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July 2, 2018

Ms. Kavita Kale  
Executive Secretary  
Michigan Public Service Commission  
7109 W. Saginaw Highway, 3<sup>rd</sup> Floor  
Lansing, MI 48917

Re: Upper Michigan Energy Resources Corporation  
2017 Renewable Energy Reconciliation  
Case No. U-20176

Dear Ms. Kale:

Enclosed for electronic filing are the following:

- (i) Upper Michigan Energy Resources Corporation's Application;
- (ii) Direct Testimony and Exhibits of John G. Guntlisbergen (public versions); and
- (iii) Appearance of Sherri A. Wellman.

Additionally, a marked up Notice of Hearing will be e-mailed to Angela Sanderson at [sandersona2@michigan.gov](mailto:sandersona2@michigan.gov).

If you should have any questions, please kindly advise.

Very truly yours,

Miller, Canfield, Paddock and Stone, P.L.C.

By: \_\_\_\_\_  
Sherri A. Wellman

SAW/cla

cc: Ted Eidukas  
Dennis Derricks  
Koby Bailey  
John Guntlisbergen  
Colleen Sipiorski  
Amy Winkler

**STATE OF MICHIGAN**

**BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION**

\* \* \* \*

In the matter of the application of	)	
<b>UPPER MICHIGAN ENERGY RESOURCES</b>	)	
<b>CORPORATION</b> renewable energy reconciliation	)	Case No. U-20176
proceeding for the 12 month period	)	
ended December 31, 2017.	)	

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**APPLICATION**

Upper Michigan Energy Resources Corporation (“UMERC” or the “Company”) hereby requests the Michigan Public Service Commission (“Commission”) to approve the Company’s 2017 Renewable Energy Annual Report (“Report”) and reconciliation of its renewable energy revenues and expenses for the 2017 calendar year. In support thereof, the Company respectfully represents as follows:

1. UMERC is a public service corporation organized under the laws of Michigan with service centers located at 800 Industrial Park Drive, Iron Mountain, Michigan, and 1717 Tenth Avenue, Menominee, Michigan. By Order dated December 9, 2016, in Case No. U-18061, UMERC was granted authority by the Commission to, among other things, provide retail electric service to the former Michigan electric customers of Wisconsin Electric Power Company (“WEPCo”) in service areas located in Alger, Baraga, Delta, Dickinson, Gogebic, Houghton, Iron, Marquette, Menominee, and Ontonagon Counties and to the former Michigan electric and natural gas customers of Wisconsin Public Service Corporation in a service area located in Menominee County, Michigan.

2. UMERC's Michigan retail electric business is subject to the jurisdiction of the Commission pursuant to 1909 PA 106, as amended, MCL 460.551 *et seq.*; 1909 PA 300, as amended, MCL 462.2 *et seq.*; 1919 PA 419, as amended, MCL 460.51 *et seq.*; and 1939 PA 3, as amended, MCL 460.1 *et seq.*

3. The Commission's April 30, 2018 Order in Case No. U-20170 *et al.*, require the Company to file its RE reconciliation for 2017 in this matter on or before July 2, 2018.

4. By Order Approving Settlement Agreement, dated January 23, 2018, in Case No. U-18236, the Commission approved UMERC's renewable energy plan.

5. The actions with regard to renewable energy for the 2017 calendar year: (i) complied with the renewable energy standards; (ii) were consistent with the renewable energy plan, as approved by the Commission; and (iii) were reasonable and prudent.

6. Incorporated in the UMERC-WEPCo Rate Zone rate schedules are RE surcharges, as approved in Case No. U-18236. The reconciliation of the incremental RE costs and surcharge revenues for the UMERC-WEPCo Rate Zone for 2017, including interest, results in a cumulative regulatory liability balance of (\$205,376).

7. The approved renewable energy plan for the 2017 calendar year as implemented in UMERC-WPS Rate Zone did not include any renewable energy surcharges. Thus, there are no renewable energy surcharge revenues from the UMERC-WPS Rate Zone to be reconciled under PA 295, as amended.

8. The Renewable Energy Annual Reports are filed herewith as Exhibit A-2 (JGG-2) and Exhibit A-3 (JGG-3) to the prefiled direct testimony of John G. Guntlisbergen, which is filed contemporaneously herewith and in support of hereof. Certain supporting information in Exhibits A-1 (JGG-1), A-2 (JGG-2), and A-3 (JGG-3) has been redacted as confidential. The

Company will make such information available for review pursuant to an arrangement that protects the confidentiality of this information.

WHEREFORE, Upper Michigan Energy Resources Corporation requests that this Commission:

- A. Find and determine that the 2017 Renewable Energy Annual Reports for its WEPCo and WPS Rate Zones satisfy all applicable requirements;
- B. Find and determine that the actions in 2017 complied with renewable standard requirements and standards, and were reasonable and prudent;
- C. Find and determine that the reconciliations for 2017 for its WEPCo and WPS Rate Zone are correct; and
- D. Grant such other relief as is just and reasonable.

Respectfully submitted,

UPPER MICHIGAN ENERGY RESOURCES  
CORPORATION

Dated: July 2, 2018

By: \_\_\_\_\_  
Its Attorney  
Sherri A. Wellman (P38989)  
MILLER, CANFIELD, PADDOCK and STONE, P.L.C.  
One Michigan Avenue, Suite 900  
Lansing, Michigan 48933  
(517) 487-2070

Attorney for Upper Michigan Energy Resources Corporation

**STATE OF MICHIGAN**  
**BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION**

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In the matter of the application of	)	
<b>UPPER MICHIGAN ENERGY RESOURCES</b>	)	
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ended December 31, 2017.	)	

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**DIRECT TESTIMONY AND EXHIBITS OF**  
**JOHN G. GUNT LISBERGEN**  
**ON BEHALF OF**  
**UPPER MICHIGAN ENERGY RESOURCES CORPORATION**

July 2, 2018

1 **Q. Please state your name, business address, and position.**

2 A. My name is John G. Guntlisbergen. My business address is Upper Michigan Energy  
3 Resources Corporation (“UMERC” or the “Company”), 700 North Adams Street, P.O.  
4 Box 19001, Green Bay, WI 54307-9001. I am the Manager of Electric Fuel Cost  
5 Recovery in the State Regulatory Affairs Department of the WEC Energy Group  
6 (“WEC”). UMERC is a wholly owned subsidiary of WEC.

7  
8 **Q. Please describe briefly your education, professional, and utility background.**

9 A. In 1981, I graduated from St. Norbert College - De Pere, Wisconsin, with a Bachelor of  
10 Business Administration Degree in Accounting. After completing college I was  
11 employed by WPS Corp as a Depreciation Analyst and later as the Depreciation  
12 Supervisor in the Corporate Tax Department. While in the Corporate Tax Department, I  
13 performed depreciation studies on utility plant property, and determined book  
14 depreciation, tax depreciation and deferred taxes on an actual and forecasted basis. In  
15 1993, I moved to the Rates and Economic Evaluation Department as a Rates Planner. I  
16 performed cost studies and rate impact studies for generation planning and long-range  
17 corporate planning. I participated in the analysis of transmission costs and the  
18 development of the transmission tariffs for filing with the Federal Energy Regulatory  
19 Commission. I performed electric and gas cost of service studies for the Michigan and  
20 Wisconsin jurisdictions. I have also worked with the power supply areas for UMERC,  
21 Wisconsin Electric Power Company, Wisconsin Public Service Corporation and Upper  
22 Peninsula Power Company to develop Power Supply Cost Recovery (“PSCR”) plans and  
23 in the reconciliation of the PSCR costs to revenues.

1 **Q. Have you testified before a regulatory agency?**

2 A. Yes. I have testified before the Public Service Commission of Wisconsin (“PSCW”) and  
3 the Michigan Public Service Commission (“MPSC” or “Commission”).  
4

5 **Q. What is the purpose of your testimony in this proceeding?**

6 A. The purpose of my testimony is to support the reconciliation of UMER-C-WEPCO Rate  
7 Zone’s Renewable Energy (“RE”) surcharge revenues and expenses for the 12-month  
8 period ended December 31, 2017, as well as to sponsor the UMER-C-WEPCO Rate Zone  
9 and the UMER-C-WPS Rate Zones’ 2017 RE Annual Reports.  
10

11 **Q. Are you sponsoring any exhibits?**

12 A. Yes, I am sponsoring Exhibit A-1 (JGG-1), which shows the UMER-C-WEPCO Rate  
13 Zone 2017 RE reconciliation, Exhibit A-2 (JGG-2), which is the UMER-C-WEPCO Rate  
14 Zone 2017 RE Annual Report and Exhibit A-3 (JGG-3), which is the UMER-C-WPS Rate  
15 Zone 2017 RE Annual Report.  
16

17 **Q. Were these exhibits prepared by you or at your direction?**

18 A. Yes, they were.  
19

20 **Q. Please describe Exhibit A-1 (JGG-1).**

21 A. Exhibit A-1 (JGG-1) details the annual 2017 RE reconciliation on a basis consistent with  
22 the cost recovery approach in the Company’s 2017 RE Plan, which was approved by the  
23 Commission’s January 23, 2018 Order Approving Settlement Agreement in Case No. U-

1 18236. For the UMER-WEPCO Rate Zone, the 2017 RE Plan: (i) treats the costs of  
2 pre-Act 295 RE as system-wide energy costs to be recovered via traditional rate  
3 mechanisms; (ii) treats the costs of post-Act 295 RE generated at company-owned  
4 facilities (i.e., the Glacier Hills Wind Park (“Glacier Hills”), Montfort Wind Energy  
5 Center (“Montfort”), and Rothschild Biomass Cogeneration Plant (“Rothschild”)), that is  
6 allocated to Michigan, as part of system-wide energy costs to be recovered via the  
7 transfer price and RE surcharges as incremental costs of compliance (with the Rothschild  
8 incremental costs being calculated as set forth in paragraph 6e of the Settlement  
9 Agreement incorporated in the U-18236 Order); and (iii) treats the cost of REC-only  
10 purchases made specifically to comply with Act 295 requirements as recoverable via RE  
11 surcharges.

