

**CITY OF FAIRMONT
PUBLIC UTILITIES COMMISSION
AGENDA**

Tuesday, July 18, 2023

- 1 CALL TO ORDER
- 7:30 AM CITY HALL CONFERENCE ROOM (SECOND FLOOR)

- 2 ROLL CALL
CHAIR WERRE _____
VICE-CHAIR MOLTZEN _____
SECRETARY JOHNSON _____
COMMISSIONER STRUSS _____
COMMISSIONER CHRIST _____

- 3 APPROVAL OF MINUTES (2 - 3)
-REGULAR MEETING JUNE 20, 2023

- 4 FINANCIALS & PRODUCTION STATS FOR JUNE 2023 (4 - 12)

- 5 APPROVAL OF DISBURSEMENTS FOR JUNE 2023 (13 - 38)

- 6 OLD BUSINESS

- 7 NEW BUSINESS

7.1 - Approval of the Average Retail Utility Energy Rate (39 - 45)

7.2 - DER 2023-0001 Jack Siebring Contract & Interconnection Agreement (46 - 113)

7.3 - Approval of Electric Department PO #14751-CIP Substation Transformer Purchase (114 - 124)

7.4 - Approval of Electric Department PO #14771 CIP Replace High Voltage Switches (125 - 128)

7.5 - 2022 Audit Overview (129 - 139)

- 8 STAFF UPDATES

8.1 - WATER/WASTEWATER DEPARTMENTS
8.2 - LINE DEPARTMENT

- 9 DATE AND TIME OF NEXT MEETINGS:
- WORK SESSION - TUESDAY, AUGUST 1, 2023
- REGULAR MEETING - TUESDAY, AUGUST 15, 2023

- 10 ADJOURNMENT



Fairmont Public Utilities Commission
July 18, 2023

Agenda Item: 3

From: Julie Zarling, Assistant Finance Director
To: Public Utilities Commission

Subject: PUC Minutes from Regular meeting on June 20, 2023

Policy/Action Requested:

Vote Required: Simple Majority Roll Call

Recommendation: Approval

Overview:

Budget Impact: N/A

Attachments: PUC Minutes Regular Meeting, June 20, 2023

PUC Action: _____ Date: _____

PUBLIC UTILITIES COMMISSION

REGULAR MEETING

Tuesday, June 20, 2023
7:30 A.M.
City Hall Conference Room
Meeting held in person

IN ATTENDANCE: Commissioners Moltzen, Struss, Johnson, Christ, and Werre.

ALSO IN ATTENDANCE: Assistant Finance Director Zarling, Electric Superintendent Heide, Public Works/Utilities Director York, Counselor Hasek,

ABSENT:

Chair Werre called the meeting to order at 7:30 a.m.

A motion was made by Ms. Moltzen, seconded by Mr. Struss, and carried to approve the May 16, 2023, regular meeting minutes.

Assistant Finance Director Zarling presented the financial and capital expense reports and production stats for May 2023. Discussion with no action taken.

Assistant Finance Director Zarling presented the disbursements for May 2023. Discussion was held. A motion was made by Mr. Struss, second by Mr. Johnson, and carried to approve the May 2023 disbursements.

The Line department is seeing approval to purchase 3 substation transformers as part of the previously approved CIP electric department facilities upgrade. These transformers are 130-140 weeks out which will place them in year 2025 for CIP budgeting. There is a potential savings of 5% by purchasing all three at once. A motion was made by Mr. Struss, second by Ms. Moltzen to put in the order for the future purchase of 3 substation transformers.

Public Works/Utilities Director York gave an update on the lime ponds. Final grade is done, and the seeding contractor should be there today.

Assistant Finance Director Zarling explained that the City will be applying a meter reading fee to all accounts that have not changed their electric meter over to the new AMI electric meters. The meter reading fee will be \$50 per month per meter.

Electric Superintendent Heide gave an update on the Electric Department. The linemen have just completed a big project that has been in the works since last year. Staff are still working on changing the electric meters to the new AMI electric meters.

There being no other business, it was moved by Ms. Moltzen, seconded by Mr. Werre, and approved to adjourn the meeting at 8:32 a.m.

Brjan Johnson, Secretary



Fairmont Public Utilities Commission
July 18, 2023

Agenda Item: 4

From: Julie Zarling, Assistant Finance Director
To: Public Utilities Commission

Subject: Financial Report & Production Stats: June 2023

Policy/Action Requested:

Vote Required: Simple Majority Roll Call

Recommendation: Informational

Overview:

Financial Reports, Stats, and the Capital Expenditure Summary for June 2023 are included for review.

Budget Impact: N/A

Attachments: June Financial Report, Capital Expenditures Summary, & Production Statistics

PUC Action: _____ Date: _____

FAIRMONT PUBLIC UTILITIES COMMISSION

INCOME STATEMENT SUMMARY: 2023 & 2022

WATER DEPARTMENT	2023				2022			
	JUN	YTD	BUDGET	% BUDGET	JUN	YTD	BUDGET	% BUDGET
WATER DEPT REVENUE	\$476,415.22	\$2,871,276.81	\$5,609,556.00	51.19%	\$462,190.33	\$2,576,979.89	\$4,839,135.00	53.25%
WATER FILTRATION PLANT EXPENSE	\$145,164.26	\$878,230.44	\$1,986,653.00	44.21%	\$87,008.40	\$668,847.67	\$1,795,028.00	37.26%
WATER DISTRIB EXPENSE	\$49,882.61	\$326,482.17	\$802,707.00	40.67%	\$39,960.62	\$276,662.97	\$652,763.00	42.38%
WATER ADMIN EXPENSE	\$15,282.26	\$94,231.97	\$211,875.00	44.48%	\$16,822.53	\$95,759.99	\$190,739.00	50.20%
WATER MISC EXPENSE	\$89,437.49	\$769,829.22	\$1,477,042.00	52.12%	\$84,859.13	\$740,117.84	\$1,444,263.00	51.25%
TRANSFER OUT TO OTHER FUNDS	\$13,134.93	\$78,809.58	\$171,330.00	46.00%	\$13,134.93	\$78,809.58	\$157,619.00	50.00%
TOTAL WATER DEPT EXPENSE	\$312,901.55	\$2,147,583.38	\$4,649,607.00	46.19%	\$241,785.61	\$1,860,198.05	\$4,240,412.00	43.87%
WATER DEPT NET INCOME (LOSS)	\$163,513.67	\$723,693.43	\$959,949.00	75.39%	\$220,404.72	\$716,781.84	\$598,723.00	119.72%

WASTEWATER DEPARTMENT	2023				2022			
	JUN	YTD	BUDGET	% BUDGET	JUN	YTD	BUDGET	% BUDGET
WASTEWATER DEPT REVENUE	\$255,197.87	\$1,821,813.50	\$3,434,521.00	53.04%	\$257,987.41	\$1,510,943.65	\$2,913,732.00	51.86%
WASTEWATER TREATMENT PLANT EXPENSE	\$81,109.17	\$535,777.45	\$1,194,880.00	44.84%	\$145,467.67	\$606,577.37	\$961,007.00	63.12%
WASTEWATER COLLECTION EXPENSE	\$32,200.07	\$173,381.71	\$476,573.00	36.38%	\$26,832.46	\$215,302.97	\$405,968.00	53.03%
WASTEWATER ADMIN EXPENSE	\$11,260.99	\$61,349.03	\$136,187.00	45.05%	\$10,830.65	\$71,707.87	\$137,405.00	52.19%
WASTEWATER MISC EXPENSE	\$61,320.20	\$382,388.28	\$690,482.00	55.38%	\$55,118.74	\$351,199.00	\$693,993.00	50.61%
TRANSFER OUT TO OTHER FUNDS	\$8,420.29	\$50,521.74	\$104,292.00	48.44%	\$8,420.29	\$50,521.72	\$101,044.00	50.00%
TOTAL WASTEWATER DEPT EXPENSE	\$194,310.72	\$1,203,418.21	\$2,602,414.00	46.24%	\$246,669.81	\$1,295,308.93	\$2,299,417.00	56.33%
WASTEWATER DEPT NET INCOME (LOSS)	\$60,887.15	\$618,395.29	\$832,107.00	74.32%	\$11,317.60	\$215,634.72	\$614,315.00	35.10%

ELECTRIC DEPARTMENT	2023				2022			
	JUN	YTD	BUDGET	% BUDGET	JUN	YTD	BUDGET	% BUDGET
ELECTRIC DEPT REVENUE	\$1,401,395.53	\$7,763,815.28	\$17,082,910.00	45.45%	\$1,252,004.88	\$7,807,413.21	\$17,231,820.00	45.31%
PURCHASE POWER EXPENSE	\$1,134,632.19	\$6,156,387.98	\$12,869,582.00	47.84%	\$1,068,849.98	\$5,625,666.47	\$11,735,206.00	47.94%
ELECTRIC DISTRIB EXPENSE	\$122,639.72	\$742,002.08	\$1,752,138.00	42.35%	\$129,832.97	\$793,245.12	\$1,627,711.00	48.73%
ELECTRIC ADMIN EXPENSE	\$59,524.30	\$333,166.01	\$719,070.00	46.33%	\$50,435.61	\$287,262.15	\$705,018.00	40.75%
ELECTRIC DEPT MISC EXPENSE	\$42,567.07	\$279,913.33	\$687,039.00	40.74%	\$60,329.22	\$325,572.19	\$706,631.00	46.07%
TRANSFER OUT TO OTHER FUNDS	\$56,778.12	\$340,668.71	\$664,378.00	51.28%	\$56,778.12	\$340,668.71	\$681,337.00	50.00%
TOTAL ELECTRIC DEPT EXPENSE	\$1,416,141.40	\$7,852,138.11	\$16,692,207.00	47.04%	\$1,366,225.90	\$7,372,414.64	\$15,455,903.00	47.70%
ELECTRIC DEPT NET INCOME (LOSS)	(\$14,745.87)	(\$88,322.83)	\$390,703.00	-22.61%	(\$114,221.02)	\$434,998.57	\$1,775,917.00	24.49%

FAIRMONT PUBLIC UTILITIES - 2023 CAPITAL EXPENDITURES SUMMARY

Acct #	Electric Department	Bud Amt	YTD Exp	Budget Bal
604-00000-16300	New transformers	\$125,000	\$71,581.00	\$53,419.00
604-00000-16300	Underground conductors	\$100,000	\$19,823.72	\$80,176.28
604-00000-16300	Replace high voltage switches	\$120,000		\$120,000.00
604-00000-16300	Downtown lighting/bollard/sign replacement	\$100,000		\$100,000.00
604-00000-16400	Skid loader EZ spotter attachment & trailer	\$40,000	\$10,424.60	\$29,575.40
604-00000-16500	10th Street sub design	\$60,000	\$26,371.65	\$33,628.35
604-00000-16500	10th Street Sub relay replacement	\$275,000		\$275,000.00
604-00000-16500	10th Street Sub distr. breaker replacement (SMMPA)	\$640,000		\$640,000.00
604-00000-16500	Replace Power Plant transformer (w/SMMPA)	\$352,500	\$6,866.26	\$345,633.74
604-00000-16500	New west substation	\$632,850	\$1,477.00	\$631,373.00
604-00000-16400	Radio replacement	\$12,500		\$12,500.00
604-00000-16400	Replace wood chipper	\$55,000		\$55,000.00
604-49590-31020	Rate study update	\$30,000		\$30,000.00
604-00000-16500	Street improvement projects	\$40,000		\$40,000.00
	Contingency	\$20,000		\$20,000.00
	TOTAL CAPITAL EXPENDITURES	\$2,602,850	\$136,544.23	\$2,466,305.77

