellaneous	SALWAGXAG	2,587	0	254	721	0	66	662
O&M	215	931-Rents	GENLPLT	234	0	23	65	0	6	60
O&M	216	935-Maintenance of General Plant	GENLPLT	145,070	0	14,247	40,451	0	3,705	37,101
O&M	217	TOTAL A&G EXPENSE		1,237,067	0	121,493	344,940	0	31,598	316,378
O&M	218									
O&M	219	TOTAL OPERATION & MAINTENANCE EXP (INCL FUEL)		2,991,583	0	293,639	826,146	0	75,861	767,929
O&M	220									
O&M	221	TOTAL OPERATION & MAINTENANCE EXP (EXCL FUEL)		2,991,583	0	293,639	826,146	0	75,861	767,929
O&M	222									
O&M	223									
O&M	224									
O&M	225									
O&M	226									
O&M	227									
O&M	228									
O&M	229									
O&M	230									

PRODUCTION DEMAND COMPONENT

U-22032 A-45 - Production Demand Component COST OF SERVICE

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH	LINE	COS Without Minimum System		ALLOCATION	S	S	S	S	S	
ID	NO.	DESCRIPTION		BASIS	Street	Street Light	Street	Street	Integrated	Iron River
		(a)		(b)	Lighting	(Closed)	Lighting	Lighting	OSL	OSL
					SL-3	SL-5	SL-6	Total	Z-3	Z-4
					(aa)	(ab)	(ac)	(ad)	(ae)	(af)
										(ag)
										(ah)
O&M	185	OPERATION & MAINTENANCE EXPENSE CONTINUED								
O&M	186									
O&M	187	CUSTOMER SERVICE EXPENSES								
O&M	188	907-Supervision	SALWAGCS		0	0	0	0	0	0
O&M	189	908-Customer Assistance	CUSTCSS		0	0	0	0	0	0
O&M	190	908-Cust Assist - Energy Optimization	CUSTCSS		0	0	0	0	0	0
O&M	191	909-Informational and Instructional Expenses	CUSTCSS		0	0	0	0	0	0
O&M	192	910-Miscellaneous Cust Serv	CUSTCSS		0	0	0	0	0	0
O&M	193	TOTAL CUSTOMER SERVICE EXPENSE			0	0	0	0	0	0
O&M	194									
O&M	195	SALES EXPENSES								
O&M	196	912-Demonstrations and Selling	CUSTCSS		0	0	0	0	0	0
O&M	197	916-Miscellaneous Sales Expense	CUSTCSS		0	0	0	0	0	0
O&M	198	SALES EXPENSES TOTAL			0	0	0	0	0	0
O&M	199									
O&M	200	TOTAL CUSTOMER OPERATIONS EXPENSE			0	0	0	0	297	0
O&M	201									
O&M	202	TOTAL OPER & MAINT EXCL COST OF GAS AND A&G EXP			1,872	101	7,739	9,712	2,706	0
O&M	203									
O&M	204	ADMINISTRATIVE & GENERAL EXPENSE								
O&M	205	920-Administrative Salaries	SALWAGXAG		369	20	1,502	1,890	470	0
O&M	206	921-Office Supplies & Expense	SALWAGXAG		19	1	78	98	24	0
O&M	207	922-A&G Expense Transferred	SALWAGXAG		0	0	0	0	0	0
O&M	208	923-Outside Services - Legal	SALWAGXAG		41	2	167	211	52	0
O&M	209	924-Property Insurance	TOTPLT		158	8	643	809	201	0
O&M	210	925-Injuries and Damages	SALWAGXAG		89	5	362	456	113	0
O&M	211	926-Pensions & Benefits	SALWAGES		436	23	1,776	2,236	556	0
O&M	212	928-Regulatory Commission	SALWAGES		54	3	221	279	69	0
O&M	213	929-Duplicate Charges - Electric	SALWAGXAG		0	0	0	0	0	0
O&M	214	930-Miscellaneous	SALWAGXAG		3	0	11	14	4	0
O&M	215	931-Rents	GENLPLT		0	0	1	1	0	0
O&M	216	935-Maintenance of General Plant	GENLPLT		155	8	633	796	198	0
O&M	217	TOTAL A&G EXPENSE			1,325	71	5,395	6,791	1,688	0
O&M	218									
O&M	219	TOTAL OPERATION & MAINTENANCE EXP (INCL FUEL)			3,197	173	13,134	16,503	4,394	0
O&M	220									
O&M	221	TOTAL OPERATION & MAINTENANCE EXP (EXCL FUEL)			3,197	173	13,134	16,503	4,394	0
O&M	222									
O&M	223									
O&M	224									
O&M	225									
O&M	226									
O&M	227									
O&M	228									
O&M	229									
O&M	230									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
DAX	1	DEPRECIATION AND AMORTIZATION EXPENSE							
DAX	2								
DAX	3	CUSTOMER PLANT AMORTIZATION	INTGENPLT	196,166	106,620	665	61,139	4,117	23,624
DAX	4								
DAX	5	HYDRAULIC PRODUCTION PLANT EXPENSE	PRODPLT	5,400,944	2,935,520	18,323	1,683,313	113,352	650,436
DAX	6	OTHER PRODUCTION PLANT EXPENSE	PRODPLT	0	0	0	0	0	0
DAX	7								
DAX	8	TRANSMISSION PLANT EXPENSE	TRANPLT	0	0	0	0	0	0
DAX	9								
DAX	10	DISTRIBUTION PLANT EXPENSE	DISTPLT	0	0	0	0	0	0
DAX	11								
DAX	12	GENERAL PLANT EXPENSE	GENLPLT	471,862	256,467	1,601	147,065	9,903	56,826
DAX	13								
DAX	14	TOTAL DEPRECIATION EXPENSE		5,872,806	3,191,987	19,923	1,830,379	123,255	707,263
DAX	15								
DAX	16	TOTAL AMORTIZATION EXPENSE		196,166	106,620	665	61,139	4,117	23,624
DAX	17								
DAX	18	TOTAL DEPRECIATION & AMORTIZATION EXPENSE		6,068,972	3,298,607	20,589	1,891,518	127,372	730,887
DAX	19								
DAX	20								
DAX	21								
DAX	22								
DAX	23								
DAX	24								
DAX	25								
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DAX	43								
DAX	44								
DAX	45								
DAX	46								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH	LINE		ALLOCATION	Integrated Retail	Iron River	Res. Heating		General Service	General Service	Commercial	25kW-200kW	
ID	NO.	DESCRIPTION	BASIS	Residential	Residential	AH-1		C-1	C-2	Heating	Light & Power	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
DAX	1	DEPRECIATION AND AMORTIZATION EXPENSE										
DAX	2											
DAX	3	CUSTOMER PLANT AMORTIZATION	INTGENPLT	97,085	0	9,535		27,071	0	2,480	24,829	
DAX	4											
DAX	5	HYDRAULIC PRODUCTION PLANT EXPENSE	PRODPLT	2,673,003	0	262,517		745,333	0	68,275	683,616	
DAX	6	OTHER PRODUCTION PLANT EXPENSE	PRODPLT	0	0	0		0	0	0	0	
DAX	7											
DAX	8	TRANSMISSION PLANT EXPENSE	TRANPLT	0	0	0		0	0	0	0	
DAX	9											
DAX	10	DISTRIBUTION PLANT EXPENSE	DISTPLT	0	0	0		0	0	0	0	
DAX	11											
DAX	12	GENERAL PLANT EXPENSE	GENLPLT	233,531	0	22,935		65,117	0	5,965	59,725	
DAX	13											
DAX	14	TOTAL DEPRECIATION EXPENSE		2,906,534	0	285,452		810,450	0	74,240	743,341	
DAX	15											
DAX	16	TOTAL AMORTIZATION EXPENSE		97,085	0	9,535		27,071	0	2,480	24,829	
DAX	17											
DAX	18	TOTAL DEPRECIATION & AMORTIZATION EXPENSE		3,003,620	0	294,987		837,521	0	76,719	768,170	
DAX	19											
DAX	20											
DAX	21											
DAX	22											
DAX	23											
DAX	24											
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Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
COS Without Minimum System				Large Comm & Ind	S		P	Q	T	Q
SCH	LINE	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Real-Time Market Pricing RTMP	> 5,000kW Light & Power WP-3	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
										(z)
DAX	1	DEPRECIATION AND AMORTIZATION EXPENSE								
DAX	2									
DAX	3	CUSTOMER PLANT AMORTIZATION	INTGENPLT		27,750	6,759	4,117	16,875	0	6,750
DAX	4									
DAX	5	HYDRAULIC PRODUCTION PLANT EXPENSE	PRODPLT		764,039	186,090	113,352	464,598	0	185,839
DAX	6	OTHER PRODUCTION PLANT EXPENSE	PRODPLT		0	0	0	0	0	0
DAX	7									
DAX	8	TRANSMISSION PLANT EXPENSE	TRANPLT		0	0	0	0	0	0
DAX	9									
DAX	10	DISTRIBUTION PLANT EXPENSE	DISTPLT		0	0	0	0	0	0
DAX	11									
DAX	12	GENERAL PLANT EXPENSE	GENLPLT		66,752	16,258	9,903	40,590	0	16,236
DAX	13									
DAX	14	TOTAL DEPRECIATION EXPENSE			830,790	202,348	123,255	505,188	0	202,075
DAX	15									
DAX	16	TOTAL AMORTIZATION EXPENSE			27,750	6,759	4,117	16,875	0	6,750
DAX	17									
DAX	18	TOTAL DEPRECIATION & AMORTIZATION EXPENSE			858,541	209,107	127,372	522,062	0	208,825
DAX	19									
DAX	20									
DAX	21									
DAX	22									
DAX	23									
DAX	24									
DAX	25									
DAX	26									
DAX	27									
DAX	28									
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DAX	44									
DAX	45									
DAX	46									

Upper Peninsula Power Company										
Forecasted Cost of Service Allocation Study										
Forecast 12 Month Period ending December 31, 2027										
RETAIL SYSTEM										
PRODUCTION DEMAND COMPONENT										
SCH	LINE	COS Without Minimum System		ALLOCATION	S	S	S	S	S	
ID	NO.	DESCRIPTION		BASIS	Street	Street Light	Street	Street	Integrated	Iron River
		(a)		(b)	Lighting	(Closed)	Lighting	Lighting	OSL	OSL
					SL-3	SL-5	SL-6	Total	Z-3	Z-4
					(aa)	(ab)	(ac)	(ad)	(ae)	(af)
										(ag)
										(ah)
DAX	1	DEPRECIATION AND AMORTIZATION EXPENSE								
DAX	2									
DAX	3	CUSTOMER PLANT AMORTIZATION	INTGENPLT		104	6	423	533	133	0
DAX	4									
DAX	5	HYDRAULIC PRODUCTION PLANT EXPENSE	PRODPLT		2,863	154	11,657	14,674	3,648	0
DAX	6	OTHER PRODUCTION PLANT EXPENSE	PRODPLT		0	0	0	0	0	0
DAX	7									
DAX	8	TRANSMISSION PLANT EXPENSE	TRANPLT		0	0	0	0	0	0
DAX	9									
DAX	10	DISTRIBUTION PLANT EXPENSE	DISTPLT		0	0	0	0	0	0
DAX	11									
DAX	12	GENERAL PLANT EXPENSE	GENLPLT		250	13	1,018	1,282	319	0
DAX	13									
DAX	14	TOTAL DEPRECIATION EXPENSE			3,114	167	12,675	15,956	3,967	0
DAX	15									
DAX	16	TOTAL AMORTIZATION EXPENSE			104	6	423	533	133	0
DAX	17									
DAX	18	TOTAL DEPRECIATION & AMORTIZATION EXPENSE			3,218	173	13,099	16,489	4,100	0
DAX	19									
DAX	20									
DAX	21									
DAX	22									
DAX	23									
DAX	24									
DAX	25									
DAX	26									
DAX	27									
DAX	28									
DAX	29									
DAX	30									
DAX	31									
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DAX	46									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
OTX	1	OTHER OPERATING EXPENSES							
OTX	2								
OTX	3	TAXES OTHER THAN INCOME TAXES							
OTX	4								
OTX	5	Payroll Related							
OTX	6	FICA	SALWAGES	179,030	97,306	607	55,798	3,757	21,561
OTX	7	FUTA	SALWAGES	0	0	0	0	0	0
OTX	8	SUTA	SALWAGES	0	0	0	0	0	0
OTX	9	IBS Payroll Taxes	SALWAGES	0	0	0	0	0	0
OTX	10	Unemployment Compensation	SALWAGES	0	0	0	0	0	0
OTX	11								
OTX	12	Real Estate & Property Tax	TOTPLT	2,184,236	1,187,175	7,410	680,761	45,841	263,048
OTX	13								
OTX	14	Excise and Use Tax	TOTPLT	0	0	0	0	0	0
OTX	15								
OTX	16	Other							
OTX	17	Unauthorized Insurance Tax	RATEBASE	0	0	0	0	0	0
OTX	18	Other	RATEBASE	0	0	0	0	0	0
OTX	19	Total Other		0	0	0	0	0	0
OTX	20								
OTX	21								
OTX	22	TOTAL TAXES OTHER THAN INCOME		2,363,266	1,284,482	8,017	736,559	49,599	284,608
OTX	23								
OTX	24								
OTX	25								
OTX	26								
OTX	27								
OTX	28								
OTX	29								
OTX	30								
OTX	31								
OTX	32								
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OTX	46								

Upper Peninsula Power Company												
Forecasted Cost of Service Allocation Study												
Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S	S	S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1	General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1		
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
OTX	1	OTHER OPERATING EXPENSES										
OTX	2											
OTX	3	TAXES OTHER THAN INCOME TAXES										
OTX	4											
OTX	5	Payroll Related										
OTX	6	FICA	SALWAGES	88,604	0	8,702	24,706	0	2,263	22,660		
OTX	7	FUTA	SALWAGES	0	0	0	0	0	0	0		0
OTX	8	SUTA	SALWAGES	0	0	0	0	0	0	0		0
OTX	9	IBS Payroll Taxes	SALWAGES	0	0	0	0	0	0	0		0
OTX	10	Unemployment Compensation	SALWAGES	0	0	0	0	0	0	0		0
OTX	11											
OTX	12	Real Estate & Property Tax	TOTPLT	1,081,009	0	106,166	301,426	0	27,611	276,466		
OTX	13											
OTX	14	Excise and Use Tax	TOTPLT	0	0	0	0	0	0	0		0
OTX	15											
OTX	16	Other										
OTX	17	Unauthorized Insurance Tax	RATEBASE	0	0	0	0	0	0	0		0
OTX	18	Other	RATEBASE	0	0	0	0	0	0	0		0
OTX	19	Total Other		0	0	0	0	0	0	0		0
OTX	20											
OTX	21											
OTX	22	TOTAL TAXES OTHER THAN INCOME		1,169,613	0	114,868	326,132	0	29,875	299,127		
OTX	23											
OTX	24											
OTX	25											
OTX	26											
OTX	27											
OTX	28											
OTX	29											
OTX	30											
OTX	31											
OTX	32											
OTX	33											
OTX	34											
OTX	35											
OTX	36											
OTX	37											
OTX	38											
OTX	39											
OTX	40											
OTX	41											
OTX	42											
OTX	43											
OTX	44											
OTX	45											
OTX	46											

Upper Peninsula Power Company											
Forecasted Cost of Service Allocation Study											
Forecast 12 Month Period ending December 31, 2027											
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM							
COS Without Minimum System				Large Comm & Ind	S	P	Q	T	Q		
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	Transmission CP-U Trans	Real-Time Market Pricing RTMP	> 5,000kW Light & Power WP-3		
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
OTX	1	OTHER OPERATING EXPENSES									
OTX	2										
OTX	3	TAXES OTHER THAN INCOME TAXES									
OTX	4										
OTX	5	Payroll Related									
OTX	6	FICA	SALWAGES	25,326	6,168	3,757	15,400	0	6,160		
OTX	7	FUTA	SALWAGES	0	0	0	0	0	0		
OTX	8	SUTA	SALWAGES	0	0	0	0	0	0		
OTX	9	IBS Payroll Taxes	SALWAGES	0	0	0	0	0	0		
OTX	10	Unemployment Compensation	SALWAGES	0	0	0	0	0	0		
OTX	11										
OTX	12	Real Estate & Property Tax	TOTPLT	308,991	75,258	45,841	187,891	0	75,156		
OTX	13										
OTX	14	Excise and Use Tax	TOTPLT	0	0	0	0	0	0		
OTX	15										
OTX	16	Other									
OTX	17	Unauthorized Insurance Tax	RATEBASE	0	0	0	0	0	0		
OTX	18	Other	RATEBASE	0	0	0	0	0	0		
OTX	19	Total Other		0	0	0	0	0	0		
OTX	20										
OTX	21										
OTX	22	TOTAL TAXES OTHER THAN INCOME		334,317	81,426	49,599	203,292	0	81,317		
OTX	23										
OTX	24										
OTX	25										
OTX	26										
OTX	27										
OTX	28										
OTX	29										
OTX	30										
OTX	31										
OTX	32										
OTX	33										
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OTX	37										
OTX	38										
OTX	39										
OTX	40										
OTX	41										
OTX	42										
OTX	43										
OTX	44										
OTX	45										
OTX	46										

Upper Peninsula Power Company										
Forecasted Cost of Service Allocation Study										
Forecast 12 Month Period ending December 31, 2027										
RETAIL SYSTEM										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	S	S	S	Street	S	S	
ID	NO.		BASIS	Street	Street Light	Street	Lighting	Integrated	Iron River	
		(a)	(b)	Lighting	(Closed)	Lighting	Total	OSL	OSL	
				SL-3	SL-5	SL-6		Z-3	Z-4	(ag) (ah)
OTX	1	OTHER OPERATING EXPENSES								
OTX	2									
OTX	3	TAXES OTHER THAN INCOME TAXES								
OTX	4									
OTX	5	Payroll Related								
OTX	6	FICA	SALWAGES	95	5	386	486	121	0	
OTX	7	FUTA	SALWAGES	0	0	0	0	0	0	
OTX	8	SUTA	SALWAGES	0	0	0	0	0	0	
OTX	9	IBS Payroll Taxes	SALWAGES	0	0	0	0	0	0	
OTX	10	Unemployment Compensation	SALWAGES	0	0	0	0	0	0	
OTX	11									
OTX	12	Real Estate & Property Tax	TOTPLT	1,158	62	4,714	5,934	1,475	0	
OTX	13									
OTX	14	Excise and Use Tax	TOTPLT	0	0	0	0	0	0	
OTX	15									
OTX	16	Other								
OTX	17	Unauthorized Insurance Tax	RATEBASE	0	0	0	0	0	0	
OTX	18	Other	RATEBASE	0	0	0	0	0	0	
OTX	19	Total Other		0	0	0	0	0	0	
OTX	20									
OTX	21									
OTX	22	TOTAL TAXES OTHER THAN INCOME		1,253	67	5,101	6,421	1,596	0	
OTX	23									
OTX	24									
OTX	25									
OTX	26									
OTX	27									
OTX	28									
OTX	29									
OTX	30									
OTX	31									
OTX	32									
OTX	33									
OTX	34									
OTX	35									
OTX	36									
OTX	37									
OTX	38									
OTX	39									
OTX	40									
OTX	41									
OTX	42									
OTX	43									
OTX	44									
OTX	45									
OTX	46									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERCIAL SECONDARY	TOTAL COMMERCIAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
ITX	1	DEVELOPMENT OF PRESENT INCOME TAX EXPENSE							
ITX	2	OPERATING REVENUES							
ITX	3	SALES OF ELECTRICITY REVENUE	SCH , LN	16,966,929	8,965,384	59,062	5,942,507	(126,009)	2,125,985
ITX	4	OTHER OPERATING REVENUE	SCH , LN	0	0	0	0	0	0
ITX	5	TOTAL OPERATING REVENUES	SCH , LN	16,966,929	8,965,384	59,062	5,942,507	(126,009)	2,125,985
ITX	6	Less:							
ITX	7	O&M EXPENSE INCL COST OF SALES	SCH , LN	6,137,621	3,285,222	20,897	1,914,812	139,916	776,774
ITX	8	DEPRECIATION EXPENSE	SCH , LN	5,872,806	3,191,987	19,923	1,830,379	123,255	707,263
ITX	9	AMORTIZATION EXPENSE	SCH , LN	196,166	106,620	665	61,139	4,117	23,624
ITX	10	TAXES OTHER THAN INCOME TAXES	SCH , LN	2,363,266	1,284,482	8,017	736,559	49,509	284,608
ITX	11	NET OPERATING INCOME BEFORE TAXES & INTEREST		2,397,070	1,097,074	9,559	1,399,618	(442,896)	333,715
ITX	12	Less:							
ITX	13	Synchronized Interest (Rate Base * Composite Cost of Debt Rate of 2.44%)		1,425,428	772,217	4,833	444,725	30,361	173,292
ITX	14								
ITX	15	SUBTOTAL BOOK INCOME BEFORE TAXES		971,642	324,857	4,726	954,893	(473,257)	160,423
ITX	16								
ITX	17	STATE INCOME TAXES							
ITX	18								
ITX	19	NET INCOME ADDITIONS/DEDUCTIONS							
ITX	20	Plant Depreciation - NERCO/Soo Energy	PRODPLT	0	0	0	0	0	0
ITX	21								
ITX	22	Customer Advances for Construction	DISTPLT	0	0	0	0	0	0
ITX	23	Goodwill	RATEBASE	(13,235)	(7,170)	(45)	(4,129)	(282)	(1,609)
ITX	24	Interest	RATEBASE	111,260	60,274	377	34,712	2,370	13,526
ITX	25								
ITX	26	Environmental Remediation	PRODPLT	50,595	27,499	172	15,769	1,062	6,093
ITX	27								
ITX	28	Deferred Income and Deductions	DISTPLT	0	0	0	0	0	0
ITX	29	Net Operating Loss	DISTPLT	0	0	0	0	0	0
ITX	30	Plant Depreciation - Distribution	DISTPLT	0	0	0	0	0	0
ITX	31	Contribution in Aid of Construction	DISTPLT	0	0	0	0	0	0
ITX	32	Goodwill - Distribution Related	DISTPLT	0	0	0	0	0	0
ITX	33	Regulatory Liabilities	DISTPLT	0	0	0	0	0	0
ITX	34	Regulatory Asset - Non-Current	DISTPLT	0	0	0	0	0	0
ITX	35								
ITX	36	Goodwill - General Plant Related	SALWAGES	(537,152)	(291,953)	(1,822)	(167,414)	(11,273)	(64,689)
ITX	37	Plant Depreciation - General & Common	SALWAGES	0	0	0	0	0	0
ITX	38	Retirement - Medical	SALWAGES	493	268	2	154	10	59
ITX	39	Pension	SALWAGES	238,015	129,366	807	74,182	4,995	28,664
ITX	40	Post Retirement - Life Insurance	SALWAGES	(54,210)	(29,464)	(184)	(16,896)	(1,138)	(6,529)
ITX	41	SERP	SALWAGES	1,251	680	4	390	26	151
ITX	42	Pension Restoration	SALWAGES	1,661	903	6	518	35	200
ITX	43	SUBTOTAL NET INCOME ADDITIONS/DEDUCTIONS		(201,323)	(109,597)	(683)	(62,715)	(4,195)	(24,133)
ITX	44								
ITX	45	STATE TAXABLE INCOME		770,319	215,260	4,043	892,178	(477,452)	136,289
ITX	46								
ITX	47	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED							
ITX	48								
ITX	49	STATE TAXABLE INCOME		770,319	215,260	4,043	892,178	(477,452)	136,289
ITX	50								
ITX	51	STATE INCOME TAX @ 6.00%		46,219	12,916	243	53,531	(28,647)	8,177
ITX	52								