12  
13 Page 1 of Exhibit A-1, lines 1 through 10 show the calculation of the Michigan revenue  
14 requirement, the Michigan allocated amount recovered through the PSCR, and the  
15 incremental cost of compliance.<sup>1</sup> Line 11 shows the 2017 plan and RE surcharge revenue  
16 recognized. The regulatory liability shown on line 12 is the result of the incremental cost  
17 of compliance on line 10 minus the RE surcharge revenue collected on line 11. The  
18 amount on line 11 was the RE surcharges ordered in U-18236. The carrying charges  
19 calculated based on the short-term interest rate are shown on line 13. The year-end  
20 regulatory liability balance, including interest, is shown on line 14. Line 15 shows the  
21 regulatory liability on the Company’s books. Line 16 shows the incremental cost of  
22 compliance. Line 17 shows the true-up/adjustment to the regulatory liability on the

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<sup>1</sup> The Company redacted information in line 4 and line 7 due to confidentiality provisions in the agreements pursuant to which the Company obtained these REC. The Company will make such information available for review pursuant to an arrangement that protects this information.



1 Company's books. Line 18 shows the 2017 actual regulatory liability balance, as  
2 adjusted, and the cumulative regulatory liability balance, as adjusted, which matches line  
3 14. Note that the "Prior Years Actual" information on this exhibit is zero, since no RE  
4 activity or RE balances were transferred to the UMER-WEPCO Rate Zone at the time  
5 of the formation of the UMER-WEPCO Rate Zone as indicated in the UMER-WEPCO 2017 RE Plan (U-18236).

6  
7 Page 2 of Exhibit A-1 provides the calculation of the 2017 revenue requirement, transfer  
8 price revenue recovered through the PSCR and incremental cost of compliance for  
9 Glacier Hills (lines 1-9), Montfort (lines 10-18), and Rothschild (lines 19-27) is shown.  
10 The calculation of the weighted revenue requirements per MWh and the transfer price per  
11 MWh are shown on lines 31 through 38.

12  
13 Page 3 of Exhibit A-1 provides the 2017 revenue requirement, transfer price revenue, and  
14 incremental cost of compliance for Rothschild, split between wood biomass and natural  
15 gas fuels. Rothschild is a co-generation plant fueled with both biomass and natural gas  
16 (necessary for start-up and flame stabilization). As the revenue requirements are based on  
17 MWh, all MWh have been included for the purpose of allowing the Company to recover  
18 its full revenue requirements for this facility, subject to the limits set forth in Paragraph  
19 6e of the Settlement Agreement incorporated in the U-18236 Order.

20  
21 Finally, page 4 of Exhibit A-1 provides a detailed annual summary updated with actual  
22 sales, revenue requirement, MWh, surcharge revenue and carrying cost data for the 2017

1 reconciliation period. Note that Page 4 also includes data for the 2018- 2019 plan period,  
2 consistent with the RE Plan filed in MPSC Case No. U-18236.

3  
4 **Q. What is the cumulative total amount of the regulatory liability recorded on the  
5 Company's books as of December 31, 2017?**

6 A. The cumulative total regulatory liability balance on the Company's books as of  
7 December 31, 2017, is (\$547,308) as shown on Exhibit A-1 (JGG-1), Page 1, line 15.  
8 After subtracting the incremental cost of compliance (line 16), and the true-up/adjustment  
9 (line 17), the cumulative regulatory liability balance is (\$205,376) as shown on line 18.

10  
11 **Q. What transfer price would apply to Glacier Hills, Montfort and Rothschild costs?**

12 A. Consistent with its MPSC approved 2017 RE Plan (U-18236 Order), the Company is  
13 applying the transfer price established by Staff and included in its 2011 RE reconciliation  
14 in Case No. U-16662 for Montfort and Rothschild of \$71.20/MWh. With respect to  
15 Glacier Hills, the Commission established a levelized transfer price of \$80.41/MWh in  
16 the Initial RE Plan, which was again approved in the Company's 2017 RE Plan in the U-  
17 18236 Order.

18  
19 **Q. Is UMEREC requesting to establish any transfer prices in this case?**

20 A. No. Glacier Hills, Montfort, and Rothschild have established transfer prices. However, if  
21 the Commission determines that it should establish prices in the event that new RE  
22 sources are acquired in 2018, the Company would accept the Staff's 2018 transfer price  
23 schedule filed in Case No. U-15800.

1 **Q. Were any renewable energy costs recovered through a renewable energy surcharge**  
2 **for the UMERC-WPS Rate Zone?**

3 A. No. All of the costs for renewable energy were already included in the UMERC-WPS  
4 Rate Zone base rates or in rates that were adjusted as part of the Power Supply Cost  
5 Recovery (“PSCR”) proceedings. Thus, the UMERC does not have any Renewable  
6 Energy surcharge revenues to reconcile against costs in this reconciliation proceeding for  
7 its WPS Rate Zone.

8  
9 **Q. Does UMERC plan to change the method for recovering its renewable energy costs**  
10 **from Michigan electric customers in its WPS Rate Zone?**

11 A. No.

12  
13 **Q. Is UMERC banking renewable energy credits for future use in Michigan?**

14 A. Yes.

15  
16 **Q. Including incentive credits, how many renewable energy credits did UMERC**  
17 **procure in 2017 for its UMERC-WEPCO Rate Zone Michigan retail customers?**

18 A. UMERC procured 58,773 RECs for the UMERC-WEPCO Rate Zone and 39,745 RECs  
19 for the UMERC-WPS Rate Zone.

20  
21 **Q. At the end of 2017, how many renewable energy credits, including incentive credits,**  
22 **does UMERC have banked for future compliance?**

1 A. At the end of 2017, UMEREC has banked a total of 20,373 RECS for its WEPCO Rate  
2 Zone and 69,036 RECS for its WPS Rate Zone for future compliance.

3

4 **Q. Did UMEREC comply with Act 295's REC portfolio requirements in 2017?**

5 A. Yes. The 2017 RE Annual Report, Exhibit A-2 (JGG-2), shows that the UMEREC-  
6 WEPCO Rate Zone complied with the REC portfolio requirement of MCL 460.1027(3).<sup>2</sup>

7 The 2017 RE Annual Report, Exhibit A-3 (JGG-3), shows that the UMEREC-WPS Rate  
8 Zone complied with the REC portfolio requirement of MCL 460.1027(3).<sup>3</sup>

9

10 **Q. Is the Company requesting a change to the currently approved RE surcharges?**

11 A. No, it is not.

12

13 **Q. Does this conclude your direct testimony?**

14 A. Yes, it does.

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<sup>2</sup> Certain information has been redacted from Exhibit A-2 (JGG-2) due to confidentiality provisions in the agreements pursuant to which the Company obtained these REC. The Company will make such information available for review pursuant to an arrangement that protects this information.

<sup>3</sup> Certain information has been redacted from Exhibit A-3 (JGG-3) due to confidentiality provisions in the agreements pursuant to which the Company obtained these REC. The Company will make such information available for review pursuant to an arrangement that protects this information.

## Upper Michigan Energy Resources - WEPCO Rate Zone

### Annual Michigan Renewable Energy Reconciliation 2017

<u>Line No.</u>	<u>Description</u>	<u>2017 per RE Plan</u>	<u>2017 Actual</u>	<u>Prior Years Actual</u>	<u>Cumulative Total</u>
1	RECs (MWh)	636,553	524,031		
2	Michigan Energy Allocator - (Load Ratio Share)	1.43058%	1.27916%		
3	RECs allocated to Michigan (Line 1 * Line 2)	9,106	6,703		
4	RECs Purchased for MI RPS (MWh)				
<b>5</b>	<b>Total Michigan RECs (Line 3 + Line 4)</b>	<b>44,106</b>	<b>40,951</b>		
6	Michigan Allocated Revenue Requirement	\$ 1,083,864	\$ 786,586		
7	RECs Purchased for MI RPS (\$)				
<b>8</b>	<b>Michigan Revenue Requirement (Line 6 + Line 7)</b>	<b>\$ 1,215,114</b>	<b>\$ 919,747</b>		
9	Amount recovered through PSCR	\$ 701,019	\$ 523,325		
<b>10</b>	<b>Incremental Cost of Compliance (Line 8 - Line 9)</b>	<b>\$ 514,095</b>	<b>\$ 396,422</b>	\$ -	\$ 396,422
11	Michigan Renewable Energy Surcharge Collected	\$ 596,854	\$ 601,489	\$ -	\$ 601,489
12	Regulatory Asset/(Liability) (Line 10 - Line 11)	\$ (82,759)	\$ (205,068)	\$ -	\$ (205,068)
13	Carrying Charges (Interest)	\$ (62)	\$ (308)	\$ -	\$ (308)
<b>14</b>	<b>Regulatory Asset/(Liability) including Interest (Line 12 + Line 13)</b>	<b>\$ (82,821)</b>	<b>\$ (205,376)</b>	<b>\$ -</b>	<b>\$ (205,376)</b>
15	Regulatory Asset/(Liability) Balance per Company Books - Acct 254357		\$ (547,308)	\$ -	\$ (547,308)
16	Less: Incremental cost of compliance (from Line 10)		\$ 396,422	\$ -	\$ 396,422
17	True-up (Line 14 - Line 15 - Line 16)		\$ (54,490)	\$ -	\$ (54,490)
<b>18</b>	<b>Regulatory Asset/(Liability) Balance as Adjusted</b>		<b>\$ (205,376)</b>	<b>\$ -</b>	<b>\$ (205,376)</b>