Acct #	Water Department	Bud Amt	YTD Exp	Budget Bal
601-00000-16500	Ground storage tank study/replacement (Industrial Tank)	\$40,000	\$1,914.00	\$38,086.00
601-00000-16400	Broom for skid Loader	\$6,000		\$6,000.00
601-00000-16400	Purchase Enclosed Job Trailer	\$10,000	\$9,657.49	\$342.51
601-00000-16400	Tilt bed trailer	\$9,500	\$10,221.60	(\$721.60)
601-00000-16440	Replace truck 3/4 ton	\$55,000		\$55,000.00
601-00000-16440	Purchase used Dump truck - Double Axel	\$75,000		\$75,000.00
601-00000-16200	Lime press equipment replacement	\$18,000		\$18,000.00
601-00000-16300	Lead service line replacments	\$25,000		\$25,000.00
	Miscellaneous capital items (<\$5,000 ea.)	\$5,000		\$5,000.00
601-00000-16400	Radio Replacement	\$12,500		\$12,500.00
	Contingency	\$20,000		\$20,000.00
601-00000-16500	2023 Improvement Project	\$225,000		\$225,000.00
	TOTAL CAPITAL EXPENDITURES	\$501,000	\$21,793.09	\$479,206.91

Acct #	Wastewater Department	Bud Amt	YTD Exp	Budget Bal
602-00000-16500	Lift Station rehab/repair/monitoring	\$150,000	\$80,845.80	\$69,154.20
602-00000-16500	Lift Station Panel Updates	\$100,000	\$59,575.00	\$40,425.00
602-00000-16500	Contract jetting of large diameter mains	\$15,000		\$15,000.00
602-00000-16400	Radio Replacement	\$7,500		\$7,500.00
602-00000-16500	Diffuser Replacement / Aeration Basin Cleaning	\$175,000		\$175,000.00
602-00000-16500	Digester Improvements	\$500,000	\$23,059.64	\$476,940.36
602-00000-16500	UV/Solids handling upgrade project	\$4,000,000	\$8,170.00	\$3,991,830.00
602-00000-16200	Grit Pump Replacement x 2	\$30,000		\$30,000.00
602-00000-16400	Vactor replacment	\$550,000	\$509,652.55	\$40,347.45
602-00000-16200	RAS/Scum Pump Replacements	\$40,000		\$40,000.00
	Contingency	\$20,000	\$6,030.94	\$13,969.06
	Misc Capital items	\$5,000		\$5,000.00
602-00000-16500	2023 Improvement Project	\$200,000		\$200,000.00
	TOTAL CAPITAL EXPENDITURES	\$5,792,500	\$687,333.93	\$5,105,166.07

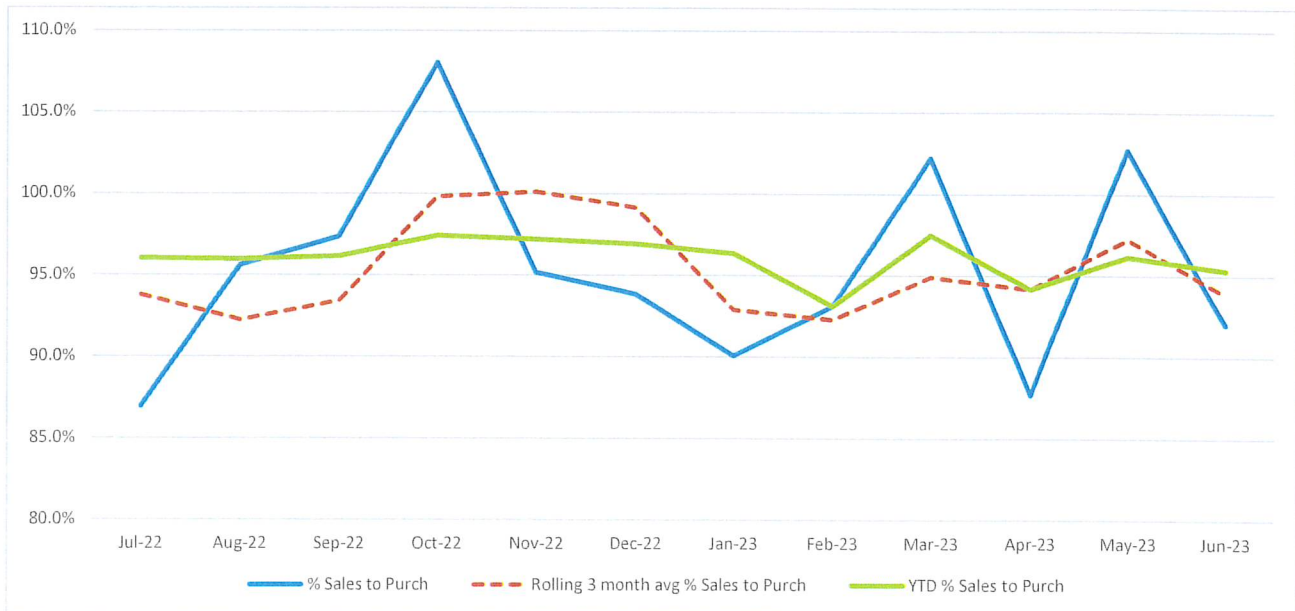
┌ PUBLIC UTILITIES - 2023 CAPITAL EXPENDITURES :

Acct #	Electric Department	2021			2022			2023			Total Project		
		Bud Amt	YTD Exp	Budget Bal	Bud Amt	YTD Exp	Budget Bal	Bud Amt	YTD Exp	Budget Bal	Budgeted	Expense	Budget Bal
604-00000-16500	AMI	1,100,000.00	1,375,009.00	(275,009.00)	300,000.00	682,312.59	(382,312.59)	0.00	21,099.66	(21,099.66)	1,400,000.00	2,078,421.25	(678,421.25)
604-00000-16440	Replace vehicles				35,000.00	0.00	35,000.00	0.00	39,291.44	(39,291.44)	35,000.00	39,291.44	(4,291.44)
604-00000-16300	New transformers				85,000.00	68,870.71	16,129.29		30,330.00	(30,330.00)	85,000.00	99,200.71	(14,200.71)
Acct #	Water Department	Bud Amt	YTD Exp	Budget Bal	Bud Amt	YTD Exp	Budget Bal	Bud Amt	YTD Exp	Budget Bal	Budgeted	Expense	Budget Bal
601-00000-16500	AMI	1,000,000.00	4,117.00	995,883.00	600,000.00	699,632.91	(99,632.91)	0.00	354,189.04	(354,189.04)	1,600,000.00	1,057,938.95	542,061.05
Acct #	Wastewater Department	Bud Amt	YTD Exp	Budget Bal	Bud Amt	YTD Exp	Budget Bal	Bud Amt	YTD Exp	Budget Bal	Budgeted	Expense	Budget Bal
602-00000-16200	Bar Screen replacement				750,000.00	46,225.00	703,775.00	0.00	48,580.00	(48,580.00)	750,000.00	94,805.00	655,195.00
602-00000-16440	Replace Truck				55,000.00	51,031.35	3,968.65	0.00	1,577.99	(1,577.99)	55,000.00	52,609.34	2,390.66