Upper Peninsula Power Company												
Forecasted Cost of Service Allocation Study												
Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
ITX	1	DEVELOPMENT OF PRESENT INCOME TAX EXPENSE										
ITX	2	OPERATING REVENUES										
ITX	3	SALES OF ELECTRICITY REVENUE	SCH , LN		8,350,331	0	615,053		2,330,053	0	167,509	3,078,782
ITX	4	OTHER OPERATING REVENUE	SCH , LN		0	0	0		0	0	0	0
ITX	5	TOTAL OPERATING REVENUES	SCH , LN		8,350,331	0	615,053		2,330,053	0	167,509	3,078,782
ITX	6	Less:										
ITX	7	O&M EXPENSE INCL COST OF SALES	SCH , LN		2,991,583	0	293,639		826,146	0	75,861	767,929
ITX	8	DEPRECIATION EXPENSE	SCH , LN		2,906,534	0	285,452		810,450	0	74,240	743,341
ITX	9	AMORTIZATION EXPENSE	SCH , LN		97,085	0	9,535		27,071	0	2,480	24,829
ITX	10	TAXES OTHER THAN INCOME TAXES	SCH , LN		1,169,613	0	114,868		326,132	0	29,875	299,127
ITX	11	NET OPERATING INCOME BEFORE TAXES & INTEREST										
					1,185,515	0	(88,441)		340,253	0	(14,947)	1,243,556
ITX	12	Less:										
ITX	13	Synchronized Interest (Rate Base * Composite Cost of Debt Rate of 2.44%)			703,160	0	69,057		196,036	0	17,969	180,269
ITX	14											
ITX	15	SUBTOTAL BOOK INCOME BEFORE TAXES										
					482,355	0	(157,498)		144,218	0	(32,915)	1,063,287
ITX	16											
ITX	17	STATE INCOME TAXES										
ITX	18											
ITX	19	NET INCOME ADDITIONS/DEDUCTIONS										
ITX	20	Plant Depreciation - NERCO/Soo Energy	PRODPLT		0	0	0		0	0	0	0
ITX	21											
ITX	22	Customer Advances for Construction	DISTPLT		0	0	0		0	0	0	0
ITX	23	Goodwill	RATEBASE		(6,529)	0	(641)		(1,820)	0	(167)	(1,674)
ITX	24	Interest	RATEBASE		54,884	0	5,390		15,301	0	1,403	14,071
ITX	25											
ITX	26	Environmental Remediation	PRODPLT		25,040	0	2,459		6,982	0	640	6,404
ITX	27											
ITX	28	Deferred Income and Deductions	DISTPLT		0	0	0		0	0	0	0
ITX	29	Net Operating Loss	DISTPLT		0	0	0		0	0	0	0
ITX	30	Plant Depreciation - Distribution	DISTPLT		0	0	0		0	0	0	0
ITX	31	Contribution in Aid of Construction	DISTPLT		0	0	0		0	0	0	0
ITX	32	Goodwill - Distribution Related	DISTPLT		0	0	0		0	0	0	0
ITX	33	Regulatory Liabilities	DISTPLT		0	0	0		0	0	0	0
ITX	34	Regulatory Asset - Non-Current	DISTPLT		0	0	0		0	0	0	0
ITX	35											
ITX	36	Goodwill - General Plant Related	SALWAGES		(265,844)	0	(26,109)		(74,127)	0	(6,790)	(67,989)
ITX	37	Plant Depreciation - General & Common	SALWAGES		0	0	0		0	0	0	0
ITX	38	Retirement - Medical	SALWAGES		244	0	24		68	0	6	62
ITX	39	Pension	SALWAGES		117,797	0	11,569		32,846	0	3,009	30,126
ITX	40	Post Retirement - Life Insurance	SALWAGES		(26,829)	0	(2,635)		(7,481)	0	(685)	(6,862)
ITX	41	SERP	SALWAGES		619	0	61		173	0	16	158
ITX	42	Pension Restoration	SALWAGES		822	0	81		229	0	21	210
ITX	43	SUBTOTAL NET INCOME ADDITIONS/DEDUCTIONS										
					(99,796)	0	(9,801)		(27,829)	0	(2,548)	(25,493)
ITX	44											
ITX	45	STATE TAXABLE INCOME										
					382,559	0	(167,299)		116,389	0	(35,464)	1,037,795
ITX	46											
ITX	47	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED										
ITX	48											
ITX	49	STATE TAXABLE INCOME										
					382,559	0	(167,299)		116,389	0	(35,464)	1,037,795
ITX	50											
ITX	51	STATE INCOME TAX @ 6.00%										
					22,954	0	(10,038)		6,983	0	(2,128)	62,268
ITX	52											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	RETAIL SYSTEM						
ID	NO.		BASIS	Large Comm & Ind	Large Commercial & Industrial	Transmission	Real-Time	> 5,000kW		
		(a)	(b)	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	CP-U Trans	Market Pricing RTMP	Light & Power WP-3	(z)
			(s)	(t)	(u)	(v)	(w)	(x)	(y)	
ITX	1	DEVELOPMENT OF PRESENT INCOME TAX EXPENSE								
ITX	2	OPERATING REVENUES								
ITX	3	SALES OF ELECTRICITY REVENUE SCH , LN		1,649,382	366,164	(126,009)	1,409,227	0	716,758	
ITX	4	OTHER OPERATING REVENUE SCH , LN		0	0	0	0	0	0	
ITX	5	TOTAL OPERATING REVENUES SCH , LN		1,649,382	366,164	(126,009)	1,409,227	0	716,758	
ITX	6	Less:								
ITX	7	O&M EXPENSE INCL COST OF SALES SCH , LN		913,355	244,876	139,916	528,563	0	248,212	
ITX	8	DEPRECIATION EXPENSE SCH , LN		830,790	202,348	123,255	505,188	0	202,075	
ITX	9	AMORTIZATION EXPENSE SCH , LN		27,750	6,759	4,117	16,875	0	6,750	
ITX	10	TAXES OTHER THAN INCOME TAXES SCH , LN		334,317	81,426	49,509	203,292	0	81,317	
ITX	11	NET OPERATING INCOME BEFORE TAXES & INTEREST		(456,831)	(169,245)	(442,896)	155,310	0	178,405	
ITX	12	Less:								
ITX	13	Synchronized Interest (Rate Base * Composite Cost of Debt Rate of 2.44%)		203,570	50,452	30,361	122,757	0	50,535	
ITX	14									
ITX	15	SUBTOTAL BOOK INCOME BEFORE TAXES		(660,401)	(219,697)	(473,257)	32,553	0	127,870	
ITX	16									
ITX	17	STATE INCOME TAXES								
ITX	18									
ITX	19	NET INCOME ADDITIONS/DEDUCTIONS								
ITX	20	Plant Depreciation - NERCO/Soo Energy PRODPLT		0	0	0	0	0	0	
ITX	21									
ITX	22	Customer Advances for Construction DISTPLT		0	0	0	0	0	0	
ITX	23	Goodwill RATEBASE		(1,890)	(468)	(282)	(1,140)	(0)	(469)	
ITX	24	Interest RATEBASE		15,889	3,938	2,370	9,582	0	3,944	
ITX	25									
ITX	26	Environmental Remediation PRODPLT		7,157	1,743	1,062	4,352	0	1,741	
ITX	27									
ITX	28	Deferred Income and Deductions DISTPLT		0	0	0	0	0	0	
ITX	29	Net Operating Loss DISTPLT		0	0	0	0	0	0	
ITX	30	Plant Depreciation - Distribution DISTPLT		0	0	0	0	0	0	
ITX	31	Contribution in Aid of Construction DISTPLT		0	0	0	0	0	0	
ITX	32	Goodwill - Distribution Related DISTPLT		0	0	0	0	0	0	
ITX	33	Regulatory Liabilities DISTPLT		0	0	0	0	0	0	
ITX	34	Regulatory Asset - Non-Current DISTPLT		0	0	0	0	0	0	
ITX	35									
ITX	36	Goodwill - General Plant Related SALWAGES		(75,988)	(18,508)	(11,273)	(46,207)	(0)	(18,483)	
ITX	37	Plant Depreciation - General & Common SALWAGES		0	0	0	0	0	0	
ITX	38	Retirement - Medical SALWAGES		70	17	10	42	0	17	
ITX	39	Pension SALWAGES		33,671	8,201	4,995	20,474	0	8,190	
ITX	40	Post Retirement - Life Insurance SALWAGES		(7,669)	(1,868)	(1,138)	(4,663)	(0)	(1,865)	
ITX	41	SERP SALWAGES		177	43	26	108	0	43	
ITX	42	Pension Restoration SALWAGES		235	57	35	143	0	57	
ITX	43	SUBTOTAL NET INCOME ADDITIONS/DEDUCTIONS		(28,348)	(6,845)	(4,195)	(17,309)	(0)	(6,825)	
ITX	44									
ITX	45	STATE TAXABLE INCOME		(688,749)	(226,541)	(477,452)	15,244	0	121,045	
ITX	46									
ITX	47	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED								
ITX	48									
ITX	49	STATE TAXABLE INCOME		(688,749)	(226,541)	(477,452)	15,244	0	121,045	
ITX	50									
ITX	51	STATE INCOME TAX @ 6.00%		(41,325)	(13,592)	(28,647)	915	0	7,263	
ITX	52									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH	LINE	COS Without Minimum System		ALLOCATION	S	S	S	S	S	
ID	NO.	DESCRIPTION		BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
		(a)	(b)		(aa)	(ab)	(ac)	(ad)	(ae)	(af)
										(ag)
										(ah)
ITX	1	DEVELOPMENT OF PRESENT INCOME TAX EXPENSE								
ITX	2	OPERATING REVENUES								
ITX	3	SALES OF ELECTRICITY REVENUE	SCH , LN		6,019	665	40,749	47,432	11,630	0
ITX	4	OTHER OPERATING REVENUE	SCH , LN		0	0	0	0	0	0
ITX	5	TOTAL OPERATING REVENUES	SCH , LN		6,019	665	40,749	47,432	11,630	0
ITX	6	Less:								
ITX	7	O&M EXPENSE INCL COST OF SALES	SCH , LN		3,197	173	13,134	16,503	4,394	0
ITX	8	DEPRECIATION EXPENSE	SCH , LN		3,114	167	12,675	15,956	3,967	0
ITX	9	AMORTIZATION EXPENSE	SCH , LN		104	6	423	533	133	0
ITX	10	TAXES OTHER THAN INCOME TAXES	SCH , LN		1,253	67	5,101	6,421	1,596	0
ITX	11	NET OPERATING INCOME BEFORE TAXES & INTEREST			(1,649)	251	9,416	8,019	1,540	0
ITX	12	Less:								
ITX	13	Synchronized Interest (Rate Base * Composite Cost of Debt Rate of 2.44%)			754	41	3,076	3,871	962	0
ITX	14									
ITX	15	SUBTOTAL BOOK INCOME BEFORE TAXES			(2,403)	211	6,340	4,148	578	0
ITX	16									
ITX	17	STATE INCOME TAXES								
ITX	18									
ITX	19	NET INCOME ADDITIONS/DEDUCTIONS								
ITX	20	Plant Depreciation - NERCO/Soo Energy	PRODPLT		0	0	0	0	0	0
ITX	21									
ITX	22	Customer Advances for Construction	DISTPLT		0	0	0	0	0	0
ITX	23	Goodwill	RATEBASE		(7)	(0)	(29)	(36)	(9)	(0)
ITX	24	Interest	RATEBASE		59	3	240	302	75	0
ITX	25									
ITX	26	Environmental Remediation	PRODPLT		27	1	109	137	34	0
ITX	27									
ITX	28	Deferred Income and Deductions	DISTPLT		0	0	0	0	0	0
ITX	29	Net Operating Loss	DISTPLT		0	0	0	0	0	0
ITX	30	Plant Depreciation - Distribution	DISTPLT		0	0	0	0	0	0
ITX	31	Contribution in Aid of Construction	DISTPLT		0	0	0	0	0	0
ITX	32	Goodwill - Distribution Related	DISTPLT		0	0	0	0	0	0
ITX	33	Regulatory Liabilities	DISTPLT		0	0	0	0	0	0
ITX	34	Regulatory Asset - Non-Current	DISTPLT		0	0	0	0	0	0
ITX	35									
ITX	36	Goodwill - General Plant Related	SALWAGES		(285)	(15)	(1,159)	(1,459)	(363)	(0)
ITX	37	Plant Depreciation - General & Common	SALWAGES		0	0	0	0	0	0
ITX	38	Retirement - Medical	SALWAGES		0	0	1	1	0	0
ITX	39	Pension	SALWAGES		126	7	514	647	161	0
ITX	40	Post Retirement - Life Insurance	SALWAGES		(29)	(2)	(117)	(147)	(37)	(0)
ITX	41	SERP	SALWAGES		1	0	3	3	1	0
ITX	42	Pension Restoration	SALWAGES		1	0	4	5	1	0
ITX	43	SUBTOTAL NET INCOME ADDITIONS/DEDUCTIONS			(107)	(6)	(435)	(547)	(136)	(0)
ITX	44									
ITX	45	STATE TAXABLE INCOME			(2,510)	205	5,906	3,601	442	0
ITX	46									
ITX	47	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED								
ITX	48									
ITX	49	STATE TAXABLE INCOME			(2,510)	205	5,906	3,601	442	0
ITX	50									
ITX	51	STATE INCOME TAX @ 6.00%			(151)	12	354	216	27	0
ITX	52									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System			ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	
SCH	LINE	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TOTAL
ID	NO.			SYSTEM			SECONDARY	PRIMARY	TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
ITX	53	LESS: DEFERRED TAX EXPENSE ADJUSTMENT							
ITX	54	Plant Depreciation - NERCO/Soo Energy	PRODPLT	0	0	0	0	0	0
ITX	55								
ITX	56	Customer Advances for Construction	DISTPLT	0	0	0	0	0	0
ITX	57	Goodwill	RATEBASE	(627)	(340)	(2)	(196)	(13)	(76)
ITX	58	Interest	RATEBASE	5,274	2,857	18	1,645	112	641
ITX	59								
ITX	60	Environmental Remediation	PRODPLT	2,398	1,303	8	747	50	289
ITX	61								
ITX	62	Deferred Income and Deductions	DISTPLT	0	0	0	0	0	0
ITX	63	Net Operating Loss	DISTPLT	0	0	0	0	0	0
ITX	64	Plant Depreciation - Distribution	DISTPLT	0	0	0	0	0	0
ITX	65	Contribution in Aid of Construction	DISTPLT	0	0	0	0	0	0
ITX	66	Goodwill - Distribution Related	DISTPLT	0	0	0	0	0	0
ITX	67	Regulatory Asset - Current	DISTPLT	0	0	0	0	0	0
ITX	68	Regulatory Asset - Non-Current	DISTPLT	0	0	0	0	0	0
ITX	69								
ITX	70	Goodwill - General Plant Related	SALWAGES	(25,461)	(13,839)	(86)	(7,935)	(534)	(3,066)
ITX	71	Plant Depreciation - General & Common	SALWAGES	0	0	0	0	0	0
ITX	72	Retirement - Medical	SALWAGES	23	13	0	7	0	3
ITX	73	Pension	SALWAGES	11,282	6,132	38	3,516	237	1,359
ITX	74	Post Retirement - Life Insurance	SALWAGES	(2,570)	(1,397)	(9)	(801)	(54)	(309)
ITX	75	SERP	SALWAGES	59	32	0	18	1	7
ITX	76	Pension Restoration	SALWAGES	79	43	0	25	2	9
ITX	77	SUBTOTAL DEFERRED EXPENSE ADJUSTMENT		(9,543)	(5,195)	(32)	(2,973)	(199)	(1,144)
ITX	78								
ITX	169	STATE INCOME TAX ADJUSTMENTS							
ITX	21	TCJA Calculation C	RATEBASE	0	0	0	0	0	0
ITX	79	STATE INCOME TAX EXPENSE		55,762	18,111	275	56,503	(28,448)	9,321
ITX	80								
ITX	81								
ITX	82								
ITX	83								
ITX	84								
ITX	85								
ITX	86								
ITX	87								
ITX	88								
ITX	89								
ITX	90								
ITX	91								
ITX	92								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200KW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
ITX	53	LESS: DEFERRED TAX EXPENSE ADJUSTMENT										
ITX	54	Plant Depreciation - NERCO/Soo Energy	PRODPLT		0	0	0		0	0	0	0
ITX	55											
ITX	56	Customer Advances for Construction	DISTPLT		0	0	0		0	0	0	0
ITX	57	Goodwill	RATEBASE		(309)	0	(30)		(86)	0	(8)	(79)
ITX	58	Interest	RATEBASE		2,602	0	255		725	0	66	667
ITX	59											
ITX	60	Environmental Remediation	PRODPLT		1,187	0	117		331	0	30	304
ITX	61											
ITX	62	Deferred Income and Deductions	DISTPLT		0	0	0		0	0	0	0
ITX	63	Net Operating Loss	DISTPLT		0	0	0		0	0	0	0
ITX	64	Plant Depreciation - Distribution	DISTPLT		0	0	0		0	0	0	0
ITX	65	Contribution in Aid of Construction	DISTPLT		0	0	0		0	0	0	0
ITX	66	Goodwill - Distribution Related	DISTPLT		0	0	0		0	0	0	0
ITX	67	Regulatory Asset - Current	DISTPLT		0	0	0		0	0	0	0
ITX	68	Regulatory Asset - Non-Current	DISTPLT		0	0	0		0	0	0	0
ITX	69											
ITX	70	Goodwill - General Plant Related	SALWAGES		(12,601)	0	(1,238)		(3,514)	0	(322)	(3,223)
ITX	71	Plant Depreciation - General & Common	SALWAGES		0	0	0		0	0	0	0
ITX	72	Retirement - Medical	SALWAGES		12	0	1		3	0	0	3
ITX	73	Pension	SALWAGES		5,584	0	548		1,557	0	143	1,428
ITX	74	Post Retirement - Life Insurance	SALWAGES		(1,272)	0	(125)		(355)	0	(32)	(325)
ITX	75	SERP	SALWAGES		29	0	3		8	0	1	8
ITX	76	Pension Restoration	SALWAGES		39	0	4		11	0	1	10
ITX	77	SUBTOTAL DEFERRED EXPENSE ADJUSTMENT			(4,730)	0	(465)		(1,319)	0	(121)	(1,208)
ITX	78											
ITX	169	STATE INCOME TAX ADJUSTMENTS										
ITX	21	TCJA Calculation C	RATEBASE		0	0	0		0	0	0	0
ITX												
ITX	79	STATE INCOME TAX EXPENSE			27,684	0	(9,573)		8,302	0	(2,007)	63,476
ITX	80											
ITX	81											
ITX	82											
ITX	83											
ITX	84											
ITX	85											
ITX	86											
ITX	87											
ITX	88											
ITX	89											
ITX	90											
ITX	91											
ITX	92											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT			RETAIL SYSTEM							
COS Without Minimum System			S		P		Q	T	Q	
SCH	LINE	DESCRIPTION	ALLOCATION	Large Comm & Ind	Large Commerical & Industrial	Primary	Transmission	Real-Time	Light & Power	
ID	NO.		BASIS	CP-U	Secondary	CP-U Prim	CP-U Trans	Market Pricing	WP-3	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
				(z)						
ITX	53	LESS: DEFERRED TAX EXPENSE ADJUSTMENT								
ITX	54	Plant Depreciation - NERCO/Soo Energy	PRODPLT		0	0	0	0	0	0
ITX	55									
ITX	56	Customer Advances for Construction	DISTPLT		0	0	0	0	0	0
ITX	57	Goodwill	RATEBASE		(90)	(22)	(13)	(54)	(0)	(22)
ITX	58	Interest	RATEBASE		753	187	112	454	0	187
ITX	59									
ITX	60	Environmental Remediation	PRODPLT		339	83	50	206	0	83
ITX	61									
ITX	62	Deferred Income and Deductions	DISTPLT		0	0	0	0	0	0
ITX	63	Net Operating Loss	DISTPLT		0	0	0	0	0	0
ITX	64	Plant Depreciation - Distribution	DISTPLT		0	0	0	0	0	0
ITX	65	Contribution in Aid of Construction	DISTPLT		0	0	0	0	0	0
ITX	66	Goodwill - Distribution Related	DISTPLT		0	0	0	0	0	0
ITX	67	Regulatory Asset - Current	DISTPLT		0	0	0	0	0	0
ITX	68	Regulatory Asset - Non-Current	DISTPLT		0	0	0	0	0	0
ITX	69									
ITX	70	Goodwill - General Plant Related	SALWAGES		(3,602)	(877)	(534)	(2,190)	(0)	(876)
ITX	71	Plant Depreciation - General & Common	SALWAGES		0	0	0	0	0	0
ITX	72	Retirement - Medical	SALWAGES		3	1	0	2	0	1
ITX	73	Pension	SALWAGES		1,596	389	237	970	0	388
ITX	74	Post Retirement - Life Insurance	SALWAGES		(363)	(89)	(54)	(221)	(0)	(88)
ITX	75	SERP	SALWAGES		8	2	1	5	0	2
ITX	76	Pension Restoration	SALWAGES		11	3	2	7	0	3
ITX	77	SUBTOTAL DEFERRED EXPENSE ADJUSTMENT			(1,344)	(324)	(199)	(820)	(0)	(324)
ITX	78									
ITX	169	STATE INCOME TAX ADJUSTMENTS								
ITX	21	TCJA Calculation C	RATEBASE		0	0	0	0	0	0
ITX										
ITX	79	STATE INCOME TAX EXPENSE			(39,981)	(13,268)	(28,448)	1,735	0	7,586
ITX	80									
ITX	81									
ITX	82									
ITX	83									
ITX	84									
ITX	85									
ITX	86									
ITX	87									
ITX	88									
ITX	89									
ITX	90									
ITX	91									
ITX	92									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
RETAIL SYSTEM										
PRODUCTION DEMAND COMPONENT										
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	S Street Lighting SL-3	S Street Light (Closed) SL-5	S Street Lighting SL-6	Street Lighting Total	S Integrated OSL Z-3	S Iron River OSL Z-4	
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag) (ah)
ITX	53	LESS: DEFERRED TAX EXPENSE ADJUSTMENT								
ITX	54	Plant Depreciation - NERCO/Soo Energy	PRODPLT	0	0	0	0	0	0	
ITX	55									
ITX	56	Customer Advances for Construction	DISTPLT	0	0	0	0	0	0	
ITX	57	Goodwill	RATEBASE	(0)	(0)	(1)	(2)	(0)	(0)	
ITX	58	Interest	RATEBASE	3	0	11	14	4	0	
ITX	59									
ITX	60	Environmental Remediation	PRODPLT	1	0	5	7	2	0	
ITX	61									
ITX	62	Deferred Income and Deductions	DISTPLT	0	0	0	0	0	0	
ITX	63	Net Operating Loss	DISTPLT	0	0	0	0	0	0	
ITX	64	Plant Depreciation - Distribution	DISTPLT	0	0	0	0	0	0	
ITX	65	Contribution in Aid of Construction	DISTPLT	0	0	0	0	0	0	
ITX	66	Goodwill - Distribution Related	DISTPLT	0	0	0	0	0	0	
ITX	67	Regulatory Asset - Current	DISTPLT	0	0	0	0	0	0	
ITX	68	Regulatory Asset - Non-Current	DISTPLT	0	0	0	0	0	0	
ITX	69									
ITX	70	Goodwill - General Plant Related	SALWAGES	(13)	(1)	(55)	(69)	(17)	(0)	
ITX	71	Plant Depreciation - General & Common	SALWAGES	0	0	0	0	0	0	
ITX	72	Retirement - Medical	SALWAGES	0	0	0	0	0	0	
ITX	73	Pension	SALWAGES	6	0	24	31	8	0	
ITX	74	Post Retirement - Life Insurance	SALWAGES	(1)	(0)	(6)	(7)	(2)	(0)	
ITX	75	SERP	SALWAGES	0	0	0	0	0	0	
ITX	76	Pension Restoration	SALWAGES	0	0	0	0	0	0	
ITX	77	SUBTOTAL DEFERRED EXPENSE ADJUSTMENT		(5)	(0)	(21)	(26)	(6)	(0)	
ITX	78									
ITX	169	STATE INCOME TAX ADJUSTMENTS								
ITX	21	TCJA Calculation C	RATEBASE	0	0	0	0	0	0	
ITX										
ITX	79	STATE INCOME TAX EXPENSE		(146)	13	375	242	33	0	
ITX	80									
ITX	81									
ITX	82									
ITX	83									
ITX	84									
ITX	85									
ITX	86									
ITX	87									
ITX	88									
ITX	89									
ITX	90									
ITX	91									
ITX	92									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027									
PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
ITX	93	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED							
ITX	94								
ITX	95	FEDERAL INCOME TAXES							
ITX	96								
ITX	97	SUBTOTAL BOOK INCOME BEFORE TAXES	SCH , LN	971,642	324,857	4,726	954,893	(473,257)	160,423
ITX	98								
ITX	99	NET INCOME ADDITIONS/DEDUCTIONS							
ITX	100	State Income Taxes	#VALUE!	(46,219)	(12,916)	(243)	(53,531)	28,647	(8,177)
ITX	101								
ITX	102	Plant Depreciation - NERCO/Soo Energy	PRODPLT	0	0	0	0	0	0
ITX	103								
ITX	104	Customer Advances for Construction	DISTPLT	0	0	0	0	0	0
ITX	105	Goodwill	RATEBASE	(13,235)	(7,170)	(45)	(4,129)	(282)	(1,609)
ITX	106	Interest	RATEBASE	111,260	60,274	377	34,712	2,370	13,526
ITX	107								
ITX	108	Environmental Remediation	PRODPLT	50,595	27,499	172	15,769	1,062	6,093
ITX	109								
ITX	110	Deferred Income and Deductions	DISTPLT	0	0	0	0	0	0
ITX	111	Net Operating Loss	DISTPLT	0	0	0	0	0	0
ITX	112	Plant Depreciation - Distribution	DISTPLT	0	0	0	0	0	0
ITX	113	Contribution in Aid of Construction	DISTPLT	0	0	0	0	0	0
ITX	114	Goodwill - Distribution Related	DISTPLT	0	0	0	0	0	0
ITX	115	Regulatory Liabilities	DISTPLT	0	0	0	0	0	0
ITX	116	Regulatory Asset - Non-Current	DISTPLT	0	0	0	0	0	0
ITX	117								
ITX	118	Goodwill - General Plant Related	SALWAGES	(537,152)	(291,953)	(1,822)	(167,414)	(11,273)	(64,689)
ITX	119	Plant Depre - General & Common (Adj-Tax Sys)	SALWAGES	0	0	0	0	0	0
ITX	120	Plant Depreciation - General & Common	SALWAGES	0	0	0	0	0	0
ITX	121	Retirement - Medical	SALWAGES	(54,210)	(29,464)	(184)	(16,896)	(1,138)	(6,529)
ITX	122	Pension	SALWAGES	239,675	130,268	813	74,700	5,030	28,864
ITX	123	Post Retirement - Life Insurance	SALWAGES	0	0	0	0	0	0
ITX	124	SERP	SALWAGES	1,460	794	5	455	31	176
ITX	125	Pension Restoration	SALWAGES	284	154	1	88	6	34
ITX	126	SUBTOTAL NET INCOME ADDITIONS/DEDUCTIONS		(247,542)	(122,513)	(926)	(116,245)	24,453	(32,311)
ITX	127								
ITX	128	FEDERAL TAXABLE INCOME							
ITX	129	Federal Income Tax @ 21%		724,100	202,345	3,800	838,647	(448,805)	128,112
ITX	130								
ITX	131								
ITX	132								
ITX	133								
ITX	134								
ITX	135								
ITX	136								
ITX	137								
ITX	138								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
ITX	93	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED										
ITX	94											
ITX	95	FEDERAL INCOME TAXES										
ITX	96											
ITX	97	SUBTOTAL BOOK INCOME BEFORE TAXES	SCH , LN		482,355	0	(157,498)		144,218	0	(32,915)	1,063,287
ITX	98											
ITX	99	NET INCOME ADDITIONS/DEDUCTIONS										
ITX	100	State Income Taxes		#VALUE!	(22,954)	0	10,038		(6,983)	0	2,128	(62,268)
ITX	101											
ITX	102	Plant Depreciation - NERCO/Soo Energy	PRODPLT		0	0	0		0	0	0	0
ITX	103											
ITX	104	Customer Advances for Construction	DISTPLT		0	0	0		0	0	0	0
ITX	105	Goodwill	RATEBASE		(6,529)	0	(641)		(1,820)	0	(167)	(1,674)
ITX	106	Interest	RATEBASE		54,884	0	5,390		15,301	0	1,403	14,071
ITX	107											
ITX	108	Environmental Remediation	PRODPLT		25,040	0	2,459		6,982	0	640	6,404
ITX	109											
ITX	110	Deferred Income and Deductions	DISTPLT		0	0	0		0	0	0	0
ITX	111	Net Operating Loss	DISTPLT		0	0	0		0	0	0	0
ITX	112	Plant Depreciation - Distribution	DISTPLT		0	0	0		0	0	0	0
ITX	113	Contribution in Aid of Construction	DISTPLT		0	0	0		0	0	0	0
ITX	114	Goodwill - Distribution Related	DISTPLT		0	0	0		0	0	0	0
ITX	115	Regulatory Liabilities	DISTPLT		0	0	0		0	0	0	0
ITX	116	Regulatory Asset - Non-Current	DISTPLT		0	0	0		0	0	0	0
ITX	117											
ITX	118	Goodwill - General Plant Related	SALWAGES		(265,844)	0	(26,109)		(74,127)	0	(6,790)	(67,989)
ITX	119	Plant Depre - General & Common (Adj-Tax Sys)	SALWAGES		0	0	0		0	0	0	0
ITX	120	Plant Depreciation - General & Common	SALWAGES		0	0	0		0	0	0	0
ITX	121	Retirement - Medical	SALWAGES		(26,829)	0	(2,635)		(7,481)	0	(685)	(6,862)
ITX	122	Pension	SALWAGES		118,619	0	11,650		33,075	0	3,030	30,337
ITX	123	Post Retirement - Life Insurance	SALWAGES		0	0	0		0	0	0	0
ITX	124	SERP	SALWAGES		723	0	71		202	0	18	185
ITX	125	Pension Restoration	SALWAGES		140	0	14		39	0	4	36
ITX	126	SUBTOTAL NET INCOME ADDITIONS/DEDUCTIONS			(122,750)	0	237		(34,812)	0	(421)	(87,760)
ITX	127											
ITX	128	FEDERAL TAXABLE INCOME			359,605	0	(157,261)		109,405	0	(33,336)	975,527
ITX	129	Federal Income Tax @ 21%			75,517	0	(33,025)		22,975	0	(7,001)	204,861
ITX	130											
ITX	131											
ITX	132											
ITX	133											
ITX	134											
ITX	135											
ITX	136											
ITX	137											
ITX	138											

Upper Peninsula Power Company											
Forecasted Cost of Service Allocation Study											
Forecast 12 Month Period ending December 31, 2027											
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM							
COS Without Minimum System				Large Comm & Ind	Large Commerical & Industrial		Q	T	Q		
SCH	LINE		ALLOCATION	CP-U	Secondary	Primary	Transmission	Real-Time	> 5,000kW		
ID	NO.	DESCRIPTION	BASIS	Total	CP-U Sec	CP-U Prim	CP-U Trans	Market Pricing	Light & Power		
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
ITX	93	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED									
ITX	94										
ITX	95	FEDERAL INCOME TAXES									
ITX	96										
ITX	97	SUBTOTAL BOOK INCOME BEFORE TAXES	SCH , LN		(660,401)	(219,697)	(473,257)	32,553	0	127,870	
ITX	98										
ITX	99	NET INCOME ADDITIONS/DEDUCTIONS									
ITX	100	State Income Taxes	#VALUE!		41,325	13,592	28,647	(915)	(0)	(7,263)	
ITX	101										
ITX	102	Plant Depreciation - NERCO/Soo Energy	PRODPLT		0	0	0	0	0	0	
ITX	103										
ITX	104	Customer Advances for Construction	DISTPLT		0	0	0	0	0	0	
ITX	105	Goodwill	RATEBASE		(1,890)	(468)	(282)	(1,140)	(0)	(469)	
ITX	106	Interest	RATEBASE		15,889	3,938	2,370	9,582	0	3,944	
ITX	107										
ITX	108	Environmental Remediation	PRODPLT		7,157	1,743	1,062	4,352	0	1,741	
ITX	109										
ITX	110	Deferred Income and Deductions	DISTPLT		0	0	0	0	0	0	
ITX	111	Net Operating Loss	DISTPLT		0	0	0	0	0	0	
ITX	112	Plant Depreciation - Distribution	DISTPLT		0	0	0	0	0	0	
ITX	113	Contribution in Aid of Construction	DISTPLT		0	0	0	0	0	0	
ITX	114	Goodwill - Distribution Related	DISTPLT		0	0	0	0	0	0	
ITX	115	Regulatory Liabilities	DISTPLT		0	0	0	0	0	0	
ITX	116	Regulatory Asset - Non-Current	DISTPLT		0	0	0	0	0	0	
ITX	117										
ITX	118	Goodwill - General Plant Related	SALWAGES		(75,988)	(18,508)	(11,273)	(46,207)	(0)	(18,483)	
ITX	119	Plant Depre - General & Common (Adj-Tax Sys)	SALWAGES		0	0	0	0	0	0	
ITX	120	Plant Depreciation - General & Common	SALWAGES		0	0	0	0	0	0	
ITX	121	Retirement - Medical	SALWAGES		(7,669)	(1,868)	(1,138)	(4,663)	(0)	(1,865)	
ITX	122	Pension	SALWAGES		33,905	8,258	5,030	20,617	0	8,247	
ITX	123	Post Retirement - Life Insurance	SALWAGES		0	0	0	0	0	0	
ITX	124	SERP	SALWAGES		207	50	31	126	0	50	
ITX	125	Pension Restoration	SALWAGES		40	10	6	24	0	10	
ITX	126	SUBTOTAL NET INCOME ADDITIONS/DEDUCTIONS			12,977	6,748	24,453	(18,223)	(0)	(14,088)	
ITX	127										
ITX	128	FEDERAL TAXABLE INCOME									
ITX	129	Federal Income Tax @ 21%			(647,424)	(212,949)	(448,805)	14,330	0	113,782	
ITX	130				(135,959)	(44,719)	(94,249)	3,009	0	23,894	
ITX	131										
ITX	132										
ITX	133										
ITX	134										
ITX	135										
ITX	136										
ITX	137										
ITX	138										

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH	LINE	COS Without Minimum System		ALLOCATION	S	S	S	S	S	
ID	NO.	DESCRIPTION		BASIS	Street	Street Light	Street	Street	Integrated	Iron River
		(a)		(b)	Lighting	(Closed)	Lighting	Lighting	OSL	OSL
					SL-3	SL-5	SL-6	Total	Z-3	Z-4
					(aa)	(ab)	(ac)	(ad)	(ae)	(af)
										(ag)
										(ah)
ITX	93	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED								
ITX	94									
ITX	95	FEDERAL INCOME TAXES								
ITX	96									
ITX	97	SUBTOTAL BOOK INCOME BEFORE TAXES	SCH , LN		(2,403)	211	6,340	4,148	578	0
ITX	98									
ITX	99	NET INCOME ADDITIONS/DEDUCTIONS								
ITX	100	State Income Taxes		#VALUE!	151	(12)	(354)	(216)	(27)	(0)
ITX	101									
ITX	102	Plant Depreciation - NERCO/Soo Energy	PRODPLT		0	0	0	0	0	0
ITX	103									
ITX	104	Customer Advances for Construction	DISTPLT		0	0	0	0	0	0
ITX	105	Goodwill	RATEBASE		(7)	(0)	(29)	(36)	(9)	(0)
ITX	106	Interest	RATEBASE		59	3	240	302	75	0
ITX	107									
ITX	108	Environmental Remediation	PRODPLT		27	1	109	137	34	0
ITX	109									
ITX	110	Deferred Income and Deductions	DISTPLT		0	0	0	0	0	0
ITX	111	Net Operating Loss	DISTPLT		0	0	0	0	0	0
ITX	112	Plant Depreciation - Distribution	DISTPLT		0	0	0	0	0	0
ITX	113	Contribution in Aid of Construction	DISTPLT		0	0	0	0	0	0
ITX	114	Goodwill - Distribution Related	DISTPLT		0	0	0	0	0	0
ITX	115	Regulatory Liabilities	DISTPLT		0	0	0	0	0	0
ITX	116	Regulatory Asset - Non-Current	DISTPLT		0	0	0	0	0	0
ITX	117									
ITX	118	Goodwill - General Plant Related	SALWAGES		(285)	(15)	(1,159)	(1,459)	(363)	(0)
ITX	119	Plant Depre - General & Common (Adj-Tax Sys)	SALWAGES		0	0	0	0	0	0
ITX	120	Plant Depreciation - General & Common	SALWAGES		0	0	0	0	0	0
ITX	121	Retirement - Medical	SALWAGES		(29)	(2)	(117)	(147)	(37)	(0)
ITX	122	Pension	SALWAGES		127	7	517	651	162	0
ITX	123	Post Retirement - Life Insurance	SALWAGES		0	0	0	0	0	0
ITX	124	SERP	SALWAGES		1	0	3	4	1	0
ITX	125	Pension Restoration	SALWAGES		0	0	1	1	0	0
ITX	126	SUBTOTAL NET INCOME ADDITIONS/DEDUCTIONS			44	(18)	(789)	(763)	(163)	(0)
ITX	127									
ITX	128	FEDERAL TAXABLE INCOME			(2,359)	193	5,552	3,385	415	0
ITX	129	Federal Income Tax @ 21%			(495)	40	1,166	711	87	0
ITX	130									
ITX	131									
ITX	132									
ITX	133									
ITX	134									
ITX	135									
ITX	136									
ITX	137									
ITX	138									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System			ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	
SCH	LINE	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
ID	NO.			SYSTEM			SECONDARY	PRIMARY	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
ITX	139	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED							
ITX	140	FEDERAL INCOME TAXES CONTINUED							
ITX	141								
ITX	142	LESS: DEFERRED TAX EXPENSE ADJUSTMENT							
ITX	143	Plant Depreciation - NERCO/Soo Energy	PRODPLT	0	0	0	0	0	0
ITX	144								
ITX	145	Customer Advances for Construction	DISTPLT	0	0	0	0	0	0
ITX	146	Goodwill	RATEBASE	(2,779)	(1,506)	(9)	(867)	(59)	(338)
ITX	147	Interest	RATEBASE	23,365	12,658	79	7,290	498	2,840
ITX	148								
ITX	149	Environmental Remediation	PRODPLT	10,625	5,775	36	3,311	223	1,280
ITX	150								
ITX	151	Deferred Income and Deductions	DISTPLT	0	0	0	0	0	0
ITX	152	Net Operating Loss	DISTPLT	0	0	0	0	0	0
ITX	153	Plant Depreciation - Distribution	DISTPLT	0	0	0	0	0	0
ITX	154	Contribution in Aid of Construction	DISTPLT	0	0	0	0	0	0
ITX	155	Goodwill - Distribution Related	DISTPLT	0	0	0	0	0	0
ITX	156	Regulatory Asset - Current	DISTPLT	0	0	0	0	0	0
ITX	157	Regulatory Asset - Non-Current	DISTPLT	0	0	0	0	0	0
ITX	158								
ITX	159	Goodwill - General Plant Related	SALWAGES	(112,802)	(61,310)	(383)	(35,157)	(2,367)	(13,585)
ITX	160	Plant Depre - General & Common (Adj-Tax Sys)	SALWAGES	0	0	0	0	0	0
ITX	161	Plant Depreciation - General & Common	SALWAGES	0	0	0	0	0	0
ITX	162	Retirement - Medical	SALWAGES	(11,384)	(6,187)	(39)	(3,548)	(239)	(1,371)
ITX	163	Pension	SALWAGES	50,332	27,356	171	15,687	1,056	6,061
ITX	164	Post Retirement - Life Insurance	SALWAGES	0	0	0	0	0	0
ITX	165	SERP	SALWAGES	307	167	1	96	6	37
ITX	166	Pension Restoration	SALWAGES	60	32	0	19	1	7
ITX	167	TOTAL DEFERRED INCOME TAX EXPENSE		(42,278)	(23,015)	(143)	(13,170)	(881)	(5,068)
ITX	168								
ITX	169	FEDERAL INCOME TAX ADJUSTMENTS							
ITX	21	TCJA Calculation C	RATEBASE	0	0	0	0	0	0
ITX	171								
ITX	172	FEDERAL INCOME TAX EXPENSE		194,339	65,508	942	189,286	(93,368)	31,972
ITX	173								
ITX	174	TOTAL STATE & FEDERAL INCOME TAX EXPENSE		250,101	83,618	1,216	245,789	(121,816)	41,293
ITX	175								
ITX	176	TOTAL OPERATING DEDUCTIONS		14,819,960	7,951,928	50,720	4,788,678	195,071	1,833,562
ITX	177								
ITX	178								
ITX	179	TAX RATES							
ITX	180	STATE TAX RATE		6.00%					
ITX	181	FEDERAL TAX RATE - CURRENT		0.21					
ITX	182	INCREMENTAL TAX RATE		0.257400					
ITX	183	1-INCREMENTAL TAX RATE		0.742600					
ITX	184	TAX GROSS-UP FACTOR		1.32880000					
ITX	185	STATE TAX RATE		4.74%					
ITX	186	WEIGHTED COST OF DEBT		2.4421%					
ITX	187								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
ITX	139	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED										
ITX	140	FEDERAL INCOME TAXES CONTINUED										
ITX	141											
ITX	142	LESS: DEFERRED TAX EXPENSE ADJUSTMENT										
ITX	143	Plant Depreciation - NERCO/Soo Energy	PRODPLT		0	0	0		0	0	0	0
ITX	144											
ITX	145	Customer Advances for Construction	DISTPLT		0	0	0		0	0	0	0
ITX	146	Goodwill	RATEBASE		(1,371)	0	(135)		(382)	0	(35)	(352)
ITX	147	Interest	RATEBASE		11,526	0	1,132		3,213	0	295	2,955
ITX	148											
ITX	149	Environmental Remediation	PRODPLT		5,258	0	516		1,466	0	134	1,345
ITX	150											
ITX	151	Deferred Income and Deductions	DISTPLT		0	0	0		0	0	0	0
ITX	152	Net Operating Loss	DISTPLT		0	0	0		0	0	0	0
ITX	153	Plant Depreciation - Distribution	DISTPLT		0	0	0		0	0	0	0
ITX	154	Contribution in Aid of Construction	DISTPLT		0	0	0		0	0	0	0
ITX	155	Goodwill - Distribution Related	DISTPLT		0	0	0		0	0	0	0
ITX	156	Regulatory Asset - Current	DISTPLT		0	0	0		0	0	0	0
ITX	157	Regulatory Asset - Non-Current	DISTPLT		0	0	0		0	0	0	0
ITX	158											
ITX	159	Goodwill - General Plant Related	SALWAGES		(55,827)	0	(5,483)		(15,567)	0	(1,426)	(14,278)
ITX	160	Plant Depre - General & Common (Adj-Tax Sys)	SALWAGES		0	0	0		0	0	0	0
ITX	161	Plant Depreciation - General & Common	SALWAGES		0	0	0		0	0	0	0
ITX	162	Retirement - Medical	SALWAGES		(5,634)	0	(553)		(1,571)	0	(144)	(1,441)
ITX	163	Pension	SALWAGES		24,910	0	2,446		6,946	0	636	6,371
ITX	164	Post Retirement - Life Insurance	SALWAGES		0	0	0		0	0	0	0
ITX	165	SERP	SALWAGES		152	0	15		42	0	4	39
ITX	166	Pension Restoration	SALWAGES		29	0	3		8	0	1	8
ITX	167	TOTAL DEFERRED INCOME TAX EXPENSE			(20,957)	0	(2,058)		(5,844)	0	(535)	(5,353)
ITX	168											
ITX	169	FEDERAL INCOME TAX ADJUSTMENTS										
ITX	21	TCJA Calculation C	RATEBASE		0	0	0		0	0	0	0
ITX	171											
ITX	172	FEDERAL INCOME TAX EXPENSE			96,474	0	(30,967)		28,819	0	(6,465)	210,214
ITX	173											
ITX	174	TOTAL STATE & FEDERAL INCOME TAX EXPENSE			124,158	0	(40,540)		37,122	0	(8,472)	273,690
ITX	175											
ITX	176	TOTAL OPERATING DEDUCTIONS			7,288,974	0	662,954		2,026,921	0	173,983	2,108,916
ITX	177											
ITX	178											
ITX	179	TAX RATES										
ITX	180	STATE TAX RATE										
ITX	181	FEDERAL TAX RATE - CURRENT										
ITX	182	INCREMENTAL TAX RATE										
ITX	183	1-INCREMENTAL TAX RATE										
ITX	184	TAX GROSS-UP FACTOR										
ITX	185	STATE TAX RATE										
ITX	186	WEIGHTED COST OF DEBT										
ITX	187											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	Large Comm & Ind	Secondary	Primary	Transmission	Real-Time	Light & Power	
ID	NO.		BASIS	CP-U	CP-U Sec	CP-U Prim	CP-U Trans	Market Pricing	WP-3	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
										(z)
ITX	139	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED								
ITX	140	FEDERAL INCOME TAXES CONTINUED								
ITX	141									
ITX	142	LESS: DEFERRED TAX EXPENSE ADJUSTMENT								
ITX	143	Plant Depreciation - NERCO/Soo Energy	PRODPLT		0	0	0	0	0	0
ITX	144									
ITX	145	Customer Advances for Construction	DISTPLT		0	0	0	0	0	0
ITX	146	Goodwill	RATEBASE		(397)	(98)	(59)	(239)	(0)	(99)
ITX	147	Interest	RATEBASE		3,337	827	498	2,012	0	828
ITX	148									
ITX	149	Environmental Remediation	PRODPLT		1,503	366	223	914	0	366
ITX	150									
ITX	151	Deferred Income and Deductions	DISTPLT		0	0	0	0	0	0
ITX	152	Net Operating Loss	DISTPLT		0	0	0	0	0	0
ITX	153	Plant Depreciation - Distribution	DISTPLT		0	0	0	0	0	0
ITX	154	Contribution in Aid of Construction	DISTPLT		0	0	0	0	0	0
ITX	155	Goodwill - Distribution Related	DISTPLT		0	0	0	0	0	0
ITX	156	Regulatory Asset - Current	DISTPLT		0	0	0	0	0	0
ITX	157	Regulatory Asset - Non-Current	DISTPLT		0	0	0	0	0	0
ITX	158									
ITX	159	Goodwill - General Plant Related	SALWAGES		(15,957)	(3,887)	(2,367)	(9,703)	(0)	(3,881)
ITX	160	Plant Depre - General & Common (Adj-Tax Sys)	SALWAGES		0	0	0	0	0	0
ITX	161	Plant Depreciation - General & Common	SALWAGES		0	0	0	0	0	0
ITX	162	Retirement - Medical	SALWAGES		(1,610)	(392)	(239)	(979)	(0)	(392)
ITX	163	Pension	SALWAGES		7,120	1,734	1,056	4,330	0	1,732
ITX	164	Post Retirement - Life Insurance	SALWAGES		0	0	0	0	0	0
ITX	165	SERP	SALWAGES		43	11	6	26	0	11
ITX	166	Pension Restoration	SALWAGES		8	2	1	5	0	2
ITX	167	TOTAL DEFERRED INCOME TAX EXPENSE			(5,953)	(1,437)	(881)	(3,635)	(0)	(1,433)
ITX	168									
ITX	169	FEDERAL INCOME TAX ADJUSTMENTS								
ITX	21	TCJA Calculation C	RATEBASE		0	0	0	0	0	0
ITX	171									
ITX	172	FEDERAL INCOME TAX EXPENSE			(130,006)	(43,282)	(93,368)	6,644	0	25,328
ITX	173									
ITX	174	TOTAL STATE & FEDERAL INCOME TAX EXPENSE			(169,987)	(56,550)	(121,816)	8,379	0	32,914
ITX	175									
ITX	176	TOTAL OPERATING DEDUCTIONS			1,936,225	478,859	195,071	1,262,296	0	571,266
ITX	177									
ITX	178									
ITX	179	TAX RATES								
ITX	180	STATE TAX RATE								
ITX	181	FEDERAL TAX RATE - CURRENT								
ITX	182	INCREMENTAL TAX RATE								
ITX	183	1-INCREMENTAL TAX RATE								
ITX	184	TAX GROSS-UP FACTOR								
ITX	185	STATE TAX RATE								
ITX	186	WEIGHTED COST OF DEBT								
ITX	187									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH	LINE	COS Without Minimum System		ALLOCATION	S	S	S	S	S	
ID	NO.	DESCRIPTION		BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
		(a)	(b)		(aa)	(ab)	(ac)	(ad)	(ae)	(af)
										(ag)
										(ah)
ITX	139	DEVELOPMENT OF INCOME TAX EXPENSE CONTINUED								
ITX	140	FEDERAL INCOME TAXES CONTINUED								
ITX	141									
ITX	142	LESS: DEFERRED TAX EXPENSE ADJUSTMENT								
ITX	143	Plant Depreciation - NERCO/Soo Energy	PRODPLT		0	0	0	0	0	0
ITX	144									
ITX	145	Customer Advances for Construction	DISTPLT		0	0	0	0	0	0
ITX	146	Goodwill	RATEBASE		(1)	(0)	(6)	(8)	(2)	(0)
ITX	147	Interest	RATEBASE		12	1	50	63	16	0
ITX	148									
ITX	149	Environmental Remediation	PRODPLT		6	0	23	29	7	0
ITX	150									
ITX	151	Deferred Income and Deductions	DISTPLT		0	0	0	0	0	0
ITX	152	Net Operating Loss	DISTPLT		0	0	0	0	0	0
ITX	153	Plant Depreciation - Distribution	DISTPLT		0	0	0	0	0	0
ITX	154	Contribution in Aid of Construction	DISTPLT		0	0	0	0	0	0
ITX	155	Goodwill - Distribution Related	DISTPLT		0	0	0	0	0	0
ITX	156	Regulatory Asset - Current	DISTPLT		0	0	0	0	0	0
ITX	157	Regulatory Asset - Non-Current	DISTPLT		0	0	0	0	0	0
ITX	158									
ITX	159	Goodwill - General Plant Related	SALWAGES		(60)	(3)	(243)	(306)	(76)	(0)
ITX	160	Plant Depre - General & Common (Adj-Tax Sys)	SALWAGES		0	0	0	0	0	0
ITX	161	Plant Depreciation - General & Common	SALWAGES		0	0	0	0	0	0
ITX	162	Retirement - Medical	SALWAGES		(6)	(0)	(25)	(31)	(8)	(0)
ITX	163	Pension	SALWAGES		27	1	109	137	34	0
ITX	164	Post Retirement - Life Insurance	SALWAGES		0	0	0	0	0	0
ITX	165	SERP	SALWAGES		0	0	1	1	0	0
ITX	166	Pension Restoration	SALWAGES		0	0	0	0	0	0
ITX	167	TOTAL DEFERRED INCOME TAX EXPENSE			(22)	(1)	(91)	(115)	(29)	(0)
ITX	168									
ITX	169	FEDERAL INCOME TAX ADJUSTMENTS								
ITX	21	TCJA Calculation C	RATEBASE		0	0	0	0	0	0
ITX	171									
ITX	172	FEDERAL INCOME TAX EXPENSE			(473)	42	1,257	826	116	0
ITX	173									
ITX	174	TOTAL STATE & FEDERAL INCOME TAX EXPENSE			(619)	54	1,632	1,068	149	0
ITX	175									
ITX	176	TOTAL OPERATING DEDUCTIONS			7,049	467	32,965	40,481	10,239	0
ITX	177									
ITX	178									
ITX	179	TAX RATES								
ITX	180	STATE TAX RATE								
ITX	181	FEDERAL TAX RATE - CURRENT								
ITX	182	INCREMENTAL TAX RATE								
ITX	183	1-INCREMENTAL TAX RATE								
ITX	184	TAX GROSS-UP FACTOR								
ITX	185	STATE TAX RATE								
ITX	186	WEIGHTED COST OF DEBT								
ITX	187									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
S&W	1	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR							
S&W	2								
S&W	3	PRODUCTION SALARIES & WAGES EXPENSE							
S&W	4	Operation	OX_PROD	1,584,516	861,216	5,375	493,846	33,255	190,823
S&W	5	Maintenance	MX_PROD	1,626,625	884,103	5,518	506,971	34,139	195,895
S&W	6	TOTAL PRODUCTION S&W EXPENSE		3,211,141	1,745,319	10,894	1,000,817	67,393	386,718
S&W	7								
S&W	8	SYSTEM CONTROL AND DISPATCH S&W EXPENSE							
S&W	9	556-Supervision & Engineering	OX_PROD	372,898	202,678	1,265	116,221	7,826	44,908
S&W	10	557-Other Expenditures	MX_PROD	0	0	0	0	0	0
S&W	11	TOTAL SYSTEM CONTROL AND DISPATCH		372,898	202,678	1,265	116,221	7,826	44,908
S&W	12								
S&W	13	TRANSMISSION SALARIES & WAGES EXPENSE							
S&W	14	Operation	OX_TRAN	0	0	0	0	0	0
S&W	15	Maintenance	MX_TRAN	0	0	0	0	0	0
S&W	16	TOTAL TRANSMISSION EXPENSE		0	0	0	0	0	0
S&W	17								
S&W	18	REGIONAL MARKET EXPENSE							
S&W	19	575.70-Market Facil, Monitoring, & Compliance	OX_RM	0	0	0	0	0	0
S&W	20	575.71-Market Fac, Monit, Compl-Transm	OX_RM	0	0	0	0	0	0
S&W	21	TOTAL REGIONAL MARKET EXPENSE		0	0	0	0	0	0
S&W	22								
S&W	23								
S&W	24								
S&W	25								
S&W	26								
S&W	27								
S&W	28								
S&W	29								
S&W	30								
S&W	31								
S&W	32								
S&W	33								
S&W	34								
S&W	35								
S&W	36								
S&W	37								
S&W	38								
S&W	39								
S&W	40								
S&W	41								
S&W	42								
S&W	43								
S&W	44								
S&W	45								
S&W	46								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
S&W	1	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR										
S&W	2											
S&W	3	PRODUCTION SALARIES & WAGES EXPENSE										
S&W	4	Operation	OX_PROD		784,199	0	77,017		218,664	0	20,030	200,558
S&W	5	Maintenance	MX_PROD		805,040	0	79,063		224,475	0	20,563	205,887
S&W	6	TOTAL PRODUCTION S&W EXPENSE			1,589,239	0	156,080		443,139	0	40,593	406,445
S&W	7											
S&W	8	SYSTEM CONTROL AND DISPATCH S&W EXPENSE										
S&W	9	556-Supervision & Engineering	OX_PROD		184,553	0	18,125		51,460	0	4,714	47,199
S&W	10	557-Other Expenditures	MX_PROD		0	0	0		0	0	0	0
S&W	11	TOTAL SYSTEM CONTROL AND DISPATCH			184,553	0	18,125		51,460	0	4,714	47,199
S&W	12											
S&W	13	TRANSMISSION SALARIES & WAGES EXPENSE										
S&W	14	Operation	OX_TRAN		0	0	0		0	0	0	0
S&W	15	Maintenance	MX_TRAN		0	0	0		0	0	0	0
S&W	16	TOTAL TRANSMISSION EXPENSE			0	0	0		0	0	0	0
S&W	17											
S&W	18	REGIONAL MARKET EXPENSE										
S&W	19	575.70-Market Facil, Monitoring, & Compliance	OX_RM		0	0	0		0	0	0	0
S&W	20	575.71-Market Fac, Monit, Compl-Transm	OX_RM		0	0	0		0	0	0	0
S&W	21	TOTAL REGIONAL MARKET EXPENSE			0	0	0		0	0	0	0
S&W	22											
S&W	23											
S&W	24											
S&W	25											
S&W	26											
S&W	27											
S&W	28											
S&W	29											
S&W	30											
S&W	31											
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S&W	36											
S&W	37											
S&W	38											
S&W	39											
S&W	40											
S&W	41											
S&W	42											
S&W	43											
S&W	44											
S&W	45											
S&W	46											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
COS Without Minimum System				Large Comm & Ind	Large Commerical & Industrial		Transmission	Real-Time	> 5,000kW	
SCH	LINE	DESCRIPTION	ALLOCATION BASIS	CP-U Total	Secondary CP-U Sec	Primary CP-U Prim	CP-U Trans	Market Pricing RTMP	Light & Power WP-3	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
		(z)								
S&W	1	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR								
S&W	2									
S&W	3	PRODUCTION SALARIES & WAGES EXPENSE								
S&W	4	Operation OX_PROD		224,152	54,595	33,255	136,302	0	54,521	
S&W	5	Maintenance MX_PROD		230,109	56,045	34,139	139,925	0	55,970	
S&W	6	TOTAL PRODUCTION S&W EXPENSE		454,261	110,640	67,393	276,227	0	110,491	
S&W	7									
S&W	8	SYSTEM CONTROL AND DISPATCH S&W EXPENSE								
S&W	9	556-Supervision & Engineering OX_PROD		52,752	12,848	7,826	32,077	0	12,831	
S&W	10	557-Other Expenditures MX_PROD		0	0	0	0	0	0	
S&W	11	TOTAL SYSTEM CONTROL AND DISPATCH		52,752	12,848	7,826	32,077	0	12,831	
S&W	12									
S&W	13	TRANSMISSION SALARIES & WAGES EXPENSE								
S&W	14	Operation OX_TRAN		0	0	0	0	0	0	
S&W	15	Maintenance MX_TRAN		0	0	0	0	0	0	
S&W	16	TOTAL TRANSMISSION EXPENSE		0	0	0	0	0	0	
S&W	17									
S&W	18	REGIONAL MARKET EXPENSE								
S&W	19	575.70-Market Facil, Monitoring, & Compliance OX_RM		0	0	0	0	0	0	
S&W	20	575.71-Market Fac, Monit, Compl-Transm OX_RM		0	0	0	0	0	0	
S&W	21	TOTAL REGIONAL MARKET EXPENSE		0	0	0	0	0	0	
S&W	22									
S&W	23									
S&W	24									
S&W	25									
S&W	26									
S&W	27									
S&W	28									
S&W	29									
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S&W	37									
S&W	38									
S&W	39									
S&W	40									
S&W	41									
S&W	42									
S&W	43									
S&W	44									
S&W	45									
S&W	46									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH	LINE	COS Without Minimum System		ALLOCATION	S	S	S	S	S	
ID	NO.	DESCRIPTION		BASIS	Street	Street Light	Street	Street	Integrated	Iron River
		(a)		(b)	Lighting	(Closed)	Lighting	Lighting	OSL	OSL
					SL-3	SL-5	SL-6	Total	Z-3	Z-4
					(aa)	(ab)	(ac)	(ad)	(ae)	(af)
										(ag)
										(ah)
S&W	1	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR								
S&W	2									
S&W	3	PRODUCTION SALARIES & WAGES EXPENSE								
S&W	4	Operation	OX_PROD		840	45	3,420	4,305	1,070	0
S&W	5	Maintenance	MX_PROD		862	46	3,511	4,419	1,099	0
S&W	6	TOTAL PRODUCTION S&W EXPENSE			1,702	92	6,931	8,725	2,169	0
S&W	7									
S&W	8	SYSTEM CONTROL AND DISPATCH S&W EXPENSE								
S&W	9	556-Supervision & Engineering	OX_PROD		198	11	805	1,013	252	0
S&W	10	557-Other Expenditures	MX_PROD		0	0	0	0	0	0
S&W	11	TOTAL SYSTEM CONTROL AND DISPATCH			198	11	805	1,013	252	0
S&W	12									
S&W	13	TRANSMISSION SALARIES & WAGES EXPENSE								
S&W	14	Operation	OX_TRAN		0	0	0	0	0	0
S&W	15	Maintenance	MX_TRAN		0	0	0	0	0	0
S&W	16	TOTAL TRANSMISSION EXPENSE			0	0	0	0	0	0
S&W	17									
S&W	18	REGIONAL MARKET EXPENSE								
S&W	19	575.70-Market Facil, Monitoring, & Compliance	OX_RM		0	0	0	0	0	0
S&W	20	575.71-Market Fac, Monit, Compl-Transm	OX_RM		0	0	0	0	0	0
S&W	21	TOTAL REGIONAL MARKET EXPENSE			0	0	0	0	0	0
S&W	22									
S&W	23									
S&W	24									
S&W	25									
S&W	26									
S&W	27									
S&W	28									
S&W	29									
S&W	30									
S&W	31									
S&W	32									
S&W	33									
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S&W	35									
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S&W	37									
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S&W	39									
S&W	40									
S&W	41									
S&W	42									
S&W	43									
S&W	44									
S&W	45									
S&W	46									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH	LINE	DESCRIPTION	ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	
ID	NO.		BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TOTAL
		(a)	(b)	SYSTEM	(d)	(e)	(f)	(g)	(h)
									(i)
S&W	47	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR							
S&W	48								
S&W	49								
S&W	50	DISTRIBUTION SALARIES & WAGES EXPENSE							
S&W	51	Distribution Operations:							
S&W	52	580-Supervision SALWAGDO		0	0	0	0	0	0
S&W	53	581-Load Dispatch DDISPSUB		0	0	0	0	0	0
S&W	54	582-Station Equipment PLT_362		0	0	0	0	0	0
S&W	55	583-Overhead Lines OHDIST		0	0	0	0	0	0
S&W	56	584-Underground Lines UGDIST		0	0	0	0	0	0
S&W	57	585-Street Lighting PLT_371		0	0	0	0	0	0
S&W	58	586-Metering CMETERS		0	0	0	0	0	0
S&W	59	587-Customer Installations PLT_3713		0	0	0	0	0	0
S&W	60	588-Miscellaneous DISTPLT		0	0	0	0	0	0
S&W	61	589-Rents DISTPLT		0	0	0	0	0	0
S&W	62	Total Distribution Operation		0	0	0	0	0	0
S&W	63								
S&W	64	Distribution Maintenance							
S&W	65	590-Supervision SALWAGDM		0	0	0	0	0	0
S&W	66	591-Structures PLT_362		0	0	0	0	0	0
S&W	67	592-Station Equipment PLT_362		0	0	0	0	0	0
S&W	68	593-Overhead Lines OHDIST		0	0	0	0	0	0
S&W	69	594-Underground Lines UGDIST		0	0	0	0	0	0
S&W	70	595-Transformers PLT_368		0	0	0	0	0	0
S&W	71	596-Street Lighting PLT_373		0	0	0	0	0	0
S&W	72	597-Metering CMETERS		0	0	0	0	0	0
S&W	73	598-Miscellaneous DISTPLT		0	0	0	0	0	0
S&W	74	Total Distribution Maintenance MX_DIST		0	0	0	0	0	0
S&W	75								
S&W	76	TOTAL DISTRIBUTION		0	0	0	0	0	0
S&W	77								
S&W	78								
S&W	79								
S&W	80								
S&W	81								
S&W	82								
S&W	83								
S&W	84								
S&W	85								
S&W	86								
S&W	87								
S&W	88								
S&W	89								
S&W	90								
S&W	91								
S&W	92								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
S&W	47	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR										
S&W	48											
S&W	49											
S&W	50	DISTRIBUTION SALARIES & WAGES EXPENSE										
S&W	51	Distribution Operations:										
S&W	52	580-Supervision	SALWAGDO		0	0	0		0	0	0	0
S&W	53	581-Load Dispatch	DDISPSUB		0	0	0		0	0	0	0
S&W	54	582-Station Equipment	PLT_362		0	0	0		0	0	0	0
S&W	55	583-Overhead Lines	OHDIST		0	0	0		0	0	0	0
S&W	56	584-Underground Lines	UGDIST		0	0	0		0	0	0	0
S&W	57	585-Street Lighting	PLT_371		0	0	0		0	0	0	0
S&W	58	586-Metering	CMETERS		0	0	0		0	0	0	0
S&W	59	587-Customer Installations	PLT_3713		0	0	0		0	0	0	0
S&W	60	588-Miscellaneous	DISTPLT		0	0	0		0	0	0	0
S&W	61	589-Rents	DISTPLT		0	0	0		0	0	0	0
S&W	62	Total Distribution Operation			0	0	0		0	0	0	0
S&W	63											
S&W	64	Distribution Maintenance										
S&W	65	590-Supervision	SALWAGDM		0	0	0		0	0	0	0
S&W	66	591-Structures	PLT_362		0	0	0		0	0	0	0
S&W	67	592-Station Equipment	PLT_362		0	0	0		0	0	0	0
S&W	68	593-Overhead Lines	OHDIST		0	0	0		0	0	0	0
S&W	69	594-Underground Lines	UGDIST		0	0	0		0	0	0	0
S&W	70	595-Transformers	PLT_368		0	0	0		0	0	0	0
S&W	71	596-Street Lighting	PLT_373		0	0	0		0	0	0	0
S&W	72	597-Metering	CMETERS		0	0	0		0	0	0	0
S&W	73	598-Miscellaneous	DISTPLT		0	0	0		0	0	0	0
S&W	74	Total Distribution Maintenance	MX_DIST		0	0	0		0	0	0	0
S&W	75											
S&W	76	TOTAL DISTRIBUTION			0	0	0		0	0	0	0
S&W	77											
S&W	78											
S&W	79											
S&W	80											
S&W	81											
S&W	82											
S&W	83											
S&W	84											
S&W	85											
S&W	86											
S&W	87											
S&W	88											
S&W	89											
S&W	90											
S&W	91											
S&W	92											