## Upper Michigan Energy Resources - WEPCO Rate Zone

### 2017 Transfer Price and Incremental Cost Calculation

<u>Line No.</u>	<u>Description</u>	<u>2017 Actual</u>
<b><u>Glacier Hills Wind</u></b>		
1	Annual Revenue Requirement	43,782,209
2	MI Energy Allocation	1.27916%
3	MI Allocated Revenue Requirement	560,045
4	Glacier Hills Generation - MWh	390,940
5	MI Energy Allocation	1.27916%
6	Michigan Allocated - Mwh	5,001
7	Transfer Price	\$ 80.41
8	Amount recovered through PSCR	\$ 402,111
9	Incremental Cost of Compliance	\$ 157,934
<b><u>Montfort Wind</u></b>		
10	Annual Revenue Requirement	5,840,440
11	MI Energy Allocation	1.27916%
12	MI Allocated Revenue Requirement	74,709
13	Montfort Wind Generation - Mwh	48,308
14	MI Energy Allocation	1.27916%
15	Michigan Allocated - Mwh	618
16	Transfer Price	\$ 71.20
17	Amount recovered through PSCR	\$ 43,997
18	Incremental Cost of Compliance	\$ 30,712
<b><u>Rothschild Biomass</u></b>		
19	Annual Revenue Requirement	11,869,620
20	MI Energy Allocation	1.27916%
21	MI Allocated Revenue Requirement	151,832
22	Rothschild Biomass Generation - MWh	84,783
23	MI Energy Allocation	1.27916%
24	Michigan Allocated - Mwh	1,085
25	Transfer Price	\$ 71.20
26	Amount recovered through PSCR	\$ 77,217
27	Incremental Cost of Compliance	\$ 74,615
<b><u>Total</u></b>		
28	Total MI Revenue Requirement	\$ 786,586
29	Amount recovered through PSCR	\$ 523,325
30	Incremental Cost of Compliance	\$ 263,261
<b><u>Michigan Allocated - Mwh</u></b>		
31	Glacier Hills	390,940
32	Montfort	48,308
33	Rothschild Biomass Plant	84,783
34	Total System - MWh	524,031
35	MI Energy Allocation	1.27916%
36	Michigan Allocated - MWh	6,703
37	Revenue Requirement per MWh	\$ 117.35
38	Average Transfer Price per MWh	\$ 78.07

## Upper Michigan Energy Resources - WEPCO Rate Zone

### 2017 Rothschild Cost Calculation

<u>Line No.</u>		<u>Biomass MWh</u>	<u>Natural Gas MWh</u>	<u>Total MWh</u>
	<b><u>Rothschild Biomass - 2016 Actual</u></b>			
1.	Annual Revenue Requirement <sup>1</sup>	10,944,360	925,260	11,869,620
2.	MI Energy Allocation	1.27916%	1.27916%	1.27916%
3.	MI Allocated Revenue Requirement	139,996	11,836	151,832
4.	Rothschild Biomass Generation - MWh	78,174	6,609	84,783
5.	MI Energy Allocation	1.27916%	1.27916%	1.27916%
6.	Michigan Allocated - Mwh	1,000	85	1,085
7.	Transfer Price	\$ 71.20	\$ 71.20	\$ 71.20
8.	Amount recovered through PSCR	\$ 71,200	\$ 6,052	\$ 77,252
9.	Incremental Cost of Compliance	\$ 68,796	\$ 5,784	\$ 74,580

<sup>1</sup> Cost per MWh capped at \$140.

Upper Michigan Energy Resources - WEPCO Rate Zone

**Renewable Energy Plan Summary**

Line No.	Description	Units	2016 Actual	2017 Actual	2018	2019	Total
<b>RPS Requirement</b>							
1	Sales Forecast	MWh	349,791	346,491	363,072	363,068	
2	Three Year Average / Weather Normalized	MWh	384,001	384,001	384,001	384,001	
3	Michigan RPS Requirement	MWh		38,400	38,400	48,000	124,800
4	Michigan RPS Requirement	%	10.00%	10.00%	10.00%	12.50%	
5							
<b>Renewable Energy Credit Compliance</b>							
7	RPS Beginning Balance	RECs		-	20,373	47,434	
9	RECs from Existing Renewables	RECs		11,172	12,807	5,354	
10	RECS from System-wide Allocation	RECs		5,982	4,424	-	
11	RECs for Michigan RPS	RECs		41,619	48,230	4,291	
12	Current Year RECs	RECs		58,773	65,461	9,645	
14	Total Available RECs	RECs		58,773	85,834	57,079	
15	Total Retired for Compliance	RECs		38,400	38,400	48,000	124,800
16	Ending Balance	RECs		20,373	47,434	9,079	
17							
<b>Revenue Requirement</b>							
19	Post-Act 295 company-owned RE facilities	\$		786,586	1,031,381	439,990	
20	PPA	\$					
21	REC Purchases (Sales)	\$					
22	Total	\$	\$ -	\$ 919,747	\$ 1,223,881	\$ 439,990	
23							
<b>RECs Obtained for Michigan RPS</b>							
25	Post-Act 295 company-owned RE facilities	MWh		6,703	9,044	3,916	
26	PPA	MWh					
27	Sub-Total	MWh	-	6,703	9,044	3,916	
28	RECs Purchase (Sold)	RECs					
29	Incentive (SB 213 Sec 39 (2))	RECs		668	4,186	375	
30	Total	RECs	-	41,619	48,230	4,291	
31							
32	Forecasted Transfer Price per MWh	\$/MWh	\$ 72.02	\$ 71.20	\$ 72.09	\$ 73.46	
33							
34	Amount recovered through PSCR	\$		523,325	699,525	304,178	1,527,028
35	Revenue Requirement	\$	-	919,747	1,223,881	439,990	2,583,618
36	Incremental Cost of Compliance - Annual	\$	\$ -	\$ 396,422	\$ 524,356	\$ 135,812	1,056,590
37							
<b>Non-Volumetric Surcharge</b>							
<b>Meter (or customer) Forecast</b>							
40	Residential	No. Cust.		24,820	24,659	24,692	
41	Secondary	No. Cust.		3,023	2,988	2,988	
42	Primary	No. Cust.		4	5	5	
43	Total	No. Cust.	-	27,847	27,652	27,685	
44							
<b>Planned Surcharge Revenue per Year</b>							
46	Residential	\$	\$ 357,404	\$ 355,090	\$ 355,565	\$ 1,068,058	
47	Secondary	\$	\$ 240,496	\$ 237,725	\$ 237,725	\$ 715,946	
48	Primary	\$	\$ 3,590	\$ 4,500	\$ 4,500	\$ 12,590	
49	Total	\$	\$ -	\$ 601,489	\$ 597,315	\$ 597,790	\$ 1,796,594
50							
<b>Year End Regulatory Asset/(Liability) Balance</b>							
52	Beginning Balance	\$	-	-	(205,068)	(278,026)	
53	Incremental Cost of Compliance	\$	-	396,422	524,356	135,812	
54	Surcharge Revenue	\$	-	(601,489)	(597,315)	(597,790)	
55	Under/(Over) Recovery Balance	\$	\$ -	\$ (205,068)	\$ (278,026)	\$ (740,005)	
56							
57	Interest Charges	\$		(308)	(417)	(1,110)	
58	Interest Charges - Balance	\$	\$ -	\$ (308)	\$ (725)	\$ (1,835)	
59							
60	Under/(Over) Recovery + Interest Balance	\$	\$ -	\$ (205,376)	\$ (278,751)	\$ (741,840)	
61							
<b>Sec. 45 Actual / Planned Surcharge per Month % of Max.</b>							
63	Residential	40.00%	\$	1.20	\$ 1.20	\$ 1.20	
64	Secondary	40.00%	\$	6.63	\$ 6.63	\$ 6.63	
65	Primary	40.00%	\$	75.00	\$ 75.00	\$ 75.00	



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proceeding for the 12 month period )  
ended December 31, 2017. )

**EXHIBIT A-2 (JGG-2)**  
**2017 RENEWABLE ENERGY**  
**ANNUAL REPORT**

Renewable Energy Annual Report

Electric Provider: U MERC – WEPCO Rate Zone  
Reporting Period: Calendar Year 2017

- Section 51(1) of 2008 PA 295, as amended by 2016 PA 342, requires the filing of this document with the Michigan Public Service Commission.
- Many of the requested figures are available from MIRECS reports; names of which are noted within this template. If your figures agree with those within MIRECS, you may submit the MIRECS report as an attachment to this annual report. If your figures differ from those within MIRECS, please explain any discrepancies. Staff from the MPSC and MIRECS Administrator, APX, Inc., are available to help reconcile.
- The purpose of this annual report is to provide information regarding activities that occurred within calendar year 2017, not simply activity regarding energy credits with the vintage of 2017.

**Section 51(1).**

Within this section, list and describe actions taken by the electric provider to comply with the renewable energy standards.

a. Filings to the Commission (case numbers)

U-18236 – 2017 Renewable Energy Plan  
U-17798 – 2016 WEPCO Renewable Energy Plan  
U-17562 – WEPCO Biennial Renewable Energy Plan  
U-17072 – WEPCO Biennial Renewable Energy Plan

b. Summary of actions taken during reporting period

UMERC-WEPCO rate zone has generated or procured 58,773 RECs to be applied to its Michigan RPS requirement as a load ratio share allocation of Michigan retail generation. For 2017 RPS compliance, UMERC-WEPCO rate zone applies a consistent approach across utilities. UMERC allocates RECs based on like-for-like transfers as used by WPSC & WEPCo in the previous year. **The Michigan Public Service Commission issued an Order Approving Settlement Agreement in the matter of UMERC’s Renewable Energy Plan in Case No. U-18236.**

**Section 51(2)(a).**

Within this section, list the number of energy credits obtained and, if bundled credits, the MWh of electricity generated or otherwise acquired during the reporting period, including those credits transferred from ones wholesale electric supplier. This data may be found in the MIRECS report titled: My Credit Transfers using the transfer tabs indicated below and filtering the report by date (only activity occurring in 2017).

<b>Credits From</b>	<b>Renewable Energy Credits</b>	<b>Incentive Credits</b>	<b>MWh Electricity Generated/Acquired</b>
<b>Generated (Intra-Account Transfer, only "Issued" in the Action column)</b>	2017 Vintage: 0 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0	2017 Vintage: 0 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0	
<b>Purchased (Inter-Account Transfer, only "Confirm" or "Forward Transfer" in the Action column)</b>	2017 Vintage: 58,773 2016 Vintage: 2015 Vintage: 2014 Vintage: Older Vintages:	2017 Vintage: 3,852 2016 Vintage: 2015 Vintage: 2014 Vintage: Older Vintages:	23,857
<b>Total Credits</b>			

"Issued" within the Action column refers to an account holder accepting the generation data after which energy credits are created. "Confirm" within the Action column refers to both the transferee and transferor agreeing to the non-recurring transfer. "Forward Transfer" within the Action column indicates a recurring transfer of which subsequent transfers of credits do not need to be accepted by both parties.