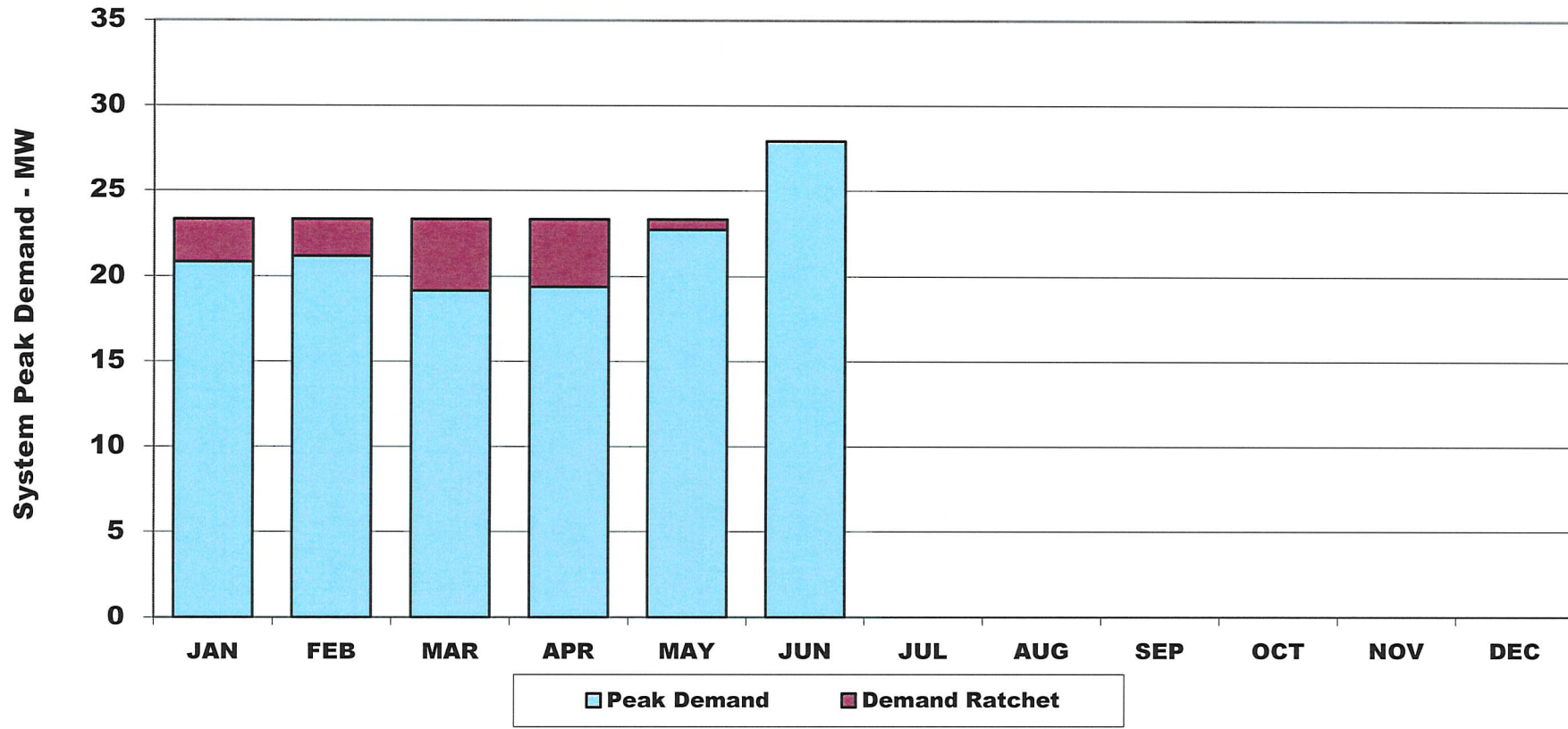
FAIRMONT PUBLIC UTILITIES

ELECTRIC DEPT STATISTICAL COMPARISON - JUNE

ACCOUNT #	DESCRIPTION	JUN KWH		JUN REVENUE	
		2023	2022	2023	2022
604-37400-37411	Residential Light Sales	2,596,870	2,327,682	\$292,640.80	\$264,536.49
604-37400-37412	Residential Heat Sales	745,413	734,213	\$77,863.01	\$76,800.12
604-37400-37413	Commercial Service Sales	1,826,798	1,661,332	\$196,635.59	\$178,650.62
604-37400-37414	Seasonal Commercial Heat Sales	34,384	30,748	\$3,556.52	\$3,217.07
604-37400-37415	General Service Sales	1,312,633	1,301,520	\$120,917.66	\$104,468.00
604-37400-37416	Industrial Sales	4,551,250	4,640,740	\$419,177.22	\$418,505.20
604-37400-37417	All Electric Sales	740,996	648,396	\$63,422.13	\$45,955.13
604-37400-37418	Rural Electric Sales	274,265	299,517	\$30,660.17	\$33,453.05
604-37400-37420	Filter Plant Power	111,504	115,200	\$7,415.02	\$7,660.80
604-37400-37421	WW Treatment Plant Power	119,130	125,926	\$7,922.15	\$8,374.08
604-37400-37423	Municipal Street Lighting	30,425	28,903	\$2,281.89	\$2,167.74
604-37400-37426	Security & Street Lighting	2,788	2,615	\$879.98	\$879.98
604-37400-37419	Energy Cost Adjustment			\$167,494.05	\$78,948.07
TOTAL SALES		12,346,456	11,916,792	\$1,390,866.19	\$1,223,616.35
ELECTRIC PURCHASES		2023	2022		
TIE LINE - SMMPA 69 KV (BILLED)		13,258,901	13,475,238		
TIE LINE - WAPA 69 KV (BILLED)		232,000	232,000		
TOTAL PURCHASES (69 KV)		13,490,901	13,707,238		
SALES TO PURCHASES DIFFERENTIAL		1,144,445	1,790,446	91.52%	86.94%



City of Fairmont Demand Ratchet Costs - 2023



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PEAK DEMAND	20,824	21,152	19,143	19,388	22,749	27,917						
RATCHET DEMAND	23,347	23,347	23,347	23,347	23,347							
DIFFERENCE	2,523	2,195	4,204	3,959	598					0	0	0
RATCHET COST	\$27,627	\$24,035	\$46,034	\$43,351	\$6,548					\$0	\$0	\$0

TOTAL RATCHET COSTS

\$147,595

2022 ESTIMATED RATCHET COST = \$

JAN - MAY: RATCHET BASED ON SYSTEM PEAK OF 31,550 SET ON JUNE 20, 2022

JUN - SEP: ANNUAL PEAK MEASUREMENT PERIOD.

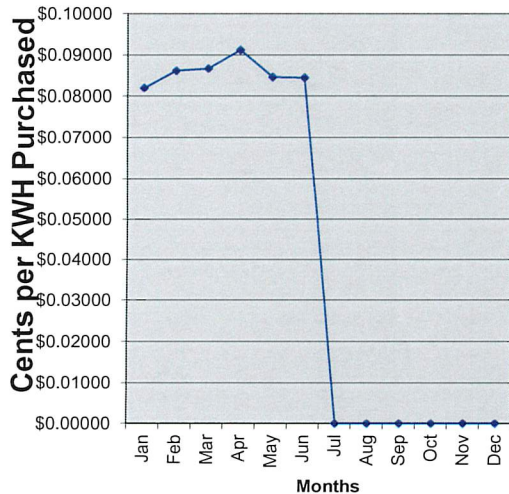
OCT-DEC: RATCHET BASED ON SYSTEM PEAK SET SUMMER OF 2023. (TBD)

Ratchet is 74% of peak demand.

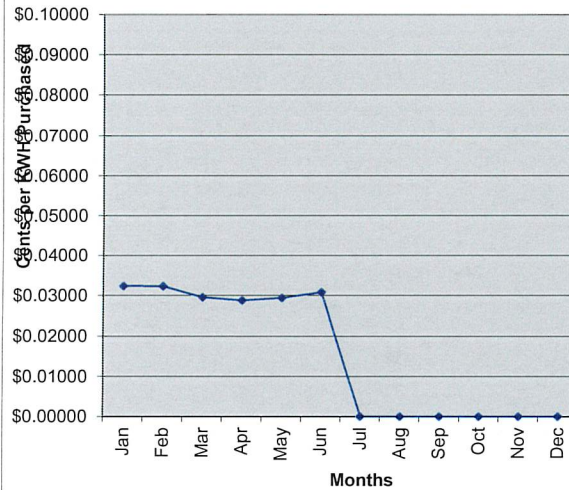
FAIRMONT PUBLIC UTILITIES - COMPARISON OF PURCHASE POWER TO SALES FOR YEAR 2023

	SMMPA									WAPA				TOTAL KWH PURCHASED	TOTAL PURCHASED POWER COST	2023 AVE COST KWH	TOTAL KWH SOLD TO CUSTOMERS	TOTAL REVENUE	2023 AVE REV KWH SOLD
	ACTUAL DEMAND	BILLED DEMAND	KWH	DEMAND \$\$	ENERGY \$\$	ECA \$\$	WAPA WHEELING	TOTAL BILL	AVERAGE COST/KWH	BILLED DEMAND	KWH	TOTAL BILL	AVERAGE COST/KWH						
JAN	20,824	23,347	12,437,047	\$342,096.65	\$686,994.76	(\$9,190.98)	\$0.00	\$1,019,900.43	\$0.08201	784	286,000	\$9,228.02	\$0.03227	12,723,047	\$1,029,128.45	\$0.08089	11,579,465	\$1,271,841.93	\$0.10984
FEB	21,152	23,347	11,199,640	\$342,096.65	\$622,709.19	(\$370.53)	\$0.00	\$964,435.31	\$0.08611	785	287,000	\$9,249.49	\$0.03223	11,486,640	\$973,684.80	\$0.08477	11,739,548	\$1,161,857.44	\$0.09897
MAR	19,143	23,347	11,910,192	\$342,096.65	\$664,642.89	\$25,311.19	\$0.00	\$1,032,050.73	\$0.08665	782	342,000	\$10,070.74	\$0.02945	12,252,192	\$1,042,121.47	\$0.08506	10,673,790	\$1,196,471.83	\$0.11209
APR	19,388	23,347	10,578,492	\$342,096.65	\$584,718.06	\$37,970.30	\$0.00	\$964,785.01	\$0.09120	774	358,000	\$10,265.46	\$0.02867	10,936,492	\$975,050.47	\$0.08916	11,231,200	\$1,254,912.36	\$0.11173
MAY	22,749	23,347	11,401,223	\$342,096.65	\$637,826.44	(\$15,084.93)	\$0.00	\$964,838.16	\$0.08463	569	252,000	\$7,375.84	\$0.02927	11,653,223	\$972,214.00	\$0.08343	10,721,443	\$1,198,413.08	\$0.11178
JUN	27,917	27,917	13,258,901	\$392,138.15	\$748,737.90	(\$21,194.87)	\$0.00	\$1,119,681.18	\$0.08445	578	232,000	\$7,126.24	\$0.03072	13,490,901	\$1,126,807.42	\$0.08352	12,346,456	\$1,390,866.19	\$0.11265
JUL							\$0.00	\$0.00	#DIV/0!				#DIV/0!	0	\$0.00	#DIV/0!			#DIV/0!
AUG							\$0.00	\$0.00	#DIV/0!				#DIV/0!	0	\$0.00	#DIV/0!			#DIV/0!
SEP							\$0.00	\$0.00	#DIV/0!				#DIV/0!	0	\$0.00	#DIV/0!			#DIV/0!
OCT							\$0.00	\$0.00	#DIV/0!				#DIV/0!	0	\$0.00	#DIV/0!			#DIV/0!
NOV							\$0.00	\$0.00	#DIV/0!				#DIV/0!	0	\$0.00	#DIV/0!			#DIV/0!
DEC							\$0.00	\$0.00	#DIV/0!				#DIV/0!	0	\$0.00	#DIV/0!			#DIV/0!
TOT	10		70,785,495	\$2,102,621.40	\$3,945,629.24	\$17,440.18	\$0.00	\$6,065,690.82	\$0.08569	4,272	1,757,000	\$53,315.79	\$0.03034	72,542,495	\$6,119,006.61	\$0.08435	68,291,902	\$7,474,362.83	\$0.1095
																		AVE KWH COST	\$0.0844
																		KWH SOLD	\$0.0896
																		KWH MARGIN	\$0.0198

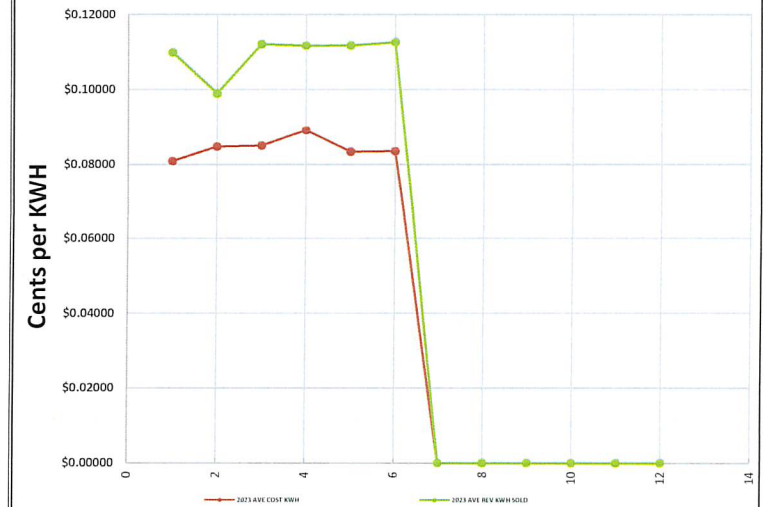
Ave Cost / KWH SMMPA



Ave Cost / KWH WAPA



Cost Comparison Purchased to Sold



PUBLIC UTILITIES COMMISSION WATER DEPARTMENT STATISTICS FOR 2023

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FINISHED WATER	39,233,440	37,325,340	42,806,080	41,269,040	44,782,720	44,772,330						
RAW WATER	40,567,070	38,706,120	44,908,580	42,880,790	46,073,990	46,197,160						
LESS HOUSE WATER	2,018,144	1,700,032	2,062,800	1,961,968	691,952	1,390,630						
LESS DOMESTIC WATER	19,800	21,000	39,700	24,900	32,200	34,200						
NET FINISHED WATER	38,529,126	36,985,088	42,806,080	40,893,922	45,349,838	44,772,330	0	0	0	0	0	0
RESIDENTIAL SALES	14,671,065	12,055,704	11,825,895	13,977,976	13,508,926	15,651,870						
COMMERCIAL SALES	5,599,143	7,383,305	6,391,730	9,206,919	6,782,059	9,378,764						
INDUSTRIAL SALES	13,607,030	10,300,649	13,330,251	14,168,067	15,694,089	11,677,061						
TOTAL WATER SALES	33,877,238	29,739,658	31,547,876	37,352,962	35,985,074	36,707,695	0	0	0	0	0	0
ACCOUNTED LOSS	1,750,000	2,500,000	1,989,300	4,227,400	742,200	519,400						
UNACCOUNTED LOSS	2,901,888	4,745,430	9,268,904	(686,440)	8,622,564	7,545,235	0	0	0	0	0	0
% OF NET FINISHED WATER	7.53%	12.71%	21.65%	-1.66%	19.25%	16.85%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
PEAK DAY VOL	1,696,100	1,460,100	1,571,700	1,636,380	1,954,100	1,831,700						
PEAK DATE	01/19/23	02/26/23	03/14/23	04/15/23	05/27/23	06/14/23						
AVERAGE DAY VOL	1,265,600	1,333,000	1,402,000	1,375,630	1,444,600	1,493,600						
RESIDENTIAL SALES \$\$	\$269,668.33	\$248,613.97	\$246,004.92	\$264,521.14	\$259,540.62	\$279,260.08						
COMMERCIAL SALES \$\$	\$76,216.03	\$90,600.47	\$82,774.61	\$105,610.69	\$86,068.58	\$82,994.26						
INDUSTRIAL SALES \$\$	\$88,217.00	\$64,791.00	\$86,256.00	\$92,192.00	\$103,004.00	\$74,543.00						
TOTAL SALES \$\$\$	\$434,101.36	\$404,005.44	\$415,035.53	\$462,323.83	\$448,613.20	\$436,797.34	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