Upper Peninsula Power Company											
Forecasted Cost of Service Allocation Study											
Forecast 12 Month Period ending December 31, 2027											
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM							
COS Without Minimum System				Large Comm & Ind	S		P	Q	T	Q	
SCH	LINE	DESCRIPTION	ALLOCATION	CP-U	Secondary	Primary	Transmission	Real-Time	Market Pricing	Light & Power	
ID	NO.		BASIS	Total	CP-U Sec	CP-U Prim	CP-U Trans	RTMP	WP-3		
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
S&W	47	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR									
S&W	48										
S&W	49										
S&W	50	DISTRIBUTION SALARIES & WAGES EXPENSE									
S&W	51	Distribution Operations:									
S&W	52	580-Supervision	SALWAGDO	0	0	0	0	0	0	0	
S&W	53	581-Load Dispatch	DDISPSUB	0	0	0	0	0	0	0	
S&W	54	582-Station Equipment	PLT_362	0	0	0	0	0	0	0	
S&W	55	583-Overhead Lines	OHDIST	0	0	0	0	0	0	0	
S&W	56	584-Underground Lines	UGDIST	0	0	0	0	0	0	0	
S&W	57	585-Street Lighting	PLT_371	0	0	0	0	0	0	0	
S&W	58	586-Metering	CMETERS	0	0	0	0	0	0	0	
S&W	59	587-Customer Installations	PLT_3713	0	0	0	0	0	0	0	
S&W	60	588-Miscellaneous	DISTPLT	0	0	0	0	0	0	0	
S&W	61	589-Rents	DISTPLT	0	0	0	0	0	0	0	
S&W	62	Total Distribution Operation		0	0	0	0	0	0	0	
S&W	63										
S&W	64	Distribution Maintenance									
S&W	65	590-Supervision	SALWAGDM	0	0	0	0	0	0	0	
S&W	66	591-Structures	PLT_362	0	0	0	0	0	0	0	
S&W	67	592-Station Equipment	PLT_362	0	0	0	0	0	0	0	
S&W	68	593-Overhead Lines	OHDIST	0	0	0	0	0	0	0	
S&W	69	594-Underground Lines	UGDIST	0	0	0	0	0	0	0	
S&W	70	595-Transformers	PLT_368	0	0	0	0	0	0	0	
S&W	71	596-Street Lighting	PLT_373	0	0	0	0	0	0	0	
S&W	72	597-Metering	CMETERS	0	0	0	0	0	0	0	
S&W	73	598-Miscellaneous	DISTPLT	0	0	0	0	0	0	0	
S&W	74	Total Distribution Maintenance	MX_DIST	0	0	0	0	0	0	0	
S&W	75										
S&W	76	TOTAL DISTRIBUTION		0	0	0	0	0	0	0	
S&W	77										
S&W	78										
S&W	79										
S&W	80										
S&W	81										
S&W	82										
S&W	83										
S&W	84										
S&W	85										
S&W	86										
S&W	87										
S&W	88										
S&W	89										
S&W	90										
S&W	91										
S&W	92										

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH	LINE	COS Without Minimum System		ALLOCATION	S	S	S	Street	S	S
ID	NO.	DESCRIPTION		BASIS	Street	Street Light	Street	Lighting	Integrated	Iron River
		(a)		(b)	Lighting	(Closed)	Lighting	Total	OSL	OSL
					SL-3	SL-5	SL-6		Z-3	Z-4
					(aa)	(ab)	(ac)	(ad)	(ae)	(af)
										(ag)
										(ah)
S&W	47	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR								
S&W	48									
S&W	49									
S&W	50	DISTRIBUTION SALARIES & WAGES EXPENSE								
S&W	51	Distribution Operations:								
S&W	52	580-Supervision	SALWAGDO		0	0	0	0	0	0
S&W	53	581-Load Dispatch	DDISPSUB		0	0	0	0	0	0
S&W	54	582-Station Equipment	PLT_362		0	0	0	0	0	0
S&W	55	583-Overhead Lines	OHDIST		0	0	0	0	0	0
S&W	56	584-Underground Lines	UGDIST		0	0	0	0	0	0
S&W	57	585-Street Lighting	PLT_371		0	0	0	0	0	0
S&W	58	586-Metering	CMETERS		0	0	0	0	0	0
S&W	59	587-Customer Installations	PLT_3713		0	0	0	0	0	0
S&W	60	588-Miscellaneous	DISTPLT		0	0	0	0	0	0
S&W	61	589-Rents	DISTPLT		0	0	0	0	0	0
S&W	62	Total Distribution Operation			0	0	0	0	0	0
S&W	63									
S&W	64	Distribution Maintenance								
S&W	65	590-Supervision	SALWAGDM		0	0	0	0	0	0
S&W	66	591-Structures	PLT_362		0	0	0	0	0	0
S&W	67	592-Station Equipment	PLT_362		0	0	0	0	0	0
S&W	68	593-Overhead Lines	OHDIST		0	0	0	0	0	0
S&W	69	594-Underground Lines	UGDIST		0	0	0	0	0	0
S&W	70	595-Transformers	PLT_368		0	0	0	0	0	0
S&W	71	596-Street Lighting	PLT_373		0	0	0	0	0	0
S&W	72	597-Metering	CMETERS		0	0	0	0	0	0
S&W	73	598-Miscellaneous	DISTPLT		0	0	0	0	0	0
S&W	74	Total Distribution Maintenance	MX_DIST		0	0	0	0	0	0
S&W	75									
S&W	76	TOTAL DISTRIBUTION			0	0	0	0	0	0
S&W	77									
S&W	78									
S&W	79									
S&W	80									
S&W	81									
S&W	82									
S&W	83									
S&W	84									
S&W	85									
S&W	86									
S&W	87									
S&W	88									
S&W	89									
S&W	90									
S&W	91									
S&W	92									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
S&W	93	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR							
S&W	94								
S&W	95	Customer Accounting Expense							
S&W	96	901-Supervision	SALWAGCA	0	0	0	0	0	0
S&W	97	902-Meter Reading	CMETRDG	0	0	0	0	0	0
S&W	98	903-Billing & Cashiering	CUSTREC	0	0	0	0	0	0
S&W	99	905-Miscellaneous	CUSTCSS	0	0	0	0	0	0
S&W	100	TOTAL CUSTOMER ACCOUNTING EXPENSE							
S&W	101			0	0	0	0	0	0
S&W	102	CUSTOMER SERVICE EXPENSES							
S&W	103	907-Supervision	SALWAGCS	0	0	0	0	0	0
S&W	104	908-Customer Assistance	CUSTCSS	0	0	0	0	0	0
S&W	105	909-Advertisement	CUSTCSS	0	0	0	0	0	0
S&W	106	910-Miscellaneous	CUSTCSS	0	0	0	0	0	0
S&W	107	TOTAL CUSTOMER SERVICE EXPENSE							
S&W	108			0	0	0	0	0	0
S&W	109	SALES EXPENSES							
S&W	110	912-Demonstrations & Selling	OX_902_3	0	0	0	0	0	0
S&W	111	916-Miscellaneous Sales Expense	OX_902_3	0	0	0	0	0	0
S&W	112	TOTAL SALES EXPENSES							
S&W	113			0	0	0	0	0	0
S&W	114	TOTAL O&M SALARIES & WAGES EXPENSE EXCL A&G EXPENSE							
S&W	115			3,584,039	1,947,996	12,159	1,117,038	75,220	431,626
S&W	116	ADMINISTRATIVE & GENERAL SALARIES & WAGES EXP							
S&W	117	Operation	SALWAGXAG	695,704	378,129	2,360	216,830	14,601	83,784
S&W	118	Maintenance	SALWAGXAG	0	0	0	0	0	0
S&W	119	TOTAL ADMINISTRATIVE & GENERAL							
S&W	120			695,704	378,129	2,360	216,830	14,601	83,784
S&W	121	TOTAL OPER & MAINTENANCE SALARIES & WAGES EXPENSE							
S&W	122			4,279,743	2,326,125	14,519	1,333,868	89,821	515,410
S&W	123								
S&W	124								
S&W	125								
S&W	126								
S&W	127								
S&W	128								
S&W	129								
S&W	130								
S&W	131								
S&W	132								
S&W	133								
S&W	134								
S&W	135								
S&W	136								
S&W	137								
S&W	138								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
S&W	93	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR										
S&W	94											
S&W	95	Customer Accounting Expense										
S&W	96	901-Supervision	SALWAGCA		0	0	0		0	0	0	0
S&W	97	902-Meter Reading	CMETRDG		0	0	0		0	0	0	0
S&W	98	903-Billing & Cashiering	CUSTREC		0	0	0		0	0	0	0
S&W	99	905-Miscellaneous	CUSTCSS		0	0	0		0	0	0	0
S&W	100	TOTAL CUSTOMER ACCOUNTING EXPENSE										
S&W	101				0	0	0		0	0	0	0
S&W	102	CUSTOMER SERVICE EXPENSES										
S&W	103	907-Supervision	SALWAGCS		0	0	0		0	0	0	0
S&W	104	908-Customer Assistance	CUSTCSS		0	0	0		0	0	0	0
S&W	105	909-Advertisement	CUSTCSS		0	0	0		0	0	0	0
S&W	106	910-Miscellaneous	CUSTCSS		0	0	0		0	0	0	0
S&W	107	TOTAL CUSTOMER SERVICE EXPENSE										
S&W	108				0	0	0		0	0	0	0
S&W	109	SALES EXPENSES										
S&W	110	912-Demonstrations & Selling	OX_902_3		0	0	0		0	0	0	0
S&W	111	916-Miscellaneous Sales Expense	OX_902_3		0	0	0		0	0	0	0
S&W	112	TOTAL SALES EXPENSES										
S&W	113				0	0	0		0	0	0	0
S&W	114	TOTAL O&M SALARIES & WAGES EXPENSE EXCL A&G EXPENSE										
S&W	115				1,773,791	0	174,205		494,599	0	45,307	453,644
S&W	116	ADMINISTRATIVE & GENERAL SALARIES & WAGES EXP										
S&W	117	Operation	SALWAGXAG		344,313	0	33,815		96,007	0	8,795	88,058
S&W	118	Maintenance	SALWAGXAG		0	0	0		0	0	0	0
S&W	119	TOTAL ADMINISTRATIVE & GENERAL										
S&W	120				344,313	0	33,815		96,007	0	8,795	88,058
S&W	121	TOTAL OPER & MAINTENANCE SALARIES & WAGES EXPENSE										
S&W	122				2,118,105	0	208,020		590,607	0	54,101	541,702
S&W	123											
S&W	124											
S&W	125											
S&W	126											
S&W	127											
S&W	128											
S&W	129											
S&W	130											
S&W	131											
S&W	132											
S&W	133											
S&W	134											
S&W	135											
S&W	136											
S&W	137											
S&W	138											

Upper Peninsula Power Company											
Forecasted Cost of Service Allocation Study											
Forecast 12 Month Period ending December 31, 2027											
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM							
COS Without Minimum System				Large Comm & Ind	S		P	Q	T	Q	
SCH	LINE	DESCRIPTION	ALLOCATION BASIS	CP-U	Secondary	Primary	Transmission	Real-Time	Market Pricing	Light & Power	
ID	NO.			Total	CP-U Sec	CP-U Prim	CP-U Trans	RTMP		WP-3	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
S&W	93	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR									
S&W	94										
S&W	95	Customer Accounting Expense									
S&W	96	901-Supervision	SALWAGCA	0	0	0	0	0	0	0	
S&W	97	902-Meter Reading	CMETRDG	0	0	0	0	0	0	0	
S&W	98	903-Billing & Cashiering	CUSTREC	0	0	0	0	0	0	0	
S&W	99	905-Miscellaneous	CUSTCSS	0	0	0	0	0	0	0	
S&W	100	TOTAL CUSTOMER ACCOUNTING EXPENSE									
S&W	101			0	0	0	0	0	0	0	
S&W	102	CUSTOMER SERVICE EXPENSES									
S&W	103	907-Supervision	SALWAGCS	0	0	0	0	0	0	0	
S&W	104	908-Customer Assistance	CUSTCSS	0	0	0	0	0	0	0	
S&W	105	909-Advertisement	CUSTCSS	0	0	0	0	0	0	0	
S&W	106	910-Miscellaneous	CUSTCSS	0	0	0	0	0	0	0	
S&W	107	TOTAL CUSTOMER SERVICE EXPENSE									
S&W	108			0	0	0	0	0	0	0	
S&W	109	SALES EXPENSES									
S&W	110	912-Demonstrations & Selling	OX_902_3	0	0	0	0	0	0	0	
S&W	111	916-Miscellaneous Sales Expense	OX_902_3	0	0	0	0	0	0	0	
S&W	112	TOTAL SALES EXPENSES									
S&W	113			0	0	0	0	0	0	0	
S&W	114	TOTAL O&M SALARIES & WAGES EXPENSE EXCL A&G EXPENSE									
S&W	115			507,012	123,488	75,220	308,305	0		123,322	
S&W	116	ADMINISTRATIVE & GENERAL SALARIES & WAGES EXP									
S&W	117	Operation	SALWAGXAG	98,417	23,970	14,601	59,845	0		23,938	
S&W	118	Maintenance	SALWAGXAG	0	0	0	0	0	0	0	
S&W	119	TOTAL ADMINISTRATIVE & GENERAL									
S&W	120			98,417	23,970	14,601	59,845	0		23,938	
S&W	121	TOTAL OPER & MAINTENANCE SALARIES & WAGES EXPENSE									
S&W	122			605,429	147,459	89,821	368,150	0		147,260	
S&W	123										
S&W	124										
S&W	125										
S&W	126										
S&W	127										
S&W	128										
S&W	129										
S&W	130										
S&W	131										
S&W	132										
S&W	133										
S&W	134										
S&W	135										
S&W	136										
S&W	137										
S&W	138										

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH	LINE	COS Without Minimum System		ALLOCATION	S	S	S	S	S	
ID	NO.	DESCRIPTION		BASIS	Street	Street Light	Street	Street	Integrated	Iron River
		(a)		(b)	Lighting	(Closed)	Lighting	Lighting	OSL	OSL
					SL-3	SL-5	SL-6	Total	Z-3	Z-4
					(aa)	(ab)	(ac)	(ad)	(ae)	(af)
										(ag)
										(ah)
S&W	93	DEVELOPMENT OF SALARIES & WAGES ALLOCATION FACTOR								
S&W	94									
S&W	95	Customer Accounting Expense								
S&W	96	901-Supervision	SALWAGCA		0	0	0	0	0	0
S&W	97	902-Meter Reading	CMETRDG		0	0	0	0	0	0
S&W	98	903-Billing & Cashiering	CUSTREC		0	0	0	0	0	0
S&W	99	905-Miscellaneous	CUSTCSS		0	0	0	0	0	0
S&W	100	TOTAL CUSTOMER ACCOUNTING EXPENSE			0	0	0	0	0	0
S&W	101									
S&W	102	CUSTOMER SERVICE EXPENSES								
S&W	103	907-Supervision	SALWAGCS		0	0	0	0	0	0
S&W	104	908-Customer Assistance	CUSTCSS		0	0	0	0	0	0
S&W	105	909-Advertisement	CUSTCSS		0	0	0	0	0	0
S&W	106	910-Miscellaneous	CUSTCSS		0	0	0	0	0	0
S&W	107	TOTAL CUSTOMER SERVICE EXPENSE			0	0	0	0	0	0
S&W	108									
S&W	109	SALES EXPENSES								
S&W	110	912-Demonstrations & Selling	OX_902_3		0	0	0	0	0	0
S&W	111	916-Miscellaneous Sales Expense	OX_902_3		0	0	0	0	0	0
S&W	112	TOTAL SALES EXPENSES			0	0	0	0	0	0
S&W	113									
S&W	114	TOTAL O&M SALARIES & WAGES EXPENSE EXCL A&G EXPENSE			1,900	102	7,735	9,738	2,421	0
S&W	115									
S&W	116	ADMINISTRATIVE & GENERAL SALARIES & WAGES EXP								
S&W	117	Operation	SALWAGXAG		369	20	1,502	1,890	470	0
S&W	118	Maintenance	SALWAGXAG		0	0	0	0	0	0
S&W	119	TOTAL ADMINISTRATIVE & GENERAL			369	20	1,502	1,890	470	0
S&W	120									
S&W	121	TOTAL OPER & MAINTENANCE SALARIES & WAGES EXPENSE			2,269	122	9,237	11,628	2,891	0
S&W	122									
S&W	123									
S&W	124									
S&W	125									
S&W	126									
S&W	127									
S&W	128									
S&W	129									
S&W	130									
S&W	131									
S&W	132									
S&W	133									
S&W	134									
S&W	135									
S&W	136									
S&W	137									
S&W	138									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERCIAL SECONDARY	TOTAL COMMERCIAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
AF	1	ALLOCATION FACTOR TABLE							
AF	2								
AF	3	ENERGY - PRODUCTION RELATED							
AF	4	Energy @ Meter (kWh Sales with RTMP)	ENERGY3	798,011,306	252,662,632	2,188,500	236,043,802	37,036,842	270,079,530
AF	5	Energy @ Meter (kWh Sales)	ENERGY2	696,608,428	252,662,632	2,188,500	236,043,802	37,036,842	168,676,652
AF	6	Energy @ Generation with losses (kWh)	ENERGY1	745,556,754	274,290,554	2,375,836	256,249,151	38,684,981	173,956,231
AF	7	Energy @ Generation with losses (kWh)	ENEFUEL	745,556,754	274,290,554	2,375,836	256,249,151	38,684,981	173,956,231
AF	8								
AF	9	Energy - RTMP	ERTMP	1	0	0	0	0	1
AF	10								
AF	11								
AF	12	DEMAND							
AF	13	DEMAND - PRODUCTION RELATED							
AF	14	Demand Production (12CP 75% & Energy 25%)	DPROD	1.0000	0.5435	0.0034	0.3117	0.0210	0.1204
AF	15								
AF	16								
AF	17	Production Load Dispatching (Average Demand)	DPRODLD	85,109	31,312	271	29,252	4,416	19,858
AF	18	Purchased Capacity (1CP Firm Load Only)	DPURCH	86,014	53,077	778	31,227	931	0
AF	19								
AF	20	DEMAND - TRANSMISSION RELATED							
AF	21	Demand Transmission (12CP no AES or RTMP)	DTRAN	1,119,734	531,598	3,056	370,943	7,843	206,294
AF	22	Demand Transmission (12CP no AES)	DTRAN3	1,471,812	531,845	3,057	371,116	7,848	557,945
AF	23	Transmission Load Dispatching (Average Demand)	DTRANLD	85,109	31,312	271	29,252	4,416	19,858
AF	24								
AF	25	DEMAND - DISTRIBUTION RELATED							
AF	26	Demand Distribution Primary Substation (12 CP)	DDISPSUB	1,120,918	531,845	3,057	371,116	7,848	207,051
AF	27								
AF	28	Demand Distribution Primary Lines (NCP)	DDISTPRI	214,836	141,961	691	71,055	1,129	0
AF	29								
AF	30	Demand Distribution Secondary Lines (NCP)	DDISTSEC	213,707	141,961	691	71,055	0	0
AF	31								
AF	32	Demand Distribution Line Transformers (NCP)	DDISTSLT	213,707	141,961	691	71,055	0	0
AF	33	Distribution Load Dispatching	DDISTLD	79,522	28,843	250	26,946	4,228	19,255
AF	34								
AF	35	Minimum System - Demand Allocation Factors							
AF	36	Primary							
AF	37	kW Capability of Minimum	64.00%						
AF	38	NCP * kW Capability Minimum	137,495						
AF	39	Dist Pri Min kW Allocated on Number of Primary Customers		137,495	118,392	4,313	14,772	17	0
AF	40	Adj Dist Pri (Ln 26) less Alloc Min kW Cap (Ln 37)	DDISTPRIMS	77,393	23,569	(3,569)	56,282	1,111	0
AF	41	Secondary							
AF	42	Demand Distribution Secondary Lines (NCP)		213,707	141,961	691	71,055	0	0
AF	43	Demand Adjustment							
AF	44	Adjusted Demand Distribution Primary Lines (NCP)	DDISTSECMS	71,709	35,490	691	35,527	0	0
AF	45								
AF	46								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
AF	1	ALLOCATION FACTOR TABLE										
AF	2											
AF	3	ENERGY - PRODUCTION RELATED										
AF	4	Energy @ Meter (kWh Sales with RTMP)	ENERGY3		230,118,977	0	22,543,655		62,655,982	0	6,268,674	79,673,221
AF	5	Energy @ Meter (kWh Sales)	ENERGY2		230,118,977	0	22,543,655		62,655,982	0	6,268,674	79,673,221
AF	6	Energy @ Generation with losses(kWh)	ENERGY1		249,817,162	0	24,473,392		68,019,334	0	6,805,273	86,493,249
AF	7	Energy @ Generation with losses (kWh)	ENEFUEL		249,817,162	0	24,473,392		68,019,334	0	6,805,273	86,493,249
AF	8											
AF	9	Energy - RTMP	ERTMP		0	0	0		0	0	0	0
AF	10											
AF	11											
AF	12	DEMAND										
AF	13	DEMAND - PRODUCTION RELATED										
AF	14	Demand Production (12CP 75% & Energy 25%)	DPROD		0.4949	0.0000	0.0486		0.1380	0.0000	0.0126	0.1266
AF	15											
AF	16											
AF	17	Production Load Dispatching (Average Demand)	DPROLD		28,518	0	2,794		7,765	0	777	9,874
AF	18	Purchased Capacity (1CP Firm Load Only)	DPURCH		47,121	0	5,956		8,959	0	1,473	10,536
AF	19											
AF	20	DEMAND - TRANSMISSION RELATED										
AF	21	Demand Transmission (12CP no AES or RTMP)	DTRAN		484,036	0	47,562		135,614	0	12,196	114,868
AF	22	Demand Transmission (12CP no AES)	DTRAN3		484,262	0	47,584		135,678	0	12,202	114,922
AF	23	Transmission Load Dispatching (Average Demand)	DTRANLD		28,518	0	2,794		7,765	0	777	9,874
AF	24											
AF	25	DEMAND - DISTRIBUTION RELATED										
AF	26	Demand Distribution Primary Substation (12 CP)	DDISPSUB		484,262	0	47,584		135,678	0	12,202	114,922
AF	27											
AF	28	Demand Distribution Primary Lines (NCP)	DDISTPRI		126,030	0	15,932		42,974	0	3,963	12,049
AF	29											
AF	30	Demand Distribution Secondary Lines (NCP)	DDISTSEC		126,030	0	15,932		42,974	0	3,963	12,049
AF	31											
AF	32	Demand Distribution Line Transformers (NCP)	DDISTSLT		126,030	0	15,932		42,974	0	3,963	12,049
AF	33	Distribution Load Dispatching	DDISTLD		26,269	0	2,573		7,153	0	716	9,095
AF	34											
AF	35	Minimum System - Demand Allocation Factors										
AF	36	Primary										
AF	37	kW Capability of Minimum	64.00%									
AF	38	NCP * kW Capability Minimum		137,495								
AF	39	Dist Pri Min kW Allocated on Number of Primary Customers			111,610	0	6,782		12,852	0	497	1,307
AF	40	Adj Dist Pri (Ln 26) less Alloc Min kW Cap (Ln 37)	DDISTPRIMS		14,420	0	9,150		30,122	0	3,466	10,742
AF	41	Secondary										
AF	42	Demand Distribution Secondary Lines (NCP)			126,030	0	15,932		42,974	0	3,963	12,049
AF	43	Demand Adjustment			0.2500	0.2500	0.2500		0.5000	0.5000	0.5000	0.5000
AF	44	Adjusted Demand Distribution Primary Lines (NCP)	DDISTSECMS		31,507	0	3,983		21,487	0	1,982	6,025
AF	45											
AF	46											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	RETAIL SYSTEM						
ID	NO.		BASIS	Large Comm & Ind	Large Commercial & Industrial	Transmission	Real-Time	> 5,000kW		
		(a)	(b)	CP-U	Secondary	Primary	Market Pricing	Light & Power	WP-3	(z)
				Total	CP-U Sec	CP-U Prim	CP-U Trans	RTMP		
AF	1	ALLOCATION FACTOR TABLE								
AF	2									
AF	3	ENERGY - PRODUCTION RELATED								
AF	4	Energy @ Meter (kWh Sales with RTMP)	ENERGY3	193,659,622	87,445,925	37,036,842	69,176,855	101,402,878	99,499,797	
AF	5	Energy @ Meter (kWh Sales)	ENERGY2	193,659,622	87,445,925	37,036,842	69,176,855	0	99,499,797	
AF	6	Energy @ Generation with losses(kWh)	ENERGY1	204,958,368	94,931,296	38,684,981	71,342,091	0	102,614,141	
AF	7	Energy @ Generation with losses (kWh)	ENEFUEL	204,958,368	94,931,296	38,684,981	71,342,091	0	102,614,141	
AF	8									
AF	9	Energy - RTMP	ERTMP	0	0	0	0	1	0	
AF	10									
AF	11									
AF	12	DEMAND								
AF	13	DEMAND - PRODUCTION RELATED								
AF	14	Demand Production (12CP 75% & Energy 25%)	DPROD	0.1415	0.0345	0.0210	0.0860	0.0000	0.0344	
AF	15									
AF	16									
AF	17	Production Load Dispatching (Average Demand)	DPRODLD	23,397	10,837	4,416	8,144	0	11,714	
AF	18	Purchased Capacity (1CP Firm Load Only)	DPURCH	11,191	10,260	931	0	0	0	
AF	19									
AF	20	DEMAND - TRANSMISSION RELATED								
AF	21	Demand Transmission (12CP no AES or RTMP)	DTRAN	252,349	108,265	7,843	136,241	0	70,053	
AF	22	Demand Transmission (12CP no AES)	DTRAN3	252,904	108,315	7,848	136,741	350,894	70,310	
AF	23	Transmission Load Dispatching (Average Demand)	DTRANLD	23,397	10,837	4,416	8,144	0	11,714	
AF	24									
AF	25	DEMAND - DISTRIBUTION RELATED								
AF	26	Demand Distribution Primary Substation (12 CP)	DDISPSUB	252,904	108,315	7,848	136,741	0	70,310	
AF	27									
AF	28	Demand Distribution Primary Lines (NCP)	DDISTPRI	13,197	12,068	1,129	0	0	0	
AF	29									
AF	30	Demand Distribution Secondary Lines (NCP)	DDISTSEC	13,197	12,068	0	0	0	0	
AF	31									
AF	32	Demand Distribution Line Transformers (NCP)	DDISTSLT	12,068	12,068	0	0	0	0	
AF	33	Distribution Load Dispatching	DDISTLD	22,107	9,982	4,228	7,897	0	11,358	
AF	34									
AF	35	Minimum System - Demand Allocation Factors								
AF	36	Primary								
AF	37	kW Capability of Minimum	64.00%							
AF	38	NCP * kW Capability Minimum	137,495							
AF	39	Dist Pri Min kW Allocated on Number of Primary Customers		133	116	17	0	0	0	
AF	40	Adj Dist Pri (Ln 26) less Alloc Min kW Cap (Ln 37)	DDISTPRIMS	13,064	11,952	1,111	0	0	0	
AF	41	Secondary								
AF	42	Demand Distribution Secondary Lines (NCP)		12,068	12,068	0	0	0	0	
AF	43	Demand Adjustment			0.5000					
AF	44	Adjusted Demand Distribution Primary Lines (NCP)	DDISTSECMS	6,034	6,034	0	0	0	0	
AF	45									
AF	46									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	S Street Lighting SL-3	S Street Light (Closed) SL-5	S Street Lighting SL-6	Street Lighting Total	S Integrated OSL Z-3	S Iron River OSL Z-4	
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag) (ah)
AF	1	ALLOCATION FACTOR TABLE								
AF	2									
AF	3	ENERGY - PRODUCTION RELATED								
AF	4	Energy @ Meter (kWh Sales with RTMP)	ENERGY3	300,197	17,636	1,443,634	1,761,467	427,033	0	
AF	5	Energy @ Meter (kWh Sales)	ENERGY2	300,197	17,636	1,443,634	1,761,467	427,033	0	
AF	6	Energy @ Generation with losses(kWh)	ENERGY1	325,894	19,146	1,567,209	1,912,249	463,587	0	
AF	7	Energy @ Generation with losses (kWh)	ENEFUEL	325,894	19,146	1,567,209	1,912,249	463,587	0	
AF	8									
AF	9	Energy - RTMP	ERTMP	0	0	0	0	0	0	
AF	10									
AF	11									
AF	12	DEMAND								
AF	13	DEMAND - PRODUCTION RELATED								
AF	14	Demand Production (12CP 75% & Energy 25%)	DPROD	0.0005	0.0000	0.0022	0.0027	0.0007	0.0000	
AF	15									
AF	16									
AF	17	Production Load Dispatching (Average Demand)	DPRODLD	37	2	179	218	53	0	
AF	18	Purchased Capacity (1CP Firm Load Only)	DPURCH	121	5	404	530	247	0	
AF	19									
AF	20	DEMAND - TRANSMISSION RELATED								
AF	21	Demand Transmission (12CP no AES or RTMP)	DTRAN	496	26	1,922	2,444	612	0	
AF	22	Demand Transmission (12CP no AES)	DTRAN3	496	26	1,923	2,445	613	0	
AF	23	Transmission Load Dispatching (Average Demand)	DTRANLD	37	2	179	218	53	0	
AF	24									
AF	25	DEMAND - DISTRIBUTION RELATED								
AF	26	Demand Distribution Primary Substation (12 CP)	DDISPSUB	496	26	1,923	2,445	613	0	
AF	27									
AF	28	Demand Distribution Primary Lines (NCP)	DDISTPRI	121	5	404	530	161	0	
AF	29									
AF	30	Demand Distribution Secondary Lines (NCP)	DDISTSEC	121	5	404	530	161	0	
AF	31									
AF	32	Demand Distribution Line Transformers (NCP)	DDISTSLT	121	5	404	530	161	0	
AF	33	Distribution Load Dispatching	DDISTLD	34	2	165	201	49	0	
AF	34									
AF	35	Minimum System - Demand Allocation Factors								
AF	36	Primary								
AF	37	kW Capability of Minimum	64.00%							
AF	38	NCP * kW Capability Minimum	137,495							
AF	39	Dist Pri Min kW Allocated on Number of Primary Customers		173	22	494	690	3,624	0	
AF	40	Adj Dist Pri (Ln 26) less Alloc Min kW Cap (Ln 37)	DDISTPRIMS	0	(17)	(90)	(107)	(3,462)	0	
AF	41	Secondary								
AF	42	Demand Distribution Secondary Lines (NCP)		121	5	404	530	161	0	
AF	43	Demand Adjustment		1.0000	1.0000	1.0000		1.0000	1.0000	
AF	44	Adjusted Demand Distribution Primary Lines (NCP)	DDISTSECMS	121	5	404	530	161	0	
AF	45									
AF	46									