Explain any differences between the data provided and MIRECS reports.

Please refer to the attached Confidential "UMERC-WEPCO rate zone Renewable Energy Annual Report." The tab titled 51(2)(a) contains the calculations used to complete Sections 51(2)(a). UMERC allocates renewables on a load ratio share basis to meet its Michigan RPS requirement. The actual transfer of RECs to Mi-Recs is done after the end of the reporting year

Within this section, list the type of and number of energy credits sold, traded or otherwise transferred during the reporting period.

	<b>Renewable Energy Credits</b>	<b>Incentive Credits</b>
<b>Sold, traded or otherwise transferred</b>	2017 Vintage: 0 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0	2017 Vintage: 0 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0
<b>Expired (not in compliance sub-account)</b>	0	0

This data may be found in MIRECS reports titled: My Sub-Accounts (filtered by Michigan eligibility and its end date) and My Credit Transfers.

**Section 51(2)(b).**

Within this section, list the number of advanced cleaner energy credits obtained and, if bundled, the MWh of advanced cleaner energy generated or otherwise acquired during this reporting period. This data may be found in the MIRECS report titled: My Credit Transfer using the transfer tabs indicated below and filtering the report by date (only activity occurring in 2017).

	<b>Advanced Cleaner Energy Credits</b>	<b>MWh Electricity Generated/Acquired</b>
<b>Generated (Intra-Account Transfer, only "Issued" in the Action column)</b>	2017 Vintage: 0 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0	2017 Vintage: 0 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0
<b>Purchased (Inter-Account Transfer, only "Confirm" or "Forward Transfer" in the Action column)</b>	2017 Vintage: 0 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0	2017 Vintage: 0 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0
<b>Total Credits acquired</b>		

**Section 51(2)(c).**

Within this section, list each renewable energy system (RES) and advanced cleaner energy system (ACES) owned, operated or controlled by the electric provider. List the capacity of each system, the amount of electricity generated by each system and the percentage of electricity which was generated from renewable energy (RE) or advanced cleaner energy (ACE).

System Name <sup>1</sup>	System Type (RES or ACES)	Nameplate Capacity (MW)	Electricity Generated (MWh)	% of Electricity generated by RE/ACE
		Please See attachment 51(2)(c)		

<sup>1</sup>System name should agree with the project name listed within MIRECS. This data may be found in the Project Management module within MIRECS.

Within this section, list the renewable energy system (RES) and advanced cleaner energy systems (ACES) the electric provider is purchasing energy credits from. These include purchase power agreements. However, unbundled (credit only) purchases do not need to be listed here. Projects (generators) serving multijurisdictional electric providers should be listed here.

System Name	System Type (RES or ACES)	Electricity Purchased (MWh)	Energy Credits Purchased <sup>1</sup>	Allocation Factor and Method
		Please See attachment 51(2)(c)		

<sup>1</sup>Distinguish between different types of credits (REC or ACEC).

Allocation Factor and Method: For use if 100% of system output is not purchased. For instance, a system selling to multiple parties: list how the energy and credits are allocated – if by percentage, list the percentage as well.

Allocation Factor and Method: If used by multijurisdictional electric providers please include which percentage of energy and credits are to be distributed to Michigan (list allocation method as well, for example: system load).

**Section 51(2)(d).**

Within this section, list whether, during the reporting period, the electric provider entered into a contract for, began construction on, continued construction of, acquired, or placed into operation a renewable energy (RE) system or advanced cleaner energy (ACE) system.

System Name <sup>1</sup>	Resource (technology, RE/ACE)	Nameplate Capacity (MW)	Construction start date or acquisition date	Commercial operation date	Owned by electric provider?
		Please See attachment 51(2)(c)			

<sup>1</sup>System name should agree with the project name listed within MIRECS.

Dates may be forecast.

**Section 51(2)(e).**

Within this section, list the expenditures incurred during the reporting period to comply with the renewable energy standards or the forecasted expenditures for the remaining plan period. Also, electric providers with an approved or planned renewable energy surcharge (as per Section 45), list the incremental cost of compliance (ICC) incurred during the reporting period.

<b>Total Costs to Comply with Renewable Energy Standard in 2017</b>
<b>\$919,747</b>

<b>Forecast of total expenditures for the remaining plan period of 2018-2029</b>
<b>\$1,663,871</b>

Total Expenditures: ICC + Transfer Cost

<b>Total Transfer Cost for 2017 (if any)</b>
<b>\$523,325</b>

Transfer Cost: The component of renewable energy and capacity revenue recovered from PSCR clause.

<b>Total ICC for 2017</b>
<b>\$396,422</b>

<b>Forecast of the ICC for the remaining plan period (2018-2029)</b>	<b>Monthly residential surcharge (\$3 or less)</b>
<b>\$660,168</b>	<b>\$1.20</b>

<b>Capital Expenditures for 2017 (if any)</b>
<b>n/a</b>

Capital Expenditure: An investment in a renewable energy capital asset.

**Section 51(2)(f).**

Compliance: List the energy credits used for compliance for the 2017 compliance year. This number should agree with the compliance requirement listed in the 2017 compliance subaccount in MIRECS. Take into account any energy optimization or advanced cleaner energy credit substitutions and limits on their use.

Total 2017 Compliance account has a value of 38,400 RECs for 2017 compliance.

Does the “energy credits used for compliance for the 2017 compliance year” figure above include any credits representing energy generated within 120 days after the start of the next calendar year? Yes/No.

No.

If yes, how many credits from 2018 generation are included?

0

Michigan Public Service Commission U-20176
2017 Renewable Energy Annual Report
UMERC - WEPCO rate zone
CONFIDENTIAL - Redacted

Table with columns: Sub-Account, Sub-Account ID, MIRECS ID, Project, Operation Begin Date, Fuel/Project Type, Credit Type, Credits Vintage, Credit Serial Numbers, Quantity, Ratio, Adjusted Export Quantity, MI Eligible, MI Eligibility End Date, PAG/ICS Designation, Green-e Energy Eligible, UHI Certified. Rows include various projects like Badger Windpower LLC, Big Quinnesec Falls, and Rothchild Biomass Cogeneration Plant.



