



Water Works and Lighting Commission

221 16th Street South P.O. Box 399 Wisconsin Rapids, WI 54495-0399 715/423-6300 FAX: 715/423-2831

AGENDA

There will be a Regular Meeting of the Water Works and Lighting Commission in the conference room on Wednesday, February 9, 2022, at 1:00 PM.

Listed below is the agenda for this meeting.

1. Call to order
2. Approval, additions, or corrections to the minutes of the following meeting
 - 2.1. Regular Commission Meeting held January 12, 2022
3. Action items
 - 3.1. Well 2 Cleaning and Redevelopment
4. Department updates
 - 4.1. Safety Committee
 - 4.2. Line Superintendent
 - 4.3. Water Department Operations
 - 4.4. Customer Support Supervisor
 - 4.5. Director of Finance
 - 4.6. Information Systems Administrator
 - 4.7. Conservation Manager
 - 4.8. Electrical Engineer
 - 4.9. Director of Engineering & Electric Operations
 - 4.10. General Manager
5. Review of accounts payable
6. Adjourn

If given 72 hours' notice, efforts will be made by the General Manager's office to accommodate the needs of disabled individuals through sign language interpreters and other auxiliary aids.

Regular Meeting of the Water Works and Lighting Commission Wednesday, January 12, 2022

There were present:

Commissioner John Bergin
Commissioner John Harper
Commissioner Rick Merdan
Commissioner Tom Nowak
Commissioner Jay Bemke

Also in attendance: Jem Brown, Roxanne Gronske, Todd Weiler, Jeff Kuhn, Dale Scheunemann, Matt Stormoen, Tyler Sneed, Shawn Reimer, Lynn Schroer, and Jason Warren.

1. Call to Order

Chairman Tom Nowak called the meeting to order at 1:00 PM.

2. Approval, additions or corrections to the minutes of the following meeting

2.1 Regular Commission Meeting held December 8, 2021

There was a motion made by John Harper, seconded by John Bergin, and carried to approve the minutes of the Regular Commission Meeting held on December 8, 2021, and to place them on file. There were no nay votes recorded.

2.2 Special Commission Meeting held December 17, 2021

There was a motion made by Jay Bemke, seconded by Rick Merdan, and carried to approve the minutes of the Special Commission Meeting held on December 17, 2021, and to place them on file. There were no nay votes recorded.

3. Action items

3.1 2022 budgeted bucket truck replacement

Jason Warren explained that over the past two years we have seen costs and build times increase from 250 days to almost 1½ years. With that in mind Jason presented the quotes for the bucket truck/aerial that was included in the 2022 electric department capital budget.

After a lengthy discussion, and based upon staff recommendation, there was a motion made by John Bergin, seconded by Rick Merdan, and carried to award the bid from Terex Utilities in the amount of \$244,626.00. There were no nay votes recorded.

4.0 Department updates

4.1 Safety Committee Report

The commissioners reviewed the safety committee minutes and safety coordinator's monthly report. Upcoming bloodborne pathogen training was also discussed.

4.2 Line Superintendent's Report

This report was reviewed and December were discussed. John Bergin wished to thank Josh and his crew for the great job they did restoring power after the December 15th wind storm.

4.3 Water Department Operations Report

This report was reviewed and December water projects were discussed. Dale stated that in December we had 3 water main breaks. Water main breaks especially at this time of the year happen as the ground shifts due to the colder weather and the frost dives deep into the ground.

4.4 Customer Support Supervisor's Report

This report was reviewed and water disconnections were discussed.

4.5 Director of Finance's Report

This report was reviewed and the financial statements/investment reports were discussed at length. Jeff was asked to explain what the degradation fee is that the City has started to charge WW&LC for in 2022.

4.6 Information System's Administrator's Report

This report was reviewed and December projects were discussed. Matt stated he continues to work on the cyber security/multi-factor authentication project and hopes to have it completed by February 1st.

4.7 Conservation Manager's Report

This report was reviewed and discussed. Shawn has been working with Mariani regarding their newly purchased cold storage facility. These discussions led to the most effective ways to eliminate peak demands during their normal seasonal months as well as quarterly maintenance shutdowns and start-ups.

4.8 Electrical Engineer's Report

This report was reviewed. Tyler has been working on an Uninterruptible Power Supply (UPS) inventory management database and replacement program.

4.9 Director of Engineering & Electric Operations

This report was reviewed and discussed. Todd stated that in 2021 traffic lights at 4 intersections in the city were upgraded with new GridSmart vehicle detection cameras.