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WATER DEPARTMENT TOTALS YEAR TO DATE

	<u>2023</u>	<u>2022</u>	
FINISHED WATER	250,188,950	239,787,160	GAL
RAW WATER	259,333,710	245,053,647	GAL
- HOUSE WATER	9,825,526	11,583,952	GAL
- DOMESTIC WATER	171,800	94,700	GAL
NET FINISHED WATER	249,336,384	233,374,995	GAL
RESIDENTIAL SALES	81,691,436	79,161,523	GAL
COMMERCIAL SALES	44,741,920	52,007,735	GAL
INDUSTRIAL SALES	78,777,147	74,610,509	GAL
TOTAL WATER SALES	205,210,503	205,779,767	GAL
ACCOUNTED LOSSES	11,728,300	5,866,450	GAL
UNACCOUNTED LOSSES	32,397,581	21,728,778	GAL
% OF NET FINISHED WATER	12.99%	9.31%	
YTD RESIDENTIAL SALES \$\$	\$1,567,609.06	\$1,363,570.07	
YTD COMMERCIAL SALES \$\$	\$524,264.64	\$545,421.15	
YTD INDUSTRIAL SALES \$\$	\$509,003.00	\$434,732.40	
YTD WATER SALES TOTAL \$\$	\$2,600,876.70	\$2,343,723.62	
REVENUE PER GALLON SOLD	\$0.012674	\$0.011389	
2022/2021	1.11280	1.02744	

PUBLIC UTILITIES COMMISSION WASTEWATER DEPARTMENT STATISTICS FOR THE YEAR 2023

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL FLOW	35,810,000	36,230,000	54,780,000	62,430,000	67,540,000	48,390,000						
DAILY FLOW	1,160,000	1,290,000	1,770,000	2,080,000	2,180,000	1,610,000						
MAXIMUM FLOW	1,660,000	1,890,000	2,410,000	2,580,000	4,580,000	1,840,000						
MINIMUM FLOW	1,020,000	1,090,000	1,400,000	1,760,000	1,610,000	1,340,000						
I & I % OF TOTAL FLOW	22.45%	25.06%	52.99%	52.68%	59.40%	36.35%						
<u>INFLUENT AVERAGE:</u>												
LBS / DAY BOD	2,738	3,179	4,116	3,407	3,406	3,812						
LBS / DAY TSS	3,565	5,792	7,730	5,575	7,267	7,078						
<u>EFFLUENT BOD:</u>												
AVERAGE BOD	2.3	2.5	2.3	2.2	2.4	2.0						
MAXIMUM BOD	5.5	3.5	5.2	5.0	4.2	3.7						
MINIMUM BOD	1.2	1.8	1.2	1.4	1.2	1.5						
<u>EFFLUENT TSS:</u>												
AVERAGE TSS	14	10	10	6	50	4						
MAXIMUM TSS	33	49	49	24	753	12						
MINIMUM TSS	8	5	2	3	2	2						
# OF DAYS OVER PERMIT LIMITS	0	0	0	0	2	0	0	0	0	0	0	0
ELECTRIC USE - KWH	102,254	99,222	88,984	111,430	114,700	119,130						
ELECTRIC USE - COST	\$8,199.24	\$6,598.26	\$5,917.44	\$7,410.10	\$7,627.55	\$7,922.15						
<u>REVENUE:</u>												
RESIDENTIAL	\$112,585.73	\$105,525.23	\$104,586.79	\$111,066.98	\$109,529.41							
COMMERCIAL	\$28,660.12	\$33,244.37	\$32,136.89	\$50,904.43	\$32,463.04							
INDUSTRIAL	\$36,053.20	\$44,143.03	\$57,942.48	\$42,008.62	\$33,686.85							
TOTAL REVENUE	\$177,299.05	\$182,912.63	\$194,666.16	\$203,980.03	\$175,679.30	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

WASTEWATER DEPARTMENT TOTALS YEAR TO DATE

	YEAR	
	2023	2022
	TOTAL FLOW TO PLANT, GALLONS	305,180,000
I & I % OF TOTAL FLOW	25.06%	13.35%
DAYS EXCEEDING PERMIT LIMITS	2	0
TOTAL ELECTRIC - KWH	635,720	517,784
TOTAL ELECTRIC - COST	\$43,674.74	\$ 37,888.84
TOTAL RESIDENTIAL REVENUE	\$543,294.14	\$512,847.06
TOTAL COMMERCIAL REVENUE	\$177,408.85	\$163,044.63
TOTAL INDUSTRIAL REVENUE	\$213,834.18	\$189,430.43
TOTAL REVENUE	\$934,537.17	\$865,322.12

BOD = Biodegradable Oxygen Demand
TSS= Total Suspended Solids



Fairmont Public Utilities Commission
July 18, 2023

Agenda Item: 5

From: Julie Zarling, Assistant Finance Director

To: Public Utilities Commission

Subject: Record of Disbursements- June 2023

Policy/Action Requested:

Vote Required: X Simple Majority _____ Roll Call

Recommendation: Approval

Overview:

Approval is requested for the Commissioners' Record of Disbursements for June 2023

Budget Impact:

Attachments: PUC Check Listing for June 2023

PUC Action: _____ Date: _____

AP
PUC CHECKS



User: juliezar
Printed: 7/12/2023 8:04:50 AM

Last Name	Acct 1	Amount	Check Date	Check Num	Description
A1 Concrete Grinding & Mudjacking Shriver, Loren	601-49430-40200	3,981.20	6/16/2023	160778	129 Anna St remove and pour curb
		3,981.20			
A1 Concrete Grinding & Mudjacking Shriver, Loren		3,981.20			
Advanced Engineering & Environmental Services, LLC	601-49400-31200	420.00	6/16/2023	160779	I&C System Services 4/29-6/2/23
		420.00			
Advanced Engineering & Environmental Services, LLC		420.00			
Air Products and Chemicals, Inc.	601-00000-14206	3,282.09	6/16/2023	160780	41,810 LBS carbon dioxide
		3,282.09			
Air Products and Chemicals, Inc.		3,282.09			
Aitaro Hery	604-00000-20200	6.50	6/2/2023	160579	Refund Check 018617-000, 215 E 5th St #2
Aitaro Hery	604-00000-20200	73.99	6/2/2023	160579	Refund Check 018617-000, 215 E 5th St #2
Aitaro Hery	602-00000-20200	14.32	6/2/2023	160579	Refund Check 018617-000, 215 E 5th St #2
Aitaro Hery	602-00000-20200	7.63	6/2/2023	160579	Refund Check 018617-000, 215 E 5th St #2
Aitaro Hery	601-00000-20200	8.85	6/2/2023	160579	Refund Check 018617-000, 215 E 5th St #2
Aitaro Hery	604-00000-20200	5.93	6/2/2023	160579	Refund Check 018617-000, 215 E 5th St #2
		117.22			
Aitaro Hery		117.22			
Alfa Laval Inc.	602-00000-16500	3,879.59	7/10/2023	161050	upper and lower belts -CIP - digester improvements
		3,879.59			
Alfa Laval Inc.		3,879.59			
Allegiant Utility Services, Inc.	601-00000-16500	15,133.56	6/27/2023	160869	water meter installations 6/1-6/15/23 - CIP - AMI
Allegiant Utility Services, Inc.	601-00000-16500	12,116.64	7/10/2023	161051	water meter installs 6/16-6/30/23 - CIP - AMI
		27,250.20			
Allegiant Utility Services, Inc.		27,250.20			
Allen Brian	604-49595-43989	86.65	6/1/2023	160518	residential fixtures rebate

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Allen Brian		86.65			
Amazon Capital Services	601-49440-20120	3.97	6/15/2023	160721	Office Supplies City Hall
Amazon Capital Services	604-49590-20120	15.40	6/15/2023	160721	Office Supplies City Hall
Amazon Capital Services	602-49490-20120	2.45	6/15/2023	160721	Office Supplies City Hall
Amazon Capital Services	602-49450-43900	14.42	6/2/2023	160546	Air Relief Valves
Amazon Capital Services		36.24			
American Welding & Gas, Inc.	601-49400-31200	131.46	6/16/2023	160781	cylinder rental
American Welding & Gas, Inc.	601-49430-40200	128.10	7/10/2023	161052	cylinder rental
American Welding & Gas, Inc.		259.56			
Anderson Charles	604-49595-43987	25.00	6/1/2023	160519	residential clothes washer rebate
Anderson Charles		25.00			
Anderson Leslie	604-49595-43988	25.00	6/1/2023	160520	residential dishwasher rebate
Anderson Leslie		25.00			
Aqua-Pure Inc.	601-49400-21620	2,565.00	6/16/2023	160782	AF41150 polymer 2250 lbs
Aqua-Pure Inc.	601-49400-21620	49,612.80	6/27/2023	160870	bulk load of AF 41150
Aqua-Pure Inc.	601-49400-21620	3,141.00	7/10/2023	161053	55 gal drum of AF 4355
Aqua-Pure Inc.		55,318.80			
Aramark Uniform Services	601-49400-31200	352.07	7/10/2023	161054	laundry services
Aramark Uniform Services		352.07			
Atkinson Mark F.	604-49595-43994	35.80	6/2/2023	160569	lamp and ballast recycling
Atkinson Mark F.		35.80			
Aukes Denise	604-49595-43987	25.00	6/1/2023	160521	residential clothes washer rebate
Aukes Denise		25.00			
Bank Midwest	604-49595-43994	284.90	6/2/2023	160570	lamp and ballast recycling