2017 UMERC Retire	1216 IMP162	Big Quinnesec Falls - Unit 222	12/31/1899	Incentive	IREC	17-Aug IMP-MRETS-IREC-162-MI-08-2017-47031-342 to 388	47	0.9051	42	Yes	8/31/2022	No	No
2017 UMERC Retire	1216 IMP162	Big Quinnesec Falls - Unit 222	12/31/1899	Incentive	IREC	17-Sep IMP-MRETS-IREC-162-MI-09-2017-47033-389 to 436	48	0.9142	43	Yes	9/30/2022	No	No
2017 UMERC Retire	1216 IMP162	Big Quinnesec Falls - Unit 222	12/31/1899	Incentive	IREC	17-Apr IMP-MRETS-IREC-162-MI-04-2017-47035-437 to 489	53	0.9131	48	Yes	4/30/2022	No	No
2017 UMERC Retire	1216 IMP162	Big Quinnesec Falls - Unit 222	12/31/1899	Incentive	IREC	17-May IMP-MRETS-IREC-162-MI-05-2017-47037-490 to 548	59	0.9087	53	Yes	5/31/2022	No	No
2017 UMERC Retire	1216 IMP162	Big Quinnesec Falls - Unit 222	12/31/1899	Incentive	IREC	17-Jan IMP-MRETS-IREC-162-MI-01-2017-47039-549 to 586	38	0.9125	34	Yes	1/31/2020	No	No
2017 UMERC Retire	1216 IMP162	Big Quinnesec Falls - Unit 222	12/31/1899	Incentive	IREC	17-Feb IMP-MRETS-IREC-162-MI-02-2017-47041-587 to 628	42	0.9084	38	Yes	2/28/2020	No	No
2017 UMERC Retire	1216 IMP162	Big Quinnesec Falls - Unit 222	12/31/1899	Incentive	IREC	17-Mar IMP-MRETS-IREC-162-MI-03-2017-47043-629 to 677	49	0.9043	44	Yes	3/31/2020	No	No
2017 UMERC Retire	1216 IMP162	Big Quinnesec Falls - Unit 222	12/31/1899	Incentive	IREC	17-Jun IMP-MRETS-IREC-162-MI-06-2017-47045-678 to 733	56	0.9058	50	Yes	6/30/2022	No	No
2017 UMERC Retire	1216 IMP306	Rothschild Biomass Cogeneration Plant - Rothschild Biomass Cogeneration Plant	11/8/2013	Incentive	IREC	17-Dec IMP-MRETS-IREC-306-WI-12-2017-47095-1 to 134	134	0.9123	122	Yes	12/31/2022	No	No
2017 Cadillac RRCs	551 GEN43		7/16/1993	Incentive	IREC	17-Feb MIRECS-IREC-43-MI-02-2017-38956-1 to 28	28	0.9133	25	Yes	2/28/2020	No	No
2017 Cadillac RRCs	551 GEN43		7/16/1993	Incentive	IREC	17-Mar MIRECS-IREC-43-MI-03-2017-39344-1 to 37	37	0.9021	33	Yes	3/31/2020	No	No
2017 Cadillac RRCs	551 GEN43		7/16/1993	Incentive	IREC	17-Apr MIRECS-IREC-43-MI-04-2017-39755-1 to 36	36	0.9086	32	Yes	4/30/2022	No	No
2017 Cadillac RRCs	551 GEN43		7/16/1993	Incentive	IREC	17-May MIRECS-IREC-43-MI-05-2017-39953-1 to 37	37	0.8995	33	Yes	5/31/2022	No	No
2017 Cadillac RRCs	551 GEN43		7/16/1993	Incentive	IREC	17-Dec MIRECS-IREC-43-MI-12-2017-46708-29 to 35	7	0.9112	6	Yes	12/31/2022	No	No
2017 Cadillac RRCs	551 GEN43		7/16/1993	Incentive	IREC	17-Nov MIRECS-IREC-43-MI-11-2017-46706-30 to 36	7	0.8992	6	Yes	11/30/2022	No	No
2017 Cadillac RRCs	551 GEN43		7/16/1993	Incentive	IREC	17-Jan MIRECS-IREC-43-MI-01-2017-38538-1 to 38	38	0.9018	34	Yes	1/31/2020	No	No
2017 Cadillac RRCs	551 GEN43		7/16/1993	Incentive	IREC	17-Jun MIRECS-IREC-43-MI-06-2017-40155-1 to 35	35	0.9105	31	Yes	6/30/2022	No	No
2017 Cadillac RRCs	551 GEN43		7/16/1993	Incentive	IREC	17-Aug MIRECS-IREC-43-MI-08-2017-40603-1 to 36	36	0.8971	32	Yes	8/31/2022	No	No
2017 Cadillac RRCs	551 GEN43		7/16/1993	Incentive	IREC	17-Oct MIRECS-IREC-43-MI-10-2017-42342-25 to 30	6	0.9074	5	Yes	10/31/2022	No	No
2017 Cadillac RRCs	551 GEN43		7/16/1993	Incentive	IREC	17-Jul MIRECS-IREC-43-MI-07-2017-40437-1 to 52	52	0.8958	46	Yes	7/31/2022	No	No
2017 Cadillac RRCs	551 GEN43		7/16/1993	Incentive	IREC	17-Sep MIRECS-IREC-43-MI-09-2017-40877-1 to 58	58	0.8972	52	Yes	9/30/2022	No	No
2017 Cadillac RRCs	551 GEN47		7/16/1993	Incentive	IREC	17-Feb MIRECS-IREC-47-MI-02-2017-38954-1 to 183	183	0.9123	166	Yes	2/28/2020	No	No
2017 Cadillac RRCs	551 GEN47		7/16/1993	Incentive	IREC	17-Sep MIRECS-IREC-47-MI-09-2017-40875-1 to 218	218	0.9094	198	Yes	9/30/2022	No	No
2017 Cadillac RRCs	551 GEN47		7/16/1993	Incentive	IREC	17-Jan MIRECS-IREC-47-MI-01-2017-38540-1 to 227	227	0.9084	206	Yes	1/31/2020	No	No
2017 Cadillac RRCs	551 GEN47		7/16/1993	Incentive	IREC	17-Aug MIRECS-IREC-47-MI-08-2017-40605-1 to 286	286	0.8987	257	Yes	8/31/2022	No	No
2017 Cadillac RRCs	551 GEN47		7/16/1993	Incentive	IREC	17-Jul MIRECS-IREC-47-MI-07-2017-40435-1 to 309	309	0.9016	278	Yes	7/31/2022	No	No
2017 Cadillac RRCs	551 GEN47		7/16/1993	Incentive	IREC	17-Oct MIRECS-IREC-47-MI-10-2017-42340-996 to 1244	249	0.9067	225	Yes	10/31/2022	No	No
2017 Cadillac RRCs	551 GEN47		7/16/1993	Incentive	IREC	17-Nov MIRECS-IREC-47-MI-11-2017-46710-884 to 1104	221	0.909	200	Yes	11/30/2022	No	No
2017 Cadillac RRCs	551 GEN47		7/16/1993	Incentive	IREC	17-May MIRECS-IREC-47-MI-05-2017-39955-1 to 272	272	0.9004	244	Yes	5/31/2022	No	No
2017 Cadillac RRCs	551 GEN47		7/16/1993	Incentive	IREC	17-Jun MIRECS-IREC-47-MI-06-2017-40153-1 to 248	248	0.905	224	Yes	6/30/2022	No	No
2017 Cadillac RRCs	551 GEN47		7/16/1993	Incentive	IREC	17-Dec MIRECS-IREC-47-MI-12-2017-46712-795 to 993	199	0.9209	183	Yes	12/31/2022	No	No
2017 Cadillac RRCs	551 GEN47		7/16/1993	Incentive	IREC	17-Apr MIRECS-IREC-47-MI-04-2017-39757-1 to 201	201	0.9141	183	Yes	4/30/2022	No	No
2017 Cadillac RRCs	551 GEN47		7/16/1993	Incentive	IREC	17-Mar MIRECS-IREC-47-MI-03-2017-39342-1 to 194	194	0.9102	176	Yes	3/31/2020	No	No
							<u>58773</u>						

Michigan Public Service Commission U-20176  
 2017 Renewable Energy Annual Report  
 UMERC - WPS rate zone  
**CONFIDENTIAL - Redacted**

<b>Pre PA 295 Generation:</b>					2017 MI Generation			
MRECS ID	Project	System Type RES/ACES	Nameplate Capacity	Generator Classification	Share	IRECs	% RE	% ACE
IMP147	Lincoln - RRC 177	RES	9.2	Existing, Co Owned, Pre PA 295	360	0	100%	0%
IMP362	Wausau - RRC 24	RES	5.5	Existing, Co Owned, Pre PA 295	14,553	1,463	100%	0%
Total Pre PA 295:					14,913	1,463		

<b>Post PA 295 Generation:</b>					2017 MI Generation			
MRECS ID	Project	System Type RES/ACES	Nameplate Capacity	Generator Classification	Share	IRECs	% RE	% ACE
					0	0	100%	0%
					0	0	100%	0%
Total Post PA 295:					0	0		

Total for Owned Generation: 14,913 1,463

<b>Contracted Energy &amp; Credits</b>					2017 MI Generation			
MRECS ID	Project	System Type RES/ACES	Nameplate Capacity	Generator Classification	Share	IRECs	% RE	% ACE
IMP149		RES	129.0	Contracted Energy & Credits	14,708	0	100%	0%
IMP150		RES	8.0	Contracted Energy & Credits	7,211	714	100%	0%
IMP318		RES	2.2	Contracted Energy & Credits	680	56	100%	0%
Total:					22,599	770		

Grand Total: 37,512 2,233

Combined Total (RECs and IRECs): 39,745

Notes:

- 1- The renewable energy credits shown are the amounts allocated to Michigan on a load ratio share basis of retail sales and FERC Jurisdictional account sales.
- 2- The 2017 UMERC-WPS rate zone load ratio share was 1.85%.

STATE OF MICHIGAN

BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

\* \* \* \*

In the matter of the application of )  
**UPPER MICHIGAN ENERGY RESOURCES** )  
**CORPORATION** renewable energy reconciliation ) Case No. U-20176  
proceeding for the 12 month period )  
ended December 31, 2017. )

**EXHIBIT A-3 (JGG-3)**  
**2017 RENEWABLE ENERGY**  
**ANNUAL REPORT**

Renewable Energy Annual Report

Electric Provider: UMERC-WPS Rate Zone  
Reporting Period: Calendar Year 2017

- Section 51(1) of 2008 PA 295, as amended by 2016 PA 342, requires the filing of this document with the Michigan Public Service Commission.
- Many of the requested figures are available from MIRECS reports; names of which are noted within this template. If your figures agree with those within MIRECS, you may submit the MIRECS report as an attachment to this annual report. If your figures differ from those within MIRECS, please explain any discrepancies. Staff from the MPSC and MIRECS Administrator, APX, Inc., are available to help reconcile.
- The purpose of this annual report is to provide information regarding activities that occurred within calendar year 2017, not simply activity regarding energy credits with the vintage of 2017.

**Section 51(1).**

Within this section, list and describe actions taken by the electric provider to comply with the renewable energy standards.

a. Filings to the Commission (case numbers)

U-15811 - WPS 2009 Biennial Renewable Energy Plan  
U-16360 - WPS 2009 Annual Renewable Reconciliation  
U-16361 - WPS 2010 Annual Renewable Reconciliation  
U-16587 - WPS 2011 Biennial Renewable Energy Plan  
U-16661 - WPS 2011 Annual Renewable Reconciliation  
U-17326 - WPS 2012 Annual Renewable Reconciliation  
U-17306 - WPS 2013 Biennial Renewable Energy Plan  
U-17636 - WPS 2013 Annual Renewable Reconciliation  
U-17797 - WPS 2015 Biennial Renewable Energy Plan  
U-17808 - WPS 2014 Annual Renewable Reconciliation  
U-18088 - WPS 2015 Annual Renewable Reconciliation  
U-18246- WPS 2016 Annual Renewable Reconciliation  
U-18236 – UMERC 2017 Renewable Energy Plan

b. Summary of actions taken during reporting period

UMERC-WPS rate zone has generated or procured 39,745 RECs to be applied to its Michigan RPS requirement as a load ratio share allocation of Michigan retail generation. For 2017 RPS compliance, UMERC – WPS rate zone applies a consistent approach across utilities. UMERC allocates RECs based on like-for-like transfers as used by WPS & WEPCo in previous years. **The Michigan Public Service Commission issued an Order Approving Settlement Agreement in the matter of UMERC’s Renewable Energy Plan in Case No. U-18236.**

**Section 51(2)(a).**

Within this section, list the number of energy credits obtained and, if bundled credits, the MWh of electricity generated or otherwise acquired during the reporting period, including those credits transferred from ones wholesale electric supplier. This data may be found in the MIRECS report titled: My Credit Transfers using the transfer tabs indicated below and filtering the report by date (only activity occurring in 2017).

<b>Credits From</b>	<b>Renewable Energy Credits</b>	<b>Incentive Credits</b>	<b>MWh Electricity Generated/Acquired</b>
<b>Generated (Intra-Account Transfer, only "Issued" in the Action column)</b>	2017 Vintage: 0 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0	2017 Vintage: 0 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0	
<b>Purchased (Inter-Account Transfer, only "Confirm" or "Forward Transfer" in the Action column)</b>	2017 Vintage: 37,512 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0	2017 Vintage: 2,233 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0	37,512
<b>Total Credits</b>	<b>37,512</b>	<b>2,233</b>	<b>37,512</b>

"Issued" within the Action column refers to an account holder accepting the generation data after which energy credits are created. "Confirm" within the Action column refers to both the transferee and transferor agreeing to the non-recurring transfer. "Forward Transfer" within the Action column indicates a recurring transfer of which subsequent transfers of credits do not need to be accepted by both parties.