4.10 General Manager's Report

This report was reviewed and discussed. Jem stated that MEUW added a new position of Manager of Legislative and Regulatory Affairs.

5. Review of accounts payables

A listing of all invoices and checks covering December was provided to the commission for review.

6. Adjourn

There was a motion made by John Bergin, seconded by Rick Merdan, and carried to adjourn at 1:53 PM. No nay votes were recorded.

Respectfully submitted,

Rick Merdan, Secretary

2022 COLLECTOR WELL #2 CLEANING AND REDEVELOPMENT

Company	Total Price
Reynolds Construction	\$387,865.00
Layne/Ranney Collector Wells	\$366,200.00
Municipal Well & Pump	\$163,792.00
Water Well Solutions	\$135,000.00

After reviewing the bids received, I recommend accepting the bid from Water Well Solutions for the price of \$135, 000.00. Water Well Solutions is located in Oconomowoc, Wisconsin and is the same company that has done work for us in the past with the rehab of Well #5.

SAFETY COMMITTEE MEETING MINUTES FOR FEBRUARY 2, 2022

Discussion with: Dale Scheunemann, Adam Breunig, Josh Elliott, Jason Warren, Beth Knobeck, Justin Armagost, Tyler Sneen, Kuba Jestadt and Sean Wall

OLD BUSINESS

There was no old business.

NEW BUSINESS

There were no new safety concerns brought forward at this time.

SAFETY TRAINING/DISCUSSION

The members reviewed the Emergency Action Plan and found no changes at this time. Sean Wall stated that he will be doing this training in April and/or May. This training will include tornado and fire drills as well as active shooter response.

Jason Warren mentioned that Altec Company was here to do the annual inspections of the bucket trucks and digger derricks. They found a few minor issues that Jason has already repaired.

Safety Committee meeting ended at 7:20 AM.



Municipal Electric Utilities of Wisconsin
Service. Advocacy. Safety.
725 Lois Drive
Sun Prairie, WI 53590
T: 608-837-2263
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**Wisconsin Rapids Water Works & Lighting Commission
January 2022**

Prepared By: Sean T. Wall, MEUW Senior Regional Safety Coordinator

SAFETY REPORT

ACCOMPLISHMENTS

1. Training

- a. CPR / AED / First Aid / Bloodborne Pathogens hands on training (Session 1 of 4)

2. Audits/Inspections

- a. No inspections done in January

3. Compliance/Risk Management

- a. Attended Safety Committee meeting
- b. Did not attend Commission meeting due to MEUW Operations Conference
- c. Submitted APPA Annual Safety Award application
- d. Revised Emergency Action Plan program for February Safety Committee meeting

GOALS AND OBJECTIVES

1. Training

- a. CPR / AED / First Aid / Bloodborne Pathogens hands on training (Sessions 2 & 3 of 4)

2. Audits/Inspections

- a. No audits / inspections planned

3. Compliance/Risk Management

- a. Attend Safety Committee meeting
- b. Attend Commission meeting
- c. Continued work with Matt S. to get MSDSOnline links on all available PC desktops



Water Works and Lighting Commission

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**LINE SUPERINTENDENT'S REPORT
January 2022**

Work Performed

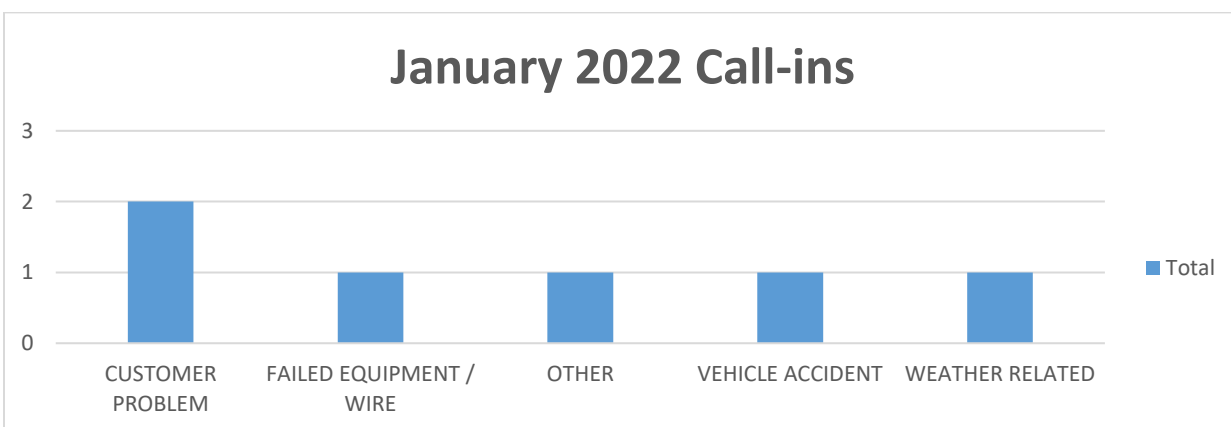
During January, the Electric Department processed 10 work orders, 12 electric service orders, and 33 trouble slips.