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Bank Midwest		284.90			
Bauer Built Tire	604-49570-40500	1,600.00	6/16/2023	160783	#221 #222 KO2 125R
Bauer Built Tire		1,600.00			
Becker Neal	601-49430-43900	225.00	6/16/2023	160784	safety boot reimbursement
Becker Neal		225.00			
Beemer Companies	602-00000-16200	4,580.00	7/10/2023	161055	screen modifications - CIP - 2022 bar screen replacement
Beemer Companies		4,580.00			
Bliesmer Byron	604-49595-43994	88.40	6/2/2023	160571	lamp and ballast recycling
Bliesmer Byron		88.40			
Blomster Lance	604-49595-43988	25.00	6/1/2023	160522	residential dishwasher rebate
Blomster Lance		25.00			
Boekett Building Supply	602-49470-40200	80.33	6/16/2023	160785	plywood
Boekett Building Supply		80.33			
Bomgaars Supply	601-49430-43900	10.99	6/27/2023	160871	measure cup
Bomgaars Supply	602-49450-43900	5.68	6/27/2023	160871	pipe nipple and elbow
Bomgaars Supply	602-49450-43900	21.07	6/27/2023	160871	bulk bolts and spraypaint
Bomgaars Supply	602-49470-43900	37.99	6/27/2023	160871	weed killer
Bomgaars Supply	602-49450-43900	11.57	6/27/2023	160871	pvc, coupler, pvc threaded
Bomgaars Supply	602-49470-43900	76.99	6/27/2023	160871	hydraulic cylinder stops
Bomgaars Supply	601-49430-43900	10.98	6/27/2023	160871	9 volt batteries
Bomgaars Supply	601-49400-43900	38.97	6/27/2023	160871	cooper fittings, flash light
Bomgaars Supply	601-49430-43900	34.55	6/27/2023	160871	couplers
Bomgaars Supply	601-49430-40200	76.49	6/27/2023	160871	grass seed
Bomgaars Supply	602-49450-43900	65.97	6/27/2023	160871	roundup and safety glasses
Bomgaars Supply	601-49430-43900	26.48	6/27/2023	160871	screws and bits
Bomgaars Supply	601-49400-43900	18.07	6/27/2023	160871	paint thinner
Bomgaars Supply		435.80			

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Borchardt. Doug	604-49595-43988	25.00	6/1/2023	0	residential dishwasher rebate
		<hr/>			
Borchardt. Doug		25.00			
Carquest Auto Parts Stores	602-49470-40400	54.07	7/10/2023	161056	#447 oil filter
Carquest Auto Parts Stores	602-49450-40500	25.61	7/10/2023	161056	ranger oil filter, 5W-30 oil
Carquest Auto Parts Stores	601-49400-40500	9.24	7/10/2023	161056	#646 fittings
Carquest Auto Parts Stores	602-49470-40500	2.62	7/10/2023	161056	#448 oil filter
Carquest Auto Parts Stores	602-49450-40500	101.52	7/10/2023	161056	#441 oil change
Carquest Auto Parts Stores	604-49570-40500	27.59	7/10/2023	161056	#227 floor mats
Carquest Auto Parts Stores	602-49450-40500	26.78	7/10/2023	161056	#447 wiper blades
Carquest Auto Parts Stores	601-49400-40400	12.59	7/10/2023	161056	#670 cabin filter
Carquest Auto Parts Stores	601-00000-16500	44.84	7/10/2023	161056	emery cloth - CIP - AMI
Carquest Auto Parts Stores	602-49450-43900	18.89	7/10/2023	161056	fire hose clamps
Carquest Auto Parts Stores	602-49470-43900	63.84	7/10/2023	161056	brake cleaner
Carquest Auto Parts Stores	602-49450-40400	282.72	7/10/2023	161056	pleated paper blower filters
Carquest Auto Parts Stores	602-49450-40400	24.66	7/10/2023	161056	vactor hose clamps
Carquest Auto Parts Stores	602-49450-43900	18.39	7/10/2023	161056	ratcheting 15/16 wrench
Carquest Auto Parts Stores	601-49430-40400	30.38	7/10/2023	161056	antifreeze
		<hr/>			
Carquest Auto Parts Stores		743.74			
Cintas Corporation	602-49450-31200	47.99	6/29/2023	160898	First Aid Supplies Waste Water
Cintas Corporation	604-49570-43760	1,135.08	7/10/2023	161057	laundrying services-june
Cintas Corporation	604-49570-43900	333.24	7/10/2023	161057	cleaning supplies-june
		<hr/>			
Cintas Corporation		1,516.31			
Colonial Life	602-00000-21812	42.33	6/7/2023	160596	PR Batch 00001.06.2023 Colonial Cancer
Colonial Life	601-00000-21812	239.87	6/7/2023	160596	PR Batch 00001.06.2023 Colonial Disability
Colonial Life	601-00000-21812	64.52	6/7/2023	160596	PR Batch 00001.06.2023 Colonial Cancer
Colonial Life	604-00000-21812	185.82	6/7/2023	160596	PR Batch 00001.06.2023 Colonial Life Insurance
Colonial Life	602-00000-21812	71.03	6/7/2023	160596	PR Batch 00001.06.2023 Colonial Group Accident
Colonial Life	602-00000-21812	91.34	6/7/2023	160596	PR Batch 00001.06.2023 Colonial Life Insurance
Colonial Life	601-00000-21812	137.57	6/7/2023	160596	PR Batch 00001.06.2023 Colonial Life Insurance
Colonial Life	601-00000-21812	56.15	6/7/2023	160596	PR Batch 00001.06.2023 Colonial Group Accident
Colonial Life	604-00000-21812	46.25	6/7/2023	160596	PR Batch 00001.06.2023 Colonial Group Accident
Colonial Life	604-00000-21812	52.03	6/7/2023	160596	PR Batch 00001.06.2023 Colonial Cancer
Colonial Life	604-00000-21812	9.24	6/7/2023	160596	PR Batch 00001.06.2023 Colonial GroupSpecifiedDisease
Colonial Life	602-00000-21812	23.19	6/7/2023	160596	PR Batch 00001.06.2023 Colonial GroupSpecifiedDisease
Colonial Life	604-00000-21812	246.21	6/7/2023	160596	PR Batch 00001.06.2023 Colonial Disability
Colonial Life	602-00000-21812	179.15	6/7/2023	160596	PR Batch 00001.06.2023 Colonial Disability
Colonial Life	601-00000-21812	19.83	6/7/2023	160596	PR Batch 00001.06.2023 Colonial GroupSpecifiedDisease

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Colonial Life	602-00000-21812	179.13	6/21/2023	160807	PR Batch 00002.06.2023 Colonial Disability
Colonial Life	604-00000-21812	185.82	6/21/2023	160807	PR Batch 00002.06.2023 Colonial Life Insurance
Colonial Life	602-00000-21812	91.34	6/21/2023	160807	PR Batch 00002.06.2023 Colonial Life Insurance
Colonial Life	601-00000-21812	137.56	6/21/2023	160807	PR Batch 00002.06.2023 Colonial Life Insurance
Colonial Life	604-00000-21812	246.21	6/21/2023	160807	PR Batch 00002.06.2023 Colonial Disability
Colonial Life	604-00000-21812	9.23	6/21/2023	160807	PR Batch 00002.06.2023 Colonial GroupSpecifiedDisease
Colonial Life	604-00000-21812	46.27	6/21/2023	160807	PR Batch 00002.06.2023 Colonial Group Accident
Colonial Life	601-00000-21812	64.55	6/21/2023	160807	PR Batch 00002.06.2023 Colonial Cancer
Colonial Life	601-00000-21812	239.89	6/21/2023	160807	PR Batch 00002.06.2023 Colonial Disability
Colonial Life	602-00000-21812	71.04	6/21/2023	160807	PR Batch 00002.06.2023 Colonial Group Accident
Colonial Life	601-00000-21812	56.15	6/21/2023	160807	PR Batch 00002.06.2023 Colonial Group Accident
Colonial Life	602-00000-21812	42.38	6/21/2023	160807	PR Batch 00002.06.2023 Colonial Cancer
Colonial Life	601-00000-21812	19.84	6/21/2023	160807	PR Batch 00002.06.2023 Colonial GroupSpecifiedDisease
Colonial Life	602-00000-21812	23.19	6/21/2023	160807	PR Batch 00002.06.2023 Colonial GroupSpecifiedDisease
Colonial Life	604-00000-21812	52.02	6/21/2023	160807	PR Batch 00002.06.2023 Colonial Cancer
		<hr/>			
Colonial Life		2,929.15			
Core & Main LP	601-49430-40200	1,498.03	6/27/2023	160872	blk stl nipples
Core & Main LP	601-00000-16500	273.64	7/10/2023	161058	black steel nipples - CIP - AMI
		<hr/>			
Core & Main LP		1,771.67			
Cress Refrigeration	602-49450-40400	135.00	7/10/2023	161059	fix 68F at water plant
		<hr/>			
Cress Refrigeration		135.00			
Dakota Supply Group	601-49430-40200	227.82	6/27/2023	160873	slotted corb box w/lid
Dakota Supply Group	601-49430-40200	456.17	6/27/2023	160873	slotted corb box w/lid
		<hr/>			
Dakota Supply Group		683.99			
Day Plumbing Heating & Cooling, Inc.	601-00000-16500	295.55	6/16/2023	160786	3808 Amber Lake Dr froze water line - CIP - AMI
		<hr/>			
Day Plumbing Heating & Cooling, Inc.		295.55			
Denny Troy	601-49400-31400	46.30	6/16/2023	160787	TOC/ALK samples
Denny Troy	601-49400-31400	53.35	6/16/2023	160787	water samples
		<hr/>			
Denny Troy		99.65			
Denton Vivian	604-49595-43987	25.00	6/1/2023	160523	residential clothes washer rebate

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Denton Vivian		25.00			
DGR Engineering	604-00000-16500	1,477.00	6/27/2023	160874	professional services through may 31st - CIP - west substation
DGR Engineering	604-00000-16500	1,388.00	6/27/2023	160874	professional services through may 31st - CIP - 10th st sub desig
DGR Engineering	604-00000-16500	6,866.26	6/27/2023	160874	professional services through may 31st - CIP - replace PP transf
DGR Engineering		9,731.26			
Ditch Witch Of Minnesota, Inc.	604-49570-40400	129.16	6/16/2023	160788	compound wall
Ditch Witch Of Minnesota, Inc.		129.16			
DK Property LLC	604-49595-43901	1,167.10	6/1/2023	160524	commercial lighting and fixtures rebate-heaven's table
DK Property LLC		1,167.10			
Dulcimer Medical Center	601-49445-30500	226.50	6/27/2023	160875	pre-employment physical - water
Dulcimer Medical Center		226.50			
Eagle America, Inc.	602-49450-40400	345.00	6/27/2023	160876	aluminum walk way
Eagle America, Inc.		345.00			
EFTPS	601-00000-21801	3,426.33	6/7/2023	0	PR Batch 00001.06.2023 Federal Income Tax
EFTPS	604-00000-21803	2,660.90	6/7/2023	0	PR Batch 00001.06.2023 FICA Employer Portion
EFTPS	604-00000-21801	4,071.86	6/7/2023	0	PR Batch 00001.06.2023 Federal Income Tax
EFTPS	602-00000-21803	1,431.83	6/7/2023	0	PR Batch 00001.06.2023 FICA Employer Portion
EFTPS	602-00000-21809	333.83	6/7/2023	0	PR Batch 00001.06.2023 Medicare Employer Portion
EFTPS	601-00000-21809	527.75	6/7/2023	0	PR Batch 00001.06.2023 Medicare Employer Portion
EFTPS	604-00000-21809	621.62	6/7/2023	0	PR Batch 00001.06.2023 Medicare Employer Portion
EFTPS	601-00000-21803	2,260.13	6/7/2023	0	PR Batch 00001.06.2023 FICA Employee Portion
EFTPS	601-00000-21809	527.75	6/7/2023	0	PR Batch 00001.06.2023 Medicare Employee Portion
EFTPS	602-00000-21809	333.83	6/7/2023	0	PR Batch 00001.06.2023 Medicare Employee Portion
EFTPS	604-00000-21809	621.62	6/7/2023	0	PR Batch 00001.06.2023 Medicare Employee Portion
EFTPS	604-00000-21803	2,660.90	6/7/2023	0	PR Batch 00001.06.2023 FICA Employee Portion
EFTPS	602-00000-21803	1,431.83	6/7/2023	0	PR Batch 00001.06.2023 FICA Employee Portion
EFTPS	602-00000-21801	1,778.50	6/7/2023	0	PR Batch 00001.06.2023 Federal Income Tax
EFTPS	601-00000-21803	2,260.13	6/7/2023	0	PR Batch 00001.06.2023 FICA Employer Portion
EFTPS	601-00000-21801	3,233.65	6/21/2023	0	PR Batch 00002.06.2023 Federal Income Tax
EFTPS	601-00000-21803	2,167.39	6/21/2023	0	PR Batch 00002.06.2023 FICA Employee Portion
EFTPS	604-00000-21801	4,165.46	6/21/2023	0	PR Batch 00002.06.2023 Federal Income Tax