Explain any differences between the data provided and MIRECS reports.

Please refer to the attached Confidential "UMERC-WPS rate zone Renewable Energy Report." The tab titled 51(2)(a) contains the calculations used to complete Sections 51(2)(a). UMERC allocates renewables on a load ratio share basis to meet its Michigan RPS requirement. The actual transfer of RECs to Mi-Recs is done after the end of the reporting year

Within this section, list the type of and number of energy credits sold, traded or otherwise transferred during the reporting period.

	<b>Renewable Energy Credits</b>	<b>Incentive Credits</b>
<b>Sold, traded or otherwise transferred</b>	2017 Vintage: 0 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0	2017 Vintage: 0 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0
<b>Expired (not in compliance sub-account)</b>	0	0

This data may be found in MIRECS reports titled: My Sub-Accounts (filtered by Michigan eligibility and its end date) and My Credit Transfers.

**Section 51(2)(b).**

Within this section, list the number of advanced cleaner energy credits obtained and, if bundled, the MWh of advanced cleaner energy generated or otherwise acquired during this reporting period. This data may be found in the MIRECS report titled: My Credit Transfer using the transfer tabs indicated below and filtering the report by date (only activity occurring in 2017).

	<b>Advanced Cleaner Energy Credits</b>	<b>MWh Electricity Generated/Acquired</b>
<b>Generated (Intra-Account Transfer, only "Issued" in the Action column)</b>	2017 Vintage: 0 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0	2017 Vintage: 0 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0
<b>Purchased (Inter-Account Transfer, only "Confirm" or "Forward Transfer" in the Action column)</b>	2017 Vintage: 0 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0	2017 Vintage: 0 2016 Vintage: 0 2015 Vintage: 0 2014 Vintage: 0 Older Vintages: 0
<b>Total Credits acquired</b>	0	0

**Section 51(2)(c).**

Within this section, list each renewable energy system (RES) and advanced cleaner energy system (ACES) owned, operated or controlled by the electric provider. List the capacity of each system, the amount of electricity generated by each system and the percentage of electricity which was generated from renewable energy (RE) or advanced cleaner energy (ACE).

System Name <sup>1</sup>	System Type (RES or ACES)	Nameplate Capacity (MW)	Electricity Generated (MWh)	% of Electricity generated by RE/ACE
		Please See attachment 51(2)(c)		

<sup>1</sup>System name should agree with the project name listed within MIRECS. This data may be found in the Project Management module within MIRECS.

Within this section, list the renewable energy system (RES) and advanced cleaner energy systems (ACES) the electric provider is purchasing energy credits from. These include purchase power agreements. However, unbundled (credit only) purchases do not need to be listed here. Projects (generators) serving multijurisdictional electric providers should be listed here.

System Name	System Type (RES or ACES)	Electricity Purchased (MWh)	Energy Credits Purchased <sup>1</sup>	Allocation Factor and Method
		Please See attachment 51(2)(c)		

<sup>1</sup>Distinguish between different types of credits (REC or ACEC).

Allocation Factor and Method: For use if 100% of system output is not purchased. For instance, a system selling to multiple parties: list how the energy and credits are allocated – if by percentage, list the percentage as well.

Allocation Factor and Method: If used by multijurisdictional electric providers please include which percentage of energy and credits are to be distributed to Michigan (list allocation method as well, for example: system load).

**Section 51(2)(d).**

Within this section, list whether, during the reporting period, the electric provider entered into a contract for, began construction on, continued construction of, acquired, or placed into operation a renewable energy (RE) system or advanced cleaner energy (ACE) system.

System Name <sup>1</sup>	Resource (technology, RE/ACE)	Nameplate Capacity (MW)	Construction start date or acquisition date	Commercial operation date	Owned by electric provider?
		Please See attachment 51(2)(c)			

<sup>1</sup>System name should agree with the project name listed within MIRECS.

Dates may be forecast.

**Section 51(2)(e).**

Within this section, list the expenditures incurred during the reporting period to comply with the renewable energy standards or the forecasted expenditures for the remaining plan period. Also, electric providers with an approved or planned renewable energy surcharge (as per Section 45), list the incremental cost of compliance (ICC) incurred during the reporting period.

<b>Total Costs to Comply with Renewable Energy Standard in 2017</b>
\$0

<b>Forecast of total expenditures for the remaining plan period of 2018-2029</b>
\$0

Total Expenditures: ICC + Transfer Cost

<b>Total Transfer Cost for 2017 (if any)</b>
\$0

Transfer Cost: The component of renewable energy and capacity revenue recovered from PSCR clause.

<b>Total ICC for 2017</b>
\$0

<b>Forecast of the ICC for the remaining plan period (2018-2029)</b>	<b>Monthly residential surcharge (\$3 or less)</b>
\$0	\$0

<b>Capital Expenditures for 2017 (if any)</b>
\$0



Capital Expenditure: An investment in a renewable energy capital asset.

**Section 51(2)(f).**

Compliance: List the energy credits used for compliance for the 2017 compliance year. This number should agree with the compliance requirement listed in the 2017 compliance subaccount in MIRECS. Take into account any energy optimization or advanced cleaner energy credit substitutions and limits on their use.

Total 2017 Compliance account has a value of 27,750 RECs for 2017 compliance.

Does the “energy credits used for compliance for the 2017 compliance year” figure above include any credits representing energy generated within 120 days after the start of the next calendar year? Yes/No.

No.

If yes, how many credits from 2018 generation are included?

0

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Year	Month	MIRECS ID	Project	Fuel/Project Type	Credit Serial Numbers	Login Name	Quantity	Ratio	Ac Date of Transfer	Transferor	Transferee	Action	SubAccountName	SubAccount From	Transaction ID
2017	1	IMP150		BLF	IMP-MRETS-REC-150-WI-01-2017-46885-1 to 292	WPSC	292		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	1	IMP150		BLF	IMP-MRETS-REC-150-WI-01-2017-46915-1 to 337	WPSC	337		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	2	IMP150		BLF	IMP-MRETS-REC-150-WI-02-2017-46865-2 to 315	WPSC	314		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	2	IMP150		BLF	IMP-MRETS-REC-150-WI-02-2017-46887-40 to 317	WPSC	278		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	3	IMP150		BLF	IMP-MRETS-REC-150-WI-03-2017-46867-698 to 1031	WPSC	334		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	3	IMP150		BLF	IMP-MRETS-REC-150-WI-03-2017-46897-1169 to 1465	WPSC	297		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	4	IMP150		BLF	IMP-MRETS-REC-150-WI-04-2017-46859-669 to 964	WPSC	296		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	4	IMP150		BLF	IMP-MRETS-REC-150-WI-04-2017-46891-1936 to 2195	WPSC	260		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	5	IMP150		BLF	IMP-MRETS-REC-150-WI-05-2017-46861-965 to 1257	WPSC	293		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	5	IMP150		BLF	IMP-MRETS-REC-150-WI-05-2017-46893-2196 to 2453	WPSC	258		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	6	IMP150		BLF	IMP-MRETS-REC-150-WI-06-2017-46863-1258 to 1585	WPSC	328		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	6	IMP150		BLF	IMP-MRETS-REC-150-WI-06-2017-46895-2454 to 2743	WPSC	290		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	7	IMP150		BLF	IMP-MRETS-REC-150-WI-07-2017-46851-10 to 354	WPSC	345		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	7	IMP150		BLF	IMP-MRETS-REC-150-WI-07-2017-46883-866 to 1168	WPSC	303		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	8	IMP150		BLF	IMP-MRETS-REC-150-WI-08-2017-46800-57 to 355	WPSC	299		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	8	IMP150		BLF	IMP-MRETS-REC-150-WI-08-2017-46855-355 to 697	WPSC	343		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	9	IMP150		BLF	IMP-MRETS-REC-150-WI-09-2017-46857-356 to 668	WPSC	313		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	9	IMP150		BLF	IMP-MRETS-REC-150-WI-09-2017-46889-1660 to 1935	WPSC	276		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	10	IMP150		BLF	IMP-MRETS-REC-150-WI-10-2017-46869-1586 to 1892	WPSC	307		4/17/2018 7:33	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	10	IMP150		BLF	IMP-MRETS-REC-150-WI-10-2017-46899-2744 to 3013	WPSC	270		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	11	IMP150		BLF	IMP-MRETS-REC-150-WI-11-2017-46871-1032 to 1384	WPSC	353		4/17/2018 7:33	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	11	IMP150		BLF	IMP-MRETS-REC-150-WI-11-2017-46879-1613 to 624	WPSC	309		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	12	IMP150		BLF	IMP-MRETS-REC-150-WI-12-2017-46873-1385 to 1659	WPSC	275		4/17/2018 7:33	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	12	IMP150		BLF	IMP-MRETS-REC-150-WI-12-2017-46881-625 to 865	WPSC	241		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	1	IMP318		H2O	IMP-MRETS-REC-318-WI-01-2017-46776-1 to 27	WPSC	27		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	1	IMP318		H2O	IMP-MRETS-REC-318-WI-01-2017-46829-1 to 28	WPSC	28		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	2	IMP318		H2O	IMP-MRETS-REC-318-WI-02-2017-46778-13 to 35	WPSC	23		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	2	IMP318		H2O	IMP-MRETS-REC-318-WI-02-2017-46831-225 to 250	WPSC	26		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	3	IMP318		H2O	IMP-MRETS-REC-318-WI-03-2017-46780-36 to 58	WPSC	23		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	3	IMP318		H2O	IMP-MRETS-REC-318-WI-03-2017-46833-251 to 277	WPSC	27		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	4	IMP318		H2O	IMP-MRETS-REC-318-WI-04-2017-46794-59 to 87	WPSC	29		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	4	IMP318		H2O	IMP-MRETS-REC-318-WI-04-2017-46847-278 to 310	WPSC	33		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	5	IMP318		H2O	IMP-MRETS-REC-318-WI-05-2017-46796-163 to 193	WPSC	31		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	5	IMP318		H2O	IMP-MRETS-REC-318-WI-05-2017-46849-179 to 215	WPSC	37		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	6	IMP318		H2O	IMP-MRETS-REC-318-WI-06-2017-46798-194 to 224	WPSC	31		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	6	IMP318		H2O	IMP-MRETS-REC-318-WI-06-2017-46851-216 to 250	WPSC	35		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	7	IMP318		H2O	IMP-MRETS-REC-318-WI-07-2017-46788-92 to 118	WPSC	27		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	7	IMP318		H2O	IMP-MRETS-REC-318-WI-07-2017-46841-98 to 127	WPSC	30		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	8	IMP318		H2O	IMP-MRETS-REC-318-WI-08-2017-46790-119 to 140	WPSC	22		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	8	IMP318		H2O	IMP-MRETS-REC-318-WI-08-2017-46843-128 to 153	WPSC	26		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	9	IMP318		H2O	IMP-MRETS-REC-318-WI-09-2017-46792-141 to 162	WPSC	22		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	9	IMP318		H2O	IMP-MRETS-REC-318-WI-09-2017-46845-154 to 178	WPSC	25		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	10	IMP318		H2O	IMP-MRETS-REC-318-WI-10-2017-46782-9 to 36	WPSC	28		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	10	IMP318		H2O	IMP-MRETS-REC-318-WI-10-2017-46835-3 to 33	WPSC	31		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	11	IMP318		H2O	IMP-MRETS-REC-318-WI-11-2017-46784-37 to 64	WPSC	28		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	11	IMP318		H2O	IMP-MRETS-REC-318-WI-11-2017-46837-34 to 66	WPSC	33		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	12	IMP318		H2O	IMP-MRETS-REC-318-WI-12-2017-46786-65 to 91	WPSC	27		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	12	IMP318		H2O	IMP-MRETS-REC-318-WI-12-2017-46839-67 to 97	WPSC	31		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	1	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-01-2017-46756-1 to 652	WPSC	652		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	1	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-01-2017-46805-1 to 742	WPSC	742		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	2	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-02-2017-46758-653 to 1258	WPSC	606		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	2	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-02-2017-46807-743 to 1430	WPSC	688		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	3	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-03-2017-46760-1259 to 1899	WPSC	641		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	3	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-03-2017-46809-1431 to 2160	WPSC	730		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	4	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-04-2017-46772-2372 to 3129	WPSC	758		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	4	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-04-2017-46823-2699 to 3559	WPSC	861		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	5	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-05-2017-46825-5365 to 6110	WPSC	746		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	5	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-05-2017-46877-4228 to 4881	WPSC	654		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	6	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-06-2017-46774-3130 to 3712	WPSC	583		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	6	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-06-2017-46827-3560 to 4227	WPSC	668		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	7	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-07-2017-46766-1900 to 2371	WPSC	472		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	7	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-07-2017-46817-2161 to 2698	WPSC	538		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	8	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-08-2017-46768-5136 to 1502	WPSC	367		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	8	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-08-2017-46819-4949 to 5364	WPSC	414		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	9	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-09-2017-46770-16 to 408	WPSC	393		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	9	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-09-2017-46821-2175 to 2622	WPSC	448		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	10	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-10-2017-46762-45 to 516	WPSC	472		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	10	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-10-2017-										