Other Projects

- Continued replacement of single phase older wooden poles.
- Continued tree trimming.
- Completed numerous customer-requested jobs/services.
- Replaced missing/damaged guy guards throughout service territory.
- Began preliminary 2022 construction season planning.

After Hours Calls

In January there were 6 after hour call-ins.



The call-in for "other" was for a fire; the failed equipment was a bad capacitor.

Respectfully submitted,

Josh Elliott
Electric Line Superintendent



Water Works and Lighting Commission

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**WATER DEPARTMENT OPERATIONS REPORT
January 2022**

WATER PROJECT

During January, the water department worked on the following projects.

- ❖ Crews repaired three water breaks located at 210 Hurley Street, 21st Avenue South and Carey Street, and 2631 5th Street South.
- ❖ Crews responded to 5 no-water calls and found frozen services, which we thawed, or found frozen and broken pipes in the home's basements or crawl spaces.
- ❖ Crews have been working with office staff to hang notices and to shut off water for nonpayment.

TROUBLE CALLS

In January the water crews investigated 32 meter trouble slips. Tested meters were (6) 5/8" meters, (7) 1" meter (3) 1 ½" meters

WATER ELEVATIONS AT MV – 4 MONITORING WELL FOR THE LAST 5 YEARS

The readings given below were taken during the last week of January of the year noted:

2022 – 15'6"
2021 – 15'4"

2020 – 15'1"
2019 – 14'5"

2018 – 16'5"

The highest elevation for MV – 4 was 12'7" on July 2, 2004.

The lowest elevation for MV – 4 was 21.5 on September 11, 2009.

Sincerely,

Dale Scheunemann
Water Superintendent

**Water Works and Lighting Commission**

221 16th Street S, P.O. Box 399 Wisconsin Rapids, WI 54495-0399 (715) 423-6300

**CUSTOMER SUPPORT SUPERVISOR'S REPORT
JANUARY 2022****COLLECTIONS**

Below is the comparison of active and inactive accounts receivable for January.

ALL PROVIDERS – Active and Inactive Accounts			
	<u>January, 2020</u>	<u>January, 2021</u>	<u>January, 2022</u>
30 day	205,618	229,664	195,295
60 day	101,893	133,935	80,808
90 day	104,878	461,888	67,686
Current	2,037,047	2,102,493	2,195,893
Total Active	2,449,436	2,927,980	2,539,682
Total Inactive	127,939	125,029	56,021
Total AR	2,577,374	3,053,009	2,595,703

Each year, our accounts receivable increase during the winter moratorium. During this time we continue with water disconnection as we are not able to disconnect electric. In January, 171 letters were sent to customers with a past due water balance. We placed 101 door tags at locations that did not either make a payment on their account or receive assistance. Fourteen properties were disconnected, and four remain disconnected to date.

Tax Refund Interception Program (TRIP) and State Debt Collection (SDC)

We received \$3,283 through SDC in January. We also sent 175 customers a letter informing them that their past due balance would be sent to TRIP if not paid. Of the 175 letters, 120 were for customers with an active balance 90 days past due.

Thirty-eight commercial accounts were notified of a past due balance and pending disconnection in January. Nine locations were also tagged for disconnection and they all paid prior to disconnect.

The utility received just over \$33,000 in Energy Assistance (EA) payments in January. In 2021, rate payers contributed \$139,026 to low-income programs and our customers received \$545,015 in electric benefits. There was additional funding available this past year due to the pandemic. The low-income benefits program is part of the Commitment to Community charge that is billed to all electric accounts. Half of the funds collected go to low-income programs, while the other half is sent to Focus on Energy for energy efficiency programs.

NEW CUSTOMER ORDERS

The office staff processed three new electric services in January. In addition, 163 electric and 94 water move orders were processed with 24 orders received electronically. We sent 70 welcome letters to new customers.