Upper Peninsula Power Company
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Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
AF	47	ALLOCATION FACTOR TABLE CONTINUED							
AF	48								
AF	49	<u>CUSTOMER</u>							
AF	50								
AF	51	Minimum System - Customer Allocation Factors							
AF	52	Primary							
AF	53	Number of Primary Customers - MS	CDISTPRI	55,510	47,798	1,741	5,964	7	0
AF	54	Secondary							
AF	55	Number of Secondary Customers		55,224	47,798	1,463	5,964	-	0
AF	56	Residential Customer Adjustment							
AF	57	Adjusted Number of Secondary Customers - MS	CDISTSEC	31,326	23,899	1,463	5,964	0	0
AF	58	Line Transformers							
AF	59	Number of Line Transformer Customers		55,230	47,798	1,463	5,964	-	6
AF	60	Line Transformer Adjustment							
AF	61	Adjusted Number of Secondary Customers 368 - MS	CDISTSLT	29,535	23,899	1,463	4,167	0	6
AF	62								
AF	63								
AF	64	369-Service Investment (Replacement Costs)	CSERVICE	44,113,761	38,139,655	215,778	5,758,329	0	0
AF	65	370-Meters (New Meter Cost)	CMETERS	8,568,334	6,600,366	6,682	1,784,648	39,925	136,713
AF	66								
AF	67	371-Installation on Customer Premises	CUSTPREM	1,860	0	1,860	0	0	0
AF	68	373-Street Lighting & Signal Systems	CLIGHT	1,761,467	0	1,761,467	0	0	0
AF	69								
AF	70	Customer Deposits (Number of Customers)	CUSTDEP	55,523	47,798	1,741	5,964	7	13
AF	71								
AF	72	902-Meter Reading (Number of Customers)	CMETRDG	53,851	47,798	70	5,964	7	13
AF	73	903-Customer Records & Collections (Bills)	CUSTREC	646,060	573,571	838	71,567	84	0
AF	74								
AF	75	905, 908-916 - Customer Service and Sales Composite							
AF	76	50% Energy @ Meter		0.5000	0.1814	0.0016	0.1694	0.0266	0.1211
AF	77	50% Number of Customers		0.5000	0.4304	0.0157	0.0537	0.0001	0.0001
AF	78	905, 908-916 - Customer Service and Sales	CUSTCSS	1.0000	0.6118	0.0173	0.2231	0.0266	0.1212
AF	79								
AF	80								
AF	81								
AF	82	Number of Total Bills	CUSTBILLS	646,060	573,571	838	71,567	84	0
AF	83	Number of Customers (Average Annual)	CUST	55,523	47,798	1,741	5,964	7	13
AF	84	Number of Services (Customers)	CSERV	54,040	47,798	278	5,964	0	0
AF	85	Number of Lamps	CLAMP	8,731	0	8,731	0	0	0
AF	86								
AF	87								
AF	88								
AF	89								
AF	90								
AF	91								
AF	92								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
AF	47	ALLOCATION FACTOR TABLE CONTINUED										
AF	48											
AF	49	CUSTOMER										
AF	50											
AF	51	Minimum System - Customer Allocation Factors										
AF	52	Primary										
AF	53	Number of Primary Customers - MS	CDISTPRI		45,060	0	2,738		5,189	0	201	528
AF	54	Secondary										
AF	55	Number of Secondary Customers			45,060	0	2,738		5,189	0	201	528
AF	56	Residential Customer Adjustment			0.5000	0.5000	0.5000		1.00	1.00	1.00	1.00
AF	57	Adjusted Number of Secondary Customers - MS	CDISTSEC		22,530	0	1,369		5,189	0	201	528
AF	58	Line Transformers										
AF	59	Number of Line Transformer Customers			45,060	0	2,738		5,189	0	201	528
AF	60	Line Transformer Adjustment			2.00	2.00	2.00		1.50	1.50	1.50	1.00
AF	61	Adjusted Number of Secondary Customers 368 - MS	CDISTSLT		22,530	0	1,369		3,459	0	134	528
AF	62											
AF	63											
AF	64	369-Service Investment (Replacement Costs)	CSERVICE		35,777,023	0	2,362,632		4,751,766	0	182,708	763,763
AF	65	370-Meters (New Meter Cost)	CMETERS		6,263,595	0	336,771		1,139,366	0	64,111	498,634
AF	66											
AF	67	371-Installation on Customer Premises	CUSTPREM		0	0	0		0	0	0	0
AF	68	373-Street Lighting & Signal Systems	CLIGHT		0	0	0		0	0	0	0
AF	69											
AF	70	Customer Deposits (Number of Customers)	CUSTDEP		45,060	0	2,738		5,189	0	201	528
AF	71											
AF	72	902-Meter Reading (Number of Customers)	CMETRDG		45,060	0	2,738		5,189	0	201	528
AF	73	903-Customer Records & Collections (Bills)	CUSTREC		540,715	0	32,856		62,266	0	2,409	6,332
AF	74											
AF	75	905, 908-916 - Customer Service and Sales Composite										
AF	76	50% Energy @ Meter			0.1652	0.0000	0.0162		0.0450	0.0000	0.0045	0.0572
AF	77	50% Number of Customers			0.4058	0.0000	0.0247		0.0467	0.0000	0.0018	0.0048
AF	78	905, 908-916 - Customer Service and Sales	CUSTCSS		0.5709	0.0000	0.0408		0.0917	0.0000	0.0063	0.0619
AF	79											
AF	80											
AF	81											
AF	82	Number of Total Bills	CUSTBILLS		540,715	0	32,856		62,266	0	2,409	6,332
AF	83	Number of Customers (Average Annual)	CUST		45,060	0	2,738		5,189	0	201	528
AF	84	Number of Services (Customers)	CSERV		45,060	0	2,738		5,189	0	201	528
AF	85	Number of Lamps	CLAMP		0	0	0		0	0	0	0
AF	86											
AF	87											
AF	88											
AF	89											
AF	90											
AF	91											
AF	92											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	RETAIL SYSTEM						
ID	NO.		BASIS	Large Comm & Ind	Large Commerical & Industrial	Transmission	Real-Time	> 5,000kW		
		(a)	(b)	CP-U	Secondary	Primary	CP-U Trans	Market Pricing	Light & Power	(z)
				Total	CP-U Sec	CP-U Prim		RTMP	WP-3	
		(s)	(t)	(u)	(v)	(w)	(x)	(y)		
AF	47	ALLOCATION FACTOR TABLE CONTINUED								
AF	48									
AF	49	<u>CUSTOMER</u>								
AF	50									
AF	51	Minimum System - Customer Allocation Factors								
AF	52	Primary								
AF	53	Number of Primary Customers - MS	CDISTPRI	54	47	7	0	0	0	
AF	54	Secondary								
AF	55	Number of Secondary Customers		47	47	0	0	0	0	
AF	56	Residential Customer Adjustment			1.00	1.00	1.00	1.00	1.00	
AF	57	Adjusted Number of Secondary Customers - MS	CDISTSEC	47	47	0	0	0	0	
AF	58	Line Transformers								
AF	59	Number of Line Transformer Customers		47	47	0	0	1	5	
AF	60	Line Transformer Adjustment			1.00	1.00	1.00	1.00	1.00	
AF	61	Adjusted Number of Secondary Customers 368 - MS	CDISTSLT	47	47	0	0	1	5	
AF	62									
AF	63									
AF	64	369-Service Investment (Replacement Costs)	CSERVICE	60,091	60,091	0	0	0	0	
AF	65	370-Meters (New Meter Cost)	CMETERS	180,129	82,536	39,925	57,669	14,500	64,545	
AF	66									
AF	67	371-Installation on Customer Premises	CUSTPREM	0	0	0	0	0	0	
AF	68	373-Street Lighting & Signal Systems	CLIGHT	0	0	0	0	0	0	
AF	69									
AF	70	Customer Deposits (Number of Customers)	CUSTDEP	61	47	7	7	1	5	
AF	71									
AF	72	902-Meter Reading (Number of Customers)	CMETRDG	61	47	7	7	1	5	
AF	73	903-Customer Records & Collections (Bills)	CUSTREC	644	560	84	0	0	0	
AF	74									
AF	75	905, 908-916 - Customer Service and Sales Composite								
AF	76	50% Energy @ Meter		0.1390	0.0628	0.0266	0.0497	0.0000	0.0714	
AF	77	50% Number of Customers		0.0005	0.0004	0.0001	0.0001	0.0000	0.0000	
AF	78	905, 908-916 - Customer Service and Sales	CUSTCSS	0.1395	0.0632	0.0266	0.0497	0.0000	0.0715	
AF	79									
AF	80									
AF	81									
AF	82	Number of Total Bills	CUSTBILLS	644	560	84	0	0	0	
AF	83	Number of Customers (Average Annual)	CUST	61	47	7	7	1	5	
AF	84	Number of Services (Customers)	CSERV	47	47	0	0	0	0	
AF	85	Number of Lamps	CLAMP	0	0	0	0	0	0	
AF	86									
AF	87									
AF	88									
AF	89									
AF	90									
AF	91									
AF	92									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH	LINE	COS Without Minimum System		ALLOCATION	S	S	S	Street	S	S
ID	NO.	DESCRIPTION		BASIS	Street	Street Light	Street	Lighting	Integrated	Iron River
		(a)		(b)	Lighting	(Closed)	Lighting	Total	OSL	OSL
					SL-3	SL-5	SL-6		Z-3	Z-4
					(aa)	(ab)	(ac)	(ad)	(ae)	(af)
										(ag)
										(ah)
AF	47	ALLOCATION FACTOR TABLE CONTINUED								
AF	48									
AF	49	CUSTOMER								
AF	50									
AF	51	Minimum System - Customer Allocation Factors								
AF	52	Primary								
AF	53	Number of Primary Customers - MS	CDISTPRI		70	9	200	278	1,463	0
AF	54	Secondary								
AF	55	Number of Secondary Customers			0	0	0	0	1,463	0
AF	56	Residential Customer Adjustment			1.00	1.00	1.00		1.00	1.00
AF	57	Adjusted Number of Secondary Customers - MS	CDISTSEC		0	0	0	0	1,463	0
AF	58	Line Transformers								
AF	59	Number of Line Transformer Customers			0	0	0	0	1,463	0
AF	60	Line Transformer Adjustment			1.00	1.00	1.00		1.00	1.00
AF	61	Adjusted Number of Secondary Customers 368 - MS	CDISTSLT		0	0	0	0	1,463	0
AF	62									
AF	63									
AF	64	369-Service Investment (Replacement Costs)	CSERVICE		54,122	6,975	154,680	215,778	0	0
AF	65	370-Meters (New Meter Cost)	CMETERS		6,682	0	0	6,682	0	0
AF	66									
AF	67	371-Installation on Customer Premises	CUSTPREM		0	0	0	0	1,630	230
AF	68	373-Street Lighting & Signal Systems	CLIGHT		300,197	17,636	1,443,634	1,761,467	0	0
AF	69									
AF	70	Customer Deposits (Number of Customers)	CUSTDEP		70	9	200	278	1,463	0
AF	71									
AF	72	902-Meter Reading (Number of Customers)	CMETRDG		70	0	0	70	0	0
AF	73	903-Customer Records & Collections (Bills)	CUSTREC		838	0	0	838	0	0
AF	74									
AF	75	905, 908-916 - Customer Service and Sales Composite								
AF	76	50% Energy @ Meter			0.0002	0.0000	0.0010	0.0013	0.0003	0.0000
AF	77	50% Number of Customers			0.0006	0.0001	0.0018	0.0025	0.0132	0.0000
AF	78	905, 908-916 - Customer Service and Sales	CUSTCSS		0.0008	0.0001	0.0028	0.0038	0.0135	0.0000
AF	79									
AF	80									
AF	81									
AF	82	Number of Total Bills	CUSTBILLS		838	0	0	838	0	0
AF	83	Number of Customers (Average Annual)	CUST		70	9	200	278	1,463	0
AF	84	Number of Services (Customers)	CSERV		70	9	200	278	0	0
AF	85	Number of Lamps	CLAMP		0	123	6,748	6,871	1,630	230
AF	86									
AF	87									
AF	88									
AF	89									
AF	90									
AF	91									
AF	92									

Upper Peninsula Power Company
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RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System			ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	
SCH	LINE	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TOTAL
ID	NO.			SYSTEM			SECONDARY	PRIMARY	TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
AF	93	ALLOCATION FACTOR TABLE CONTINUED							
AF	94	INTERNALLY DEVELOPED ALLOCATION FACTORS							
AF	95								
AF	96	Plant							
AF	97	Intangible Plant In Service	INTPLT	5,881,563	873,012	5,449	500,611	33,710	193,437
AF	98	Production Plant In Service	PRODPLT	119,245,069	64,812,058	404,536	37,165,135	2,502,643	14,360,696
AF	99	Transmission Plant in Service	TRANPLT	0	0	0	0	0	0
AF	100	Distribution Plant in Service	DISTPLT	317,399,568	0	0	0	0	0
AF	101	General Plant in Service	GENLPLT	97,476,209	6,626,913	41,363	3,800,066	255,891	1,468,355
AF	102	Intangible and General Plant in Service	INTGENLPLT	103,357,772	7,499,925	46,812	4,300,677	289,601	1,661,792
AF	103	Total Transmission and Distribution Plant	TDPLT	317,399,568	0	0	0	0	0
AF	104	Prod, Trans, and Distr Plant in Service	PTDPLT	436,644,637	64,812,058	404,536	37,165,135	2,502,643	14,360,696
AF	105	Total Electric Plant In Service	TOTPLT	540,002,409	72,311,983	451,349	41,465,812	2,792,244	16,022,488
AF	106	Net Electric Plant In Service	NETPLT	307,809,705	24,358,900	152,041	13,968,108	940,591	5,397,310
AF	107	Rate Base	RATEBASE	403,564,016	31,620,981	197,894	18,210,756	1,243,252	7,096,017
AF	108								
AF	109								
AF	110								
AF	111								
AF	112								
AF	113								
AF	114								
AF	115	Distribution Plant in Service							
AF	116	Acct 360-Land and Land Rights	PLT_360	1,009,548	0	0	0	0	0
AF	117	Acct 361-Structures & Improvements	PLT_361	2,655,202	0	0	0	0	0
AF	118	Acct 362-Station Equipment	PLT_362	61,383,182	0	0	0	0	0
AF	119	Acct 364-Towers and Fixtures	PLT_364	66,668,839	0	0	0	0	0
AF	120	Acct 365-Overhead Conductors & Devices	PLT_365	31,697,783	0	0	0	0	0
AF	121	Acct 366-Underground Conduit	PLT_366	0	0	0	0	0	0
AF	122	Acct 367 - Underground Conductor	PLT_367	56,710,093	0	0	0	0	0
AF	123	Acct 368-Line Transformers	PLT_368	50,900,543	0	0	0	0	0
AF	124	Acct 369-Services	PLT_369	24,848,486	0	0	0	0	0
AF	125	Acct 370-Meters	PLT_370	16,175,647	0	0	0	0	0
AF	126	Acct 371-Inst. on Customer Premises	PLT_371	908,925	0	0	0	0	0
AF	127	Acct 373-Street Lighting / Signal Systems	PLT_373	4,441,322	0	0	0	0	0
AF	128	Distribution Overhead Lines Plant Accts 364 & 365	OHDIST	98,366,621	0	0	0	0	0
AF	129	Distribution Underground Lines Plant Accts 366 & 367	UGDIST	56,710,093	0	0	0	0	0
AF	130	Accounts 371&373	PLT_3713	5,350,247	0	0	0	0	0
AF	131								
AF	132	Accts 360-362-Distribution Substation	PLT_SUB	65,047,932	0	0	0	0	0
AF	133	Accts 364 thru 367-Distribution Primary	PLT_DPRI	131,617,189	0	0	0	0	0
AF	134	Accts 364 thru 367-Distribution Secondary	PLT_DSEC	0	0	0	0	0	0
AF	135								
AF	136								
AF	137								
AF	138								

Upper Peninsula Power Company												
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PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH	LINE			Integrated Retail	Iron River			General Service	General Service	Commercial	25kW-200kW	
ID	NO.	DESCRIPTION	ALLOCATION	Residential	Residential	Res. Heating		C-1	C-2	Heating	Light & Power	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
AF	93	ALLOCATION FACTOR TABLE CONTINUED										
AF	94	INTERNALLY DEVELOPED ALLOCATION FACTORS										
AF	95											
AF	96	Plant										
AF	97	Intangible Plant In Service	INTPLT		794,941	0	78,072		221,659	0	20,305	203,305
AF	98	Production Plant In Service	PRODPLT		59,016,062	0	5,795,996		16,455,881	0	1,507,408	15,093,253
AF	99	Transmission Plant in Service	TRANPLT		0	0	0		0	0	0	0
AF	100	Distribution Plant in Service	DISTPLT		0	0	0		0	0	0	0
AF	101	General Plant in Service	GENLPLT		6,034,283	0	592,630		1,682,583	0	154,130	1,543,257
AF	102	Intangible and General Plant in Service	INTGENLPLT		6,829,224	0	670,701		1,904,242	0	174,434	1,746,562
AF	103	Total Transmission and Distribution Plant	TDPLT		0	0	0		0	0	0	0
AF	104	Prod, Trans, and Distr Plant in Service	PTDPLT		59,016,062	0	5,795,996		16,455,881	0	1,507,408	15,093,253
AF	105	Total Electric Plant In Service	TOTPLT		65,845,286	0	6,466,697		18,360,124	0	1,681,843	16,839,814
AF	106	Net Electric Plant In Service	NETPLT		22,180,539	0	2,178,361		6,184,762	0	566,543	5,672,633
AF	107	Rate Base	RATEBASE		28,793,232	0	2,827,749		8,027,330	0	735,783	7,381,715
AF	108											
AF	109											
AF	110											
AF	111											
AF	112											
AF	113											
AF	114											
AF	115	Distribution Plant in Service										
AF	116	Acct 360-Land and Land Rights	PLT_360		0	0	0		0	0	0	0
AF	117	Acct 361-Structures & Improvements	PLT_361		0	0	0		0	0	0	0
AF	118	Acct 362-Station Equipment	PLT_362		0	0	0		0	0	0	0
AF	119	Acct 364-Towers and Fixtures	PLT_364		0	0	0		0	0	0	0
AF	120	Acct 365-Overhead Conductors & Devices	PLT_365		0	0	0		0	0	0	0
AF	121	Acct 366-Underground Conduit	PLT_366		0	0	0		0	0	0	0
AF	122	Acct 367 - Underground Conductor	PLT_367		0	0	0		0	0	0	0
AF	123	Acct 368-Line Transformers	PLT_368		0	0	0		0	0	0	0
AF	124	Acct 369-Services	PLT_369		0	0	0		0	0	0	0
AF	125	Acct 370-Meters	PLT_370		0	0	0		0	0	0	0
AF	126	Acct 371-Inst. on Customer Premises	PLT_371		0	0	0		0	0	0	0
AF	127	Acct 373-Street Lighting / Signal Systems	PLT_373		0	0	0		0	0	0	0
AF	128	Distribution Overhead Lines Plant Accts 364 & 365	OHDIST		0	0	0		0	0	0	0
AF	129	Distribution Underground Lines Plant Accts 366 & 367	UGDIST		0	0	0		0	0	0	0
AF	130	Accounts 371&373	PLT_3713		0	0	0		0	0	0	0
AF	131											
AF	132	Accts 360-362-Distribution Substation	PLT_SUB		0	0	0		0	0	0	0
AF	133	Accts 364 thru 367-Distribution Primary	PLT_DPRI		0	0	0		0	0	0	0
AF	134	Accts 364 thru 367-Distribution Secondary	PLT_DSEC		0	0	0		0	0	0	0
AF	135											
AF	136											
AF	137											
AF	138											

Upper Peninsula Power Company										
Forecasted Cost of Service Allocation Study										
Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	Large Comm & Ind		Large Commercial & Industrial		Transmission	Real-Time	Q
ID	NO.		BASIS	CP-U	Secondary	Primary	CP-U Trans	Market Pricing	Light & Power	
		(a)	(b)	Total	CP-U Sec	CP-U Prim	(w)	RTMP	WP-3	(z)
		(s)	(t)	(u)	(v)	(w)	(x)	(y)		
AF	93	ALLOCATION FACTOR TABLE CONTINUED								
AF	94	INTERNALLY DEVELOPED ALLOCATION FACTORS								
AF	95									
AF	96	Plant								
AF	97	Intangible Plant In Service	INTPLT	227,222	55,342	33,710	138,170	0	55,268	
AF	98	Production Plant In Service	PRODPLT	16,868,881	4,108,593	2,502,643	10,257,645	0	4,103,051	
AF	99	Transmission Plant in Service	TRANPLT	0	0	0	0	0	0	
AF	100	Distribution Plant in Service	DISTPLT	0	0	0	0	0	0	
AF	101	General Plant in Service	GENLPLT	1,724,812	420,096	255,891	1,048,825	0	419,529	
AF	102	Intangible and General Plant in Service	INTGENPLT	1,952,034	475,438	289,601	1,186,995	0	474,797	
AF	103	Total Transmission and Distribution Plant	TDPLT	0	0	0	0	0	0	
AF	104	Prod, Trans, and Distr Plant in Service	PTDPLT	16,868,881	4,108,593	2,502,643	10,257,645	0	4,103,051	
AF	105	Total Electric Plant In Service	TOTPLT	18,820,915	4,584,031	2,792,244	11,444,640	0	4,577,848	
AF	106	Net Electric Plant In Service	NETPLT	6,339,984	1,544,169	940,591	3,855,223	0	1,542,087	
AF	107	Rate Base	RATEBASE	8,335,871	2,065,928	1,243,252	5,026,690	0	2,069,327	
AF	108									
AF	109									
AF	110									
AF	111									
AF	112									
AF	113									
AF	114									
AF	115	Distribution Plant in Service								
AF	116	Acct 360-Land and Land Rights	PLT_360	0	0	0	0	0	0	
AF	117	Acct 361-Structures & Improvements	PLT_361	0	0	0	0	0	0	
AF	118	Acct 362-Station Equipment	PLT_362	0	0	0	0	0	0	
AF	119	Acct 364-Towers and Fixtures	PLT_364	0	0	0	0	0	0	
AF	120	Acct 365-Overhead Conductors & Devices	PLT_365	0	0	0	0	0	0	
AF	121	Acct 366-Underground Conduit	PLT_366	0	0	0	0	0	0	
AF	122	Acct 367 - Underground Conductor	PLT_367	0	0	0	0	0	0	
AF	123	Acct 368-Line Transformers	PLT_368	0	0	0	0	0	0	
AF	124	Acct 369-Services	PLT_369	0	0	0	0	0	0	
AF	125	Acct 370-Meters	PLT_370	0	0	0	0	0	0	
AF	126	Acct 371-Inst. on Customer Premises	PLT_371	0	0	0	0	0	0	
AF	127	Acct 373-Street Lighting / Signal Systems	PLT_373	0	0	0	0	0	0	
AF	128	Distribution Overhead Lines Plant Accts 364 & 365	OHDIST	0	0	0	0	0	0	
AF	129	Distribution Underground Lines Plant Accts 366 & 367	UGDIST	0	0	0	0	0	0	
AF	130	Accounts 371&373	PLT_3713	0	0	0	0	0	0	
AF	131									
AF	132	Accts 360-362-Distribution Substation	PLT_SUB	0	0	0	0	0	0	
AF	133	Accts 364 thru 367-Distribution Primary	PLT_DPRI	0	0	0	0	0	0	
AF	134	Accts 364 thru 367-Distribution Secondary	PLT_DSEC	0	0	0	0	0	0	
AF	135									
AF	136									
AF	137									
AF	138									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	S Street Lighting SL-3	S Street Light (Closed) SL-5	S Street Lighting SL-6	Street Lighting Total	S Integrated OSL Z-3	S Iron River OSL Z-4	
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag) (ah)
AF	93	ALLOCATION FACTOR TABLE CONTINUED								
AF	94	INTERNALLY DEVELOPED ALLOCATION FACTORS								
AF	95									
AF	96	Plant								
AF	97	Intangible Plant In Service	INTPLT	852	46	3,467	4,364	1,085	0	
AF	98	Production Plant In Service	PRODPLT	63,221	3,400	257,364	323,984	80,552	0	
AF	99	Transmission Plant in Service	TRANPLT	0	0	0	0	0	0	
AF	100	Distribution Plant in Service	DISTPLT	0	0	0	0	0	0	
AF	101	General Plant in Service	GENLPLT	6,464	348	26,315	33,127	8,236	0	
AF	102	Intangible and General Plant in Service	INTGENPLT	7,316	393	29,782	37,491	9,321	0	
AF	103	Total Transmission and Distribution Plant	TDPLT	0	0	0	0	0	0	
AF	104	Prod, Trans, and Distr Plant in Service	PTDPLT	63,221	3,400	257,364	323,984	80,552	0	
AF	105	Total Electric Plant In Service	TOTPLT	70,537	3,793	287,145	361,475	89,873	0	
AF	106	Net Electric Plant In Service	NETPLT	23,761	1,278	96,727	121,766	30,275	0	
AF	107	Rate Base	RATEBASE	30,891	1,662	125,943	158,496	39,397	0	
AF	108									
AF	109									
AF	110									
AF	111									
AF	112									
AF	113									
AF	114									
AF	115	Distribution Plant in Service								
AF	116	Acct 360-Land and Land Rights	PLT_360	0	0	0	0	0	0	
AF	117	Acct 361-Structures & Improvements	PLT_361	0	0	0	0	0	0	
AF	118	Acct 362-Station Equipment	PLT_362	0	0	0	0	0	0	
AF	119	Acct 364-Towers and Fixtures	PLT_364	0	0	0	0	0	0	
AF	120	Acct 365-Overhead Conductors & Devices	PLT_365	0	0	0	0	0	0	
AF	121	Acct 366-Underground Conduit	PLT_366	0	0	0	0	0	0	
AF	122	Acct 367 - Underground Conductor	PLT_367	0	0	0	0	0	0	
AF	123	Acct 368-Line Transformers	PLT_368	0	0	0	0	0	0	
AF	124	Acct 369-Services	PLT_369	0	0	0	0	0	0	
AF	125	Acct 370-Meters	PLT_370	0	0	0	0	0	0	
AF	126	Acct 371-Inst. on Customer Premises	PLT_371	0	0	0	0	0	0	
AF	127	Acct 373-Street Lighting / Signal Systems	PLT_373	0	0	0	0	0	0	
AF	128	Distribution Overhead Lines Plant Accts 364 & 365	OHDIST	0	0	0	0	0	0	
AF	129	Distribution Underground Lines Plant Accts 366 & 367	UGDIST	0	0	0	0	0	0	
AF	130	Accounts 371&373	PLT_3713	0	0	0	0	0	0	
AF	131									
AF	132	Accts 360-362-Distribution Substation	PLT_SUB	0	0	0	0	0	0	
AF	133	Accts 364 thru 367-Distribution Primary	PLT_DPRI	0	0	0	0	0	0	
AF	134	Accts 364 thru 367-Distribution Secondary	PLT_DSEC	0	0	0	0	0	0	
AF	135									
AF	136									
AF	137									
AF	138									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
AF	139	ALLOCATION FACTOR TABLE CONTINUED							
AF	140	INTERNALLY DEVELOPED ALLOCATION FACTORS							
AF	141								
AF	142	Production Expense							
AF	143	O&M Exp Prod Oper Accts 502-509,537-539,548,549	OX_PROD	483,401	262,738	1,640	150,662	10,145	58,216
AF	144	O&M Exp Prod Maint Accts 511-514,542-545,552-554	MX_PROD	1,422,026	772,899	4,824	443,203	29,845	171,255
AF	145	Salaries and Wages Production Operation	SALWAGPO	1,584,516	861,216	5,375	493,846	33,255	190,823
AF	146	Salaries and Wages Production Maintenance	SALWAGPM	1,626,625	884,103	5,518	506,971	34,139	195,895
AF	147								
AF	148	Transmission Expense							
AF	149	O&M Accounts 561-567	OX_TRAN	163,542	0	0	0	0	0
AF	150	O&M Accounts 569-573	MX_TRAN	0	0	0	0	0	0
AF	151	Salaries & Wages Accounts 561-567	SALWAGTO	0	0	0	0	0	0
AF	152	Salaries & Wages Accounts 569-573	SALWAGTM	0	0	0	0	0	0
AF	153								
AF	154	Regional Market Expens							
AF	155	O&M Accounts 575	OX_RM	134,868	0	0	0	0	0
AF	156								
AF	157	Distribution Expense							
AF	158	Acct 580-Supervision	OX_580	1,731,495	0	0	0	0	0
AF	159	Acct 581-Load Dispatch	OX_581	0	0	0	0	0	0
AF	160	Acct 582-Station Equipment	OX_582	1,295,730	0	0	0	0	0
AF	161	Acct 583-Overhead Lines	OX_583	78,380	0	0	0	0	0
AF	162	Acct 584-Underground Lines	OX_584	12,435	0	0	0	0	0
AF	163	Acct 585-Street Lighting	OX_585	12,158	0	0	0	0	0
AF	164	Acct 586-Metering	OX_586	1,156,456	0	0	0	0	0
AF	165	Acct 587-Customer Installations	OX_587	0	0	0	0	0	0
AF	166	Acct 588-Miscellaneous	OX_588	1,521,531	0	0	0	0	0
AF	167	Acct 589-Rents	OX_589	108,930	0	0	0	0	0
AF	168	Acct 590-Supervision	MX_590	2,354	0	0	0	0	0
AF	169	Acct 592-Station Equipment	MX_592	2,780,830	0	0	0	0	0
AF	170	Acct 593-Overhead Lines	MX_593	11,157,950	0	0	0	0	0
AF	171	Acct 594-Underground Lines	MX_594	870,142	0	0	0	0	0
AF	172	Acct 595-Transformers	MX_595	484,942	0	0	0	0	0
AF	173	Acct 596-Street Lighting	MX_596	3,367	0	0	0	0	0
AF	174	Acct 597-Metering	MX_597	3,120	0	0	0	0	0
AF	175	Acct 598-Miscellaneous	MX_598	4,764	0	0	0	0	0
AF	176	O&M Accounts 581-589	OX_DIST	4,185,621	0	0	0	0	0
AF	177	O&M Accounts 591-598	MX_DIST	15,305,115	0	0	0	0	0
AF	178	Salaries & Wages Accounts 581-589	SALWAGDO	5,917,116	0	0	0	0	0
AF	179	Salaries & Wages Accounts 591-598	SALWAGDM	15,307,470	0	0	0	0	0
AF	180								
AF	181								
AF	182								
AF	183								
AF	184								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
AF	139	ALLOCATION FACTOR TABLE CONTINUED										
AF	140	INTERNALLY DEVELOPED ALLOCATION FACTORS										
AF	141											
AF	142	Production Expense										
AF	143	O&M Exp Prod Oper Accts 502-509,537-539,548,549	OX_PROD		239,242	0	23,496		66,710	0	6,111	61,186
AF	144	O&M Exp Prod Maint Accts 511-514,542-545,552-554	MX_PROD		703,781	0	69,119		196,240	0	17,976	179,991
AF	145	Salaries and Wages Production Operation	SALWAGPO		784,199	0	77,017		218,664	0	20,030	200,558
AF	146	Salaries and Wages Production Maintenance	SALWAGPM		805,040	0	79,063		224,475	0	20,563	205,887
AF	147											
AF	148	Transmission Expense										
AF	149	O&M Accounts 561-567	OX_TRAN		0	0	0		0	0	0	0
AF	150	O&M Accounts 569-573	MX_TRAN		0	0	0		0	0	0	0
AF	151	Salaries & Wages Accounts 561-567	SALWAGTO		0	0	0		0	0	0	0
AF	152	Salaries & Wages Accounts 569-573	SALWAGTM		0	0	0		0	0	0	0
AF	153											
AF	154	Regional Market Expens										
AF	155	O&M Accounts 575	OX_RM		0	0	0		0	0	0	0
AF	156											
AF	157	Distribution Expense										
AF	158	Acct 580-Supervision	OX_580		0	0	0		0	0	0	0
AF	159	Acct 581-Load Dispatch	OX_581		0	0	0		0	0	0	0
AF	160	Acct 582-Station Equipment	OX_582		0	0	0		0	0	0	0
AF	161	Acct 583-Overhead Lines	OX_583		0	0	0		0	0	0	0
AF	162	Acct 584-Underground Lines	OX_584		0	0	0		0	0	0	0
AF	163	Acct 585-Street Lighting	OX_585		0	0	0		0	0	0	0
AF	164	Acct 586-Metering	OX_586		0	0	0		0	0	0	0
AF	165	Acct 587-Customer Installations	OX_587		0	0	0		0	0	0	0
AF	166	Acct 588-Miscellaneous	OX_588		0	0	0		0	0	0	0
AF	167	Acct 589-Rents	OX_589		0	0	0		0	0	0	0
AF	168	Acct 590-Supervision	MX_590		0	0	0		0	0	0	0
AF	169	Acct 592-Station Equipment	MX_592		0	0	0		0	0	0	0
AF	170	Acct 593-Overhead Lines	MX_593		0	0	0		0	0	0	0
AF	171	Acct 594-Underground Lines	MX_594		0	0	0		0	0	0	0
AF	172	Acct 595-Transformers	MX_595		0	0	0		0	0	0	0
AF	173	Acct 596-Street Lighting	MX_596		0	0	0		0	0	0	0
AF	174	Acct 597-Metering	MX_597		0	0	0		0	0	0	0
AF	175	Acct 598-Miscellaneous	MX_598		0	0	0		0	0	0	0
AF	176	O&M Accounts 581-589	OX_DIST		0	0	0		0	0	0	0
AF	177	O&M Accounts 591-598	MX_DIST		0	0	0		0	0	0	0
AF	178	Salaries & Wages Accounts 581-589	SALWAGDO		0	0	0		0	0	0	0
AF	179	Salaries & Wages Accounts 591-598	SALWAGDM		0	0	0		0	0	0	0
AF	180											
AF	181											
AF	182											
AF	183											
AF	184											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	RETAIL SYSTEM						
ID	NO.		BASIS	Large Comm & Ind	Large Commerical & Industrial	Transmission	Real-Time	> 5,000kW		
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
				CP-U	Secondary	Primary	CP-U Trans	Market Pricing	Light & Power	(z)
				Total	CP-U Sec	CP-U Prim		RTMP	WP-3	
AF	139	ALLOCATION FACTOR TABLE CONTINUED								
AF	140	INTERNALLY DEVELOPED ALLOCATION FACTORS								
AF	141									
AF	142	Production Expense								
AF	143	O&M Exp Prod Oper Accts 502-509,537-539,548,549	OX_PROD		68,384	16,656	10,145	41,583	0	16,633
AF	144	O&M Exp Prod Maint Accts 511-514,542-545,552-554	MX_PROD		201,165	48,996	29,845	122,325	0	48,930
AF	145	Salaries and Wages Production Operation	SALWAGPO		224,152	54,595	33,255	136,302	0	54,521
AF	146	Salaries and Wages Production Maintenance	SALWAGPM		230,109	56,045	34,139	139,925	0	55,970
AF	147									
AF	148	Transmission Expense								
AF	149	O&M Accounts 561-567	OX_TRAN		0	0	0	0	0	0
AF	150	O&M Accounts 569-573	MX_TRAN		0	0	0	0	0	0
AF	151	Salaries & Wages Accounts 561-567	SALWAGTO		0	0	0	0	0	0
AF	152	Salaries & Wages Accounts 569-573	SALWAGTM		0	0	0	0	0	0
AF	153									
AF	154	Regional Market Expens								
AF	155	O&M Accounts 575	OX_RM		0	0	0	0	0	0
AF	156									
AF	157	Distribution Expense								
AF	158	Acct 580-Supervision	OX_580		0	0	0	0	0	0
AF	159	Acct 581-Load Dispatch	OX_581		0	0	0	0	0	0
AF	160	Acct 582-Station Equipment	OX_582		0	0	0	0	0	0
AF	161	Acct 583-Overhead Lines	OX_583		0	0	0	0	0	0
AF	162	Acct 584-Underground Lines	OX_584		0	0	0	0	0	0
AF	163	Acct 585-Street Lighting	OX_585		0	0	0	0	0	0
AF	164	Acct 586-Metering	OX_586		0	0	0	0	0	0
AF	165	Acct 587-Customer Installations	OX_587		0	0	0	0	0	0
AF	166	Acct 588-Miscellaneous	OX_588		0	0	0	0	0	0
AF	167	Acct 589-Rents	OX_589		0	0	0	0	0	0
AF	168	Acct 590-Supervision	MX_590		0	0	0	0	0	0
AF	169	Acct 592-Station Equipment	MX_592		0	0	0	0	0	0
AF	170	Acct 593-Overhead Lines	MX_593		0	0	0	0	0	0
AF	171	Acct 594-Underground Lines	MX_594		0	0	0	0	0	0
AF	172	Acct 595-Transformers	MX_595		0	0	0	0	0	0
AF	173	Acct 596-Street Lighting	MX_596		0	0	0	0	0	0
AF	174	Acct 597-Metering	MX_597		0	0	0	0	0	0
AF	175	Acct 598-Miscellaneous	MX_598		0	0	0	0	0	0
AF	176	O&M Accounts 581-589	OX_DIST		0	0	0	0	0	0
AF	177	O&M Accounts 591-598	MX_DIST		0	0	0	0	0	0
AF	178	Salaries & Wages Accounts 581-589	SALWAGDO		0	0	0	0	0	0
AF	179	Salaries & Wages Accounts 591-598	SALWAGDM		0	0	0	0	0	0
AF	180									
AF	181									
AF	182									
AF	183									
AF	184									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH	LINE	COS Without Minimum System		ALLOCATION	S	S	S	S	S	
ID	NO.	DESCRIPTION		BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
		(a)	(b)		(aa)	(ab)	(ac)	(ad)	(ae)	(af)
										(ag)
										(ah)
AF	139	ALLOCATION FACTOR TABLE CONTINUED								
AF	140	<u>INTERNALLY DEVELOPED ALLOCATION FACTORS</u>								
AF	141									
AF	142	Production Expense								
AF	143	O&M Exp Prod Oper Accts 502-509,537-539,548,549	OX_PROD		256	14	1,043	1,313	327	0
AF	144	O&M Exp Prod Maint Accts 511-514,542-545,552-554	MX_PROD		754	41	3,069	3,864	961	0
AF	145	Salaries and Wages Production Operation	SALWAGPO		840	45	3,420	4,305	1,070	0
AF	146	Salaries and Wages Production Maintenance	SALWAGPM		862	46	3,511	4,419	1,099	0
AF	147									
AF	148	Transmission Expense								
AF	149	O&M Accounts 561-567	OX_TRAN		0	0	0	0	0	0
AF	150	O&M Accounts 569-573	MX_TRAN		0	0	0	0	0	0
AF	151	Salaries & Wages Accounts 561-567	SALWAGTO		0	0	0	0	0	0
AF	152	Salaries & Wages Accounts 569-573	SALWAGTM		0	0	0	0	0	0
AF	153									
AF	154	Regional Market Expens								
AF	155	O&M Accounts 575	OX_RM		0	0	0	0	0	0
AF	156									
AF	157	Distribution Expense								
AF	158	Acct 580-Supervision	OX_580		0	0	0	0	0	0
AF	159	Acct 581-Load Dispatch	OX_581		0	0	0	0	0	0
AF	160	Acct 582-Station Equipment	OX_582		0	0	0	0	0	0
AF	161	Acct 583-Overhead Lines	OX_583		0	0	0	0	0	0
AF	162	Acct 584-Underground Lines	OX_584		0	0	0	0	0	0
AF	163	Acct 585-Street Lighting	OX_585		0	0	0	0	0	0
AF	164	Acct 586-Metering	OX_586		0	0	0	0	0	0
AF	165	Acct 587-Customer Installations	OX_587		0	0	0	0	0	0
AF	166	Acct 588-Miscellaneous	OX_588		0	0	0	0	0	0
AF	167	Acct 589-Rents	OX_589		0	0	0	0	0	0
AF	168	Acct 590-Supervision	MX_590		0	0	0	0	0	0
AF	169	Acct 592-Station Equipment	MX_592		0	0	0	0	0	0
AF	170	Acct 593-Overhead Lines	MX_593		0	0	0	0	0	0
AF	171	Acct 594-Underground Lines	MX_594		0	0	0	0	0	0
AF	172	Acct 595-Transformers	MX_595		0	0	0	0	0	0
AF	173	Acct 596-Street Lighting	MX_596		0	0	0	0	0	0
AF	174	Acct 597-Metering	MX_597		0	0	0	0	0	0
AF	175	Acct 598-Miscellaneous	MX_598		0	0	0	0	0	0
AF	176	O&M Accounts 581-589	OX_DIST		0	0	0	0	0	0
AF	177	O&M Accounts 591-598	MX_DIST		0	0	0	0	0	0
AF	178	Salaries & Wages Accounts 581-589	SALWAGDO		0	0	0	0	0	0
AF	179	Salaries & Wages Accounts 591-598	SALWAGDM		0	0	0	0	0	0
AF	180									
AF	181									
AF	182									
AF	183									
AF	184									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
AF 185		ALLOCATION FACTOR TABLE CONTINUED							
AF 186		INTERNALLY DEVELOPED ALLOCATION FACTORS							
AF 187									
AF 188		Customer Accounting Expense							
AF 189	Account 902	OX_902		281,502	0	0	0	0	0
AF 190	Account 903	OX_903		1,287,997	0	0	0	0	0
AF 191	Account 904	OX_904		327,726	37,977	297	3,249	476	659
AF 192	Accounts 902 & 903	OX_902_3		1,569,499	0	0	0	0	0
AF 193	O&M Accounts 902-905	OX_CA		1,897,225	37,977	297	3,249	476	659
AF 194	Salaries & Wages Accounts 902-905	SALWAGCA		1,569,499	0	0	0	0	0
AF 195									
AF 196		Customer Service Expense							
AF 197	Account908	OX_908		0	0	0	0	0	0
AF 198	Account909	OX_909		474,634	0	0	0	0	0
AF 199	Account910	OX_910		0	0	0	0	0	0
AF 200	O&M Accounts 908-910	OX_CS		1,576,842	0	0	0	0	0
AF 201	Salaries & Wages Accounts 908-910	SALWAGCS		1,576,842	0	0	0	0	0
AF 202									
AF 203	Total Customer Operations Expense	OMXCUST		4,037,589	37,977	297	3,249	476	659
AF 204									
AF 205	Salaries & Wages Excluding Admin & Gen exp	SALWAGXAG		28,653,356	1,947,996	12,159	1,117,038	75,220	431,626
AF 206	Total Salaries and Wages Expense	SALWAGES		34,215,305	2,326,125	14,519	1,333,868	89,821	515,410
AF 207									
AF 208	Total O&M less Fuel and Purchased Power & Acct 904	OMXFPP		59,026,471	3,247,245	20,600	1,911,563	139,440	776,115
AF 209									
AF 210									
AF 211									
AF 212									
AF 213									
AF 214									
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Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
AF	185	ALLOCATION FACTOR TABLE CONTINUED										
AF	186	INTERNALLY DEVELOPED ALLOCATION FACTORS										
AF	187											
AF	188	Customer Accounting Expense										
AF	189	Account 902	OX_902		0	0	0		0	0	0	0
AF	190	Account 903	OX_903		0	0	0		0	0	0	0
AF	191	Account 904	OX_904		34,704	0	3,273		2,478	0	124	407
AF	192	Accounts 902 & 903	OX_902_3		0	0	0		0	0	0	0
AF	193	O&M Accounts 902-905	OX_CA		34,704	0	3,273		2,478	0	124	407
AF	194	Salaries & Wages Accounts 902-905	SALWAGCA		0	0	0		0	0	0	0
AF	195											
AF	196	Customer Service Expense										
AF	197	Account908	OX_908									
AF	198	Account909	OX_909		0	0	0		0	0	0	0
AF	199	Account910	OX_910		0	0	0		0	0	0	0
AF	200	O&M Accounts 908-910	OX_CS		0	0	0		0	0	0	0
AF	201	Salaries & Wages Accounts 908-910	SALWAGCS		0	0	0		0	0	0	0
AF	202											
AF	203	Total Customer Operations Expense	OMXCUST		34,704	0	3,273		2,478	0	124	407
AF	204											
AF	205	Salaries & Wages Excluding Admin & Gen exp	SALWAGXAG		1,773,791	0	174,205		494,599	0	45,307	453,644
AF	206	Total Salaries and Wages Expense	SALWAGES		2,118,105	0	208,020		590,607	0	54,101	541,702
AF	207											
AF	208	Total O&M less Fuel and Purchased Power & Acct 904	OMXFPP		2,956,879	0	290,366		823,668	0	75,738	767,522
AF	209											
AF	210											
AF	211											
AF	212											
AF	213											
AF	214											
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Upper Peninsula Power Company											
Forecasted Cost of Service Allocation Study											
Forecast 12 Month Period ending December 31, 2027											
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM							
COS Without Minimum System				Large Comm & Ind	S	P	Q	T	Q		
SCH	LINE		ALLOCATION	CP-U	Secondary	Primary	Transmission	Real-Time	> 5,000kW		
ID	NO.	DESCRIPTION	BASIS	Total	CP-U Sec	CP-U Prim	CP-U Trans	Market Pricing	Light & Power		
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
AF	185	ALLOCATION FACTOR TABLE CONTINUED									
AF	186	INTERNALLY DEVELOPED ALLOCATION FACTORS									
AF	187										
AF	188	Customer Accounting Expense									
AF	189	Account 902	OX_902		0	0	0	0	0	0	
AF	190	Account 903	OX_903		0	0	0	0	0	0	
AF	191	Account 904	OX_904		1,377	241	476	659	0	0	
AF	192	Accounts 902 & 903	OX_902_3		0	0	0	0	0	0	
AF	193	O&M Accounts 902-905	OX_CA		1,377	241	476	659	0	0	
AF	194	Salaries & Wages Accounts 902-905	SALWAGCA		0	0	0	0	0	0	
AF	195										
AF	196	Customer Service Expense									
AF	197	Account908	OX_908		0						
AF	198	Account909	OX_909		0	0	0	0	0	0	
AF	199	Account910	OX_910		0	0	0	0	0	0	
AF	200	O&M Accounts 908-910	OX_CS		0	0	0	0	0	0	
AF	201	Salaries & Wages Accounts 908-910	SALWAGCS		0	0	0	0	0	0	
AF	202										
AF	203	Total Customer Operations Expense	OMXCUST		1,377	241	476	659	0	0	
AF	204										
AF	205	Salaries & Wages Excluding Admin & Gen exp	SALWAGXAG		507,012	123,488	75,220	308,305	0	123,322	
AF	206	Total Salaries and Wages Expense	SALWAGES		605,429	147,459	89,821	368,150	0	147,260	
AF	207										
AF	208	Total O&M less Fuel and Purchased Power & Acct 904	OMXFPP		911,978	244,635	139,440	527,903	0	248,212	
AF	209										
AF	210										
AF	211										
AF	212										
AF	213										
AF	214										
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Upper Peninsula Power Company										
Forecasted Cost of Service Allocation Study										
Forecast 12 Month Period ending December 31, 2027										
RETAIL SYSTEM										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	S	S	S	Street	S	S	
ID	NO.		BASIS	Street	Street Light	Street	Lighting	Integrated	Iron River	
		(a)	(b)	Lighting	(Closed)	Lighting	Total	OSL	OSL	
				SL-3	SL-5	SL-6		Z-3	Z-4	(ag) (ah)
AF	185	ALLOCATION FACTOR TABLE CONTINUED								
AF	186	INTERNALLY DEVELOPED ALLOCATION FACTORS								
AF	187									
AF	188	Customer Accounting Expense								
AF	189	Account 902	OX_902	0	0	0	0	0	0	
AF	190	Account 903	OX_903	0	0	0	0	0	0	
AF	191	Account 904	OX_904	0	0	0	0	297	0	
AF	192	Accounts 902 & 903	OX_902_3	0	0	0	0	0	0	
AF	193	O&M Accounts 902-905	OX_CA	0	0	0	0	297	0	
AF	194	Salaries & Wages Accounts 902-905	SALWAGCA	0	0	0	0	0	0	
AF	195									
AF	196	Customer Service Expense								
AF	197	Account908	OX_908					0		
AF	198	Account909	OX_909	0	0	0	0	0	0	
AF	199	Account910	OX_910	0	0	0	0	0	0	
AF	200	O&M Accounts 908-910	OX_CS	0	0	0	0	0	0	
AF	201	Salaries & Wages Accounts 908-910	SALWAGCS	0	0	0	0	0	0	
AF	202									
AF	203	Total Customer Operations Expense	OMXCUST	0	0	0	0	297	0	
AF	204									
AF	205	Salaries & Wages Excluding Admin & Gen exp	SALWAGXAG	1,900	102	7,735	9,738	2,421	0	
AF	206	Total Salaries and Wages Expense	SALWAGES	2,269	122	9,237	11,628	2,891	0	
AF	207									
AF	208	Total O&M less Fuel and Purchased Power & Acct 904	OMXFPP	3,197	173	13,134	16,503	4,097	0	
AF	209									
AF	210									
AF	211									
AF	212									
AF	213									
AF	214									
AF	215									
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AF	230									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT

COS Without Minimum System			INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	
SCH	LINE	DESCRIPTION	ALLOCATION	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
ID	NO.		BASIS	SYSTEM			SECONDARY	PRIMARY	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
									(i)
AF	231	REVENUES AND BILLING DETERMINANTS							
AF	232								
AF	233	Sales of Electricity Revenue - Present	SALESREV	128,122,723	8,965,384	59,062	5,942,507	(126,009)	2,125,985
AF	234	Present Rate Sales Revenue	CLAIMREV	145,380,225	10,345,466	65,043	5,979,877	407,912	2,349,569
AF	235								
AF	236								
AF	237	Residential A-1 Sales Revenue	SREVRA1	221,863,850	28,793,232	0	0	0	0
AF	238	Residential A-2 Sales Revenue	SREVRA2	0	0	0	0	0	0
AF	239	Residential AH-1 Sales Revenue	SREVRAH1	24,127,007	2,827,749	0	0	0	0
AF	240	General Service C1 Sales Revenue	SREVGSC1	66,062,170	0	0	8,027,330	0	0
AF	241	General Service C2 Sales Revenue	SREVGSC2	0	0	0	0	0	0
AF	242	Commercial Heating H-1 Sales Revenue	SREVCH1	5,868,407	0	0	735,783	0	0
AF	243	Light and Power P-1 Sales Revenue	SREVLPP1	30,399,125	0	0	7,381,715	0	0
AF	244	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCSIC	23,320,692	0	0	2,065,928	0	0
AF	245	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCPRI	3,006,463	0	0	0	1,243,252	0
AF	246	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCTRAN	16,403,596	0	0	0	0	5,026,690
AF	247	Real Time Market Pricing Sales Revenue	SREVRTMP	135,250	0	0	0	0	0
AF	248	Light and Power WP-3 Sales Revenue	SREVLWPP3	8,506,878	0	0	0	0	2,069,327
AF	249	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	642,139	0	30,891	0	0	0
AF	250	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	33,950	0	1,662	0	0	0
AF	251	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	2,688,902	0	125,943	0	0	0
AF	252	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3	440,063	0	39,397	0	0	0
AF	253	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4	65,522	0	0	0	0	0
AF	254	Total Rate Base		403,564,016	31,620,981	197,894	0	1,243,252	7,096,017
AF	255								
AF	256								
AF	257	PRESENT REVENUES FROM SALES INPUT							
AF	258								
AF	259	Total Sales of Electricity Revenues		128,122,723	71,105,776	890,816	41,498,244	935,918	13,691,969
AF	260	Sales of Electricity Revenues Excl Cost of Gas (Present)		128,122,723	71,105,776	890,816	41,498,244	935,918	13,691,969
AF	261								
AF	262								
AF	263	BILLING DETERMINANT INPUTS							
AF	264	Number of Customer Bills	SCH , LN	646,060	573,571	838	71,567	84	0
AF	265	Annual kWh Sales @ Meter	SCH , LN	696,608,428	252,662,632	2,188,500	236,043,802	37,036,842	168,676,652
AF	266	Annual kW - Billed		1,282,946	0	0	465,236	50,116	767,594
AF	267								
AF	268								
AF	269	RATE OF RETURN							
AF	270	Rate of Return (Equalized)	SCH , LN	6.71%	6.71%	6.71%	6.71%	6.71%	6.71%
AF	271								
AF	272								
AF	273								
AF	274								
AF	275								
AF	276								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
AF	231	REVENUES AND BILLING DETERMINANTS										
AF	232											
AF	233	Sales of Electricity Revenue - Present	SALESREV		8,350,331	0	615,053		2,330,053	0	167,509	3,078,782
AF	234	Present Rate Sales Revenue	CLAIMREV		9,422,917	0	922,548		2,619,466	0	239,561	2,426,618
AF	235											
AF	236											
AF	237	Residential A-1 Sales Revenue	SREVRA1		28,793,232	0	0		0	0	0	0
AF	238	Residential A-2 Sales Revenue	SREVRA2		0	0	0		0	0	0	0
AF	239	Residential AH-1 Sales Revenue	SREVRAH1		0	0	2,827,749		0	0	0	0
AF	240	General Service C1 Sales Revenue	SREVGSC1		0	0	0		8,027,330	0	0	0
AF	241	General Service C2 Sales Revenue	SREVGSC2		0	0	0		0	0	0	0
AF	242	Commercial Heating H-1 Sales Revenue	SREVCH1		0	0	0		0	0	735,783	0
AF	243	Light and Power P-1 Sales Revenue	SREVLPP1		0	0	0		0	0	0	7,381,715
AF	244	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCISEC		0	0	0		0	0	0	0
AF	245	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCIPRI		0	0	0		0	0	0	0
AF	246	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCITRAN		0	0	0		0	0	0	0
AF	247	Real Time Market Pricing Sales Revenue	SREVRTMP		0	0	0		0	0	0	0
AF	248	Light and Power WP-3 Sales Revenue	SREVLPPWP3		0	0	0		0	0	0	0
AF	249	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3		0	0	0		0	0	0	0
AF	250	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5		0	0	0		0	0	0	0
AF	251	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6		0	0	0		0	0	0	0
AF	252	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3		0	0	0		0	0	0	0
AF	253	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4		0	0	0		0	0	0	0
AF	254	Total Rate Base										
AF	255											
AF	256											
AF	257	PRESENT REVENUES FROM SALES INPUT										
AF	258											
AF	259	Total Sales of Electricity Revenues			65,965,704	0	5,140,072		18,534,075	0	1,315,422	15,047,810
AF	260	Sales of Electricity Revenues Excl Cost of Gas (Present)			65,965,704	0	5,140,072		18,534,075	0	1,315,422	15,047,810
AF	261											
AF	262											
AF	263	BILLING DETERMINANT INPUTS										
AF	264	Number of Customer Bills	SCH , LN		540,715	-	32,856		62,266	-	2,409	6,332
AF	265	Annual kWh Sales @ Meter	SCH , LN		230,118,977	0	22,543,655		62,655,982	0	6,268,674	79,673,221
AF	266	Annual kW - Billed			0	0	0		0	0	0	340,527
AF	267											
AF	268											
AF	269	RATE OF RETURN										
AF	270	Rate of Return (Equalized)	SCH , LN		6.71%	6.71%	6.71%		6.71%	6.71%	6.71%	6.71%
AF	271											
AF	272											
AF	273											
AF	274											
AF	275											
AF	276											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	Large Comm & Ind	Large Commercial & Industrial	Transmission	Real-Time	Light & Power		
ID	NO.		BASIS	CP-U	Secondary	Primary	Market Pricing	WP-3		
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
				(z)						
AF	231	REVENUES AND BILLING DETERMINANTS								
AF	232									
AF	233	Sales of Electricity Revenue - Present	SALESREV		1,649,382	366,164	(126,009)	1,409,227	0	716,758
AF	234	Present Rate Sales Revenue	CLAIMREV		2,749,655	694,232	407,912	1,647,511	0	702,058
AF	235									
AF	236									
AF	237	Residential A-1 Sales Revenue	SREVRA1		0	0	0	0	0	0
AF	238	Residential A-2 Sales Revenue	SREVRA2		0	0	0	0	0	0
AF	239	Residential AH-1 Sales Revenue	SREVRAH1		0	0	0	0	0	0
AF	240	General Service C1 Sales Revenue	SREVGSC1		0	0	0	0	0	0
AF	241	General Service C2 Sales Revenue	SREVGSC2		0	0	0	0	0	0
AF	242	Commercial Heating H-1 Sales Revenue	SREVCH1		0	0	0	0	0	0
AF	243	Light and Power P-1 Sales Revenue	SREVLPP1		0	0	0	0	0	0
AF	244	Large Commercial & Indust CP-U Sec Sales Rev	SREVLICISEC		2,065,928	2,065,928	0	0	0	0
AF	245	Large Commercial & Indust CP-U Prim Sales Rev	SREVLICIPRI		1,243,252	0	1,243,252	0	0	0
AF	246	Large Commercial & Indust CP-U Trans Sales Rev	SREVLICITRAN		5,026,690	0	0	5,026,690	0	0
AF	247	Real Time Market Pricing Sales Revenue	SREVRTMP		0	0	0	0	0	0
AF	248	Light and Power WP-3 Sales Revenue	SREVLWP3		0	0	0	0	0	2,069,327
AF	249	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3		0	0	0	0	0	0
AF	250	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5		0	0	0	0	0	0
AF	251	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6		0	0	0	0	0	0
AF	252	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSL3		0	0	0	0	0	0
AF	253	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSL4		0	0	0	0	0	0
AF	254	Total Rate Base			8,335,871					
AF	255									
AF	256									
AF	257	PRESENT REVENUES FROM SALES INPUT								
AF	258									
AF	259	Total Sales of Electricity Revenues			14,663,435	6,600,937	935,918	7,126,580	246,905	6,318,484
AF	260	Sales of Electricity Revenues Excl Cost of Gas (Present)			14,663,435	6,600,937	935,918	7,126,580	246,905	6,318,484
AF	261									
AF	262				11,763,943					
AF	263	BILLING DETERMINANT INPUTS								
AF	264	Number of Customer Bills	SCH , LN		644	560	84	-	-	-
AF	265	Annual kWh Sales @ Meter	SCH , LN		193,659,622	87,445,925	37,036,842	69,176,855	0	99,499,797
AF	266	Annual kW - Billed			336,591	124,709	50,116	161,766	413,118	192,710
AF	267									
AF	268									
AF	269	RATE OF RETURN								
AF	270	Rate of Return (Equalized)	SCH , LN		6.71%	6.71%	6.71%	6.71%	6.71%	6.71%
AF	271									
AF	272									
AF	273									
AF	274									
AF	275									
AF	276									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	S Street Lighting SL-3	S Street Light (Closed) SL-5	S Street Lighting SL-6	Street Lighting Total	S Integrated OSL Z-3	S Iron River OSL Z-4	
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag) (ah)
AF	231	REVENUES AND BILLING DETERMINANTS								
AF	232									
AF	233	Sales of Electricity Revenue - Present	SALESREV	6,019	665	40,749	47,432	11,630	0	
AF	234	Present Rate Sales Revenue	CLAIMREV	10,051	546	41,267	51,864	13,179	0	
AF	235									
AF	236									
AF	237	Residential A-1 Sales Revenue	SREVRA1	0	0	0	0	0	0	
AF	238	Residential A-2 Sales Revenue	SREVRA2	0	0	0	0	0	0	
AF	239	Residential AH-1 Sales Revenue	SREVRAH1	0	0	0	0	0	0	
AF	240	General Service C1 Sales Revenue	SREVGSC1	0	0	0	0	0	0	
AF	241	General Service C2 Sales Revenue	SREVGSC2	0	0	0	0	0	0	
AF	242	Commercial Heating H-1 Sales Revenue	SREVCH1	0	0	0	0	0	0	
AF	243	Light and Power P-1 Sales Revenue	SREVLPP1	0	0	0	0	0	0	
AF	244	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCESEC	0	0	0	0	0	0	
AF	245	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCIPRI	0	0	0	0	0	0	
AF	246	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCITRAN	0	0	0	0	0	0	
AF	247	Real Time Market Pricing Sales Revenue	SREVRTMP	0	0	0	0	0	0	
AF	248	Light and Power WP-3 Sales Revenue	SREVLPPWP3	0	0	0	0	0	0	
AF	249	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	30,891	0	0	30,891	0	0	
AF	250	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	0	1,662	0	1,662	0	0	
AF	251	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	0	0	125,943	125,943	0	0	
AF	252	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3	0	0	0	0	39,397	0	
AF	253	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4	0	0	0	0	0	0	
AF	254	Total Rate Base					158,496			
AF	255									
AF	256									
AF	257	<u>PRESENT REVENUES FROM SALES INPUT</u>								
AF	258									
AF	259	Total Sales of Electricity Revenues		74,007	10,740	624,851	709,598	181,217	0	
AF	260	Sales of Electricity Revenues Excl Cost of Gas (Present)		74,007	10,740	624,851	709,598	181,217	0	
AF	261									
AF	262									
AF	263	<u>BILLING DETERMINANT INPUTS</u>								
AF	264	Number of Customer Bills	SCH , LN	838	-	-	838	-	-	
AF	265	Annual kWh Sales @ Meter	SCH , LN	300,197	17,636	1,443,634	1,761,467	427,033	0	
AF	266	Annual kW - Billed		0	0	0	0	0	0	
AF	267									
AF	268									
AF	269	<u>RATE OF RETURN</u>								
AF	270	Rate of Return (Equalized)	SCH , LN	6.71%	6.71%	6.71%	6.71%	6.71%	6.71%	
AF	271									
AF	272									
AF	273									
AF	274									
AF	275									
AF	276									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
COS Without Minimum System										
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
AP	1	ALLOCATION FACTOR PROPORTIONS TABLE								
AP	2									
AP	3	ENERGY - PRODUCTION RELATED								
AP	4	Energy @ Meter (kWh Sales with RTMP)	ENERGY3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	5	Energy @ Meter (kWh Sales)	ENERGY2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	6	Energy @ Generation with losses(kWh)	ENERGY1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	7	Energy @ Generation with losses (kWh)	ENEFUEL	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	8									
AP	9	Energy - RTMP	ERTMP	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	10									
AP	11									
AP	12	DEMAND								
AP	13	DEMAND - PRODUCTION RELATED								
AP	14	Demand Production (12CP 75% & Energy 25%)	DPROD	1.00000	0.54352	0.00339	0.31167	0.02099	0.12043	
AP	15									
AP	16									
AP	17	Production Load Dispatching (Average Demand)	DPRODLD	1.00000	0.36790	0.00319	0.34370	0.05189	0.23332	
AP	18	Purchased Capacity (1CP Firm Load Only)	DPURCH	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	19									
AP	20	DEMAND - TRANSMISSION RELATED								
AP	21	Demand Transmission (12CP no AES or RTMP)	DTRAN	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	22	Demand Transmission (12CP no AES)	DTRAN3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	23	Transmission Load Dispatching (Average Demand)	DTRANLD	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	24									
AP	25	DEMAND - DISTRIBUTION RELATED								
AP	26	Demand Distribution Primary Substation (12 CP)	DDISPSUB	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	27									
AP	28	Demand Distribution Primary Lines (NCP)	DDISTPRI	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	29									
AP	30	Demand Distribution Secondary Lines (NCP)	DDISTSEC	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	31									
AP	32	Demand Distribution Line Transformers (NCP)	DDISTSLT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	33	Distribution Load Dispatching	DDISTLD	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	34									
AP	35	Minimum System - Demand Allocation Factors								
AP	36	Primary								
AP	37	kW Capability of Minimum		64.00%						
AP	38	NCP * kW Capability Minimum		137,495						
AP	39	Dist Pri Min kW Allocated on Number of Primary Custom								
AP	40	Adj Dist Pri (Ln 26) less Alloc Min kW Cap (Ln 37)	DDISTPRIMS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	41	Secondary								
AP	42	Demand Distribution Secondary Lines (NCP)								
AP	43	Demand Adjustment								
AP	44	Adjusted Demand Distribution Primary Lines (NCP)	DDISTSECMS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	#REF!	#REF!								
AP	#REF!	#REF!								
AP	45									
AP	46									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
AP	1	ALLOCATION FACTOR PROPORTIONS TABLE										
AP	2											
AP	3	ENERGY - PRODUCTION RELATED										
AP	4	Energy @ Meter (kWh Sales with RTMP)	ENERGY3		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	5	Energy @ Meter (kWh Sales)	ENERGY2		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	6	Energy @ Generation with losses(kWh)	ENERGY1		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	7	Energy @ Generation with losses (kWh)	ENEFUEL		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	8											
AP	9	Energy - RTMP	ERTMP		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	10											
AP	11											
AP	12	DEMAND										
AP	13	DEMAND - PRODUCTION RELATED										
AP	14	Demand Production (12CP 75% & Energy 25%)	DPROD		0.49491	0.00000	0.04861		0.13800	0.00000	0.01264	0.12657
AP	15											
AP	16											
AP	17	Production Load Dispatching (Average Demand)	DPRODLD		0.33507	0.00000	0.03283		0.09123	0.00000	0.00913	0.11601
AP	18	Purchased Capacity (1CP Firm Load Only)	DPURCH		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	19											
AP	20	DEMAND - TRANSMISSION RELATED										
AP	21	Demand Transmission (12CP no AES or RTMP)	DTRAN		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	22	Demand Transmission (12CP no AES)	DTRAN3		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	23	Transmission Load Dispatching (Average Demand)	DTRANLD		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	24											
AP	25	DEMAND - DISTRIBUTION RELATED										
AP	26	Demand Distribution Primary Substation (12 CP)	DDISPSUB		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	27											
AP	28	Demand Distribution Primary Lines (NCP)	DDISTPRI		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	29											
AP	30	Demand Distribution Secondary Lines (NCP)	DDISTSEC		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	31											
AP	32	Demand Distribution Line Transformers (NCP)	DDISTSLT		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	33	Distribution Load Dispatching	DDISTLD		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	34											
AP	35	Minimum System - Demand Allocation Factors										
AP	36	Primary										
AP	37	kW Capability of Minimum		64.00%								
AP	38	NCP * kW Capability Minimum		137,495								
AP	39	Dist Pri Min kW Allocated on Number of Primary Custom										
AP	40	Adj Dist Pri (Ln 26) less Alloc Min kW Cap (Ln 37)	DDISTPRIMS		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	41	Secondary										
AP	42	Demand Distribution Secondary Lines (NCP)										
AP	43	Demand Adjustment										
AP	44	Adjusted Demand Distribution Primary Lines (NCP)	DDISTSECMS		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	#REF!	#REF!										
AP	#REF!	#REF!										
AP	45											
AP	46											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	RETAIL SYSTEM						
ID	NO.		BASIS	Large Comm & Ind	Large Commercial & Industrial	Transmission	Real-Time	Light & Power		
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
					CP-U	Secondary	Primary	CP-U Trans	Market Pricing	> 5,000kW
					Total	CP-U Sec	CP-U Prim		RTMP	WP-3
AP	1	ALLOCATION FACTOR PROPORTIONS TABLE								
AP	2									
AP	3	ENERGY - PRODUCTION RELATED								
AP	4	Energy @ Meter (kWh Sales with RTMP)	ENERGY3		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	5	Energy @ Meter (kWh Sales)	ENERGY2		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	6	Energy @ Generation with losses(kWh)	ENERGY1		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	7	Energy @ Generation with losses (kWh)	ENEFUEL		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	8									
AP	9	Energy - RTMP	ERTMP		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	10									
AP	11									
AP	12	DEMAND								
AP	13	DEMAND - PRODUCTION RELATED								
AP	14	Demand Production (12CP 75% & Energy 25%)	DPROD		0.14146	0.03446	0.02099	0.08602	0.00000	0.03441
AP	15									
AP	16									
AP	17	Production Load Dispatching (Average Demand)	DPROLD		0.27491	0.12733	0.05189	0.09569	0.00000	0.13763
AP	18	Purchased Capacity (1CP Firm Load Only)	DPURCH		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	19									
AP	20	DEMAND - TRANSMISSION RELATED								
AP	21	Demand Transmission (12CP no AES or RTMP)	DTRAN		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	22	Demand Transmission (12CP no AES)	DTRAN3		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	23	Transmission Load Dispatching (Average Demand)	DTRANLD		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	24									
AP	25	DEMAND - DISTRIBUTION RELATED								
AP	26	Demand Distribution Primary Substation (12 CP)	DDISPSUB		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	27									
AP	28	Demand Distribution Primary Lines (NCP)	DDISTPRI		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	29									
AP	30	Demand Distribution Secondary Lines (NCP)	DDISTSEC		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	31									
AP	32	Demand Distribution Line Transformers (NCP)	DDISTSLT		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	33	Distribution Load Dispatching	DDISTLD		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	34									
AP	35	Minimum System - Demand Allocation Factors								
AP	36	Primary								
AP	37	kW Capability of Minimum		64.00%						
AP	38	NCP * kW Capability Minimum		137,495						
AP	39	Dist Pri Min kW Allocated on Number of Primary Custom								
AP	40	Adj Dist Pri (Ln 26) less Alloc Min kW Cap (Ln 37)	DDISTPRIMS		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	41	Secondary								
AP	42	Demand Distribution Secondary Lines (NCP)								
AP	43	Demand Adjustment								
AP	44	Adjusted Demand Distribution Primary Lines (NCP)	DDISTSECMS		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	#REF!	#REF!								
AP	#REF!	#REF!								
AP	45									
AP	46									

Upper Peninsula Power Company										
Forecasted Cost of Service Allocation Study										
Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
COS Without Minimum System				S	S	S		S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4	
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag) (ah)
AP	1	ALLOCATION FACTOR PROPORTIONS TABLE								
AP	2									
AP	3	ENERGY - PRODUCTION RELATED								
AP	4	Energy @ Meter (kWh Sales with RTMP)	ENERGY3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	5	Energy @ Meter (kWh Sales)	ENERGY2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	6	Energy @ Generation with losses(kWh)	ENERGY1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	7	Energy @ Generation with losses (kWh)	ENEFUEL	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	8									
AP	9	Energy - RTMP	ERTMP	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	10									
AP	11									
AP	12	DEMAND								
AP	13	DEMAND - PRODUCTION RELATED								
AP	14	Demand Production (12CP 75% & Energy 25%)	DPROD	0.00053	0.00003	0.00216	0.00272	0.00068	0.00000	
AP	15									
AP	16									
AP	17	Production Load Dispatching (Average Demand)	DPRODLD	0.00044	0.00003	0.00210	0.00256	0.00062	0.00000	
AP	18	Purchased Capacity (1CP Firm Load Only)	DPURCH	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	19									
AP	20	DEMAND - TRANSMISSION RELATED								
AP	21	Demand Transmission (12CP no AES or RTMP)	DTRAN	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	22	Demand Transmission (12CP no AES)	DTRAN3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	23	Transmission Load Dispatching (Average Demand)	DTRANLD	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	24									
AP	25	DEMAND - DISTRIBUTION RELATED								
AP	26	Demand Distribution Primary Substation (12 CP)	DDISPSUB	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	27									
AP	28	Demand Distribution Primary Lines (NCP)	DDISTPRI	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	29									
AP	30	Demand Distribution Secondary Lines (NCP)	DDISTSEC	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	31									
AP	32	Demand Distribution Line Transformers (NCP)	DDISTSLT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	33	Distribution Load Dispatching	DDISTLD	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	34									
AP	35	Minimum System - Demand Allocation Factors								
AP	36	Primary								
AP	37	kW Capability of Minimum		64.00%						
AP	38	NCP * kW Capability Minimum		137,495						
AP	39	Dist Pri Min kW Allocated on Number of Primary Custom								
AP	40	Adj Dist Pri (Ln 26) less Alloc Min kW Cap (Ln 37)	DDISTPRIMS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	41	Secondary								
AP	42	Demand Distribution Secondary Lines (NCP)								
AP	43	Demand Adjustment								
AP	44	Adjusted Demand Distribution Primary Lines (NCP)	DDISTSECMS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	#REF!	#REF!								
AP	#REF!	#REF!								
AP	45									
AP	46									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

SCH		COS Without Minimum System		ALLOCATION		INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
ID	LINE	NO.	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION	
			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
AP	47		ALLOCATION PROPORTIONS TABLE CONTINUED								
AP	48										
AP	49		<u>CUSTOMER</u>								
AP	50										
AP	51		Minimum System - Customer Allocation Factors								
AP	52		Primary								
AP	53		Number of Primary Customers - MS	CDISTPRI	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	54		Secondary								
AP	55		Number of Secondary Customers								
AP	56		Residential Customer Adjustment								
AP	57		Adjusted Number of Secondary Customers - MS	CDISTSEC	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	58		Line Transformers								
AP	59		Number of Line Transformer Customers								
AP	60		Line Transformer Adjustment								
AP	61		Adjusted Number of Secondary Customers 368 - MS	CDISTSLT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	62										
AP	63										
AP	64		369-Service Investment (Replacement Costs)	CSERVICE	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	65		370-Meters (New Meter Cost)	CMETERS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	66										
AP	67		371-Installation on Customer Premises	CUSTPREM	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	68		373-Street Lighting & Signal Systems	CLIGHT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	69										
AP	70		Customer Deposits (Number of Customers)	CUSTDEP	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	71										
AP	72		902-Meter Reading (Number of Customers)	CMETRDG	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	73		903-Customer Records & Collections (Bills)	CUSTREC	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	74										
AP	75		905, 908-916 - Customer Service and Sales Composite								
AP	76		50% Energy @ Meter		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	77		50% Number of Customers		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	78		905, 908-916 - Customer Service and Sales	CUSTCSS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	79										
AP	80										
AP	81										
AP	82		Number of Total Bills	CUSTBILLS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	83		Number of Customers (Average Annual)	CUST	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	84		Number of Services (Customers)	CSERV	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	85										
AP	86										
AP	87										
AP	88										
AP	89										
AP	90										
AP	91										
AP	92										