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Year	Month	MIRECS ID	Project	Fuel/Project Type	Credit Serial Numbers	Login Name	Quantity	Ratio	Ac Date of Transfer	Transferor	Transferee	Action	SubAccountName	SubAccount From	Transaction ID
2017	12	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-12-2017-46764-517 to 1135	WPSC	619		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	12	IMP362	Wausau - RRC 24	H2O	IMP-MRETS-REC-362-WI-12-2017-46815-4246 to 4948	WPSC	703		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	1	IMP149		WND	IMP-MRETS-REC-149-WI-01-2017-46926-5651 to 6299	WPSC	649		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	1	IMP149		WND	IMP-MRETS-REC-149-WI-01-2017-46943-6431 to 7000	WPSC	570		4/17/2018 7:52	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	2	IMP149		WND	IMP-MRETS-REC-149-WI-02-2017-46927-6300 to 7049	WPSC	750		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	2	IMP149		WND	IMP-MRETS-REC-149-WI-02-2017-46944-7001 to 7659	WPSC	659		4/17/2018 7:52	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	3	IMP149		WND	IMP-MRETS-REC-149-WI-03-2017-46906-4221 to 4995	WPSC	775		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	3	IMP149		WND	IMP-MRETS-REC-149-WI-03-2017-46928-5550 to 6430	WPSC	881		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	4	IMP149		WND	IMP-MRETS-REC-149-WI-04-2017-46903-2467 to 3174	WPSC	708		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	4	IMP149		WND	IMP-MRETS-REC-149-WI-04-2017-46918-542 to 1347	WPSC	806		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	5	IMP149		WND	IMP-MRETS-REC-149-WI-05-2017-46904-3175 to 3738	WPSC	564		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	5	IMP149		WND	IMP-MRETS-REC-149-WI-05-2017-46919-1348 to 1989	WPSC	642		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	6	IMP149		WND	IMP-MRETS-REC-149-WI-06-2017-46905-3739 to 4220	WPSC	482		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	6	IMP149		WND	IMP-MRETS-REC-149-WI-06-2017-46920-1990 to 2538	WPSC	549		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	7	IMP149		WND	IMP-MRETS-REC-149-WI-07-2017-46804-1397 to 1666	WPSC	270		4/17/2018 7:26	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	7	IMP149		WND	IMP-MRETS-REC-149-WI-07-2017-46924-4873 to 5179	WPSC	307		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	8	IMP149		WND	IMP-MRETS-REC-149-WI-08-2017-46901-1667 to 1991	WPSC	325		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	8	IMP149		WND	IMP-MRETS-REC-149-WI-08-2017-46925-5180 to 5549	WPSC	370		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	9	IMP149		WND	IMP-MRETS-REC-149-WI-09-2017-46902-1992 to 2466	WPSC	475		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	9	IMP149		WND	IMP-MRETS-REC-149-WI-09-2017-46911-7 to 541	WPSC	541		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	10	IMP149		WND	IMP-MRETS-REC-149-WI-10-2017-46907-4996 to 5650	WPSC	655		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	10	IMP149		WND	IMP-MRETS-REC-149-WI-10-2017-46921-2539 to 3283	WPSC	745		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	11	IMP149		WND	IMP-MRETS-REC-149-WI-11-2017-46802-1 to 688	WPSC	688		4/17/2018 7:26	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	11	IMP149		WND	IMP-MRETS-REC-149-WI-11-2017-46922-3284 to 4066	WPSC	783		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	12	IMP149		WND	IMP-MRETS-REC-149-WI-12-2017-46803-689 to 1396	WPSC	708		4/17/2018 7:26	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	12	IMP149		WND	IMP-MRETS-REC-149-WI-12-2017-46923-4067 to 4872	WPSC	806		4/17/2018 7:26	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	1	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-01-2017-46929-1 to 19	WPSC	19		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	1	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-01-2017-46945-1 to 17	WPSC	17		4/17/2018 7:52	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	2	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-02-2017-46908-8 to 28	WPSC	21		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	2	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-02-2017-46930-76 to 99	WPSC	24		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	3	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-03-2017-46909-2 to 23	WPSC	22		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	3	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-03-2017-46931-20 to 44	WPSC	25		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	4	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-04-2017-46939-116 to 134	WPSC	19		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	4	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-04-2017-46940-104 to 125	WPSC	22		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	5	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-05-2017-46941-48 to 62	WPSC	15		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	5	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-05-2017-46946-135 to 147	WPSC	13		4/17/2018 7:52	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	6	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-06-2017-46942-63 to 69	WPSC	7		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	6	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-06-2017-46947-148 to 153	WPSC	6		4/17/2018 7:52	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	7	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-07-2017-46913-38 to 41	WPSC	4		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	7	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-07-2017-46935-36 to 40	WPSC	5		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	8	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-08-2017-46914-29 to 35	WPSC	7		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	8	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-08-2017-46936-100 to 107	WPSC	8		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	9	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-09-2017-46937-41 to 47	WPSC	7		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	9	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-09-2017-46938-108 to 115	WPSC	8		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	10	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-10-2017-46910-24 to 40	WPSC	17		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	10	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-10-2017-46932-45 to 63	WPSC	19		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	11	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-11-2017-46911-41 to 56	WPSC	16		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	11	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-11-2017-46933-64 to 81	WPSC	18		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	12	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-12-2017-46912-57 to 75	WPSC	19		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	12	IMP147	Lincoln - RRC 177	WND	IMP-MRETS-REC-147-WI-12-2017-46934-82 to 103	WPSC	22		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	1	IMP150		INC	IMP-MRETS-IREC-150-WI-01-2017-46886-1 to 27	WPSC	27		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	1	IMP150		INC	IMP-MRETS-IREC-150-WI-01-2017-46916-1 to 31	WPSC	31		4/17/2018 7:50	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	2	IMP150		INC	IMP-MRETS-IREC-150-WI-02-2017-46886-1 to 32	WPSC	32		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	2	IMP150		INC	IMP-MRETS-IREC-150-WI-02-2017-46888-4 to 31	WPSC	28		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	3	IMP150		INC	IMP-MRETS-IREC-150-WI-03-2017-46888-67 to 102	WPSC	36		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	3	IMP150		INC	IMP-MRETS-IREC-150-WI-03-2017-46898-115 to 146	WPSC	32		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	4	IMP150		INC	IMP-MRETS-IREC-150-WI-04-2017-46860-64 to 92	WPSC	29		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	4	IMP150		INC	IMP-MRETS-IREC-150-WI-04-2017-46892-194 to 219	WPSC	26		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	5	IMP150		INC	IMP-MRETS-IREC-150-WI-05-2017-46862-93 to 120	WPSC	28		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	5	IMP150		INC	IMP-MRETS-IREC-150-WI-05-2017-46894-220 to 244	WPSC	25		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	6	IMP150		INC	IMP-MRETS-IREC-150-WI-06-2017-46864-121 to 153	WPSC	33		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	6	IMP150		INC	IMP-MRETS-IREC-150-WI-06-2017-46896-245 to 273	WPSC	29		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	7	IMP150		INC	IMP-MRETS-IREC-150-WI-07-2017-46854-1 to 31	WPSC	31		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	7	IMP150		INC	IMP-MRETS-IREC-150-WI-07-2017-46884-88 to 114	WPSC	27		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	8	IMP150		INC	IMP-MRETS-IREC-150-WI-08-2017-46801-3 to 33	WPSC	31		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	8	IMP150		INC	IMP-MRETS-IREC-150-WI-08-2017-46856-32 to 66	WPSC	35		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	9	IMP150		INC	IMP-MRETS-IREC-150-WI-09-2017-46858-34 to 63	WPSC	30		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	9	IMP150		INC	IMP-MRETS-IREC-150-WI-09-2017-46										