OFFICE NEWS

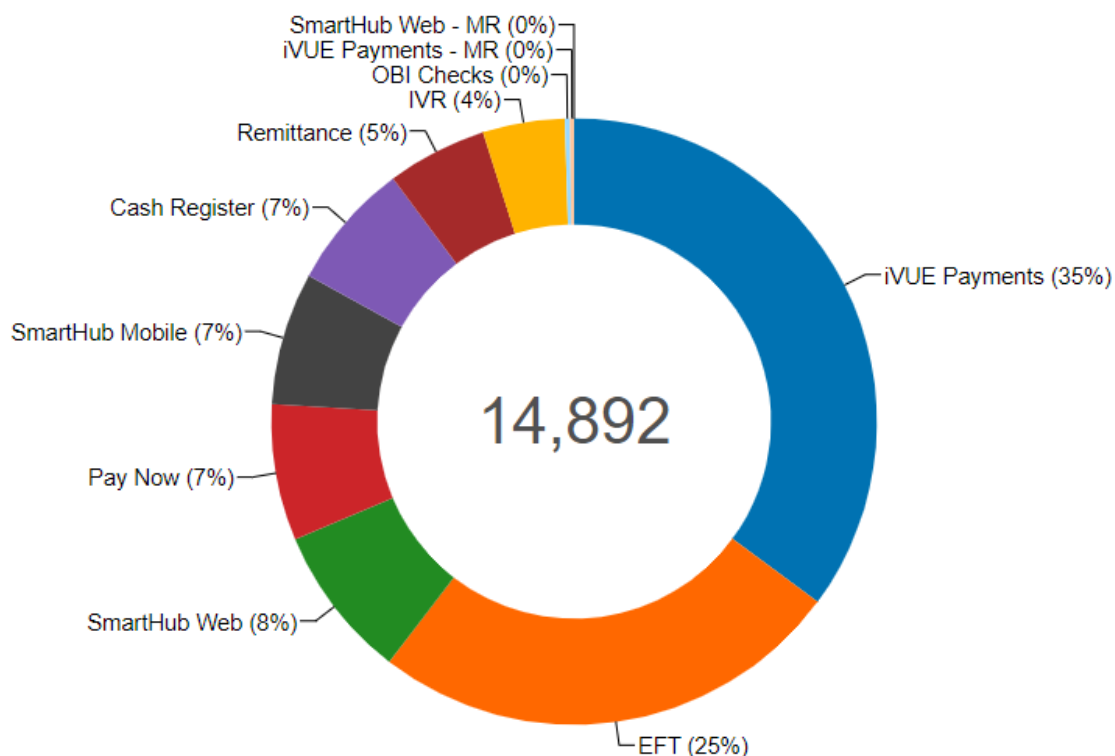
- ✚ The City of Wisconsin Rapids storm sewer increase was implemented in our software.
- ✚ Fifty Water Allowed to Run (WAR) and 10 P-value letters were sent to customers.
- ✚ With Jerry transitioning full-time to Cross Connection Inspections and the Well Inspection Program, we have a new face in the office. Courtney Mancl began her employment at WW&LC on January 17th. Her primary job duties will be processing our service orders and back up collections when necessary. In her first two weeks, Courtney has quickly adapted to our software and we are pleased to welcome her to our WW&LC family!
- ✚ Fifty-one properties were inspected for cross connection. One property was disconnected for non-compliance but was reconnected the following day.

CUSTOMER PHONE CALLS

In January our office answered over 1,900 customer phone calls. Calls were answered in approximately eight seconds and the average call lasted just under two minutes.

OFFICE PAYMENTS

We received 14,892 payments in January with approximately 56 percent received via one of our electronic payment options.



SOCIAL MEDIA AND WEBSITE ANALYTICS



We posted seven messages on Facebook generating 9,999 views.
Five messages were posted on Twitter generating 720 impressions.
We had over 2,000 users on our website generating 2,833 sessions.

Respectfully submitted,
Lynn Schroer
Customer Support Supervisor

**Water Works and Lighting Commission**

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Director of Finance Report

January 2022

Financial Reports

December financial reports are not included in this month's packet as the year-end closing is still ongoing, and we await the final invoices and expenses for the year. The auditors scheduled final on-site fieldwork for the week of March 1. Utility revenue has been reconciled and accrued, as shown below.

Electric revenues in total were about 6.5% higher in 2021 compared to 2020. Total kWh sales for 2021 was 258,830,554, compared to 253,759,603 in 2020, or a 2% increase.