Last Name	Acct 1	Amount	Check Date	Check Num	Description
EFTPS	602-00000-21809	336.20	6/21/2023	0	PR Batch 00002.06.2023 Medicare Employer Portion
EFTPS	602-00000-21801	1,811.62	6/21/2023	0	PR Batch 00002.06.2023 Federal Income Tax
EFTPS	602-00000-21809	336.20	6/21/2023	0	PR Batch 00002.06.2023 Medicare Employee Portion
EFTPS	604-00000-21803	2,584.38	6/21/2023	0	PR Batch 00002.06.2023 FICA Employee Portion
EFTPS	602-00000-21803	1,441.99	6/21/2023	0	PR Batch 00002.06.2023 FICA Employee Portion
EFTPS	604-00000-21803	2,584.38	6/21/2023	0	PR Batch 00002.06.2023 FICA Employer Portion
EFTPS	602-00000-21803	1,441.99	6/21/2023	0	PR Batch 00002.06.2023 FICA Employer Portion
EFTPS	601-00000-21803	2,167.39	6/21/2023	0	PR Batch 00002.06.2023 FICA Employer Portion
EFTPS	601-00000-21809	506.08	6/21/2023	0	PR Batch 00002.06.2023 Medicare Employer Portion
EFTPS	604-00000-21809	603.72	6/21/2023	0	PR Batch 00002.06.2023 Medicare Employer Portion
EFTPS	604-00000-21809	603.72	6/21/2023	0	PR Batch 00002.06.2023 Medicare Employee Portion
EFTPS	601-00000-21809	506.08	6/21/2023	0	PR Batch 00002.06.2023 Medicare Employee Portion
EFTPS		49,439.06			
Elan Financial Services	604-49570-40300	346.18	6/9/2023	160711	Lineman's Work Shirts, Lineman's Skinning Knife
Elan Financial Services	604-49595-33100	1,206.03	6/9/2023	160711	JTS Committee Mtg Heide, Training Marshall, MN Williams, Fraser,
Elan Financial Services	604-49570-40100	2,270.03	6/9/2023	160711	Cubby Lockers Electric Dept
Elan Financial Services	604-49570-43760	501.99	6/9/2023	160711	Uniforms Electric Dept
Elan Financial Services		4,324.23			
Fairmont Ford	604-49595-43994	43.80	6/2/2023	160572	lamp and ballast recycling
Fairmont Ford	602-49470-40500	119.00	6/27/2023	160877	#447 front end alignment
Fairmont Ford		162.80			
Fairmont True Value	602-49470-40200	193.94	6/27/2023	160878	paint, brushes, rollers
Fairmont True Value	602-49470-40200	98.04	7/10/2023	161060	paint, brush, rollers
Fairmont True Value		291.98			
Fastenal Company	601-49430-43900	12.25	7/10/2023	161061	safety glasses
Fastenal Company		12.25			
Federated Rural Electric Association	601-49430-38100	25.00	7/10/2023	161062	electric charges-WTP
Federated Rural Electric Association	602-49470-38100	50.00	7/10/2023	161062	electric charges-WWTP
Federated Rural Electric Association		75.00			
Ferguson Enterprises # 3326	601-49430-43900	195.25	6/16/2023	160789	rain jacket and bibs
Ferguson Enterprises # 3326	601-49430-40200	267.25	6/16/2023	160789	rain jacket and bibs, hard hat

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Ferguson Enterprises # 3326	601-49430-40200	714.00	7/10/2023	161063	looper cone
Ferguson Enterprises # 3326		1,176.50			
Fleet & Farm Supply	601-49430-43900	35.99	7/10/2023	161064	round up
Fleet & Farm Supply	601-49430-40200	229.99	7/10/2023	161064	sump pump
Fleet & Farm Supply	601-49430-40200	9.28	7/10/2023	161064	drain grates
Fleet & Farm Supply	601-49430-40200	19.56	7/10/2023	161064	roll pin, hitch pin
Fleet & Farm Supply	601-49430-43900	49.99	7/10/2023	161064	work light
Fleet & Farm Supply	602-49450-43900	47.10	7/10/2023	161064	plastic trash bag, paint
Fleet & Farm Supply	604-49570-40500	81.97	7/10/2023	161064	#224 tools for basket truck
Fleet & Farm Supply	602-49450-43900	13.18	7/10/2023	161064	wasp spray
Fleet & Farm Supply	601-49430-43900	109.98	7/10/2023	161064	paint for hydrants
Fleet & Farm Supply	601-49430-43900	20.97	7/10/2023	161064	PVC couplers
Fleet & Farm Supply	601-49430-43900	9.58	7/10/2023	161064	4" grate
Fleet & Farm Supply	602-49450-43900	14.47	7/10/2023	161064	brass nipples, shop towels
Fleet & Farm Supply	604-49570-22300	185.98	7/10/2023	161064	combo kit
Fleet & Farm Supply	602-49450-43900	69.14	7/10/2023	161064	buckets, paint pails
Fleet & Farm Supply	602-49450-43900	18.97	7/10/2023	161064	syringes, shop towels
Fleet & Farm Supply	604-49570-43900	24.99	7/10/2023	161064	garden sprayer
Fleet & Farm Supply	601-49430-40200	26.99	7/10/2023	161064	grass seed
Fleet & Farm Supply	602-49450-43900	19.99	7/10/2023	161064	mineral spirits
Fleet & Farm Supply	601-49400-43900	9.99	7/10/2023	161064	clock
Fleet & Farm Supply	602-49470-43900	24.36	7/10/2023	161064	brass nipples, shop towels
Fleet & Farm Supply	602-49450-43900	42.48	7/10/2023	161064	screws, brush
Fleet & Farm Supply	602-49450-43900	20.58	7/10/2023	161064	sump pump hose
Fleet & Farm Supply	601-49430-43900	11.18	7/10/2023	161064	wasp spray
Fleet & Farm Supply	602-49450-43900	26.31	7/10/2023	161064	buckets, paint
Fleet & Farm Supply		1,123.02			
Forstrom Samantha	601-00000-20200	14.56	6/2/2023	160580	Refund Check 017467-000, 1331 Johnson St #C
Forstrom Samantha	604-00000-20200	78.46	6/2/2023	160580	Refund Check 017467-000, 1331 Johnson St #C
Forstrom Samantha	602-00000-20200	23.47	6/2/2023	160580	Refund Check 017467-000, 1331 Johnson St #C
Forstrom Samantha	602-00000-20200	12.51	6/2/2023	160580	Refund Check 017467-000, 1331 Johnson St #C
Forstrom Samantha	604-00000-20200	6.17	6/2/2023	160580	Refund Check 017467-000, 1331 Johnson St #C
Forstrom Samantha	604-00000-20200	4.63	6/2/2023	160580	Refund Check 017467-000, 1331 Johnson St #C
Forstrom Samantha		139.80			
Freeman Ramsey	604-00000-20200	3.62	6/2/2023	160581	Refund Check 018365-001, 1319 Johnson St #E
Freeman Ramsey	602-00000-20200	22.92	6/2/2023	160581	Refund Check 018365-001, 1319 Johnson St #E
Freeman Ramsey	602-00000-20200	12.24	6/2/2023	160581	Refund Check 018365-001, 1319 Johnson St #E

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Freeman Ramsey	604-00000-20200	40.63	6/2/2023	160581	Refund Check 018365-001, 1319 Johnson St #E
Freeman Ramsey	601-00000-20200	14.20	6/2/2023	160581	Refund Check 018365-001, 1319 Johnson St #E
Freeman Ramsey	604-00000-20200	3.26	6/2/2023	160581	Refund Check 018365-001, 1319 Johnson St #E
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Freeman Ramsey		96.87			
Frontier Communications	604-49570-32100	42.06	6/16/2023	160790	2356081-june
Frontier Communications	604-49570-32100	50.71	6/16/2023	160790	2381928-june
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Frontier Communications		92.77			
Fruendt, Lundquist & Gustafson, LTD	604-00000-21720	526.93	6/7/2023	160598	PR Batch 00001.06.2023 Garnishment-Fruendt, Lundquist
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Fruendt, Lundquist & Gustafson, LTD		526.93			
Further	601-00000-21811	886.05	6/7/2023	0	PR Batch 00001.06.2023 Health Savings Account
Further	602-00000-21811	383.77	6/7/2023	0	PR Batch 00001.06.2023 Health Savings Account
Further	604-00000-21811	297.81	6/7/2023	0	PR Batch 00001.06.2023 Health Savings Account
Further	601-00000-21811	886.16	6/21/2023	0	PR Batch 00002.06.2023 Health Savings Account
Further	604-00000-21811	298.12	6/21/2023	0	PR Batch 00002.06.2023 Health Savings Account
Further	602-00000-21811	383.82	6/21/2023	0	PR Batch 00002.06.2023 Health Savings Account
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Further		3,135.73			
Geiger Roger	604-49595-43990	50.00	6/1/2023	160525	residential furnace rebate
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Geiger Roger		50.00			
Goerndt Eugene	604-49595-43995	15.00	6/1/2023	160526	residential dehumidifier rebate
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Goerndt Eugene		15.00			
Goldfinch Estates	604-49595-43994	548.00	6/2/2023	160573	lamp and ballast recycling
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Goldfinch Estates		548.00			
Gopher State One Call, Inc.	601-49430-31200	67.27	7/10/2023	161065	Locating Expense-june
Gopher State One Call, Inc.	604-49570-31200	69.31	7/10/2023	161065	Locating Expense-june
Gopher State One Call, Inc.	602-49470-31200	67.27	7/10/2023	161065	Locating Expense-june
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Gopher State One Call, Inc.		203.85			
Grainger	602-49450-40400	541.91	7/10/2023	161066	test ball plug