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
AP	47	ALLOCATION PROPORTIONS TABLE CONTINUED										
AP	48											
AP	49	CUSTOMER										
AP	50											
AP	51	Minimum System - Customer Allocation Factors										
AP	52	Primary										
AP	53	Number of Primary Customers - MS	CDISTPRI		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	54	Secondary										
AP	55	Number of Secondary Customers										
AP	56	Residential Customer Adjustment										
AP	57	Adjusted Number of Secondary Customers - MS	CDISTSEC		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	58	Line Transformers										
AP	59	Number of Line Transformer Customers										
AP	60	Line Transformer Adjustment										
AP	61	Adjusted Number of Secondary Customers 368 - MS	CDISTSLT		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	62											
AP	63											
AP	64	369-Service Investment (Replacement Costs)	CSERVICE		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	65	370-Meters (New Meter Cost)	CMETERS		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	66											
AP	67	371-Installation on Customer Premises	CUSTPREM		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	68	373-Street Lighting & Signal Systems	CLIGHT		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	69											
AP	70	Customer Deposits (Number of Customers)	CUSTDEP		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	71											
AP	72	902-Meter Reading (Number of Customers)	CMETRDG		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	73	903-Customer Records & Collections (Bills)	CUSTREC		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	74											
AP	75	905, 908-916 - Customer Service and Sales Composite										
AP	76	50% Energy @ Meter			0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	77	50% Number of Customers			0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	78	905, 908-916 - Customer Service and Sales	CUSTCSS		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	79											
AP	80											
AP	81											
AP	82	Number of Total Bills	CUSTBILLS		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	83	Number of Customers (Average Annual)	CUST		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	84	Number of Services (Customers)	CSERV		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	85											
AP	86											
AP	87											
AP	88											
AP	89											
AP	90											
AP	91											
AP	92											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027 RETAIL SYSTEM										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION BASIS	Large Comm & Ind	Secondary	Large Commercial & Industrial	Transmission	Real-Time	Q	
ID	NO.			CP-U	CP-U Sec	Primary	CP-U Trans	Market Pricing	> 5,000kW	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
				(z)						
AP	47	ALLOCATION PROPORTIONS TABLE CONTINUED								
AP	48									
AP	49	<u>CUSTOMER</u>								
AP	50									
AP	51	Minimum System - Customer Allocation Factors								
AP	52	Primary								
AP	53	Number of Primary Customers - MS	CDISTPRI		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	54	Secondary								
AP	55	Number of Secondary Customers								
AP	56	Residential Customer Adjustment								
AP	57	Adjusted Number of Secondary Customers - MS	CDISTSEC		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	58	Line Transformers								
AP	59	Number of Line Transformer Customers								
AP	60	Line Transformer Adjustment								
AP	61	Adjusted Number of Secondary Customers 368 - MS	CDISTSLT		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	62									
AP	63									
AP	64	369-Service Investment (Replacement Costs)	CSERVICE		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	65	370-Meters (New Meter Cost)	CMETERS		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	66									
AP	67	371-Installation on Customer Premises	CUSTPREM		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	68	373-Street Lighting & Signal Systems	CLIGHT		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	69									
AP	70	Customer Deposits (Number of Customers)	CUSTDEP		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	71									
AP	72	902-Meter Reading (Number of Customers)	CMETRDG		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	73	903-Customer Records & Collections (Bills)	CUSTREC		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	74									
AP	75	905, 908-916 - Customer Service and Sales Composite								
AP	76	50% Energy @ Meter			0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	77	50% Number of Customers			0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	78	905, 908-916 - Customer Service and Sales	CUSTCSS		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	79									
AP	80									
AP	81									
AP	82	Number of Total Bills	CUSTBILLS		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	83	Number of Customers (Average Annual)	CUST		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	84	Number of Services (Customers)	CSERV		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	85									
AP	86									
AP	87									
AP	88									
AP	89									
AP	90									
AP	91									
AP	92									

PRODUCTION DEMAND COMPONENT				Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027								
COS Without Minimum System				RETAIL SYSTEM								
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	S Street Lighting SL-3	S Street Light (Closed) SL-5	S Street Lighting SL-6	Street Lighting Total	S Integrated OSL Z-3	S Iron River OSL Z-4			
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)	(ah)	
AP	47	ALLOCATION PROPORTIONS TABLE CONTINUED										
AP	48											
AP	49	<u>CUSTOMER</u>										
AP	50											
AP	51	Minimum System - Customer Allocation Factors										
AP	52	Primary										
AP	53	Number of Primary Customers - MS	CDISTPRI	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	54	Secondary										
AP	55	Number of Secondary Customers										
AP	56	Residential Customer Adjustment										
AP	57	Adjusted Number of Secondary Customers - MS	CDISTSEC	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	58	Line Transformers										
AP	59	Number of Line Transformer Customers										
AP	60	Line Transformer Adjustment										
AP	61	Adjusted Number of Secondary Customers 368 - MS	CDISTSLT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	62											
AP	63											
AP	64	369-Service Investment (Replacement Costs)	CSERVICE	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	65	370-Meters (New Meter Cost)	CMETERS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	66											
AP	67	371-Installation on Customer Premises	CUSTPREM	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	68	373-Street Lighting & Signal Systems	CLIGHT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	69											
AP	70	Customer Deposits (Number of Customers)	CUSTDEP	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	71											
AP	72	902-Meter Reading (Number of Customers)	CMETRDG	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	73	903-Customer Records & Collections (Bills)	CUSTREC	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	74											
AP	75	905, 908-916 - Customer Service and Sales Composite										
AP	76	50% Energy @ Meter		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	77	50% Number of Customers		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	78	905, 908-916 - Customer Service and Sales	CUSTCSS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	79											
AP	80											
AP	81											
AP	82	Number of Total Bills	CUSTBILLS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	83	Number of Customers (Average Annual)	CUST	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	84	Number of Services (Customers)	CSERV	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	85											
AP	86											
AP	87											
AP	88											
AP	89											
AP	90											
AP	91											
AP	92											

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT

COS Without Minimum System		ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERCIAL SECONDARY	TOTAL COMMERCIAL PRIMARY	TOTAL TRANSMISSION	
SCH ID	LINE NO.	DESCRIPTION							
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
AP	93	ALLOCATION PROPORTIONS TABLE CONTINUED							
AP	94	INTERNALLY DEVELOPED ALLOCATION FACTORS							
AP	95								
AP	96	Plant							
AP	97	Intangible Plant In Service	INTPLT	0.27309	0.14843	0.00093	0.08512	0.00573	0.03289
AP	98	Production Plant In Service	PRODPLT	1.00000	0.54352	0.00339	0.31167	0.02099	0.12043
AP	99	Transmission Plant in Service	TRANPLT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	100	Distribution Plant in Service	DISTPLT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	101	General Plant in Service	GENLPLT	0.12508	0.06798	0.00042	0.03898	0.00263	0.01506
AP	102	Intangible and General Plant in Service	INTGENLPLT	0.13351	0.07256	0.00045	0.04161	0.00280	0.01608
AP	103	Total Transmission and Distribution Plant	TDPLT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	104	Prod, Trans, and Distr Plant in Service	PTDPLT	0.27309	0.14843	0.00093	0.08512	0.00573	0.03289
AP	105	Total Electric Plant In Service	TOTPLT	0.24638	0.13391	0.00084	0.07679	0.00517	0.02967
AP	106	Net Electric Plant In Service	NETPLT	0.14560	0.07914	0.00049	0.04538	0.00306	0.01753
AP	107	Rate Base	RATEBASE	0.14463	0.07835	0.00049	0.04512	0.00308	0.01758
AP	108								
AP	109								
AP	110								
AP	111								
AP	112								
AP	113								
AP	114								
AP	115	Distribution Plant in Service							
AP	116	Acct 360-Land and Land Rights	PLT_360	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	117	Acct 361-Structures & Improvements	PLT_361	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	118	Acct 362-Station Equipment	PLT_362	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	119	Acct 364-Towers and Fixtures	PLT_364	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	120	Acct 365-Overhead Conductors & Devices	PLT_365	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	121	Acct 366-Underground Conduit	PLT_366	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	122	Acct 367 - Underground Conductor	PLT_367	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	123	Acct 368-Line Transformers	PLT_368	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	124	Acct 369-Services	PLT_369	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	125	Acct 370-Meters	PLT_370	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	126	Acct 371-Inst. on Customer Premises	PLT_371	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	127	Acct 373-Street Lighting / Signal Systems	PLT_373	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	128	Distribution Overhead Lines Plant Accts 364 & 365	OHDIST	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	129	Distribution Underground Lines Plant Accts 366 & 367	UGDIST	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	130	Accounts 371&373	PLT_3713	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	131								
AP	132	Accts 360-362-Distribution Substation	PLT_SUB	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	133	Accts 364 thru 367-Distribution Primary	PLT_DPRI	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	134	Accts 364 thru 367-Distribution Secondary	PLT_DSEC	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	135								
AP	136								
AP	137								
AP	138								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027									
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM					
COS Without Minimum System				S Integrated Retail	S Iron River	S Res. Heating	S General Service	S General Service	S Commercial
SCH	LINE	DESCRIPTION	ALLOCATION	Residential	Residential	AH-1	C-1	C-2	Heating
ID	NO.	(a)	BASIS	A-1	A-2	(m)	(n)	(o)	(p)
		(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)
		(r)							
AP	93	ALLOCATION PROPORTIONS TABLE CONTINUED							
AP	94	INTERNALLY DEVELOPED ALLOCATION FACTORS							
AP	95								
AP	96	Plant							
AP	97	Intangible Plant In Service	INTPLT	0.13516	0.00000	0.01327	0.03769	0.00000	0.00345
AP	98	Production Plant In Service	PRODPLT	0.49491	0.00000	0.04861	0.13800	0.00000	0.01264
AP	99	Transmission Plant in Service	TRANPLT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	100	Distribution Plant in Service	DISTPLT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	101	General Plant in Service	GENPLT	0.06191	0.00000	0.00608	0.01726	0.00000	0.00158
AP	102	Intangible and General Plant in Service	INTGENPLT	0.08607	0.00000	0.00649	0.01842	0.00000	0.00169
AP	103	Total Transmission and Distribution Plant	TDPLT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	104	Prod, Trans, and Distr Plant in Service	PTDPLT	0.13516	0.00000	0.01327	0.03769	0.00000	0.00345
AP	105	Total Electric Plant In Service	TOTPLT	0.12194	0.00000	0.01198	0.03400	0.00000	0.00311
AP	106	Net Electric Plant In Service	NETPLT	0.07206	0.00000	0.00708	0.02009	0.00000	0.00184
AP	107	Rate Base	RATEBASE	0.07135	0.00000	0.00701	0.01989	0.00000	0.00182
AP	108								
AP	109								
AP	110								
AP	111								
AP	112								
AP	113								
AP	114								
AP	115	Distribution Plant in Service							
AP	116	Acct 360-Land and Land Rights	PLT_360	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	117	Acct 361-Structures & Improvements	PLT_361	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	118	Acct 362-Station Equipment	PLT_362	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	119	Acct 364-Towers and Fixtures	PLT_364	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	120	Acct 365-Overhead Conductors & Devices	PLT_365	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	121	Acct 366-Underground Conduit	PLT_366	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	122	Acct 367 - Underground Conductor	PLT_367	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	123	Acct 368-Line Transformers	PLT_368	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	124	Acct 369-Services	PLT_369	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	125	Acct 370-Meters	PLT_370	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	126	Acct 371-Inst. on Customer Premises	PLT_371	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	127	Acct 373-Street Lighting / Signal Systems	PLT_373	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	128	Distribution Overhead Lines Plant Accts 364 & 365	OHDIST	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	129	Distribution Underground Lines Plant Accts 366 & 367	UGDIST	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	130	Accounts 371&373	PLT_3713	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	131								
AP	132	Accts 360-362-Distribution Substation	PLT_SUB	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	133	Accts 364 thru 367-Distribution Primary	PLT_DPRI	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	134	Accts 364 thru 367-Distribution Secondary	PLT_DSEC	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	135								
AP	136								
AP	137								
AP	138								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
COS Without Minimum System				S		P		Q	T	Q
SCH	LINE	DESCRIPTION	ALLOCATION	Large Comm & Ind	Large Commercial & Industrial	Transmission	Real-Time	Market Pricing	Light & Power	
ID	NO.		BASIS	CP-U	Secondary	Primary	CP-U Trans	RTMP	WP-3	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
		(z)								
AP	93	ALLOCATION PROPORTIONS TABLE CONTINUED								
AP	94	INTERNALLY DEVELOPED ALLOCATION FACTORS								
AP	95									
AP	96	Plant								
AP	97	Intangible Plant In Service	INTPLT	0.03863	0.00941	0.00573	0.02349	0.00000	0.00940	
AP	98	Production Plant In Service	PRODPLT	0.14146	0.03446	0.02099	0.08602	0.00000	0.03441	
AP	99	Transmission Plant In Service	TRANPLT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	100	Distribution Plant In Service	DISTPLT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	101	General Plant in Service	GENLPLT	0.01769	0.00431	0.00263	0.01076	0.00000	0.00430	
AP	102	Intangible and General Plant in Service	INTGENLPLT	0.01889	0.00460	0.00280	0.01148	0.00000	0.00459	
AP	103	Total Transmission and Distribution Plant	TDPLT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	104	Prod, Trans, and Distr Plant in Service	PTDPLT	0.03863	0.00941	0.00573	0.02349	0.00000	0.00940	
AP	105	Total Electric Plant In Service	TOTPLT	0.03485	0.00849	0.00517	0.02119	0.00000	0.00848	
AP	106	Net Electric Plant In Service	NETPLT	0.02060	0.00502	0.00306	0.01252	0.00000	0.00501	
AP	107	Rate Base	RATEBASE	0.02066	0.00512	0.00308	0.01246	0.00000	0.00513	
AP	108									
AP	109									
AP	110									
AP	111									
AP	112									
AP	113									
AP	114									
AP	115	Distribution Plant in Service								
AP	116	Acct 360-Land and Land Rights	PLT_360	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	117	Acct 361-Structures & Improvements	PLT_361	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	118	Acct 362-Station Equipment	PLT_362	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	119	Acct 364-Towers and Fixtures	PLT_364	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	120	Acct 365-Overhead Conductors & Devices	PLT_365	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	121	Acct 366-Underground Conduit	PLT_366	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	122	Acct 367 - Underground Conductor	PLT_367	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	123	Acct 368-Line Transformers	PLT_368	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	124	Acct 369-Services	PLT_369	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	125	Acct 370-Meters	PLT_370	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	126	Acct 371-Inst. on Customer Premises	PLT_371	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	127	Acct 373-Street Lighting / Signal Systems	PLT_373	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	128	Distribution Overhead Lines Plant Accts 364 & 365	OHDIST	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	129	Distribution Underground Lines Plant Accts 366 & 367	UGDIST	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	130	Accounts 371&373	PLT_3713	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	131									
AP	132	Accts 360-362-Distribution Substation	PLT_SUB	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	133	Accts 364 thru 367-Distribution Primary	PLT_DPRI	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	134	Accts 364 thru 367-Distribution Secondary	PLT_DSEC	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	135									
AP	136									
AP	137									
AP	138									

PRODUCTION DEMAND COMPONENT				Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027									
COS Without Minimum System				RETAIL SYSTEM									
				S Street Lighting SL-3	S Street Light (Closed) SL-5	S Street Lighting SL-6	Street Lighting Total	S Integrated OSL Z-3	S Iron River OSL Z-4				
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)	(ah)	
AP	93	ALLOCATION PROPORTIONS TABLE CONTINUED											
AP	94	INTERNALLY DEVELOPED ALLOCATION FACTORS											
AP	95												
AP	96	Plant											
AP	97	Intangible Plant In Service	INTPLT		0.00014	0.00001	0.00059	0.00074	0.00018	0.00000			
AP	98	Production Plant In Service	PRODPLT		0.00053	0.00003	0.00216	0.00272	0.00068	0.00000			
AP	99	Transmission Plant in Service	TRANPLT		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	100	Distribution Plant in Service	DISTPLT		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	101	General Plant in Service	GENLPLT		0.00007	0.00000	0.00027	0.00034	0.00008	0.00000			
AP	102	Intangible and General Plant in Service	INTGENLPLT		0.00007	0.00000	0.00029	0.00036	0.00009	0.00000			
AP	103	Total Transmission and Distribution Plant	TDPLT		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	104	Prod, Trans, and Distr Plant in Service	PTDPLT		0.00014	0.00001	0.00059	0.00074	0.00018	0.00000			
AP	105	Total Electric Plant In Service	TOTPLT		0.00013	0.00001	0.00053	0.00067	0.00017	0.00000			
AP	106	Net Electric Plant In Service	NETPLT		0.00008	0.00000	0.00031	0.00040	0.00010	0.00000			
AP	107	Rate Base	RATEBASE		0.00008	0.00000	0.00031	0.00039	0.00010	0.00000			
AP	108												
AP	109												
AP	110												
AP	111												
AP	112												
AP	113												
AP	114												
AP	115	Distribution Plant in Service											
AP	116	Acct 360-Land and Land Rights	PLT_360		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	117	Acct 361-Structures & Improvements	PLT_361		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	118	Acct 362-Station Equipment	PLT_362		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	119	Acct 364-Towers and Fixtures	PLT_364		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	120	Acct 365-Overhead Conductors & Devices	PLT_365		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	121	Acct 366-Underground Conduit	PLT_366		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	122	Acct 367 - Underground Conductor	PLT_367		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	123	Acct 368-Line Transformers	PLT_368		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	124	Acct 369-Services	PLT_369		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	125	Acct 370-Meters	PLT_370		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	126	Acct 371-Inst. on Customer Premises	PLT_371		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	127	Acct 373-Street Lighting / Signal Systems	PLT_373		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	128	Distribution Overhead Lines Plant Accts 364 & 365	OHDIST		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	129	Distribution Underground Lines Plant Accts 366 & 367	UGDIST		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	130	Accounts 371&373	PLT_3713		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	131												
AP	132	Accts 360-362-Distribution Substation	PLT_SUB		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	133	Accts 364 thru 367-Distribution Primary	PLT_DPRI		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	134	Accts 364 thru 367-Distribution Secondary	PLT_DSEC		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	135												
AP	136												
AP	137												
AP	138												

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT

COS Without Minimum System			INTEGRATED						
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERCIAL SECONDARY	TOTAL COMMERCIAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
AP	139	ALLOCATION PROPORTIONS TABLE CONTINUED							
AP	140	INTERNALLY DEVELOPED ALLOCATION FACTORS							
AP	141								
AP	142	Production Expense							
AP	143	O&M Exp Prod Oper Accts 502-509,537-539,548,549	OX_PROD	1.00000	0.54352	0.00339	0.31167	0.02099	0.12043
AP	144	O&M Exp Prod Maint Accts 511-514,542-545,552-554	MX_PROD	1.00000	0.54352	0.00339	0.31167	0.02099	0.12043
AP	145	Salaries and Wages Production Operation	SALWAGPO	1.00000	0.54352	0.00339	0.31167	0.02099	0.12043
AP	146	Salaries and Wages Production Maintenance	SALWAGPM	1.00000	0.54352	0.00339	0.31167	0.02099	0.12043
AP	147								
AP	148	Transmission Expense							
AP	149	O&M Accounts 561-567	OX_TRAN	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	150	O&M Accounts 569-573	MX_TRAN	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	151	Salaries & Wages Accounts 561-567	SALWAGTO	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	152	Salaries & Wages Accounts 569-573	SALWAGTM	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	153								
AP	154	Regional Market Expens							
AP	155	O&M Accounts 575	OX_RM	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	156								
AP	157	Distribution Expense							
AP	158	Acct 580-Supervision	OX_580	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	159	Acct 581-Load Dispatch	OX_581	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	160	Acct 582-Station Equipment	OX_582	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	161	Acct 583-Overhead Lines	OX_583	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	162	Acct 584-Underground Lines	OX_584	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	163	Acct 585-Street Lighting	OX_585	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	164	Acct 586-Metering	OX_586	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	165	Acct 587-Customer Installations	OX_587	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	166	Acct 588-Miscellaneous	OX_588	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	167	Acct 589-Rents	OX_589	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	168	Acct 590-Supervision	MX_590	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	169	Acct 592-Station Equipment	MX_592	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	170	Acct 593-Overhead Lines	MX_593	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	171	Acct 594-Underground Lines	MX_594	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	172	Acct 595-Transformers	MX_595	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	173	Acct 596-Street Lighting	MX_596	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	174	Acct 597-Metering	MX_597	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	175	Acct 598-Miscellaneous	MX_598	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	176	O&M Accounts 581-589	OX_DIST	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	177	O&M Accounts 591-598	MX_DIST	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	178	Salaries & Wages Accounts 581-589	SALWAGDO	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	179	Salaries & Wages Accounts 591-598	SALWAGDM	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	180								
AP	181								
AP	182								
AP	183								
AP	184								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH	LINE	DESCRIPTION	ALLOCATION	Integrated Retail	Iron River	Res. Heating		General Service	General Service	Commercial	25kW-200kW	
ID	NO.		BASIS	Residential	Residential	AH-1		C-1	C-2	Heating	Light & Power	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
AP	139	ALLOCATION PROPORTIONS TABLE CONTINUED										
AP	140	INTERNALLY DEVELOPED ALLOCATION FACTORS										
AP	141											
AP	142	Production Expense										
AP	143	O&M Exp Prod Oper Accts 502-509,537-539,548,549	OX_PROD		0.49491	0.00000	0.04861		0.13800	0.00000	0.01264	0.12657
AP	144	O&M Exp Prod Maint Accts 511-514,542-545,552-554	MX_PROD		0.49491	0.00000	0.04861		0.13800	0.00000	0.01264	0.12657
AP	145	Salaries and Wages Production Operation	SALWAGPO		0.49491	0.00000	0.04861		0.13800	0.00000	0.01264	0.12657
AP	146	Salaries and Wages Production Maintenance	SALWAGPM		0.49491	0.00000	0.04861		0.13800	0.00000	0.01264	0.12657
AP	147											
AP	148	Transmission Expense										
AP	149	O&M Accounts 561-567	OX_TRAN		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	150	O&M Accounts 569-573	MX_TRAN		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	151	Salaries & Wages Accounts 561-567	SALWAGTO		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	152	Salaries & Wages Accounts 569-573	SALWAGTM		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	153											
AP	154	Regional Market Expens										
AP	155	O&M Accounts 575	OX_RM		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	156											
AP	157	Distribution Expense										
AP	158	Acct 580-Supervision	OX_580		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	159	Acct 581-Load Dispatch	OX_581		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	160	Acct 582-Station Equipment	OX_582		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	161	Acct 583-Overhead Lines	OX_583		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	162	Acct 584-Underground Lines	OX_584		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	163	Acct 585-Street Lighting	OX_585		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	164	Acct 586-Metering	OX_586		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	165	Acct 587-Customer Installations	OX_587		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	166	Acct 588-Miscellaneous	OX_588		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	167	Acct 589-Rents	OX_589		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	168	Acct 590-Supervision	MX_590		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	169	Acct 592-Station Equipment	MX_592		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	170	Acct 593-Overhead Lines	MX_593		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	171	Acct 594-Underground Lines	MX_594		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	172	Acct 595-Transformers	MX_595		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	173	Acct 596-Street Lighting	MX_596		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	174	Acct 597-Metering	MX_597		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	175	Acct 598-Miscellaneous	MX_598		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	176	O&M Accounts 581-589	OX_DIST		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	177	O&M Accounts 591-598	MX_DIST		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	178	Salaries & Wages Accounts 581-589	SALWAGDO		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	179	Salaries & Wages Accounts 591-598	SALWAGDM		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	180											
AP	181											
AP	182											
AP	183											
AP	184											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	RETAIL SYSTEM						
ID	NO.		BASIS	Large Comm & Ind	Large Commercial & Industrial	Transmission	Real-Time	> 5,000kW		
		(a)	(b)	CP-U	Secondary	Primary	Market Pricing	Light & Power	WP-3	(z)
			(s)	Total	CP-U Sec	CP-U Prim	CP-U Trans	RTMP		
AP	139	ALLOCATION PROPORTIONS TABLE CONTINUED								
AP	140	INTERNALLY DEVELOPED ALLOCATION FACTORS								
AP	141									
AP	142	Production Expense								
AP	143	O&M Exp Prod Oper Accts 502-509,537-539,548,549	OX_PROD	0.14146	0.03446	0.02099	0.08602	0.00000	0.03441	
AP	144	O&M Exp Prod Maint Accts 511-514,542-545,552-554	MX_PROD	0.14146	0.03446	0.02099	0.08602	0.00000	0.03441	
AP	145	Salaries and Wages Production Operation	SALWAGPO	0.14146	0.03446	0.02099	0.08602	0.00000	0.03441	
AP	146	Salaries and Wages Production Maintenance	SALWAGPM	0.14146	0.03446	0.02099	0.08602	0.00000	0.03441	
AP	147									
AP	148	Transmission Expense								
AP	149	O&M Accounts 561-567	OX_TRAN	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	150	O&M Accounts 569-573	MX_TRAN	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	151	Salaries & Wages Accounts 561-567	SALWAGTO	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	152	Salaries & Wages Accounts 569-573	SALWAGTM	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	153									
AP	154	Regional Market Expens								
AP	155	O&M Accounts 575	OX_RM	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	156									
AP	157	Distribution Expense								
AP	158	Acct 580-Supervision	OX_580	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	159	Acct 581-Load Dispatch	OX_581	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	160	Acct 582-Station Equipment	OX_582	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	161	Acct 583-Overhead Lines	OX_583	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	162	Acct 584-Underground Lines	OX_584	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	163	Acct 585-Street Lighting	OX_585	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	164	Acct 586-Metering	OX_586	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	165	Acct 587-Customer Installations	OX_587	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	166	Acct 588-Miscellaneous	OX_588	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	167	Acct 589-Rents	OX_589	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	168	Acct 590-Supervision	MX_590	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	169	Acct 592-Station Equipment	MX_592	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	170	Acct 593-Overhead Lines	MX_593	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	171	Acct 594-Underground Lines	MX_594	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	172	Acct 595-Transformers	MX_595	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	173	Acct 596-Street Lighting	MX_596	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	174	Acct 597-Metering	MX_597	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	175	Acct 598-Miscellaneous	MX_598	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	176	O&M Accounts 581-589	OX_DIST	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	177	O&M Accounts 591-598	MX_DIST	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	178	Salaries & Wages Accounts 581-589	SALWAGDO	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	179	Salaries & Wages Accounts 591-598	SALWAGDM	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	180									
AP	181									
AP	182									
AP	183									
AP	184									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S			
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Street Lighting SL-3	Street Light (Closed) SL-5	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4			
(a)				(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)	(ah)
AP	139	ALLOCATION PROPORTIONS TABLE CONTINUED										
AP	140	INTERNALLY DEVELOPED ALLOCATION FACTORS										
AP	141											
AP	142	Production Expense										
AP	143	O&M Exp Prod Oper Accts 502-509,537-539,548,549	OX_PROD	0.00053	0.00003	0.00216	0.00272	0.00068	0.00000			
AP	144	O&M Exp Prod Maint Accts 511-514,542-545,552-554	MX_PROD	0.00053	0.00003	0.00216	0.00272	0.00068	0.00000			
AP	145	Salaries and Wages Production Operation	SALWAGPO	0.00053	0.00003	0.00216	0.00272	0.00068	0.00000			
AP	146	Salaries and Wages Production Maintenance	SALWAGPM	0.00053	0.00003	0.00216	0.00272	0.00068	0.00000			
AP	147											
AP	148	Transmission Expense										
AP	149	O&M Accounts 561-567	OX_TRAN	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	150	O&M Accounts 569-573	MX_TRAN	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	151	Salaries & Wages Accounts 561-567	SALWAGTO	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	152	Salaries & Wages Accounts 569-573	SALWAGTM	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	153											
AP	154	Regional Market Expens										
AP	155	O&M Accounts 575	OX_RM	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	156											
AP	157	Distribution Expense										
AP	158	Acct 580-Supervision	OX_580	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	159	Acct 581-Load Dispatch	OX_581	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	160	Acct 582-Station Equipment	OX_582	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	161	Acct 583-Overhead Lines	OX_583	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	162	Acct 584-Underground Lines	OX_584	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	163	Acct 585-Street Lighting	OX_585	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	164	Acct 586-Metering	OX_586	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	165	Acct 587-Customer Installations	OX_587	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	166	Acct 588-Miscellaneous	OX_588	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	167	Acct 589-Rents	OX_589	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	168	Acct 590-Supervision	MX_590	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	169	Acct 592-Station Equipment	MX_592	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	170	Acct 593-Overhead Lines	MX_593	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	171	Acct 594-Underground Lines	MX_594	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	172	Acct 595-Transformers	MX_595	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	173	Acct 596-Street Lighting	MX_596	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	174	Acct 597-Metering	MX_597	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	175	Acct 598-Miscellaneous	MX_598	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	176	O&M Accounts 581-589	OX_DIST	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	177	O&M Accounts 591-598	MX_DIST	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	178	Salaries & Wages Accounts 581-589	SALWAGDO	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	179	Salaries & Wages Accounts 591-598	SALWAGDM	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
AP	180											
AP	181											
AP	182											
AP	183											
AP	184											

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT									
COS Without Minimum System									
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
AP	185	ALLOCATION PROPORTIONS TABLE CONTINUED							
AP	186	INTERNALLY DEVELOPED ALLOCATION FACTORS							
AP	187								
AP	188	Customer Accounting Expense							
AP	189	Account 902	OX_902	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	190	Account 903	OX_903	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	191	Account 904	OX_904	0.13017	0.11588	0.00091	0.00991	0.00145	0.00201
AP	192	Accounts 902 & 903	OX_902_3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	193	O&M Accounts 902-905	OX_CA	0.02248	0.02002	0.00016	0.00171	0.00025	0.00035
AP	194	Salaries & Wages Accounts 902-905	SALWAGCA	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	195								
AP	196	Customer Service Expense							
AP	197	Account908	OX_908	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	198	Account909	OX_909	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	199	Account910	OX_910	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	200	O&M Accounts 908-910	OX_CS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	201	Salaries & Wages Accounts 908-910	SALWAGCS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	202								
AP	203	Total Customer Operations Expense	OMXCUST	0.01057	0.00941	0.00007	0.00080	0.00012	0.00016
AP	204								
AP	205	Salaries & Wages Excluding Admin & Gen exp	SALWAGXAG	0.12508	0.06798	0.00042	0.03898	0.00263	0.01506
AP	206	Total Salaries and Wages Expense	SALWAGES	0.12508	0.06798	0.00042	0.03898	0.00263	0.01506
AP	207								
AP	208	Total O&M less Fuel and Purchased Power & Acct 904	OMXFPP	0.10326	0.05501	0.00035	0.03238	0.00236	0.01315
AP	209								
AP	210								
AP	211								
AP	212								
AP	213								
AP	214								
AP	215								
AP	216								
AP	217								
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AP	228								
AP	229								
AP	230								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
AP	185	ALLOCATION PROPORTIONS TABLE CONTINUED										
AP	186	INTERNALLY DEVELOPED ALLOCATION FACTORS										
AP	187											
AP	188	Customer Accounting Expense										
AP	189	Account 902	OX_902		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	190	Account 903	OX_903		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	191	Account 904	OX_904		0.10589	0.00000	0.00999		0.00756	0.00000	0.00038	0.00124
AP	192	Accounts 902 & 903	OX_902_3		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	193	O&M Accounts 902-905	OX_CA		0.01829	0.00000	0.00173		0.00131	0.00000	0.00007	0.00021
AP	194	Salaries & Wages Accounts 902-905	SALWAGCA		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	195											
AP	196	Customer Service Expense										
AP	197	Account908	OX_908		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	198	Account909	OX_909		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	199	Account910	OX_910		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	200	O&M Accounts 908-910	OX_CS		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	201	Salaries & Wages Accounts 908-910	SALWAGCS		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	202											
AP	203	Total Customer Operations Expense	OMXCUST		0.00860	0.00000	0.00081		0.00061	0.00000	0.00003	0.00010
AP	204											
AP	205	Salaries & Wages Excluding Admin & Gen exp	SALWAGXAG		0.06191	0.00000	0.00608		0.01726	0.00000	0.00158	0.01583
AP	206	Total Salaries and Wages Expense	SALWAGES		0.06191	0.00000	0.00608		0.01726	0.00000	0.00158	0.01583
AP	207											
AP	208	Total O&M less Fuel and Purchased Power & Acct 904	OMXFPP		0.05009	0.00000	0.00492		0.01395	0.00000	0.00128	0.01300
AP	209											
AP	210											
AP	211											
AP	212											
AP	213											
AP	214											
AP	215											
AP	216											
AP	217											
AP	218											
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AP	221											
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AP	223											
AP	224											
AP	225											
AP	226											
AP	227											
AP	228											
AP	229											
AP	230											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	RETAIL SYSTEM						
ID	NO.		BASIS	Large Comm & Ind	S	P	Q	T	Q	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
				CP-U	Secondary	Primary	Transmission	Real-Time	Light & Power	(z)
				Total	CP-U Sec	CP-U Prim	CP-U Trans	Market Pricing	WP-3	
								RTMP		
AP	185	ALLOCATION PROPORTIONS TABLE CONTINUED								
AP	186	INTERNALLY DEVELOPED ALLOCATION FACTORS								
AP	187									
AP	188	Customer Accounting Expense								
AP	189	Account 902	OX_902		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	190	Account 903	OX_903		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	191	Account 904	OX_904		0.00420	0.00074	0.00145	0.00201	0.00000	0.00000
AP	192	Accounts 902 & 903	OX_902_3		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	193	O&M Accounts 902-905	OX_CA		0.00073	0.00013	0.00025	0.00035	0.00000	0.00000
AP	194	Salaries & Wages Accounts 902-905	SALWAGCA		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	195									
AP	196	Customer Service Expense								
AP	197	Account908	OX_908		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	198	Account909	OX_909		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	199	Account910	OX_910		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	200	O&M Accounts 908-910	OX_CS		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	201	Salaries & Wages Accounts 908-910	SALWAGCS		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	202									
AP	203	Total Customer Operations Expense	OMXCUST		0.00034	0.00006	0.00012	0.00016	0.00000	0.00000
AP	204									
AP	205	Salaries & Wages Excluding Admin & Gen exp	SALWAGXAG		0.01769	0.00431	0.00263	0.01076	0.00000	0.00430
AP	206	Total Salaries and Wages Expense	SALWAGES		0.01769	0.00431	0.00263	0.01076	0.00000	0.00430
AP	207									
AP	208	Total O&M less Fuel and Purchased Power & Acct 904	OMXFPP		0.01545	0.00414	0.00236	0.00894	0.00000	0.00421
AP	209									
AP	210									
AP	211									
AP	212									
AP	213									
AP	214									
AP	215									
AP	216									
AP	217									
AP	218									
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AP	226									
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AP	228									
AP	229									
AP	230									

PRODUCTION DEMAND COMPONENT				Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027							
COS Without Minimum System				RETAIL SYSTEM							
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	S Street Lighting SL-3	S Street Light (Closed) SL-5	S Street Lighting SL-6	Street Lighting Total	S Integrated OSL Z-3	S Iron River OSL Z-4		
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)	(ah)
AP	185	ALLOCATION PROPORTIONS TABLE CONTINUED									
AP	186	INTERNALLY DEVELOPED ALLOCATION FACTORS									
AP	187										
AP	188	Customer Accounting Expense									
AP	189	Account 902	OX_902	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
AP	190	Account 903	OX_903	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
AP	191	Account 904	OX_904	0.00000	0.00000	0.00000	0.00000	0.00091	0.00000		
AP	192	Accounts 902 & 903	OX_902_3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
AP	193	O&M Accounts 902-905	OX_CA	0.00000	0.00000	0.00000	0.00000	0.00016	0.00000		
AP	194	Salaries & Wages Accounts 902-905	SALWAGCA	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
AP	195										
AP	196	Customer Service Expense									
AP	197	Account908	OX_908	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
AP	198	Account909	OX_909	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
AP	199	Account910	OX_910	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
AP	200	O&M Accounts 908-910	OX_CS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
AP	201	Salaries & Wages Accounts 908-910	SALWAGCS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
AP	202										
AP	203	Total Customer Operations Expense	OMXCUST	0.00000	0.00000	0.00000	0.00000	0.00007	0.00000		
AP	204										
AP	205	Salaries & Wages Excluding Admin & Gen exp	SALWAGXAG	0.00007	0.00000	0.00027	0.00034	0.00008	0.00000		
AP	206	Total Salaries and Wages Expense	SALWAGES	0.00007	0.00000	0.00027	0.00034	0.00008	0.00000		
AP	207										
AP	208	Total O&M less Fuel and Purchased Power & Acct 904	OMXFPP	0.00005	0.00000	0.00022	0.00028	0.00007	0.00000		
AP	209										
AP	210										
AP	211										
AP	212										
AP	213										
AP	214										
AP	215										
AP	216										
AP	217										
AP	218										
AP	219										
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AP	226										
AP	227										
AP	228										
AP	229										
AP	230										

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT

COS Without Minimum System			INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	
SCH	LINE	DESCRIPTION	ALLOCATION	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
ID	NO.		BASIS	SYSTEM			SECONDARY	PRIMARY	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
									(i)
AP	231	REVENUES AND BILLING DETERMINANTS							
AP	232								
AP	233	Sales of Electricity Revenue - Present	SALESREV	0.13243	0.06997	0.00046	0.04638	(0.00098)	0.01659
AP	234	Present Rate Sales Revenue	CLAIMREV	0.13171	0.07116	0.00045	0.04113	0.00281	0.01616
AP	235								
AP	236								
AP	237	Residential A-1 Sales Revenue	SREVRA1	0.12978	0.12978	0.00000	0.00000	0.00000	0.00000
AP	238	Residential A-2 Sales Revenue	SREVRA2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	239	Residential AH-1 Sales Revenue	SREVRAH1	0.11720	0.11720	0.00000	0.00000	0.00000	0.00000
AP	240	General Service C1 Sales Revenue	SREVGSC1	0.12151	0.00000	0.00000	0.12151	0.00000	0.00000
AP	241	General Service C2 Sales Revenue	SREVGSC2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	242	Commercial Heating H-1 Sales Revenue	SREVCH1	0.12538	0.00000	0.00000	0.12538	0.00000	0.00000
AP	243	Light and Power P-1 Sales Revenue	SREVLPP1	0.24283	0.00000	0.00000	0.24283	0.00000	0.00000
AP	244	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCSIC	0.08859	0.00000	0.00000	0.08859	0.00000	0.00000
AP	245	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCPRI	0.41353	0.00000	0.00000	0.00000	0.41353	0.00000
AP	246	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCTRAN	0.30644	0.00000	0.00000	0.00000	0.00000	0.30644
AP	247	Real Time Market Pricing Sales Revenue	SREVRTMP	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	248	Light and Power WP-3 Sales Revenue	SREVLWPP3	0.24325	0.00000	0.00000	0.00000	0.00000	0.24325
AP	249	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	0.04811	0.00000	0.04811	0.00000	0.00000	0.00000
AP	250	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	0.04897	0.00000	0.04897	0.00000	0.00000	0.00000
AP	251	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	0.04684	0.00000	0.04684	0.00000	0.00000	0.00000
AP	252	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3	0.08953	0.00000	0.08953	0.00000	0.00000	0.00000
AP	253	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	254	Total Rate Base					0.00000		
AP	255								
AP	256								
AP	257	PRESENT REVENUES FROM SALES INPUT							
AP	258								
AP	259	Total Sales of Electricity Revenues		1.00000	0.55498	0.00695	0.32389	0.00730	0.10687
AP	260	Sales of Electricity Revenues Excl Cost of Gas (Present)		1.00000	0.55498	0.00695	0.32389	0.00730	0.10687
AP	261								
AP	262								
AP	263								
AP	264								
AP	265								
AP	266								
AP	267								
AP	268								
AP	269								
AP	270								
AP	271								
AP	272								
AP	273								
AP	274								
AP	276								