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Year	Month	MIRECS ID	Project	Fuel/Project Type	Credit Serial Numbers	Login Name	Quantity	Ratio	Ac Date of Transfer	Transferor	Transferee	Action	SubAccountName	SubAccount From	Transaction ID
2017	11	IMP150		INC	IMP-MRETS-IREC-150-WI-11-2017-46872-103 to 138	WPSC	36		4/17/2018 7:33	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	11	IMP150		INC	IMP-MRETS-IREC-150-WI-11-2017-46880-33 to 63	WPSC	31		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	12	IMP150		INC	IMP-MRETS-IREC-150-WI-12-2017-46874-139 to 166	WPSC	28		4/17/2018 7:33	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	12	IMP150		INC	IMP-MRETS-IREC-150-WI-12-2017-46882-64 to 87	WPSC	24		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	1	IMP318		INC	IMP-MRETS-IREC-318-WI-01-2017-46777-1 to 2	WPSC	2		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	1	IMP318		INC	IMP-MRETS-IREC-318-WI-01-2017-46830-1 to 2	WPSC	2		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	2	IMP318		INC	IMP-MRETS-IREC-318-WI-02-2017-46779-1 to 2	WPSC	2		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	2	IMP318		INC	IMP-MRETS-IREC-318-WI-02-2017-46832-19 to 20	WPSC	2		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	3	IMP318		INC	IMP-MRETS-IREC-318-WI-03-2017-46781-3 to 4	WPSC	2		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	3	IMP318		INC	IMP-MRETS-IREC-318-WI-03-2017-46834-21 to 22	WPSC	2		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	4	IMP318		INC	IMP-MRETS-IREC-318-WI-04-2017-46795-5 to 6	WPSC	2		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	4	IMP318		INC	IMP-MRETS-IREC-318-WI-04-2017-46848-23 to 25	WPSC	3		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	5	IMP318		INC	IMP-MRETS-IREC-318-WI-05-2017-46797-13 to 15	WPSC	3		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	5	IMP318		INC	IMP-MRETS-IREC-318-WI-05-2017-46850-16 to 18	WPSC	3		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	6	IMP318		INC	IMP-MRETS-IREC-318-WI-06-2017-46799-16 to 18	WPSC	3		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	6	IMP318		INC	IMP-MRETS-IREC-318-WI-06-2017-46852-19 to 21	WPSC	3		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	7	IMP318		INC	IMP-MRETS-IREC-318-WI-07-2017-46789-7 to 8	WPSC	2		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	7	IMP318		INC	IMP-MRETS-IREC-318-WI-07-2017-46842-10 to 11	WPSC	2		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	8	IMP318		INC	IMP-MRETS-IREC-318-WI-08-2017-46791-9 to 10	WPSC	2		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	8	IMP318		INC	IMP-MRETS-IREC-318-WI-08-2017-46844-12 to 13	WPSC	2		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	9	IMP318		INC	IMP-MRETS-IREC-318-WI-09-2017-46793-11 to 12	WPSC	2		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	9	IMP318		INC	IMP-MRETS-IREC-318-WI-09-2017-46846-14 to 15	WPSC	2		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	10	IMP318		INC	IMP-MRETS-IREC-318-WI-10-2017-46783-1 to 2	WPSC	2		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	10	IMP318		INC	IMP-MRETS-IREC-318-WI-10-2017-46836-1 to 3	WPSC	3		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	11	IMP318		INC	IMP-MRETS-IREC-318-WI-11-2017-46785-3 to 4	WPSC	2		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	11	IMP318		INC	IMP-MRETS-IREC-318-WI-11-2017-46838-4 to 6	WPSC	3		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	12	IMP318		INC	IMP-MRETS-IREC-318-WI-12-2017-46787-5 to 6	WPSC	2		4/17/2018 7:24	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	12	IMP318		INC	IMP-MRETS-IREC-318-WI-12-2017-46840-7 to 9	WPSC	3		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	1	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-01-2017-46757-1 to 61	WPSC	61		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	1	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-01-2017-46806-1 to 69	WPSC	69		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	2	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-02-2017-46759-62 to 124	WPSC	63		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	2	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-02-2017-46808-70 to 140	WPSC	71		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	3	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-03-2017-46761-125 to 194	WPSC	70		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	3	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-03-2017-46810-141 to 220	WPSC	80		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	4	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-04-2017-46773-238 to 313	WPSC	76		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	4	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-04-2017-46824-270 to 355	WPSC	86		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	5	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-05-2017-46826-543 to 614	WPSC	72		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	5	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-05-2017-46878-425 to 487	WPSC	63		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	6	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-06-2017-46775-314 to 373	WPSC	60		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	6	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-06-2017-46828-356 to 424	WPSC	69		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	7	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-07-2017-46767-195 to 237	WPSC	43		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	7	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-07-2017-46818-221 to 269	WPSC	49		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	8	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-08-2017-46769-115 to 152	WPSC	38		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	8	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-08-2017-46820-500 to 542	WPSC	43		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	9	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-09-2017-46771-1 to 38	WPSC	38		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	9	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-09-2017-46822-222 to 265	WPSC	44		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	10	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-10-2017-46763-3 to 50	WPSC	48		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	10	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-10-2017-46812-374 to 427	WPSC	54		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	11	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-11-2017-46814-153 to 221	WPSC	69		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
2017	11	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-11-2017-46876-615 to 675	WPSC	61		4/17/2018 7:46	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	12	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-12-2017-46765-51 to 114	WPSC	64		4/17/2018 7:23	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 UMERC Retirement Active-1218	Import-155	
2017	12	IMP362	Wausau - RRC 24	INC	IMP-MRETS-IREC-362-WI-12-2017-46816-428 to 499	WPSC	72		4/17/2018 7:32	MIRECS APX Administrator	Wisconsin Public Service Corporation	Confirm	2017 MI Load Ratio Share-130	Import-155	
						Total	39745								

Michigan Public Service Commission U-20176  
 2017 Renewable Energy Annual Report  
 UMERC - WPS rate zone  
**CONFIDENTIAL - Redacted**

<b>Pre PA 295 Generation:</b>		System Type	Nameplate	Generator Classification	2017 MI Generation			
MRECS ID	Project	RES/ACES	Capacity		Share	IRECs	% RE	% ACE
IMP147	Lincoln - RRC 177	RES	9.2	Existing, Co Owned, Pre PA 295	360	0	100%	0%
IMP362	Wausau - RRC 24	RES	5.5	Existing, Co Owned, Pre PA 295	14,553	1,463	100%	0%
Total Pre PA 295:					14,913	1,463		

<b>Post PA 295 Generation:</b>		System Type	Nameplate	Generator Classification	2017 MI Generation			
MRECS ID	Project	RES/ACES	Capacity		Share	IRECs	% RE	% ACE
						0	0	100%
						0	0	100%
Total Post PA 295:						0	0	

Total for Owned Generation: 14,913 1,463

<b>Contracted Energy &amp; Credits</b>		System Type	Nameplate	Generator Classification	2017 MI Generation			
MRECS ID	Project	RES/ACES	Capacity		Share	IRECs	% RE	% ACE
IMP149		RES	129.0	Contracted Energy & Credits	14,708	0	100%	0%
IMP150		RES	8.0	Contracted Energy & Credits	7,211	714	100%	0%
IMP318		RES	2.2	Contracted Energy & Credits	680	56	100%	0%
Total:					22,599	770		

Grand Total: 37,512 2,233

Combined Total (RECs and IRECs): 39,745

**Notes:**

- 1- The renewable energy credits shown are the amounts allocated to Michigan on a load ratio share basis of retail sales and FERC Jurisdictional account sales.
- 2- The 2017 UMERC-WPS rate zone load ratio share was 1.85%.

MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
PUBLIC SERVICE COMMISSION

**ENTRY OF APPEARANCE IN AN ADMINISTRATIVE HEARING**

This form is issued as provided for by 1939 PA 3, as amended, and by 1933 PA 254, as amended. The filing of this form, or an acceptable alternative, is necessary to ensure subsequent service of any hearing notices, Commission orders, and related hearing documents.

**General Instructions:**

Type or print legibly in ink. For assistance or clarification, please contact the Public Service Commission at (517) 284-8090.

*Please Note: The Commission will provide **electronic** service of documents to all parties in this proceeding.*

**THIS APPEARANCE TO BE ENTERED IN ASSOCIATION WITH THE ADMINISTRATIVE HEARING:**

Case / Company Name: Upper Michigan Energy Resources Corporation Docket No. U-20176

Please enter my appearance in the above-entitled matter on behalf of:

1. (Name) Upper Michigan Energy Resources Corporation
2. (Name)
3. (Name)
4. (Name)
5. (Name)
6. (Name)
7. (Name)

Name Sherri A. Wellman  
Address One Michigan Avenue, Ste. 900  
  
City Lansing State MI  
Zip 48933 Phone (517) 483-4954  
Email wellmans@millercanfield.com  
Date July 2, 2018

<input type="checkbox"/> I am not an attorney
<input checked="" type="checkbox"/> I am an attorney whose:
Michigan Bar # is P- <u>38989</u>
_____ Bar # is: _____
( state )

Signature: \_\_\_\_\_