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Grainger	602-49450-40400	98.47	7/10/2023	161066	pleated air filter
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Grainger		640.38			
Graymont (WI) LLC	601-49400-21620	6,924.00	7/10/2023	161067	high calcium quicklime
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Graymont (WI) LLC		6,924.00			
Great River Energy	604-49570-40200	8,991.45	6/16/2023	160791	add fuse holder and test switches
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Great River Energy		8,991.45			
Harley James	604-49595-43995	15.00	6/16/2023	160792	residential dehumidifier rebate
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Harley James		15.00			
Harrison Candace	602-00000-20200	16.32	6/2/2023	160582	Refund Check 018320-000, 224 1/2 S Park #3
Harrison Candace	604-00000-20200	2.01	6/2/2023	160582	Refund Check 018320-000, 224 1/2 S Park #3
Harrison Candace	604-00000-20200	38.40	6/2/2023	160582	Refund Check 018320-000, 224 1/2 S Park #3
Harrison Candace	602-00000-20200	30.58	6/2/2023	160582	Refund Check 018320-000, 224 1/2 S Park #3
Harrison Candace	601-00000-20200	18.92	6/2/2023	160582	Refund Check 018320-000, 224 1/2 S Park #3
Harrison Candace	604-00000-20200	2.97	6/2/2023	160582	Refund Check 018320-000, 224 1/2 S Park #3
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Harrison Candace		109.20			
Hart Ami/Dan	602-00000-20200	22.81	6/2/2023	160583	Refund Check 009050-000, 2714 Albion Ave
Hart Ami/Dan	604-00000-20200	6.07	6/2/2023	160583	Refund Check 009050-000, 2714 Albion Ave
Hart Ami/Dan	601-00000-20200	22.02	6/2/2023	160583	Refund Check 009050-000, 2714 Albion Ave
Hart Ami/Dan	602-00000-20200	22.81	6/2/2023	160583	Refund Check 009050-000, 2714 Albion Ave
Hart Ami/Dan	602-00000-20200	12.11	6/2/2023	160583	Refund Check 009050-000, 2714 Albion Ave
Hart Ami/Dan	601-00000-20200	11.07	6/2/2023	160583	Refund Check 009050-000, 2714 Albion Ave
Hart Ami/Dan	604-00000-20200	0.54	6/2/2023	160583	Refund Check 009050-000, 2714 Albion Ave
Hart Ami/Dan	604-00000-20200	1.15	6/2/2023	160583	Refund Check 009050-000, 2714 Albion Ave
Hart Ami/Dan	601-00000-20200	2.29	6/2/2023	160583	Refund Check 009050-000, 2714 Albion Ave
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Hart Ami/Dan		100.87			
Hawkins, Inc.	601-00000-14206	837.38	6/27/2023	160879	hydrofluosilicic acid
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Hawkins, Inc.		837.38			
Heckman Mike	604-49570-43900	300.00	7/10/2023	161068	safety glasses reimbursement

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Heckman Mike		300.00			
Hennager Ryan	604-00000-20200	1.64	6/2/2023	160584	Refund Check 018046-000, 1511 Falcon Dr #109
Hennager Ryan	604-00000-20200	23.66	6/2/2023	160584	Refund Check 018046-000, 1511 Falcon Dr #109
Hennager Ryan	602-00000-20200	0.66	6/2/2023	160584	Refund Check 018046-000, 1511 Falcon Dr #109
Hennager Ryan	602-00000-20200	0.35	6/2/2023	160584	Refund Check 018046-000, 1511 Falcon Dr #109
Hennager Ryan	601-00000-20200	0.42	6/2/2023	160584	Refund Check 018046-000, 1511 Falcon Dr #109
Hennager Ryan	604-00000-20200	1.88	6/2/2023	160584	Refund Check 018046-000, 1511 Falcon Dr #109
Hennager Ryan		28.61			
Hermann Jessica	604-00000-20200	7.37	6/2/2023	160585	Refund Check 013917-002, 1305 Johnson St #D
Hermann Jessica	604-00000-20200	72.53	6/2/2023	160585	Refund Check 013917-002, 1305 Johnson St #D
Hermann Jessica	602-00000-20200	11.39	6/2/2023	160585	Refund Check 013917-002, 1305 Johnson St #D
Hermann Jessica	602-00000-20200	6.09	6/2/2023	160585	Refund Check 013917-002, 1305 Johnson St #D
Hermann Jessica	601-00000-20200	7.07	6/2/2023	160585	Refund Check 013917-002, 1305 Johnson St #D
Hermann Jessica	604-00000-20200	5.67	6/2/2023	160585	Refund Check 013917-002, 1305 Johnson St #D
Hermann Jessica		110.12			
Hilburn Dwight	604-49595-43985	25.00	6/1/2023	160527	residential refrigerator rebate
Hilburn Dwight	604-49595-43988	25.00	6/1/2023	160527	residential dishwasher rebate
Hilburn Dwight		50.00			
Huttemeier John/Jean	604-49595-43985	25.00	6/1/2023	160528	residential refrigerator rebate
Huttemeier John/Jean	604-49595-43988	25.00	6/1/2023	160528	residential dishwasher rebate
Huttemeier John/Jean		50.00			
IBEW, Local Union 949	601-00000-21807	677.16	6/7/2023	160599	PR Batch 00001.06.2023 Union Dues
IBEW, Local Union 949	602-00000-21807	346.01	6/7/2023	160599	PR Batch 00001.06.2023 Union Dues
IBEW, Local Union 949	604-00000-21807	747.32	6/7/2023	160599	PR Batch 00001.06.2023 Union Dues
IBEW, Local Union 949		1,770.49			
Impact Proven Solutions	604-49590-31200	2,385.37	6/16/2023	160793	Monthly Utility Billing-june
Impact Proven Solutions	601-49440-31200	615.14	6/16/2023	160793	Monthly Utility Billing-june
Impact Proven Solutions	602-49490-31200	374.45	6/16/2023	160793	Monthly Utility Billing-june
Impact Proven Solutions		3,374.96			

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Interstate Power Systems, Inc.	601-49430-40200	85.02	6/27/2023	160880	replace water pump and hoses
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Interstate Power Systems, Inc.		85.02			
J Hokanson Print	601-49440-20120	48.93	6/15/2023	160746	White Epiphany Pen
J Hokanson Print	602-49490-20120	29.79	6/15/2023	160746	White Epiphany Pen
J Hokanson Print	604-49590-20120	189.74	6/15/2023	160746	White Epiphany Pen
J Hokanson Print	604-49590-20120	873.88	6/29/2023	160906	Envelopes #10 Window & Non Window, #9 Return Envelopes
J Hokanson Print	601-49440-20120	225.37	6/29/2023	160906	Envelopes #10 Window & Non Window, #9 Return Envelopes
J Hokanson Print	602-49490-20120	137.17	6/29/2023	160906	Envelopes #10 Window & Non Window, #9 Return Envelopes
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J Hokanson Print		1,504.88			
J. H. Larson	602-49470-40200	195.55	7/10/2023	161069	fuse for control transformer
J. H. Larson	601-49430-40400	67.10	7/10/2023	161069	PSM 7803-MD
J. H. Larson	602-49470-40200	64.73	7/10/2023	161069	schedule 40 pvc conduit
J. H. Larson	602-49470-40200	562.90	7/10/2023	161069	PSM PS5100B9-W
J. H. Larson	602-49470-40200	74.25	7/10/2023	161069	general purpose carbide hole
J. H. Larson	604-00000-16300	93.81	7/10/2023	161069	STEEL DEMON CARBIDE TEETH - CIP - AMI
J. H. Larson	604-49570-22300	72.66	7/10/2023	161069	can 5133828 can 6141628
J. H. Larson	601-49430-40400	542.88	7/10/2023	161069	PC LED FIELD ADJUSTABLE WALL PACK
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J. H. Larson		1,673.88			
Johnson Jared	601-49430-43900	148.32	6/27/2023	0	safety glasses reimbursement
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Johnson Jared		148.32			
Jones Ruth Ann	604-49595-43988	25.00	6/1/2023	160529	residential dishwasher rebate
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Jones Ruth Ann		25.00			
Jorgensen Mark/Jen	604-49595-43988	25.00	6/16/2023	160794	residential dishwasher rebate
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Jorgensen Mark/Jen		25.00			
JT Services of Minnesota	604-49570-22300	1,127.81	6/16/2023	160795	warning signs
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JT Services of Minnesota		1,127.81			
Kawecki Brian/Britney	604-49595-43989	15.98	6/1/2023	160530	residential fixtures rebate

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Kawecki Brian/Britney		15.98			
Kellander Thomas/Monica	604-49595-43988	25.00	6/16/2023	160796	residential dishwasher rebate
Kellander Thomas/Monica		25.00			
Kodru Equipment Inc.	601-49400-40400	274.41	6/27/2023	160881	4-inch plug
Kodru Equipment Inc.		274.41			
Kopischke Ronald	604-49595-43994	11.80	6/2/2023	160574	lamp and ballast recycling
Kopischke Ronald		11.80			
Kuperus John	604-00000-20200	31.69	6/2/2023	160586	Refund Check 006688-002, 215 E 11th St
Kuperus John		31.69			
Larsen Earl Dean/Bonnie	604-00000-20200	3.62	6/2/2023	160587	Refund Check 011139-000, 2808 40th St Blue Earth
Larsen Earl Dean/Bonnie	604-00000-20200	4.92	6/2/2023	160587	Refund Check 011139-000, 2808 40th St Blue Earth
Larsen Earl Dean/Bonnie	604-00000-20200	40.26	6/2/2023	160587	Refund Check 011139-000, 2808 40th St Blue Earth
Larsen Earl Dean/Bonnie	604-00000-20200	17.17	6/2/2023	160587	Refund Check 011139-000, 2808 40th St Blue Earth
Larsen Earl Dean/Bonnie	604-00000-20200	0.35	6/2/2023	160587	Refund Check 011139-000, 2808 40th St Blue Earth
Larsen Earl Dean/Bonnie		66.32			
Lenort Duane	604-49595-43989	38.47	6/1/2023	160531	residential fixtures rebate
Lenort Duane		38.47			
License Bureau	601-00000-16400	631.60	6/15/2023	160776	License & Fees Water Dept Trailer 7UZFD2228PB000667
License Bureau	604-00000-16400	639.35	6/2/2023	160575	line department trailer registration - CIP - trailer
License Bureau		1,270.95			
Lindquist Troy	604-49595-43989	20.00	6/1/2023	160533	residential fixtures rebate
Lindquist Troy		20.00			
Locators & Supplies, Inc	602-49470-40200	176.88	6/21/2023	160830	Safety Vests
Locators & Supplies, Inc	601-49430-40200	176.89	6/21/2023	160830	Safety Vests