	2021	2020	2019
	YTD	YTD	YTD
Sales of Electricity			
Residential Sales	\$ 11,257,234	\$ 11,049,641	\$ 10,637,405
General Service	\$ 4,056,947	\$ 3,879,401	\$ 4,035,591
Small Power (CP1)	\$ 3,160,580	\$ 3,400,515	\$ 3,495,711
Large Power (CP2 & CP3)	\$ 4,202,402	\$ 4,142,034	\$ 4,562,435
Industrial Power (CP4)	\$ 3,520,416	\$ 3,306,689	\$ 3,444,530
Street & Athletic Field Lighting	\$ 639,370	\$ 621,916	\$ 607,292
Power Cost Adjustment Clause	\$ (246,482)	\$ (1,431,634)	\$ (1,360,593)
Total Sales of Electricity	\$ 26,590,467	\$ 24,968,561	\$ 25,422,370

Water revenue decreased 1.6% in 2021, or \$65,653. Industrial sales were down over \$120,000 with the Verso shutdown. Overall, 637,480,000 gallons of water were sold in 2021, compared to 658,758,000 gallons in 2020.

	2021	2020	2019
	YTD	YTD	YTD
Metered Sales of Water			
Residential Sales	\$ 1,885,524	\$ 1,903,150	\$ 1,701,897
Commercial Sales	\$ 745,684	\$ 734,213	\$ 755,949
Industrial Sales	\$ 606,109	\$ 726,744	\$ 653,982
Irrigation Sales	\$ 426,649	\$ 381,644	\$ 253,368
Multi-Family Residential Sales	\$ 212,840	\$ 207,515	\$ 184,994
Public Authority Sales	\$ 180,851	\$ 170,044	\$ 171,324
Total Sales of Water	\$ 4,057,657	\$ 4,123,310	\$ 3,721,515

Cash Flow Change

Starting this month, I plan to net the check returns against the utility receipts on the cash flow statement. These NSF's are typically collected the same or the next month and are not truly a utility expense. I will also include a prior year-to-date comparison column on the report for additional information. I hope these minor changes will make these statements easier to understand.

Cybersecurity Liability Insurance

Cybersecurity liability insurance has been a hot topic over 2021, with several cyber breaches making headlines. Travelers Insurance has provided the cybersecurity liability insurance for the past several years. While trade articles this fall suggested a 30-50% premium increase for 2022, we were quoted a 500% increase with the retention/deductible going from \$5,000 to \$50,000. Luckily, our agent quoted several other insurers to minimize the increase. We ultimately decided to go with the League of Wisconsin Mutual Insurance for our cyber coverage. While still a sizeable increase (175%), the retention/deductible is \$10,000, while the coverage stays strong to protect the utility if needed.



Jeff Kuhn
Director of Finance

Wisconsin Rapids Water Works and Lighting Commission
Cash Flow Summary
for Month Ending January 31, 2022

	<u>Current Month</u>	<u>Year to Date</u>	<u>Prior Year to Date</u>
Cash Receipts:			
Utility Receipts, Net of Returns	\$ 3,257,262	\$ 3,257,262	\$ 2,637,593
Interest and Dividends	\$ 176	\$ 176	\$ 181
Transfer from Investments	\$ 645,186	\$ 645,186	\$ 633,226
ATC Dividend Payment	<u>\$ 135,001</u>	<u>\$ 135,001</u>	<u>\$ 132,484</u>
Total Cash Receipts	\$ 4,037,625	\$ 4,037,625	\$ 3,403,484
Disbursements			
AP Payments	\$ (1,502,801)	\$ (1,502,801)	\$ (1,471,537)
GLU Power Bill	\$ (1,481,720)	\$ (1,481,720)	\$ (1,398,520)
Transfer to Investments	\$ (400,000)	\$ (400,000)	\$ (225,000)
ATC - Voluntary Capital Call	\$ (132,538)	\$ (132,538)	\$ -
Sales Tax Payment	\$ (32,592)	\$ (32,592)	\$ (32,622)
Payroll	\$ (447,271)	\$ (447,271)	\$ (415,277)
Service Fees	\$ (4,711)	\$ (4,711)	\$ (3,549)
Total Disbursements	<u>\$ (4,001,633)</u>	<u>\$ (4,001,633)</u>	<u>\$ (3,546,505)</u>
Net Cash Flow	<u>\$ 35,992</u>	<u>\$ 35,992</u>	<u>\$ (143,021)</u>