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
AP	231	REVENUES AND BILLING DETERMINANTS										
AP	232											
AP	233	Sales of Electricity Revenue - Present	SALESREV		0.06517	0.00000	0.00480		0.01819	0.00000	0.00131	0.02403
AP	234	Present Rate Sales Revenue	CLAIMREV		0.06482	0.00000	0.00635		0.01802	0.00000	0.00165	0.01669
AP	235											
AP	236											
AP	237	Residential A-1 Sales Revenue	SREVRA1		0.12978	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	238	Residential A-2 Sales Revenue	SREVRA2		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	239	Residential AH-1 Sales Revenue	SREVRAH1		0.00000	0.00000	0.11720		0.00000	0.00000	0.00000	0.00000
AP	240	General Service C1 Sales Revenue	SREVGSC1		0.00000	0.00000	0.00000		0.12151	0.00000	0.00000	0.00000
AP	241	General Service C2 Sales Revenue	SREVGSC2		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	242	Commercial Heating H-1 Sales Revenue	SREVCH1		0.00000	0.00000	0.00000		0.00000	0.00000	0.12538	0.00000
AP	243	Light and Power P-1 Sales Revenue	SREVLPP1		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.24283
AP	244	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCISEC		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	245	Large Commercial & Indust CP-U Prim Sales Rev	SREVLICIPRI		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	246	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCITRAN		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	247	Real Time Market Pricing Sales Revenue	SREVRTMP		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	248	Light and Power WP-3 Sales Revenue	SREVLWP3		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	249	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	250	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	251	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	252	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	253	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
AP	254	Total Rate Base										
AP	255											
AP	256											
AP	257	PRESENT REVENUES FROM SALES INPUT										
AP	258											
AP	259	Total Sales of Electricity Revenues			0.51486	0.00000	0.04012		0.14466	0.00000	0.01027	0.11745
AP	260	Sales of Electricity Revenues Excl Cost of Gas (Present)			0.51486	0.00000	0.04012		0.14466	0.00000	0.01027	0.11745
AP	261											
AP	262											
AP	263											
AP	264											
AP	265											
AP	266											
AP	267											
AP	268											
AP	269											
AP	269											
AP	270											
AP	271											
AP	272											
AP	273											
AP	274											
AP	276											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	RETAIL SYSTEM						
ID	NO.		BASIS	Large Comm & Ind	S	P	Q	T	Q	
				CP-U	Secondary	Large Commercial & Industrial	Transmission	Real-Time	> 5,000kW	
				Total	CP-U Sec	CP-U Prim	CP-U Trans	Market Pricing	Light & Power	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
										(z)
AP	231	REVENUES AND BILLING DETERMINANTS								
AP	232									
AP	233	Sales of Electricity Revenue - Present	SALESREV		0.01287	0.00286	-0.00098	0.01100	0.00000	0.00559
AP	234	Present Rate Sales Revenue	CLAIMREV		0.01891	0.00478	0.00281	0.01133	0.00000	0.00483
AP	235									
AP	236									
AP	237	Residential A-1 Sales Revenue	SREVRA1		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	238	Residential A-2 Sales Revenue	SREVRA2		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	239	Residential AH-1 Sales Revenue	SREVRAH1		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	240	General Service C1 Sales Revenue	SREVGSC1		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	241	General Service C2 Sales Revenue	SREVGSC2		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	242	Commercial Heating H-1 Sales Revenue	SREVCH1		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	243	Light and Power P-1 Sales Revenue	SREVLPP1		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	244	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCSIC		0.08859	0.08859	0.00000	0.00000	0.00000	0.00000
AP	245	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCPRI		0.41353	0.00000	0.41353	0.00000	0.00000	0.00000
AP	246	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCTRAN		0.30644	0.00000	0.00000	0.30644	0.00000	0.00000
AP	247	Real Time Market Pricing Sales Revenue	SREVRTMP		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	248	Light and Power WP-3 Sales Revenue	SREVLWP3		0.00000	0.00000	0.00000	0.00000	0.00000	0.24325
AP	249	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	250	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	251	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	252	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSL3		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	253	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSL4		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
AP	254	Total Rate Base								
AP	255									
AP	256									
AP	257	PRESENT REVENUES FROM SALES INPUT								
AP	258									
AP	259	Total Sales of Electricity Revenues			0.11445	0.05152	0.00730	0.05562	0.00193	0.04932
AP	260	Sales of Electricity Revenues Excl Cost of Gas (Present)			0.11445	0.05152	0.00730	0.05562	0.00193	0.04932
AP	261									
AP	262									
AP	263									
AP	264									
AP	265									
AP	266									
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AP	270									
AP	271									
AP	272									
AP	273									
AP	274									
AP	276									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	S Street Lighting SL-3	S Street Light (Closed) SL-5	S Street Lighting SL-6	Street Lighting Total	S Integrated OSL Z-3	S Iron River OSL Z-4	
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag) (ah)
AP	231	REVENUES AND BILLING DETERMINANTS								
AP	232									
AP	233	Sales of Electricity Revenue - Present	SALESREV	0.00005	0.00001	0.00032	0.00037	0.00009	0.00000	
AP	234	Present Rate Sales Revenue	CLAIMREV	0.00007	0.00000	0.00028	0.00036	0.00009	0.00000	
AP	235									
AP	236									
AP	237	Residential A-1 Sales Revenue	SREVRA1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	238	Residential A-2 Sales Revenue	SREVRA2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	239	Residential AH-1 Sales Revenue	SREVRAH1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	240	General Service C1 Sales Revenue	SREVGSC1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	241	General Service C2 Sales Revenue	SREVGSC2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	242	Commercial Heating H-1 Sales Revenue	SREVCH1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	243	Light and Power P-1 Sales Revenue	SREVLPP1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	244	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCSIC	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	245	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCPRI	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	246	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCTRAN	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	247	Real Time Market Pricing Sales Revenue	SREVRTMP	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	248	Light and Power WP-3 Sales Revenue	SREVLWP3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	249	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	0.04811	0.00000	0.00000	0.04811	0.00000	0.00000	
AP	250	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	0.00000	0.04897	0.00000	0.04897	0.00000	0.00000	
AP	251	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	0.00000	0.00000	0.04684	0.04684	0.00000	0.00000	
AP	252	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSL3	0.00000	0.00000	0.00000	0.00000	0.08953	0.00000	
AP	253	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSL4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
AP	254	Total Rate Base								
AP	255									
AP	256									
AP	257	PRESENT REVENUES FROM SALES INPUT								
AP	258									
AP	259	Total Sales of Electricity Revenues		0.00058	0.00008	0.00488	0.00554	0.00141	0.00000	
AP	260	Sales of Electricity Revenues Excl Cost of Gas (Present)		0.00058	0.00008	0.00488	0.00554	0.00141	0.00000	
AP	261									
AP	262									
AP	263									
AP	264									
AP	265									
AP	266									
AP	267									
AP	268									
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AP	269									
AP	270									
AP	271									
AP	272									
AP	273									
AP	274									
AP	276									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT

SCH	LINE	COS Without Minimum System	ALLOCATION	INTEGRATED	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
ID	NO.	DESCRIPTION	BASIS	RETAIL	RESIDENTIAL	LIGHTING	COMMERICAL	COMMERICAL	TRANSMISSION
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
ADA	1	ALLOCATED DIRECT ASSIGNMENTS							
ADA	2	DIRECT ASSIGN TO CLASSES W/SALES REV FUNCTIONS							
ADA	3								
ADA	4	904 Uncollectible Accounts (Write-Offs)							
ADA	5								
ADA	6	Residential A-1 Sales Revenue	SREVRA1	266,563	34,594	0	0	0	0
ADA	7	Residential A-2 Sales Revenue	SREVRA2	0	0	0	0	0	0
ADA	8	Residential AH-1 Sales Revenue	SREVRAH1	27,838	3,263	0	0	0	0
ADA	9	General Service C1 Sales Revenue	SREVGSC1	20,325	0	0	2,470	0	0
ADA	10	General Service C1 Sales Revenue	SREVGSC2	0	0	0	0	0	0
ADA	11	Commercial Heating H-1 Sales Revenue	SREVCH1	982	0	0	123	0	0
ADA	12	Light and Power P-1 Sales Revenue	SREVLPP1	1,671	0	0	406	0	0
ADA	13	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCSIC	2,711	0	0	240	0	0
ADA	14	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCPRI	1,148	0	0	0	475	0
ADA	15	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCTRAN	2,145	0	0	0	0	657
ADA	16	Real Time Market Pricing Sales Revenue	SREVRTMP	0	0	0	0	0	0
ADA	17	Light and Power WP-3 Sales Revenue	SREVLPPW3	0	0	0	0	0	0
ADA	18	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	0	0	0	0	0	0
ADA	19	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	0	0	0	0	0	0
ADA	20	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	0	0	0	0	0	0
ADA	21	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3	3,308	0	296	0	0	0
ADA	22	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4	0	0	0	0	0	0
ADA	23								
ADA	24	Total Account 904	EXP_904	326,692	37,857	296	3,239	475	657
ADA	25								
ADA	26	Total Account 904	EXP_904	0.13017	0.11588	0.00091	0.00991	0.00145	0.00201
ADA	27								
ADA	28								
ADA	29								
ADA	30								
ADA	31								
ADA	32								
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ADA	34								
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Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
ADA	1	ALLOCATED DIRECT ASSIGNMENTS										
ADA	2	DIRECT ASSIGN TO CLASSES W/SALES REV FUNCTIONS										
ADA	3											
ADA	4	904 Uncollectible Accounts (Write-Offs)										
ADA	5											
ADA	6	Residential A-1 Sales Revenue	SREVRA1		34,594	0	0		0	0	0	0
ADA	7	Residential A-2 Sales Revenue	SREVRA2		0	0	0		0	0	0	0
ADA	8	Residential AH-1 Sales Revenue	SREVRAH1		0	0	3,263		0	0	0	0
ADA	9	General Service C1 Sales Revenue	SREVGSC1		0	0	0		2,470	0	0	0
ADA	10	General Service C1 Sales Revenue	SREVGSC2		0	0	0		0	0	0	0
ADA	11	Commercial Heating H-1 Sales Revenue	SREVCH1		0	0	0		0	0	123	0
ADA	12	Light and Power P-1 Sales Revenue	SREVLPP1		0	0	0		0	0	0	406
ADA	13	Large Commercial & Indust CP-U Sec Sales Rev	SREVLICISEC		0	0	0		0	0	0	0
ADA	14	Large Commercial & Indust CP-U Prim Sales Rev	SREVLICIPRI		0	0	0		0	0	0	0
ADA	15	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCITRAN		0	0	0		0	0	0	0
ADA	16	Real Time Market Pricing Sales Revenue	SREVRTMP		0	0	0		0	0	0	0
ADA	17	Light and Power WP-3 Sales Revenue	SREVLPPWP3		0	0	0		0	0	0	0
ADA	18	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3		0	0	0		0	0	0	0
ADA	19	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5		0	0	0		0	0	0	0
ADA	20	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6		0	0	0		0	0	0	0
ADA	21	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3		0	0	0		0	0	0	0
ADA	22	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4		0	0	0		0	0	0	0
ADA	23											
ADA	24	Total Account 904	EXP_904		34,594	0	3,263		2,470	0	123	406
ADA	25											
ADA	26	Total Account 904	EXP_904		0.10589	0.00000	0.00999		0.00756	0.00000	0.00038	0.00124
ADA	27											
ADA	28											
ADA	29											
ADA	30											
ADA	31											
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ADA	46											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT										
COS Without Minimum System										
SCH	LINE	DESCRIPTION	ALLOCATION	RETAIL SYSTEM						
ID	NO.		BASIS	Large Comm & Ind	S	P	Q	T	Q	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
				CP-U	Secondary	Primary	Transmission	Real-Time	Light & Power	
				Total	CP-U Sec	CP-U Prim	CP-U Trans	Market Pricing	WP-3	(z)
								RTMP		
ADA	1	ALLOCATED DIRECT ASSIGNMENTS								
ADA	2	DIRECT ASSIGN TO CLASSES W/SALES REV FUNCTIONS								
ADA	3									
ADA	4	904 Uncollectible Accounts (Write-Offs)								
ADA	5									
ADA	6	Residential A-1 Sales Revenue	SREVRA1	0	0	0	0	0	0	
ADA	7	Residential A-2 Sales Revenue	SREVRA2	0	0	0	0	0	0	
ADA	8	Residential AH-1 Sales Revenue	SREVRAH1	0	0	0	0	0	0	
ADA	9	General Service C1 Sales Revenue	SREVGSC1	0	0	0	0	0	0	
ADA	10	General Service C1 Sales Revenue	SREVGSC2	0	0	0	0	0	0	
ADA	11	Commercial Heating H-1 Sales Revenue	SREVCH1	0	0	0	0	0	0	
ADA	12	Light and Power P-1 Sales Revenue	SREVLPP1	0	0	0	0	0	0	
ADA	13	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCSIC	240	240	0	0	0	0	
ADA	14	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCPRI	475	0	475	0	0	0	
ADA	15	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCTRAN	657	0	0	657	0	0	
ADA	16	Real Time Market Pricing Sales Revenue	SREVRTMP	0	0	0	0	0	0	
ADA	17	Light and Power WP-3 Sales Revenue	SREVLWP3	0	0	0	0	0	0	
ADA	18	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	0	0	0	0	0	0	
ADA	19	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	0	0	0	0	0	0	
ADA	20	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	0	0	0	0	0	0	
ADA	21	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSL3	0	0	0	0	0	0	
ADA	22	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSL4	0	0	0	0	0	0	
ADA	23									
ADA	24	Total Account 904	EXP_904	1,372	240	475	657	0	0	
ADA	25									
ADA	26	Total Account 904	EXP_904	0.00420	0.00074	0.00145	0.00201	0.00000	0.00000	
ADA	27									
ADA	28									
ADA	29									
ADA	30									
ADA	31									
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ADA	46									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
RETAIL SYSTEM										
PRODUCTION DEMAND COMPONENT										
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	S Street Lighting SL-3	S Street Light (Closed) SL-5	S Street Lighting SL-6	Street Lighting Total	S Integrated OSL Z-3	S Iron River OSL Z-4	
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag) (ah)
ADA	1	ALLOCATED DIRECT ASSIGNMENTS								
ADA	2	DIRECT ASSIGN TO CLASSES W/SALES REV FUNCTIONS								
ADA	3									
ADA	4	904 Uncollectible Accounts (Write-Offs)								
ADA	5									
ADA	6	Residential A-1 Sales Revenue	SREVRA1	0	0	0	0	0	0	
ADA	7	Residential A-2 Sales Revenue	SREVRA2	0	0	0	0	0	0	
ADA	8	Residential AH-1 Sales Revenue	SREVRH1	0	0	0	0	0	0	
ADA	9	General Service C1 Sales Revenue	SREVGSC1	0	0	0	0	0	0	
ADA	10	General Service C1 Sales Revenue	SREVGSC2	0	0	0	0	0	0	
ADA	11	Commercial Heating H-1 Sales Revenue	SREVCH1	0	0	0	0	0	0	
ADA	12	Light and Power P-1 Sales Revenue	SREVLPP1	0	0	0	0	0	0	
ADA	13	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCISEC	0	0	0	0	0	0	
ADA	14	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCIPRI	0	0	0	0	0	0	
ADA	15	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCITRAN	0	0	0	0	0	0	
ADA	16	Real Time Market Pricing Sales Revenue	SREVRTMP	0	0	0	0	0	0	
ADA	17	Light and Power WP-3 Sales Revenue	SREVLPPW3	0	0	0	0	0	0	
ADA	18	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	0	0	0	0	0	0	
ADA	19	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	0	0	0	0	0	0	
ADA	20	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	0	0	0	0	0	0	
ADA	21	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3	0	0	0	0	296	0	
ADA	22	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4	0	0	0	0	0	0	
ADA	23									
ADA	24	Total Account 904	EXP_904	0	0	0	0	296	0	
ADA	25									
ADA	26	Total Account 904	EXP_904	0.00000	0.00000	0.00000	0.00000	0.00091	0.00000	
ADA	27									
ADA	28									
ADA	29									
ADA	30									
ADA	31									
ADA	32									
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ADA	45									
ADA	46									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT

SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERCIAL SECONDARY	TOTAL COMMERCIAL PRIMARY	TOTAL TRANSMISSION	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
ADA	1	ALLOCATED DIRECT ASSIGNMENTS								
ADA	2	DIRECT ASSIGN TO CLASSES W/SALES REV FUNCTIONS								
ADA	3									
ADA	4	AVAILABLE								
ADA	5									
ADA	6	Residential A-1 Sales Revenue	SREVRA1	0	0	0	0	0	0	
ADA	7	Residential A-2 Sales Revenue	SREVRA2	0	0	0	0	0	0	
ADA	8	Residential AH-1 Sales Revenue	SREVRAH1	0	0	0	0	0	0	
ADA	9	General Service C1 Sales Revenue	SREVGSC1	0	0	0	0	0	0	
ADA	10	General Service C1 Sales Revenue	SREVGSC2	0	0	0	0	0	0	
ADA	11	Commercial Heating H-1 Sales Revenue	SREVCH1	0	0	0	0	0	0	
ADA	12	Light and Power P-1 Sales Revenue	SREVLPP1	0	0	0	0	0	0	
ADA	13	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCSIC	0	0	0	0	0	0	
ADA	14	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCPRI	0	0	0	0	0	0	
ADA	15	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCTRAN	0	0	0	0	0	0	
ADA	16	Real Time Market Pricing Sales Revenue	SREVRTMP	0	0	0	0	0	0	
ADA	17	Light and Power WP-3 Sales Revenue	SREVLWPP3	0	0	0	0	0	0	
ADA	18	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	0	0	0	0	0	0	
ADA	19	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	0	0	0	0	0	0	
ADA	20	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	0	0	0	0	0	0	
ADA	21	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3	0	0	0	0	0	0	
ADA	22	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4	0	0	0	0	0	0	
ADA	23									
ADA	24	Total Available	SREVAVAL	0	0	0	0	0	0	
ADA	25									
ADA	26	Total Available	SREVAVAL	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
ADA	27									
ADA	28									
ADA	29									
ADA	30									
ADA	31									
ADA	32									
ADA	33									
ADA	34									
ADA	35									
ADA	36									
ADA	37									
ADA	38									
ADA	39									
ADA	40									
ADA	41									
ADA	42									
ADA	43									
ADA	44									
ADA	45									
ADA	46									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	Integrated Retail Residential A-1	Iron River Residential A-2	Res. Heating AH-1		General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
ADA	1	ALLOCATED DIRECT ASSIGNMENTS										
ADA	2	DIRECT ASSIGN TO CLASSES W/SALES REV FUNCTIONS										
ADA	3											
ADA	4	AVAILABLE										
ADA	5											
ADA	6	Residential A-1 Sales Revenue	SREVRA1		0	0	0		0	0	0	0
ADA	7	Residential A-2 Sales Revenue	SREVRA2		0	0	0		0	0	0	0
ADA	8	Residential AH-1 Sales Revenue	SREVRAH1		0	0	0		0	0	0	0
ADA	9	General Service C1 Sales Revenue	SREVGSC1		0	0	0		0	0	0	0
ADA	10	General Service C1 Sales Revenue	SREVGSC2		0	0	0		0	0	0	0
ADA	11	Commercial Heating H-1 Sales Revenue	SREVCH1		0	0	0		0	0	0	0
ADA	12	Light and Power P-1 Sales Revenue	SREVLPP1		0	0	0		0	0	0	0
ADA	13	Large Commercial & Indust CP-U Sec Sales Rev	SREVLICISEC		0	0	0		0	0	0	0
ADA	14	Large Commercial & Indust CP-U Prim Sales Rev	SREVLICIPRI		0	0	0		0	0	0	0
ADA	15	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCITRAN		0	0	0		0	0	0	0
ADA	16	Real Time Market Pricing Sales Revenue	SREVRTMP		0	0	0		0	0	0	0
ADA	17	Light and Power WP-3 Sales Revenue	SREVLPPWP3		0	0	0		0	0	0	0
ADA	18	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3		0	0	0		0	0	0	0
ADA	19	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5		0	0	0		0	0	0	0
ADA	20	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6		0	0	0		0	0	0	0
ADA	21	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3		0	0	0		0	0	0	0
ADA	22	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4		0	0	0		0	0	0	0
ADA	23											
ADA	24	Total Available	SREVAVAL		0	0	0		0	0	0	0
ADA	25											
ADA	26	Total Available	SREVAVAL		0.00000	0.00000	0.00000		0.00000	0.00000	0.00000	0.00000
ADA	27											
ADA	28											
ADA	29											
ADA	30											
ADA	31											
ADA	32											
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ADA	45											
ADA	46											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
COS Without Minimum System				Large Comm & Ind	S	P	Q	T	Q	
SCH	LINE	DESCRIPTION	ALLOCATION	CP-U	Secondary	Primary	Transmission	Real-Time	Light & Power	
ID	NO.		BASIS	Total	CP-U Sec	CP-U Prim	CP-U Trans	Market Pricing	WP-3	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
										(z)
ADA	1	ALLOCATED DIRECT ASSIGNMENTS								
ADA	2	DIRECT ASSIGN TO CLASSES W/SALES REV FUNCTIONS								
ADA	3									
ADA	4	AVAILABLE								
ADA	5									
ADA	6	Residential A-1 Sales Revenue	SREVRA1	0	0	0	0	0	0	0
ADA	7	Residential A-2 Sales Revenue	SREVRA2	0	0	0	0	0	0	0
ADA	8	Residential AH-1 Sales Revenue	SREVRAH1	0	0	0	0	0	0	0
ADA	9	General Service C1 Sales Revenue	SREVGSC1	0	0	0	0	0	0	0
ADA	10	General Service C1 Sales Revenue	SREVGSC2	0	0	0	0	0	0	0
ADA	11	Commercial Heating H-1 Sales Revenue	SREVCH1	0	0	0	0	0	0	0
ADA	12	Light and Power P-1 Sales Revenue	SREVLPP1	0	0	0	0	0	0	0
ADA	13	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCISEC	0	0	0	0	0	0	0
ADA	14	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCIPRI	0	0	0	0	0	0	0
ADA	15	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCITRAN	0	0	0	0	0	0	0
ADA	16	Real Time Market Pricing Sales Revenue	SREVRTMP	0	0	0	0	0	0	0
ADA	17	Light and Power WP-3 Sales Revenue	SREVLPPW3	0	0	0	0	0	0	0
ADA	18	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	0	0	0	0	0	0	0
ADA	19	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	0	0	0	0	0	0	0
ADA	20	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	0	0	0	0	0	0	0
ADA	21	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3	0	0	0	0	0	0	0
ADA	22	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4	0	0	0	0	0	0	0
ADA	23									
ADA	24	Total Available	SREVAVAL	0	0	0	0	0	0	0
ADA	25									
ADA	26	Total Available	SREVAVAL	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
ADA	27									
ADA	28									
ADA	29									
ADA	30									
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ADA	45									
ADA	46									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT			RETAIL SYSTEM							
SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	S Street Lighting SL-3	S Street Light (Closed) SL-5	S Street Lighting SL-6	Street Lighting Total	S Integrated OSL Z-3	S Iron River OSL Z-4	
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)	(ag) (ah)
ADA	1	ALLOCATED DIRECT ASSIGNMENTS								
ADA	2	DIRECT ASSIGN TO CLASSES W/SALES REV FUNCTIONS								
ADA	3									
ADA	4	AVAILABLE								
ADA	5									
ADA	6	Residential A-1 Sales Revenue	SREVRA1	0	0	0	0	0	0	
ADA	7	Residential A-2 Sales Revenue	SREVRA2	0	0	0	0	0	0	
ADA	8	Residential AH-1 Sales Revenue	SREVRAH1	0	0	0	0	0	0	
ADA	9	General Service C1 Sales Revenue	SREVGSC1	0	0	0	0	0	0	
ADA	10	General Service C1 Sales Revenue	SREVGSC2	0	0	0	0	0	0	
ADA	11	Commercial Heating H-1 Sales Revenue	SREVCH1	0	0	0	0	0	0	
ADA	12	Light and Power P-1 Sales Revenue	SREVLPP1	0	0	0	0	0	0	
ADA	13	Large Commercial & Indust CP-U Sec Sales Rev	SREVLCISEC	0	0	0	0	0	0	
ADA	14	Large Commercial & Indust CP-U Prim Sales Rev	SREVLCIPRI	0	0	0	0	0	0	
ADA	15	Large Commercial & Indust CP-U Trans Sales Rev	SREVLCITRAN	0	0	0	0	0	0	
ADA	16	Real Time Market Pricing Sales Revenue	SREVRTMP	0	0	0	0	0	0	
ADA	17	Light and Power WP-3 Sales Revenue	SREVLPPW3	0	0	0	0	0	0	
ADA	18	Street Lighting Municipality SL-3 Sales Revenue	SREVSL3	0	0	0	0	0	0	
ADA	19	Street Lighting Municipality SL-5 Sales Revenue	SREVSL5	0	0	0	0	0	0	
ADA	20	Street Lighting Municipality SL-6 Sales Revenue	SREVSL6	0	0	0	0	0	0	
ADA	21	Lighting-Customer Owned Z-3 Sales Revenue	SREVOSLZ3	0	0	0	0	0	0	
ADA	22	Lighting-Customer Owned Z-4 Sales Revenue	SREVOSLZ4	0	0	0	0	0	0	
ADA	23									
ADA	24	Total Available	SREVAVAL	0	0	0	0	0	0	
ADA	25									
ADA	26	Total Available	SREVAVAL	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
ADA	27									
ADA	28									
ADA	29									
ADA	30									
ADA	31									
ADA	32									
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ADA	45									
ADA	46									

Upper Peninsula Power Company
Forecasted Cost of Service Allocation Study
Forecast 12 Month Period ending December 31, 2027
RETAIL SYSTEM

PRODUCTION DEMAND COMPONENT

SCH ID	LINE NO.	DESCRIPTION	ALLOCATION BASIS	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERICAL SECONDARY	TOTAL COMMERICAL PRIMARY	TOTAL TRANSMISSION	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		COS Without Minimum System								
RRW	1	REVENUE REQUIREMENTS								
RRW	2									
RRW	3	PRESENT RATES								
RRW	4	-----								
RRW	5	RATE BASE		58,368,899	31,620,981	197,894	18,210,756	1,243,252	7,096,017	
RRW	6	NET OPER INC (PRESENT RATES)		2,277,020	1,084,124	8,784	1,194,365	(318,347)	308,095	
RRW	7	RATE OF RETURN (PRES RATES)		3.90%	3.43%	4.44%	6.56%	-25.61%	4.34%	
RRW	8	RELATIVE RATE OF RETURN		1.00	0.88	1.14	1.68	-6.56	1.11	
RRW	9	SALES REVENUE (PRE RATES)		16,966,929	8,965,384	59,062	5,942,507	(126,009)	2,125,985	
RRW	10	REVENUE PRES RATES \$/KWH		\$0.0244	\$0.0355	\$0.0270	\$0.0252	(\$0.0034)	\$0.0126	
RRW	11	REVENUE REQUIRED - \$/MO/CUST		\$315.15	\$187.57	\$845.76	\$996.41	(\$18,001.28)	\$0.00	
RRW	12	SALES REV REQUIRED \$/KW		\$13.22	\$0.00	\$0.00	\$12.77	(\$2.51)	\$2.77	
RRW	13									
RRW	14	CLAIMED RATE OF RETURN								
RRW	15	-----								
RRW	16	CLAIMED RATE OF RETURN		6.71%	6.71%	6.71%	6.71%	6.71%	6.71%	
RRW	17	RETURN REQ FOR CLAIMED ROR		3,918,304	2,122,716	13,285	1,222,488	83,460	476,356	
RRW	18	SALES REVENUE REQ CLAIMED ROR		19,147,867	10,345,466	65,043	5,979,877	407,912	2,349,569	
RRW	19	REVENUE DEFICIENCY (SUFFICIENCY) SALES REV		2,180,938	1,380,082	5,981	37,370	533,921	223,585	
RRW	20	PERCENT INCREASE/DECREASE REQUIRED		11.39%	13.34%	9.20%	0.62%	0.00%	9.52%	
RRW	21	ANNUAL BOOKED KWH SALES		696,608,428	252,662,632	2,188,500	236,043,802	37,036,842	168,676,652	
RRW	22	SALES REV REQUIRED \$/KWH		\$0.0275	\$0.0409	\$0.0297	\$0.0253	\$0.0110	\$0.0139	
RRW	23	REVENUE DEFICIENCY (SUFFICIENCY) \$/KWH		\$0.0031	\$0.0055	\$0.0027	\$0.0002	\$0.0144	\$0.0013	
RRW	24									
RRW	25									
RRW	26									
RRW	27									
RRW	28									
RRW	29									
RRW	30									
RRW	31									
RRW	32									
RRW	33									
RRW	34									
RRW	35									
RRW	36									
RRW	37									
RRW	38									
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RRW	40									
RRW	41									
RRW	42									
RRW	43									
RRW	44									
RRW	45									
RRW	46									

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027												
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM								
COS Without Minimum System				S	S	S		S	S	S	S	
SCH	LINE		ALLOCATION	Integrated Retail	Iron River			General Service	General Service	Commercial	25kW-200kW	
ID	NO.	DESCRIPTION	BASIS	Residential	Residential	Res. Heating		C-1	C-2	Heating	Light & Power	
		(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
RRW	1	REVENUE REQUIREMENTS										
RRW	2											
RRW	3	PRESENT RATES										
RRW	4	-----										
RRW	5	RATE BASE			28,793,232	0	2,827,749		8,027,330	0	735,783	7,381,715
RRW	6	NET OPER INC (PRESENT RATES)			1,125,706	0	(41,581)		321,074	0	(4,831)	986,326
RRW	7	RATE OF RETURN (PRES RATES)			3.91%	0.00%	-1.47%		4.00%	0.00%	-0.66%	13.36%
RRW	8	RELATIVE RATE OF RETURN			1.00	0.00	-0.38		1.03	0.00	-0.17	3.43
RRW	9	SALES REVENUE (PRE RATES)			8,350,331	0	615,053		2,330,053	0	167,509	3,078,782
RRW	10	REVENUE PRES RATES \$/KWH			\$0.0363	\$0.0000	\$0.0273		\$0.0372	\$0.0000	\$0.0267	\$0.0386
RRW	11	REVENUE REQUIRED - \$/MO/CUST			\$185.32	\$0.00	\$224.64		\$449.05	\$0.00	\$834.41	\$5,834.71
RRW	12	SALES REV REQUIRED \$/KW			\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$9.04
RRW	13											
RRW	14	CLAIMED RATE OF RETURN										
RRW	15	-----										
RRW	16	CLAIMED RATE OF RETURN			6.71%	6.71%	6.71%		6.71%	6.71%	6.71%	6.71%
RRW	17	RETURN REQ FOR CLAIMED ROR			1,932,890	0	189,827		538,875	0	49,393	495,535
RRW	18	SALES REVENUE REQ CLAIMED ROR			9,422,917	0	922,548		2,619,466	0	239,561	2,426,618
RRW	19	REVENUE DEFICIENCY (SUFFICIENCY) SALES REV			1,072,586	0	307,495		289,413	0	72,053	(652,164)
RRW	20	PERCENT INCREASE/DECREASE REQUIRED			11.38%	0.00%	33.33%		11.05%	0.00%	30.08%	-26.88%
RRW	21	ANNUAL BOOKED KWH SALES			230,118,977	0	22,543,655		62,655,982	0	6,268,674	79,673,221
RRW	22	SALES REV REQUIRED \$/KWH			\$0.0409	\$0.0000	\$0.0409		\$0.0418	\$0.0000	\$0.0382	\$0.0305
RRW	23	REVENUE DEFICIENCY (SUFFICIENCY) \$/KWH			\$0.0047	\$0.0000	\$0.0136		\$0.0046	\$0.0000	\$0.0115	(\$0.0082)
RRW	24											
RRW	25											
RRW	26											
RRW	27											
RRW	28											
RRW	29											
RRW	30											
RRW	31											
RRW	32											
RRW	33											
RRW	34											
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RRW	37											
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RRW	40											
RRW	41											
RRW	42											
RRW	43											
RRW	44											
RRW	45											
RRW	46											

Upper Peninsula Power Company Forecasted Cost of Service Allocation Study Forecast 12 Month Period ending December 31, 2027										
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM						
COS Without Minimum System				Large Comm & Ind	Large Commercial & Industrial		Transmission	Real-Time	> 5,000kW	
SCH	LINE	DESCRIPTION	ALLOCATION	CP-U	Secondary	Primary	CP-U Trans	Market Pricing	Light & Power	
ID	NO.		BASIS	Total	CP-U Sec	CP-U Prim		RTMP	WP-3	
		(a)	(b)	(s)	(t)	(u)	(v)	(w)	(x)	(y)
		(z)								
RRW	1	REVENUE REQUIREMENTS								
RRW	2									
RRW	3	PRESENT RATES								
RRW	4	-----								
RRW	5	RATE BASE								
RRW	6	NET OPER INC (PRESENT RATES)								
RRW	7	RATE OF RETURN (PRES RATES)								
RRW	8	RELATIVE RATE OF RETURN								
RRW	9	SALES REVENUE (PRE RATES)								
RRW	10	REVENUE PRES RATES \$/KWH								
RRW	11	REVENUE REQUIRED - \$/MO/CUST								
RRW	12	SALES REV REQUIRED \$/KW								
RRW	13									
RRW	14	CLAIMED RATE OF RETURN								
RRW	15	-----								
RRW	16	CLAIMED RATE OF RETURN								
RRW	17	RETURN REQ FOR CLAIMED ROR								
RRW	18	SALES REVENUE REQ CLAIMED ROR								
RRW	19	REVENUE DEFICIENCY (SUFFICIENCY) SALES REV								
RRW	20	PERCENT INCREASE/DECREASE REQUIRED								
RRW	21	ANNUAL BOOKED KWH SALES								
RRW	22	SALES REV REQUIRED \$/KWH								
RRW	23	REVENUE DEFICIENCY (SUFFICIENCY) \$/KWH								
RRW	24									
RRW	25									
RRW	26									
RRW	27									
RRW	28									
RRW	29									
RRW	30									
RRW	31									
RRW	32									
RRW	33									
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RRW	36									
RRW	37									
RRW	38									
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RRW	40									
RRW	41									
RRW	42									
RRW	43									
RRW	44									
RRW	45									
RRW	46									

Upper Peninsula Power Company											
Forecasted Cost of Service Allocation Study											
Forecast 12 Month Period ending December 31, 2027											
PRODUCTION DEMAND COMPONENT				RETAIL SYSTEM							
COS Without Minimum System				S	S	S		S	S		
SCH	LINE		ALLOCATION	Street	Street Light	Street	Street	Integrated	Iron River		
ID	NO.	DESCRIPTION	BASIS	Lighting	(Closed)	Lighting	Lighting	OSL	OSL		
				SL-3	SL-5	SL-6	Total	Z-3	Z-4	(ag)	(ah)
		(a)	(b)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)		
RRW	1	REVENUE REQUIREMENTS									
RRW	2										
RRW	3	PRESENT RATES									
RRW	4	-----									
RRW	5	RATE BASE		30,891	1,662	125,943	158,496	39,397	0		
RRW	6	NET OPER INC (PRESENT RATES)		(961)	201	8,065	7,304	1,479	0		
RRW	7	RATE OF RETURN (PRES RATES)		-3.11%	12.08%	6.40%	4.61%	3.75%	0.00%		
RRW	8	RELATIVE RATE OF RETURN		-0.80	3.10	1.64	1.18	0.96	0.00		
RRW	9	SALES REVENUE (PRE RATES)		6,019	665	40,749	47,432	11,630	0		
RRW	10	REVENUE PRES RATES \$/KWH		\$0.0200	\$0.0377	\$0.0282	\$0.0269	\$0.0272	\$0.0000		
RRW	11	REVENUE REQUIRED - \$/MO/CUST		\$86.19	\$0.00	\$0.00	\$679.22	\$0.00	\$0.00		
RRW	12	SALES REV REQUIRED \$/KW		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
RRW	13										
RRW	14	CLAIMED RATE OF RETURN									
RRW	15	-----									
RRW	16	CLAIMED RATE OF RETURN		6.71%	6.71%	6.71%	6.71%	6.71%	6.71%		
RRW	17	RETURN REQ FOR CLAIMED ROR		2,074	112	8,455	10,640	2,645	0		
RRW	18	SALES REVENUE REQ CLAIMED ROR		10,051	546	41,267	51,864	13,179	0		
RRW	19	REVENUE DEFICIENCY (SUFFICIENCY) SALES REV		4,033	(119)	518	4,432	1,549	(0)		
RRW	20	PERCENT INCREASE/DECREASE REQUIRED		40.12%	-21.73%	1.26%	8.55%	11.75%	0.00%		
RRW	21	ANNUAL BOOKED KWH SALES		300,197	17,636	1,443,634	1,761,467	427,033	0		
RRW	22	SALES REV REQUIRED \$/KWH		\$0.0335	\$0.0310	\$0.0286	\$0.0294	\$0.0309	\$0.0000		
RRW	23	REVENUE DEFICIENCY (SUFFICIENCY) \$/KWH		\$0.0134	(\$0.0067)	\$0.0004	\$0.0025	\$0.0036	\$0.0000		
RRW	24										
RRW	25										
RRW	26										
RRW	27										
RRW	28										
RRW	29										
RRW	30										
RRW	31										
RRW	32										
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RRW	43										
RRW	44										
RRW	45										
RRW	46										