**Wisconsin Rapids Water Works & Lighting Commission
Investment Report**

12/31/2021

INSTITUTION	FACE VALUE	FACE VALUE & ACCRUED INT	RATE/ YIELD	MATURITY DATE	DATE ACQUIRED	TYPE
Local Government Investment Pool (LGIP)	387,541.89	387,541.89	0.0600%			
Prevail Bank	6,780,791.53	6,780,791.53	0.6000%			
Ehlers Investments						
HAWAII STATE BOND	250,000.00	250,135.51	0.2100%	2/22/2022	10/22/2021	NOTE
TIAA, FSB	250,000.00	252,576.71	2.8500%	2/22/2022	2/22/2019	CD
WESTON, WI	90,000.00	91,200.00	4.0000% *	3/1/2022	5/20/2020	NOTE
NEW YORK STATE DORMITORY AUTHORITY	75,000.00	75,750.00	2.0000% *	7/1/2022	12/31/2020	NOTE
VILLAGE OF SHOREWOOD HILLS GO NOTE	15,000.00	15,062.50	2.5000% *	5/1/2022	12/29/2020	NOTE
PLEASANT PRAIRIE WI	50,000.00	50,625.00	3.0000% *	8/1/2022	5/19/2020	NOTE
MORGAN STANLEY PRIVATE BANK	250,000.00	251,317.81	1.8500%	9/19/2022	10/11/2019	CD
ALLY BANK	248,000.00	249,285.18	1.9500%	9/26/2022	9/20/2019	CD
SOUTH DAKOTA HOUSING AUTHORITY	65,000.00	65,243.10	2.2440% *	11/1/2022	12/29/2020	NOTE
LIVE OAK BANKING COMPANY	215,000.00	215,319.55	1.7900%	11/28/2022	11/25/2019	CD
SALLIE MAE BANK	250,000.00	250,266.10	1.8820%	12/12/2022	12/12/2019	CD
WELLS FARGO NATIONAL BANK WEST	248,000.00	248,038.73	1.9000%	1/30/2023	1/30/2020	CD
WISCONSIN STATE FINANCE AUTHORITY	70,000.00	71,166.67	5.0000% *	3/1/2023	12/29/2020	NOTE
WISCONSIN STATE GENERAL FUND REV BOND	210,000.00	210,717.15	2.0490%	5/1/2023	1/30/2020	NOTE
HOCKING TECHNICAL COLLEGE OHIO	300,000.00	301,527.00	0.7880%	7/1/2023	11/23/2020	NOTE
OKLAHOMA STATE HIGHWAY CAPITAL IMPROVE	50,000.00	51,322.50	5.2900% *	7/1/2023	12/29/2020	NOTE
ILLINOIS HOUSING AUTHORITY	50,000.00	50,395.83	1.9000% *	8/1/2023	12/29/2020	NOTE
NEW YORK STATE DORMITORY AUTHORITY	100,000.00	101,250.00	5.0000% *	10/1/2023	12/29/2020	NOTE
SYNCHRONY BANK	245,000.00	245,217.44	0.4500%	10/23/2023	10/28/2021	CD
WEB BANK	205,000.00	205,012.64	0.7500%	12/29/2023	12/29/2021	CD
FEDERAL HOME LOAN BANK	300,000.00	300,180.50	0.6000%	2/23/2024	11/30/2021	NOTE
CITY OF WATERFORD GO BOND	200,000.00	200,950.00	1.9000% *	4/1/2024	1/30/2020	NOTE
FALLBROOK (CA) PUB UTILITY DIST REV BOND	200,000.00	200,484.67	0.7250%	9/1/2024	1/27/2021	CD
UNITED STATES TREASURY	251,000.00	249,798.51	0.9500%	11/15/2024	12/15/2024	NOTE
FEDERAL HOME LOAN BANK	250,000.00	250,268.75	0.9000%	11/18/2024	10/28/2021	NOTE
COWETA COUNTY (GA) WATER STSTEM REV BONI	300,000.00	300,500.00	2.0000% *	6/1/2025	6/9/2021	NOTE
CLAYTON WIS WATER SYSTEM REV BOND	250,000.00	252,888.89	2.0000% *	6/1/2026	6/1/2021	NOTE
FEDERAL HOME LOAN BANK	500,000.00	500,114.44	1.0290% *	6/23/2026	6/2/2021	NOTE
SCHWAB TREASURY INVESTMENT	80,000.00	80,000.00				MM
FDIC INSURED MONEY MARKET	255,200.22	255,200.22				MM
		5,841,815.40				
TOTAL INVESTMENTS	12,990,533.64	13,010,148.82				
ACCOUNT BALANCES POST-JOURNAL ENTRY						
ELECTRIC UTILITY DEPRECIATION FUND						
0-1261-00		4,994,518.67				
ELECTRIC REVENUE BOND REDEMPTION						
0-1252-00		434,337.06				
WATER UTILITY DEPRECIATION FUND						
2-1261-00		6,024,646.90				
TAX ESCROW FUND						
0-1361-00		722,754.40				
2-1361-00		620,281.54				
GENERAL FUND						
0-1365-00		181,387.28				
2-1365-00		32,222.98				
TOTAL INVESTMENTS		13,010,148.82				