State Reliability Mechanism: Capacity Charge

LINE NO.	DESCRIPTION	INTEGRATED RETAIL SYSTEM	TOTAL RESIDENTIAL	TOTAL LIGHTING	TOTAL COMMERCIAL SECONDARY	TOTAL COMMERCIAL PRIMARY	TOTAL TRANSMISSION	Integrated Retail A-1	Iron River Residential A-2	Res. Heating AH-1	General Service C-1	General Service C-2	Commercial Heating H-1	25kW-200kW Light & Power P-1
1														
2														
3														
4	Plant in Service: Production Demand Component	\$ 133,043,876.05	\$ 72,311,983.09	\$ 451,348.65	\$ 41,465,811.88	\$ 2,792,244.34	\$ 16,022,488.28	\$ 65,845,285.81	\$ -	\$ 6,466,697.28	\$ 18,360,123.66	\$ -	\$ 1,681,942.65	\$ 16,839,814.50
5	Depreciation Reserve: Production Demand Component	\$ 186,749,284.63	\$ 47,149,955.26	\$ 294,295.19	\$ 27,037,367.17	\$ 1,820,641.35	\$ 10,447,225.66	\$ 42,933,441.29	\$ -	\$ 4,216,513.98	\$ 11,971,446.12	\$ -	\$ 1,096,620.54	\$ 10,980,151.09
6	CWIP: Production Demand Related	\$ 865,366.07	\$ 470,343.61	\$ 2,935.74	\$ 269,708.82	\$ 18,161.78	\$ 104,216.13	\$ 428,281.84	\$ -	\$ 42,061.77	\$ 119,420.97	\$ -	\$ 10,939.32	\$ 109,532.32
7	Materials & Supplies: Demand Related	\$ 221,630.45	\$ 120,460.53	\$ 751.88	\$ 69,075.60	\$ 1,650.45	\$ 109,688.02	\$ 109,688.02	\$ -	\$ 10,772.51	\$ 30,585.11	\$ -	\$ 2,801.69	\$ 28,052.52
8	Property, Payroll, & Income Tax: Demand Related	\$ 2,613,366.21	\$ 1,368,100.00	\$ 9,233.82	\$ 982,348.88	\$ 72,217.68	\$ 325,901.19	\$ 1,293,771.58	\$ -	\$ 74,328.42	\$ 363,253.55	\$ -	\$ 21,402.23	\$ 572,816.67
9	Total	\$ 49,551,693.27	\$ 26,880,010.91	\$ 168,471.14	\$ 15,611,626.81	\$ 912,895.44	\$ 5,978,688.96	\$ 24,524,209.93	\$ -	\$ 2,355,800.98	\$ 6,840,766.95	\$ -	\$ 614,761.97	\$ 6,513,959.88
10														
11	Required Rate of Return	6.713%	6.713%	6.713%	6.713%	6.713%	6.713%	6.713%	6.713%	6.713%	6.713%		6.713%	6.713%
12														
13	O&M Non Fuel: Demand Related	\$ 3,595,403.98	\$ 1,888,685.13	\$ 12,120.59	\$ 1,132,524.79	\$ 86,980.70	\$ 475,092.78	\$ 1,719,812.19	\$ -	\$ 168,872.94	\$ 478,728.07	\$ -	\$ 44,140.27	\$ 451,144.01
14														
15	Depreciation Expense: Demand Related	\$ 5,400,943.85	\$ 2,935,520.01	\$ 18,322.59	\$ 1,683,313.27	\$ 113,351.73	\$ 650,436.25	\$ 2,673,003.09	\$ -	\$ 262,516.92	\$ 745,333.04	\$ -	\$ 68,274.75	\$ 683,615.78
16														
17	Amortization: Demand Related	\$ 196,166.07	\$ 106,620.15	\$ 665.49	\$ 61,139.12	\$ 97,085.35	\$ 23,624.30	\$ 97,085.35	\$ -	\$ 9,534.80	\$ 27,071.02	\$ -	\$ 2,479.79	\$ 28,829.40
18														
19	Real Estate and Property Tax: Demand Related	\$ 2,184,235.71	\$ 1,187,175.39	\$ 7,409.98	\$ 680,761.19	\$ 45,841.41	\$ 263,047.74	\$ 1,081,008.98	\$ -	\$ 106,166.41	\$ 301,425.66	\$ -	\$ 27,611.50	\$ 276,466.12
20														
21	Total Rate Base	\$ 403,564,015.71	\$ 245,990,857.52	\$ 3,870,575.99	\$ 125,650,394.33	\$ 3,006,463.49	\$ 25,045,724.39	\$ 221,863,850.22	\$ -	\$ 24,127,007.29	\$ 66,062,170.04	\$ -	\$ 5,868,407.19	\$ 30,399,125.20
22														
23	Capacity Related Revenue Requirement:	\$ 9,619,222.50	\$ 5,148,853.80	\$ 32,065.41	\$ 3,017,723.83	\$ 209,738.70	\$ 1,210,840.77	\$ 4,691,776.91	\$ -	\$ 457,076.88	\$ 1,306,174.18	\$ -	\$ 119,292.23	\$ 1,242,084.60
24														
25	3(b) Adjustments													
26	Capacity Revenue	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27	Ancillary Services + Opp Sales	\$ 357,985.00	\$ 131,702.79	\$ 1,140.78	\$ 123,040.07	\$ 18,574.90	\$ 83,526.47	\$ 119,951.70	\$ -	\$ 11,751.09	\$ 32,660.02	\$ -	\$ 3,267.61	\$ 41,530.42
28	UPPCD Generation + LMP	\$ 6,014,236.61	\$ 3,008,633.56	\$ 20,745.11	\$ 1,804,096.19	\$ 65,499.45	\$ 515,262.31	\$ 3,285,772.10	\$ -	\$ 322,861.46	\$ 920,588.14	\$ -	\$ 82,789.12	\$ 779,759.11
29	Total	\$ 6,372,221.61	\$ 3,740,336.35	\$ 21,885.88	\$ 1,927,136.26	\$ 84,074.35	\$ 598,788.77	\$ 3,405,723.80	\$ -	\$ 334,612.55	\$ 953,248.17	\$ -	\$ 86,056.72	\$ 821,289.53
30														
31	Net Capacity Related Revenue Requirement	\$ 3,247,000.88	\$ 1,408,517.45	\$ 10,179.52	\$ 1,090,587.57	\$ 125,664.35	\$ 612,051.99	\$ 1,286,053.12	\$ -	\$ 122,464.33	\$ 352,926.01	\$ -	\$ 33,235.51	\$ 420,795.07
32														
33	UPP 2026/27 PRMR (Summer)	\$ 116.70												
34	\$/MWh-Year	\$ 27,823.49												
35	\$/MWh-Day	\$ 76.23												
36														
37														
38														
39														
40	Firm 12CP Allocator	826,390.65						451,483.96		44,363.02	126,494.10		11,375.70	107,143.38
41	Firm 12 CP Allocator (%)							54.633%		5.368%	15.307%		1.377%	12.965%
42														

Large Comm & Ind CP-U Total	Secondary CP-U Sec	Large Commerical & Industrial Primary CP-U Prim	Transmission CP-U Trans	Real-Time Market Pricing RTMP	> 5,000kW Light & Power WP-3	Street Lighting SL-3	Street Light (Closed) SL-6	Street Lighting SL-6	Street Lighting Total	Integrated OSL Z-3	Iron River OSL Z-4
\$ 18,820,915.15	\$ 4,584,031.08	\$ 2,792,244.14	\$ 11,444,639.93	\$ -	\$ 4,577,848.35	\$ 70,536.95	\$ 3,793.18	\$ 287,145.22	\$ 361,475.34	\$ 89,873.30	\$ -
\$ (12,271,898.37)	\$ (2,988,949.42)	\$ (1,820,641.35)	\$ (7,462,307.60)	\$ -	\$ (2,984,918.07)	\$ (45,992.57)	\$ (2,473.29)	\$ (187,228.78)	\$ (235,694.63)	\$ (58,600.55)	\$ -
\$ 122,418.12	\$ 29,816.22	\$ 18,161.78	\$ 74,440.13	\$ -	\$ 29,776.00	\$ 458.80	\$ 24.67	\$ 1,867.70	\$ 2,351.17	\$ 584.57	\$ -
\$ (31,352.72)	\$ (7,636.28)	\$ (4,651.45)	\$ (19,064.99)	\$ -	\$ (7,625.98)	\$ (117.50)	\$ (6.32)	\$ (478.34)	\$ (602.16)	\$ (149.71)	\$ -
\$ 164,329.65	\$ 24,876.43	\$ (72,217.68)	\$ 211,670.91	\$ -	\$ 114,230.29	\$ 634.41	\$ 121.66	\$ 6,732.61	\$ 7,488.67	\$ 1,745.14	\$ -
\$ 6,804,411.84	\$ 1,642,138.02	\$ 912,895.44	\$ 4,249,378.38	\$ -	\$ 1,729,310.59	\$ 25,520.08	\$ 1,459.90	\$ 108,038.41	\$ 135,018.39	\$ 33,452.75	\$ -
6.713%	6.713%	6.713%	6.713%	6.713%	6.713%	6.713%	6.713%	6.713%	20.139%	6.713%	
\$ 558,380.58	\$ 158,512.44	\$ 86,980.70	\$ 312,887.44	\$ -	\$ 162,205.34	\$ 1,871.50	\$ 101.45	\$ 7,738.91	\$ 9,711.86	\$ 2,408.72	\$ -
\$ 764,038.97	\$ 186,089.70	\$ 113,351.73	\$ 464,597.54	\$ -	\$ 185,838.71	\$ 2,863.46	\$ 153.98	\$ 11,656.72	\$ 14,674.17	\$ 3,648.43	\$ -
\$ 27,750.43	\$ 6,758.91	\$ 4,117.01	\$ 16,874.51	\$ 0.00	\$ 6,749.79	\$ 104.00	\$ 5.59	\$ 423.38	\$ 532.98	\$ 132.51	\$ -
\$ 308,990.66	\$ 75,257.91	\$ 45,841.41	\$ 187,891.33	\$ 0.00	\$ 75,156.41	\$ 1,158.03	\$ 62.27	\$ 4,714.18	\$ 5,934.49	\$ 1,475.49	\$ -
\$ 42,730,751.87	\$ 23,320,691.90	\$ 3,006,463.49	\$ 16,403,596.49	\$ 135,249.70	\$ 8,506,878.20	\$ 642,139.45	\$ 33,949.57	\$ 2,688,901.54	\$ 3,364,990.56	\$ 505,585.43	\$ -
\$ 1,406,131.88	\$ 350,172.82	\$ 209,738.70	\$ 846,220.36	\$ 0.00	\$ 364,620.40	\$ 4,948.61	\$ 271.28	\$ 20,445.78	\$ 25,665.68	\$ 6,399.73	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
\$ 98,412.39	\$ 45,582.02	\$ 18,574.90	\$ 34,255.47	\$ -	\$ 49,271.00	\$ 156.48	\$ 9.19	\$ 752.51	\$ 918.18	\$ 232.59	\$ -
\$ 601,721.57	\$ 20,959.82	\$ 65,499.45	\$ 515,262.31	\$ -	\$ -	\$ 3,363.72	\$ 176.54	\$ 13,048.60	\$ 16,588.87	\$ 4,156.24	
\$ 700,133.96	\$ 66,541.84	\$ 84,074.35	\$ 549,517.78	\$ -	\$ 49,271.00	\$ 3,520.20	\$ 185.74	\$ 13,801.11	\$ 17,507.05	\$ 4,378.84	
\$ 705,997.92	\$ 283,630.98	\$ 125,664.35	\$ 296,702.58	\$ 0.00	\$ 315,349.41	\$ 1,428.41	\$ 85.55	\$ 6,644.67	\$ 8,158.63	\$ 2,020.89	

2,880.00
0.349%

9,000.00
1.089%

70,800.00
8.567%

462.19
0.056%

24.26
0.003%

1,792.95
0.217%

571.09
0.069%

State Reliability Mechanism: 3(b) Offset Calculation

Line No.	Month	Victoria	Hoist	McClure	Gladstone	Prickett	UPPCO Generation Total	Market Value of UPPCO Generation
1	Units	(MWh)	(MWh)	(MWh)	(MWh)	(MWh)	(MWh)	(\$)
2								
3	January	5,331.10	1,160.32	3,254.33	20.26	560.62	10,326.64	\$ 604,842.18
4	February	4,213.17	864.89	2,450.16	-	577.98	8,106.21	\$ 510,487.91
5	March	5,853.91	1,152.74	3,365.27	-	902.58	11,274.50	\$ 534,051.56
6	April	7,042.43	1,648.26	4,395.59	-	1,217.76	14,304.04	\$ 568,171.89
7	May	5,818.05	2,000.07	4,976.60	-	1,080.63	13,875.35	\$ 552,893.63
8	June	4,131.07	1,509.73	4,141.64	8.62	581.83	10,372.90	\$ 492,071.17
9	July	3,885.96	926.37	2,657.81	13.58	-	7,483.71	\$ 386,569.34
10	August	2,914.99	667.81	2,046.39	35.64	-	5,664.84	\$ 298,541.32
11	September	3,813.18	798.80	2,324.13	9.83	-	6,945.94	\$ 318,233.59
12	October	5,417.73	1,260.52	3,579.40	-	769.36	11,027.01	\$ 472,858.02
13	November	6,212.22	1,327.16	4,039.76	-	835.90	12,415.03	\$ 552,459.44
14	December	6,495.46	1,305.68	3,765.30	-	766.42	12,332.85	\$ 723,056.56
15								
16	Total	61,129.28	14,622.35	40,996.37	87.93	7,293.08	124,129.02	\$ 6,014,236.61

Forecast Adjustment/Inputs Summary								
A	B	C	D	E	F	G	H	I
Forecast Adjustment No.	Exhibit No. / Table No.	Category	FERC reference	2024	2025	2026	2027 (Projected Test Year)	
1		Base Inflation (Core CPI)				3.1%	2.6%	factor
2		UPPCO Inflation Factor				0.0%	2.0%	factor
3		S&W Adjustment - Union						factor
4		S&W Adjustment - Non-Union (Administrative)						factor
5		Distribution Line Clearance	FERC 593	11.6%	1.6%	15.9%	7.0%	Individual Factor
6	Exhibit A-44 (NLW-37)	Bad Debt Expense	FERC 904	\$ 281,208	\$ 248,185	\$ 383,424	\$ 327,726	Core Inflation
7	Exhibit A-49 (NEK-13)	Pension Expense	FERC 926060		\$ (112,762)	\$ 455,560	\$ 1,930,303	input
8	Exhibit A-49 (NEK-13)	Post Retirement Medical	FERC 926180		\$ (1,187,902)	\$ (693,040)	\$ (512,731)	input
9	Exhibit A-49 (NEK-13)	Pension Restoration	FERC 926210		\$ 14,585	\$ 15,248	\$ 13,469	input
10	Exhibit A-49 (NEK-13)	Supple Emp Ret Plan-SERP	FERC 926220		\$ 11,665	\$ 11,519	\$ 10,142	input
11	Exhibit A-49 (NEK-13)	Post Retirement Life	FERC 926305		\$ 78,294	\$ 78,231	\$ 73,088	input
12	Exhibit A-49 (NEK-13)	Medical Benefits - Active Employees	FERC 926090		\$ 1,999,027	\$ 2,403,323	\$ 2,762,206	Individual Factor

FERC 926 Summary - Pension, OPEB, and Other Benefits Expense				
	a	b	c	d
Line		2025 Actuals	2026 Projected	2027 Projected Test Year
1	Average no. of employees	193	202	202
2	Pension Summary			
3	UPPCO Retirement Plan	(112,762)	455,560	1,930,303
4	UPPCO SERP Plan	11,665	11,519	10,142
5	UPPCO Restoration Plan	14,585	15,248	13,469
6	Total Pension	(86,512)	482,327	1,953,914
7				
8	OPEB Summary			
9	Administrative Medical	82,548	110,993	170,664
10	Non-Administrative Medical	(1,270,450)	(804,033)	(683,395)
11	Retiree Life Insurance	78,294	78,231	73,088
12	Total OPEB	(1,109,608)	(614,809)	(439,643)
13				
14	Pension and OPEB Allocated to Capital	352,892	354,277	346,487
15				
16	Total Pension and OPEB in FERC 926	(1,549,012)	(486,759)	1,167,784
17				
18	Cost escalation factors			
19	Other Benefits Expense			
20	A&G-Employee Pensions and Bene	520,363	518,128	537,182
21	Company Cash Match 401k	760,467	913,053	956,614
22	UPPCo A&GOperEmpBenSickLvTrm-G	21,710	18,541	18,531
23	Dental Benefits-Active Empl	99,635	103,315	118,743
24	Medical Benefits-Active Empl	1,999,027	2,403,323	2,762,206
25	Fully Insured LTD Prem Exp	-	-	-
26	Empl Ben-Tuition Reimbursement	20,969	30,932	31,551
27	Empl Ben-Relocation Reimbursement	53,203	47,200	48,144
28	Company Prov Life Insurance	79,411	85,989	85,939
29	Defined Contribution Plan Exp	647,319	673,255	705,375
30	LT Disability Benefit	74,475	79,245	79,199
31	ST Disabil FASB 112	39,050	41,276	41,252
32	Benefits-Wellness	86,399	122,558	122,487
33	Total Other Benefits Expense	4,402,027	5,036,817	5,507,222
34				
35	Total FERC 926	2,853,015	4,550,058	6,675,006

Upper Peninsula Power Company
Projection of Balance Sheet and Benefit Cost
OPEB Plans

Case No.: U-22032
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Witness: Nicholas E. Kates

Total OPEB	2025	2026	2027
Accumulated Postretirement Benefit Obligation (APBO)	(16,171,105)	(16,171,105)	(16,940,790)
Fair value of assets (FVA)	31,040,676	31,040,676	31,663,309
Funded status	14,869,571	14,869,571	14,722,519
Accumulated Other Comprehensive (Income)/Loss			
Net prior service cost/(credit)	3,842	3,842	34,446
Net (gain) / loss	(9,664,765)	(9,664,765)	(8,800,006)
Total	(9,660,923)	(9,660,923)	(8,765,560)
Service cost	581,418	646,949	647,019
Interest cost	830,997	906,913	925,193
Expected return on assets	(1,658,249)	(1,684,807)	(1,667,747)
Amortization of net prior service cost/(credit)	(257,833)	(30,604)	(288)
Amortization of net (gain)/loss	(605,941)	(453,260)	(343,643)
Net periodic benefit cost	(1,109,608)	(614,809)	(439,643)

Administrative Medical	2025	2026	2027
Accumulated Postretirement Benefit Obligation (APBO)	(1,425,851)	(1,425,851)	(1,464,151)
Fair value of assets (FVA)	1,429,544	1,429,544	1,373,594
Funded status	3,693	3,693	(90,557)
Accumulated Other Comprehensive (Income)/Loss			
Net prior service cost/(credit)	84,312	84,312	101,011
Net (gain) / loss	445,960	445,960	470,327
Total	530,272	530,272	571,338
Service cost	106,858	115,215	122,497
Interest cost	70,926	70,626	71,167
Expected return on assets	(83,084)	(80,893)	(70,906)
Amortization of net prior service cost/(credit)	(26,213)	(16,699)	13,617
Amortization of net (gain)/loss	14,061	22,744	34,289
Net periodic benefit cost	82,548	110,993	170,664
Discount rate	5.30%	4.80%	4.75%
Expected return on assets	5.50%	5.50%	5.50%
Actual return on assets		5.50%	5.50%
Amortization Period		8.84	8.84



Upper Peninsula Power Company
Projection of Balance Sheet and Benefit Cost
OPEB Plans

Case No.: U-22032
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Non-Administrative Medical	2025	2026	2027
Accumulated Postretirement Benefit Obligation (APBO)	(13,466,002)	(13,466,002)	(14,247,753)
Fair value of assets (FVA)	29,611,132	29,611,132	30,289,715
Funded status	16,145,130	16,145,130	16,041,962
Accumulated Other Comprehensive (Income)/Loss			
Net prior service cost/(credit)	0	0	0
Net (gain) / loss	(10,548,640)	(10,548,640)	(9,661,511)
Total	(10,548,640)	(10,548,640)	(9,661,511)
Service cost	474,560	531,734	524,522
Interest cost	692,607	774,000	794,865
Expected return on assets	(1,574,566)	(1,603,543)	(1,596,841)
Amortization of net prior service cost/(credit)	(217,715)	0	0
Amortization of net (gain)/loss	(645,336)	(506,224)	(405,941)
Net periodic benefit cost	(1,270,450)	(804,033)	(683,395)
Discount rate	5.80%	5.65%	5.50%
Expected return on assets	5.50%	5.50%	5.50%
Actual return on assets		5.50%	5.50%
Amortization Period		14.71	14.71

Retiree Life Insurance	2025	2026	2027
Accumulated Postretirement Benefit Obligation (APBO)	(1,279,252)	(1,279,252)	(1,228,886)
Fair value of assets (FVA)	0	0	0
Funded status	(1,279,252)	(1,279,252)	(1,228,886)
Accumulated Other Comprehensive (Income)/Loss			
Net prior service cost/(credit)	(80,470)	(80,470)	(66,565)
Net (gain) / loss	437,915	437,915	391,178
Total	357,445	357,445	324,613
Service cost	0	0	0
Interest cost	67,464	62,287	59,161
Expected return on assets	(599)	(371)	0
Amortization of net prior service cost/(credit)	(13,905)	(13,905)	(13,905)
Amortization of net (gain)/loss	25,334	30,220	27,832
Net periodic benefit cost	78,294	78,231	73,088
Discount rate	5.45%	5.10%	5.05%
Expected return on assets	5.50%	5.50%	5.50%
Actual return on assets		5.50%	5.50%
Amortization Period		10.03	9.64

The results presented in this exhibit assumes a no gain/loss projection using assumptions as of year-end 2025. The projection assumes no employer contributions to any of the plan during the projection period unless they are needed to pay for benefit payments when assets are exhausted and no



Construction Policy: Extension Allowance Calculation

Line:		A-1	AH-1	Total Residential	C-1	H-1	Energy C&I	P-1	Total CP-U	Demand C&I	
1											
2	<u>RATEBASE COSTS:</u>	<u>Account</u>									
3	Gross Plant	364	39,150,114	4,949,001	44,099,115	13,349,542	1,231,163	14,580,705	3,742,996	4,031,257	7,774,253
4		365	18,616,829	2,353,370	20,970,199	6,348,031	585,448	6,933,479	1,779,886	1,912,094	3,691,979
5		366	0	0	0	0	0	0	0	0	0
6		367	33,278,821	4,206,806	37,485,627	11,347,528	1,046,527	12,394,055	3,181,664	3,466,190	6,647,854
7								0	0	0	0
8	Depreciation & Amortization	364	(15,726,775)	(1,988,036)	(17,714,811)	(5,362,571)	(494,564)	(5,857,134)	(1,503,578)	(1,619,374)	(3,122,952)
9		365	(10,913,562)	(1,379,593)	(12,293,156)	(3,721,345)	(343,201)	(4,064,546)	(1,043,405)	(1,120,908)	(2,164,313)
10		366	0	0	0	0	0	0	0	0	0
11		367	(12,171,881)	(1,538,658)	(13,710,539)	(4,150,410)	(382,772)	(4,533,182)	(1,163,708)	(1,267,775)	(2,431,483)
12											
13	Total:		52,233,545	6,602,889	58,836,435	17,810,776	1,642,601	19,453,377	4,993,854	5,401,484	10,395,339
14											
15	Average Customer Count		45,060	2,738	47,798	5,189	201	5,390	528	54	581
16									11,239	12,333	23,572
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

RATEBASE		Residential	
COST PER CUSTOMER:			
Gross Plant:	364	\$	922.62
	365	\$	438.73
	366	\$	-
	367	\$	784.26
D&A:	364	\$	(370.62)
	365	\$	(257.19)
	366	\$	-
	367	\$	(286.85)
Total:	367	\$	1,230.95

RATEBASE		Energy C&I	
COST PER CUSTOMER:			
Gross Plant:	364	\$	2,705.35
	365	\$	1,286.46
	366	\$	-
	367	\$	2,299.63
D&A:	364	\$	(1,086.75)
	365	\$	(754.15)
	366	\$	-
	367	\$	(841.10)
Total:		\$	3,609.44

RATEBASE		Demand C&I	
COST PER KW DEMAND:			
Gross Plant:	364	\$	329.81
	365	\$	156.63
	366	\$	-
	367	\$	282.02
D&A:	364	\$	(132.49)
	365	\$	(91.82)
	366	\$	-
	367	\$	(103.15)
Total:		\$	441.00

Upper Peninsula Power Company
Projection of Balance Sheet and Benefit Cost
Pension Plans

Case No.: U-22032
Exhibit No.: A-52 (NEK-15)
Page: 1 of 2
Witness: Nicholas E. Kates

Total Pension	2025	2026	2027
Projected Benefit Obligation (PBO)	(74,900,715)	(74,900,715)	(73,883,889)
Fair value of assets (FVA)	<u>87,427,589</u>	<u>87,427,589</u>	<u>84,629,463</u>
Funded status	12,526,874	12,526,874	10,745,574
Accumulated Other Comprehensive (Income)/Loss			
Net prior service cost/(credit)	0	0	0
Net (gain) / loss	<u>41,819,175</u>	<u>41,819,175</u>	<u>43,136,522</u>
Total	41,819,175	41,819,175	43,136,522
Service cost	466,223	465,848	463,970
Interest cost	4,077,963	3,854,704	3,705,767
Expected return on assets	(5,380,712)	(4,927,926)	(4,495,347)
Amortization of net prior service cost/(credit)	0	0	0
Amortization of net (gain)/loss	<u>750,014</u>	<u>1,089,701</u>	<u>2,279,524</u>
Net periodic benefit cost	(86,512)	482,327	1,953,914

UPPCO Retirement Plan	2025	2026	2027
Projected Benefit Obligation (PBO)	(74,542,605)	(74,542,605)	(73,560,967)
Fair value of assets (FVA)	<u>87,427,589</u>	<u>87,427,589</u>	<u>84,629,463</u>
Funded status	12,884,984	12,884,984	11,068,496
Accumulated Other Comprehensive (Income)/Loss			
Net prior service cost/(credit)	0	0	0
Net (gain) / loss	<u>41,696,422</u>	<u>41,696,422</u>	<u>43,033,033</u>
Total	41,696,422	41,696,422	43,033,033
Service cost	466,223	465,848	463,970
Interest cost	4,059,776	3,838,468	3,691,177
Expected return on assets	(5,380,712)	(4,927,926)	(4,495,347)
Amortization of net prior service cost/(credit)	0	0	0
Amortization of net (gain)/loss	<u>741,951</u>	<u>1,079,170</u>	<u>2,270,503</u>
Net periodic benefit cost	(112,762)	455,560	1,930,303
Discount rate	5.60%	5.35%	5.20%
Expected return on assets	5.50%	5.50%	5.50%
Actual return on assets		5.50%	5.50%
Amortization Period		25.00	15.16



Upper Peninsula Power Company
Projection of Balance Sheet and Benefit Cost
Pension Plans

Case No.: U-22032
Exhibit No.: A-52 (NEK-15)
Page: 2 of 2
Witness: Nicholas E. Kates

UPPCO SERP Plan	2025	2026	2027
Projected Benefit Obligation (PBO)	(89,251)	(89,251)	(76,612)
Fair value of assets (FVA)	<u>0</u>	<u>0</u>	<u>0</u>
Funded status	(89,251)	(89,251)	(76,612)
Accumulated Other Comprehensive (Income)/Loss			
Net prior service cost/(credit)	0	0	0
Net (gain) / loss	<u>77,320</u>	<u>77,320</u>	<u>65,731</u>
Total	77,320	77,320	65,731
Service cost	0	0	0
Interest cost	4,456	3,897	3,334
Expected return on assets	0	0	0
Amortization of net prior service cost/(credit)	0	0	0
Amortization of net (gain)/loss	<u>7,209</u>	<u>7,622</u>	<u>6,808</u>
Net periodic benefit cost	11,665	11,519	10,142
Discount rate	5.25%	4.70%	4.70%
Expected return on assets		0.00%	0.00%
Actual return on assets		0.00%	0.00%
Amortization Period		8.97	8.53

UPPCO Restoration Plan	2025	2026	2027
Projected Benefit Obligation (PBO)	(268,859)	(268,859)	(246,310)
Fair value of assets (FVA)	<u>0</u>	<u>0</u>	<u>0</u>
Funded status	(268,859)	(268,859)	(246,310)
Accumulated Other Comprehensive (Income)/Loss			
Net prior service cost/(credit)	0	0	0
Net (gain) / loss	<u>45,433</u>	<u>45,433</u>	<u>37,758</u>
Total	45,433	45,433	37,758
Service cost	0	0	0
Interest cost	13,731	12,339	11,256
Expected return on assets	0	0	0
Amortization of net prior service cost/(credit)	0	0	0
Amortization of net (gain)/loss	<u>854</u>	<u>2,909</u>	<u>2,213</u>
Net periodic benefit cost	14,585	15,248	13,469
Discount rate	5.35%	4.85%	4.85%
Expected return on assets		0.00%	0.00%
Actual return on assets		0.00%	0.00%
Amortization Period		6.38	5.93

The results presented in this exhibit assumes a no gain/loss projection using assumptions as of year-end 2025. The projection assumes no employer contributions and no change to the asset allocation throughout the forecast period.



UPPCO Monthly Revolver											
	a	b	c	d	e	f	g	h	i	j	k
Line		Revolver	3-mo. SOFR Rate	Margin Rate	Total Rate	Montly Interest Expense	Annual Expense	Commitment Fee Rate	Capacity	Commitment Fee	# of Days
1	December-25	\$ 14,147,913							\$ 99,124,000		
2	January-26	\$ 14,671,182	3.98%	1.625%	5.61%	\$ 67,594		0.00225	\$ 41,124,000	\$ 7,711	30
3	February-26	\$ 17,028,630	3.94%	1.625%	5.57%	\$ 77,957		0.00225	\$ 38,124,000	\$ 7,148	30
4	March-26	\$ 19,232,573	3.85%	1.625%	5.47%	\$ 86,526		0.00225	\$ 36,124,000	\$ 6,773	30
5	April-26	\$ 22,141,542	3.84%	1.625%	5.47%	\$ 99,532		0.00225	\$ 33,124,000	\$ 6,211	30
6	May-26	\$ 22,141,542	3.59%	1.625%	5.22%	\$ 94,979		0.00225	\$ 26,124,000	\$ 4,898	30
7	June-26	\$ 22,141,542	3.47%	1.625%	5.09%	\$ 92,719		0.00225	\$ 20,124,000	\$ 3,773	30
8	July-26	\$ 22,141,542	3.42%	1.625%	5.04%	\$ 91,757		0.00225	\$ 5,124,000	\$ 961	30
9	August-26	\$ 22,141,542	3.39%	1.625%	5.01%	\$ 91,219		0.00225	\$ 5,124,000	\$ 961	30
10	September-26	\$ 32,141,542	3.27%	1.625%	4.90%	\$ 129,321		0.00225	\$ 27,124,000	\$ 5,086	30
11	October-26	\$ 32,141,542	3.23%	1.625%	4.85%	\$ 128,253		0.00225	\$ 22,124,000	\$ 4,148	30
12	November-26	\$ 35,641,813	3.21%	1.625%	4.84%	\$ 141,640		0.00225	\$ 18,623,729	\$ 3,492	30
13	December-26	\$ 27,641,813	3.14%	1.625%	4.77%	\$ 108,270	\$ 1,209,766	0.00225	\$ 26,623,729	\$ 4,992	30
14	January-27	\$ 27,641,813	3.97%	1.625%	5.59%	\$ 127,028		0.00225	\$ 26,623,729	\$ 4,992	30
15	February-27	\$ 33,641,813	3.97%	1.625%	5.59%	\$ 154,601		0.00225	\$ 12,623,729	\$ 2,367	30
16	March-27	\$ 39,641,813	3.97%	1.625%	5.59%	\$ 182,174		0.00225	\$ 6,623,729	\$ 1,242	30
17	April-27	\$ 39,641,813	3.95%	1.625%	5.57%	\$ 181,612		0.00225	\$ 6,623,729	\$ 1,242	30
18	May-27	\$ 40,641,813	3.95%	1.625%	5.57%	\$ 186,194		0.00225	\$ (376,271)	\$ (71)	30
19	June-27	\$ 41,641,813	3.95%	1.625%	5.57%	\$ 190,775		0.00225	\$ (1,376,271)	\$ (258)	30
20	July-27	\$ 40,641,813	3.86%	1.625%	5.49%	\$ 183,271		0.00225	\$ (376,271)	\$ (71)	30
21	August-27	\$ 40,641,813	3.86%	1.625%	5.49%	\$ 183,271		0.00225	\$ (376,271)	\$ (71)	30
22	September-27	\$ 44,641,813	3.86%	1.625%	5.49%	\$ 201,309		0.00225	\$ 32,623,729	\$ 6,117	30
23	October-27	\$ 44,641,813	3.74%	1.625%	5.37%	\$ 196,856		0.00225	\$ 32,623,729	\$ 6,117	30
24	November-27	\$ 44,641,813	3.74%	1.625%	5.37%	\$ 196,856		0.00225	\$ 32,623,729	\$ 6,117	30
25	December-27	\$ 40,641,813	3.74%	1.625%	5.37%	\$ 179,217	\$ 2,163,162	0.00225	\$ 28,623,729	\$ 5,367	30

Michigan Public Service Commission
Upper Peninsula Power Company
Customer Charges by Voltage Class

Case No. U-22032
Exhibit: A-54 (EWS-4)
Witness: Eric W. Stocking
Page: 1 of 1

Account	Residential	Commercial	Secondary	Source
Dist Operations Expense				
1 586 Meters	\$ 890,842	\$ 240,871		Exhibit A-16 Schedule F1 - O&M 150
2 587 Customer Installs	\$ -	\$ -		Exhibit A-16 Schedule F1 - O&M 151
3				
Dist Maintenance Expense				
5 597 Meters	\$ 2,403	\$ 650		Exhibit A-16 Schedule F1 - O&M 164
6				
Customer Accounts				
8 901 Supervision	\$ 500,272	\$ 62,421		Exhibit A-16 Schedule F1 - O&M 174
9 902 Meter Read	\$ 249,857	\$ 31,176		Exhibit A-16 Schedule F1 - O&M 175
10 903 Customer Records	\$ 1,143,482	\$ 142,677		Exhibit A-16 Schedule F1 - O&M 176
11 905 Miscellaneous				Exhibit A-16 Schedule F1 - O&M 178
12				
Customer Serv & Inf				
14 907 Supervision	\$ -	\$ -		Exhibit A-16 Schedule F1 - O&M 188
15 908 Customer Assistance	\$ 674,313	\$ 245,936		Exhibit A-16 Schedule F1 - O&M 189
16 909 Info & Instr	\$ -	\$ -		Exhibit A-16 Schedule F1 - O&M 190
17 910 Miscellaneous	\$ 290,373	\$ 105,905		Exhibit A-16 Schedule F1 - O&M 192
18				
Depreciation Expense	\$ 927,638.08	\$ 436,733		Exhibit A-16 Schedule F1 - DAX 3
20				
21 Return on Meters & Services in Rate Base				
22 Plant				
23 369 Services	\$ 21,483,379	\$ 3,243,563		Exhibit A-16 Schedule F1 - PLT 77
24 370 Meters	\$ 12,460,439	\$ 3,369,130		Exhibit A-16 Schedule F1 - PLT 78
25				
26 CWIP				
27 Meters and services CWIP allocated	\$ 1,901,716	\$ 370,479		Exhibit A-16 Schedule F1 - Unbundled D&A 39-40; Customer, Metering, Meter Reding, Customer
28				
29 Depreciation & Amortization Reserve				
30 369 Services	\$ 11,235,062	\$ 1,696,271		Exhibit A-16 Schedule F1 - D&A 13
31 370 Meters	\$ 3,650,768	\$ 987,117		Exhibit A-16 Schedule F1 - D&A 14
32				
33 Rate Base:	\$ 20,959,704	\$ 4,299,784		
34				
35 Weighted average cost of capital (WACC)	6.71%	6.71%		
36				
37 Return on Meters & Services in Rate Base	\$ 1,407,025	\$ 288,644		
38				
39 Property Tax				
40 property tax on meters and services	\$ 438,206	\$ 223,833		
41				
42 Total Customer Related cost	\$ 6,234,038	\$ 1,672,941		
43				
44 Customers	47,798	5,964		
45 Cost per Customer per year	130.43	280.51		
46				
47 Cost per Customer per Month	\$ 10.87	\$ 23.38		

Line	Item		LSE Load	RTMP	AES	Total
1	Monthly CP Demands (MW)					
2						
3	1	Jan-25	99.1	0.2	13.0	112.2
4	2	Feb-25	102.8	4.9	11.2	118.8
5	3	Mar-25	95.5	15.5	11.6	122.6
6	4	Apr-25	97.3	23.8	13.6	134.7
7	5	May-25	74.9	3.4	12.1	90.4
8	6	Jun-25	128.4	25.8	16.4	170.6
9	7	Jul-25	109.4	8.5	15.2	133.1
10	8	Aug-25	110.1	12.8	16.0	138.9
11	9	Sep-25	85.2	5.4	14.5	105.1
12	10	Oct-25	95.6	25.0	14.1	134.7
13	11	Nov-25	88.8	2.1	12.8	103.6
14	12	Dec-25	98.6	3.8	11.3	113.6
15						
16		Average	98.8	10.9	13.5	123.2
17		Minimum	74.9	0.2	11.2	90.4
18		Maximum	128.4	25.8	16.4	170.6
19						
20	Average Monthly CP Demands (MW)					
21						
22	1CP	June	128.4	25.8	16.4	170.6
23		Other Months	96.1	9.6	13.2	118.9
24						
25	3CP (JJA)	Jun-Aug	116.0	15.7	15.9	147.5
26		Other Months	93.1	9.3	12.7	115.1
27						
28	3CP (JAS)	Jul-Sep	101.6	8.9	15.2	125.7
29		Other Months	97.9	11.6	12.9	122.4
30						
31	4CP	Jun-Sep	108.3	13.1	15.5	136.9
32		Other Months	94.1	9.8	12.5	116.3
33						
34	6CP	Jun-Sep, Jan-Feb	105.8	9.6	14.4	129.8
35		Other Months	91.8	12.3	12.6	116.6
36						
37	8CP	Dec-Feb, May-Sep	101.1	8.1	13.7	122.9
38		Other Months	94.3	16.6	13.0	123.9
39						
40	10CP	All but Nov, Apr	100.0	10.5	13.5	124.0
41		Other Months	93.0	12.9	13.2	119.1
42						
43	12 CP	All	98.8	10.9	13.5	123.2
44						
45	Test 1: On and Off Peak Test				19% or Lower: 12 CP	
46						
47		1CP	33.6%	169.3%	24.1%	43.5%
48		3CP (JJA)	24.6%	68.2%	25.1%	28.2%
49		3CP (JAS)	3.8%	-23.4%	18.2%	2.7%
50		4CP	15.1%	33.4%	24.7%	17.7%
51		6CP	15.3%	-21.9%	14.4%	11.3%
52		8CP	7.2%	-51.3%	5.2%	-0.8%
53		10CP	7.5%	-18.8%	2.7%	4.1%
54						
55	Test 2: Low-to-Annual Peak Test				66% or Higher: 12 CP	
56						
57		All Months	58%	1%	69%	53%
58						
59	Test 3: Average-to-Annual Peak Test				81% or Higher: 12 CP	
60						
61		All Months	77%	42%	82%	72%
62						
63						