*Water Works and Lighting Commission*

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INFORMATION SYSTEMS ADMINISTRATOR'S REPORT
January 2021

Cyber Security

I have been working with Marco Technologies on the Multi-Factor Authentication (MFA) project. We have completed setup of the system as well as applying MFA to the VPN system. We are currently working on applying protection to all system administrative access as well as the email system. We hope to have everything completed by February 11th.

AMI Communication Upgrade

In January we started installing the remaining new meter collectors. I am still waiting on parts for two of them but we will be installing the other six in February. I hope to receive the rest of the parts by the end of February so that we can complete this project by the end of March.

Projects

1. Cyber Security – Multi-Factor Authentication
2. AMI Communication Upgrade
3. SCADA Server Replacement
4. Network Hardware Replacement
5. Cameras for Water Towers

Sincerely,

Matt Stormoen
Information Systems Administrator



Water Works and Lighting Commission

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**Conservation Manager Report
January 2022**

Partnering with Focus on Energy

This past month, I had a meeting with the Energy Advisors with the Focus on Energy Program. We discussed the Commercial and Industrial customers visited in 2021 and the benefits/savings their organization received from our on-site visit. We were all in agreement to continue these on-site visits in 2022. Our goal is to create a list of the top twenty five C&I customers that we feel can benefit from these visits and schedule them over the next twelve months. This month, I have scheduled on-site visits with Matalco, Mariani packaging/Cold storage and ECC Corrosion, which are some of our top energy user customers.

United Methodist Church

The church contacted us to investigate high electric usage in the past few months. A phone discussion of their hourly load profile data and equipment draw to their building was reviewed in detail. Load profile data suggested the possibility of a furnace fan being left on at all times. It was determined the reason for the high monthly usage, since the start of the cold season. The church will also be taking our recommendation of switching to a Time of Day rate that is forecasted to reduce their electric costs by 10.5% annually. We will also be scheduling an on-site visit, to complete an energy assessment of the church to achieve any further energy efficiency practices or equipment upgrades.

RCH Enterprises

The owner of the facility requested assistance with reducing their monthly demand charges. Hourly data was collected to determine when the highest peak demands were occurring, to investigate certain trends in these time periods. We determined the highest monthly peak demand was occurring on one specific day throughout the month, and during a three hour time period. RCH has several customer renting space in the building, and the owner will be

investigating with his customers, on what piece of equipment may be on during this specific time interval. I will be following up with the owner to assist further if necessary.

Respectfully,

Shawn Reimer

Key Accounts/Conservation Manager



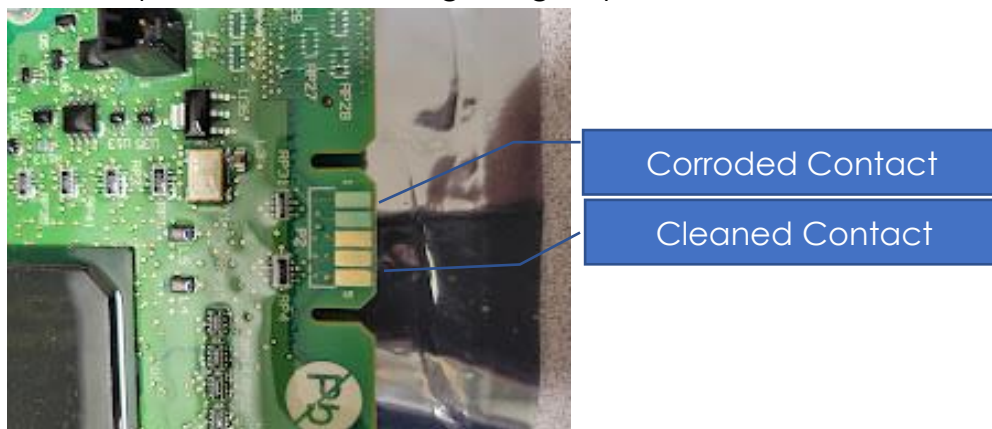
Water Works and Lighting Commission

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ELECTRICAL ENGINEER'S REPORT January 2022

Filter Plant MCC Corrosion:

We noticed a problem with the VFD for the backwash motor and proceeded to troubleshoot the problem. I had our Werner VFD expert, Dave Springhetti, come help us out. We initially determined that the main motherboard was faulty. Dave took the motherboard home with him and determined that the motherboard was in fact still working on a separate test VFD that he had. What Dave found was quite a bit of corrosion on a majority of the copper components of the circuit board. Dave suspects this is because the backwash VFD is not being used as much. Therefore, it is likely accumulating moisture quicker, than the other VFD's in the lineup, because it is not getting any heat to remove the moisture.



VFD Motherboard

The answer was to buy a new motherboard. But it was also necessary to find a way to mitigate the accumulation of moisture inside all of the VFD's. One solution we came up with is to reverse the flow of the fans that bring air into the enclosure so that they aren't bringing in cool damp air from the ground. Along with this, we figured out a way to have the enclosure fans turn off when the drive is not in use.

We were able to get the heaters inside the filter plant working alongside a temporary electric heater which was placed above the affected MCC cabinets. In the future, we are planning to get some dielectric grease to put on all the susceptible parts, and possibly get an air exchanger to remove the damaging moisture from the air altogether.

Dave also recommended that we invest in a backup VFD in case we ever have a complete failure in the future. This may be a significant cost, but if we have a VFD go down that isn't a lesser used VFD, it could be a major problem since the lead time on getting a replacement is about 3 months.

Regards,

Tyler Sreen

Electrical Engineer

*Water Works and Lighting Commission**221 16th St. So. P.O. Box 399 Wisconsin Rapids, WI 54495-0399 715/423-6300 FAX: 715/423-2831***DIRECTOR OF ENGINEERING AND ELECTRIC OPERATIONS REPORT
January, 2022****Distribution Transformers and Other Electrical Equipment**

We continue to see higher prices and longer lead times on electrical equipment. Distribution transformers which only a few years ago were at 12 weeks, are now out over a year. This means that we will have to order the transformers needed in 2023 in the next few months. Other key items affected include cable, poles and anything requiring a computer chip. Our staff has been doing a really good job trying to stay ahead of these new challenges and keep our storeroom inventory at the levels they need to be at in order to complete our list of 2022 projects.

2021 Outage Statistics

I compiled the outage statistics for 2021 and will present them at a special commission meeting in the near future. Total outages continue to track down since adding the second tree trimming crew in 2019. If the December 15th wind storm were not included in the statistics, WW&LC would have had its best year since I began recording this information in 2011.

Filter Plant Corrosion Issues

Tyler will be going into more detail of this problem in his report, but we are seeing corrosion issues on the electrical equipment in the filter plant. I believe to completely solve the problem, an air exchange system will need to be installed. Dale and Jason are looking into getting pricing for one.

Todd Weiler, P.E.

Director of Engineering & Electric Operations



Water Works and Lighting Commission

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GENERAL MANAGER'S REPORT
January, 2022

Potential East Side Development: The WW&LC team met with the City on January 7th to discuss a potential residential development on the east side of the city. City representatives inquired whether WW&LC would potentially sell a portion of our well head protection property on or around 16th Street. The City has a developer interested in purchasing one of our 40 acre parcels for a residential expansion. We informed the City that we would consider selling to a developer, if the price per acre was competitive and city ordinances were strictly followed to protect our water quality.

Municipal Electric Utilities of Wisconsin: MEUW had a board meeting on January 14th in the Dells and via conference call. The board meeting followed the Electric Operations Conference. The conference was very well attended by municipal and cooperative utility personnel. The board created a committee to develop leadership training targeted for young and/or new municipal utility employees. The board also discussed the need and timing of updating MEUW's strategic plan. The current strategic plan was developed in 2018.

Great Lakes Utilities: The GLU board met on January 18th via conference call. The board approved the final power cost adjustment tariff for 2022. GLU continues to review proposals for long term capacity purchases and solar PPA's. The Manitowoc electric generation capacity rate study was reviewed but not approved. It will be held over at least another month.

Jem Brown
General Manager