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Locators & Supplies, Inc		353.77			
Lombardi Sharon	604-00000-20200	0.62	6/2/2023	160588	Refund Check 017866-000, 922 N Park St N Apt
Lombardi Sharon	604-00000-20200	3.50	6/2/2023	160588	Refund Check 017866-000, 922 N Park St N Apt
Lombardi Sharon	602-00000-20200	0.55	6/2/2023	160588	Refund Check 017866-000, 922 N Park St N Apt
Lombardi Sharon	601-00000-20200	0.64	6/2/2023	160588	Refund Check 017866-000, 922 N Park St N Apt
Lombardi Sharon	604-00000-20200	5.87	6/2/2023	160588	Refund Check 017866-000, 922 N Park St N Apt
Lombardi Sharon	601-00000-20200	6.64	6/2/2023	160588	Refund Check 017866-000, 922 N Park St N Apt
Lombardi Sharon	601-00000-20200	6.39	6/2/2023	160588	Refund Check 017866-000, 922 N Park St N Apt
Lombardi Sharon	602-00000-20200	5.39	6/2/2023	160588	Refund Check 017866-000, 922 N Park St N Apt
Lombardi Sharon	602-00000-20200	1.04	6/2/2023	160588	Refund Check 017866-000, 922 N Park St N Apt
Lombardi Sharon	604-00000-20200	0.47	6/2/2023	160588	Refund Check 017866-000, 922 N Park St N Apt
Lombardi Sharon		31.11			
Lubenow Randy	604-49595-43994	62.00	6/2/2023	160576	lamp and ballast recycling
Lubenow Randy		62.00			
Marco Technologies, LLC	604-49590-20120	43.19	6/15/2023	160752	Contract Base Rate 04/22 to 05/21 Usage 01/22 to 04/21/23 CH
Marco Technologies, LLC	601-49440-20220	26.14	6/15/2023	160752	Contract Base Rate 05/14 to 06/13, Usage 02/14 to 05/13/23
Marco Technologies, LLC	604-49590-20220	39.15	6/15/2023	160752	Contract Base Rate 05/14 to 06/13, Usage 02/14 to 05/13/23
Marco Technologies, LLC	601-49440-20120	11.14	6/15/2023	160752	Contract Base Rate 04/22 to 05/21 Usage 01/22 to 04/21/23 CH
Marco Technologies, LLC	602-49490-20120	6.78	6/15/2023	160752	Contract Base Rate 04/22 to 05/21 Usage 01/22 to 04/21/23 CH
Marco Technologies, LLC	602-49490-20220	13.05	6/15/2023	160752	Contract Base Rate 05/14 to 06/13, Usage 02/14 to 05/13/23
Marco Technologies, LLC	601-49440-20120	11.01	6/15/2023	160752	Contract Base Rate 06/02 to 07/01 Usage 05/02 to 06/01/23 CH
Marco Technologies, LLC	602-49490-20120	6.70	6/15/2023	160752	Contract Base Rate 06/02 to 07/01 Usage 05/02 to 06/01/23 CH
Marco Technologies, LLC	604-49590-20120	42.66	6/15/2023	160752	Contract Base Rate 06/02 to 07/01 Usage 05/02 to 06/01/23 CH
Marco Technologies, LLC	601-49440-20220	26.14	6/15/2023	160752	Contract Base Rate 06/14 to 07/13/2023
Marco Technologies, LLC	602-49490-20220	13.05	6/15/2023	160752	Contract Base Rate 06/14 to 07/13/2023
Marco Technologies, LLC	604-49590-20220	39.15	6/15/2023	160752	Contract Base Rate 06/14 to 07/13/2023
Marco Technologies, LLC	604-49590-20120	28.62	6/27/2023	160866	Contract Base Rate 06/22 to 07/21/23 City Hall
Marco Technologies, LLC	601-49440-20120	7.40	6/27/2023	160866	Contract Base Rate 06/22 to 07/21/23 City Hall
Marco Technologies, LLC	602-49490-20120	4.51	6/27/2023	160866	Contract Base Rate 06/22 to 07/21/23 City Hall
Marco Technologies, LLC		318.69			
Martens Dale	604-49595-43995	15.00	6/1/2023	160534	residential dehumidifier rebate
Martens Dale		15.00			
Martin County Highway Dept	601-49400-21200	53.92	7/10/2023	161070	gas usage-june

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Martin County Highway Dept	602-49470-21200	908.88	7/10/2023	161070	gas usage-june
Martin County Highway Dept	604-49570-21200	1,474.52	7/10/2023	161070	gas usage-june
Martin County Highway Dept	601-49430-21200	770.47	7/10/2023	161070	gas usage-june
Martin County Highway Dept	602-49450-21200	308.72	7/10/2023	161070	gas usage-june
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Martin County Highway Dept		3,516.51			
Meschke Sandra	604-49595-43988	25.00	6/16/2023	160797	residential dishwasher rebate
Meschke Sandra	604-49595-43985	25.00	6/16/2023	160797	residential refrigerator rebate
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Meschke Sandra		50.00			
Metering & Technology Solutions	601-00000-16500	10,035.00	7/10/2023	161071	e-series meters - CIP - AMI
Metering & Technology Solutions	601-00000-16500	9,295.00	7/10/2023	161071	e-series meters - CIP - AMI
Metering & Technology Solutions	601-00000-16500	6,015.00	7/10/2023	161071	e-series meters - CIP - AMI
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Metering & Technology Solutions		25,345.00			
Metro Sales Inc.	604-49570-20120	255.86	6/15/2023	160753	Contract Base Rate 06/03 to 09/02/23 & Usage 03/03 to 06/02 Elec
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Metro Sales Inc.		255.86			
Meyer Catharine	604-49595-43981	250.00	6/1/2023	160535	residential AC rebate
Meyer Catharine	604-49595-43990	50.00	6/1/2023	160535	residential furnace rebate
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Meyer Catharine		300.00			
Midco	601-49440-32100	54.05	6/15/2023	160754	June 2023 Telephone City Hall
Midco	602-49490-32100	32.88	6/15/2023	160754	June 2023 Telephone City Hall
Midco	604-49590-32100	209.58	6/15/2023	160754	June 2023 Telephone City Hall
Midco	602-49490-32100	360.63	6/15/2023	160754	June 2023 Telephone Waste Water
Midco	601-49400-32100	360.83	6/15/2023	160754	June 2023 Telephone Water Plant
Midco	604-49570-32100	294.66	6/15/2023	160754	June 2023 Telephone Electric Dept
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Midco		1,312.63			
Midwest Garage Doors of Fairmont, Inc.	601-49430-40200	31.25	6/21/2023	160832	Repaired Door on City Shop
Midwest Garage Doors of Fairmont, Inc.	602-49470-40200	31.25	6/21/2023	160832	Repaired Door on City Shop
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Midwest Garage Doors of Fairmont, Inc.		62.50			
Miller Anita	604-49595-43989	60.00	6/1/2023	160536	residential fixtures rebate

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Miller Anita		60.00			
Miller Ben	604-49595-43990	50.00	6/1/2023	160537	residential furnace rebate
Miller Ben		50.00			
Minn Municipal Utilities Association	604-49570-33100	662.00	6/16/2023	160798	lineman college module one-fraser
Minn Municipal Utilities Association		662.00			
Minnesota State Retirement System	602-00000-21811	2.07	6/7/2023	0	PR Batch 00001.06.2023 Health Savings Plan AFSCME
Minnesota State Retirement System	604-00000-21811	3.25	6/7/2023	0	PR Batch 00001.06.2023 Health Savings Plan AFSCME
Minnesota State Retirement System	601-00000-21811	2.19	6/7/2023	0	PR Batch 00001.06.2023 Health Savings Plan AFSCME
Minnesota State Retirement System	602-00000-21811	2.10	6/21/2023	0	PR Batch 00002.06.2023 Health Savings Plan AFSCME
Minnesota State Retirement System	604-00000-21811	3.23	6/21/2023	0	PR Batch 00002.06.2023 Health Savings Plan AFSCME
Minnesota State Retirement System	601-00000-21811	2.17	6/21/2023	0	PR Batch 00002.06.2023 Health Savings Plan AFSCME
Minnesota State Retirement System		15.01			
Mn Child Support Payment	604-00000-21720	314.72	6/7/2023	160601	PR Batch 00001.06.2023 HR
Mn Child Support Payment	604-00000-21720	314.72	6/21/2023	160809	PR Batch 00002.06.2023 HR
Mn Child Support Payment		629.44			
MN Council 65 AFSCME	602-00000-21807	10.01	6/7/2023	160602	PR Batch 00001.06.2023 Union Dues
MN Council 65 AFSCME	604-00000-21807	15.58	6/7/2023	160602	PR Batch 00001.06.2023 Union Dues
MN Council 65 AFSCME	601-00000-21807	10.54	6/7/2023	160602	PR Batch 00001.06.2023 Union Dues
MN Council 65 AFSCME		36.13			
MN Dept Of Revenue	601-00000-21802	1,539.93	6/7/2023	0	PR Batch 00001.06.2023 State Income Tax
MN Dept Of Revenue	602-00000-21802	851.29	6/7/2023	0	PR Batch 00001.06.2023 State Income Tax
MN Dept Of Revenue	604-00000-21802	1,780.17	6/7/2023	0	PR Batch 00001.06.2023 State Income Tax
MN Dept Of Revenue	602-00000-21802	877.10	6/21/2023	0	PR Batch 00002.06.2023 State Income Tax
MN Dept Of Revenue	604-00000-21802	1,825.13	6/21/2023	0	PR Batch 00002.06.2023 State Income Tax
MN Dept Of Revenue	601-00000-21802	1,469.07	6/21/2023	0	PR Batch 00002.06.2023 State Income Tax
MN Dept Of Revenue		8,342.69			
MN Energy Resources Corp.	602-49450-38300	71.79	6/27/2023	160882	gas utilities - disposal
MN Energy Resources Corp.	602-49450-38300	71.93	6/27/2023	160882	gas utilities - maintenance
MN Energy Resources Corp.	602-49450-38300	481.05	6/27/2023	160882	gas utilities - burner

Last Name	Acct 1	Amount	Check Date	Check Num	Description
MN Energy Resources Corp.	604-49570-38300	68.22	6/27/2023	160882	gas utilities - warehouse
MN Energy Resources Corp.	602-49470-38300	62.27	6/27/2023	160882	gas utilities - indus
MN Energy Resources Corp.	602-49450-38300	5,299.69	6/27/2023	160882	gas utilities - solids
MN Energy Resources Corp.	601-49400-38300	561.07	6/27/2023	160882	gas utilities - filtration
MN Energy Resources Corp.	602-49450-38300	62.27	6/27/2023	160882	gas utilities - headwork
MN Energy Resources Corp.		6,678.29			
Mn NCPERS Life Insurance	604-00000-21810	48.00	6/21/2023	160810	PR Batch 00002.06.2023 PERA Term Life
Mn NCPERS Life Insurance	601-00000-21810	32.00	6/21/2023	160810	PR Batch 00002.06.2023 PERA Term Life
Mn NCPERS Life Insurance	602-00000-21810	32.00	6/21/2023	160810	PR Batch 00002.06.2023 PERA Term Life
Mn NCPERS Life Insurance		112.00			
MN Pollution Control Agency	601-49400-31500	23.00	7/10/2023	161072	WW operator certification renewal-nygaard
MN Pollution Control Agency		23.00			
MN Valley Testing Lab	602-49450-31400	261.82	6/9/2023	160645	Water Testing Fmt Bioreactor 05/19/2023
MN Valley Testing Lab	602-49450-31200	261.82	6/15/2023	160757	Water Testing 05/23/2023 Fmt Bioreactor
MN Valley Testing Lab	602-49450-31200	261.82	6/15/2023	160757	Water Testing Fmt Bioreactor
MN Valley Testing Lab	602-49450-31400	261.82	6/21/2023	160835	Water Testing May 2023
MN Valley Testing Lab	602-49450-31400	261.82	6/21/2023	160835	Water Testing May 2023
MN Valley Testing Lab	602-49450-31400	166.12	6/21/2023	160835	Water Testing May 2023
MN Valley Testing Lab	602-49450-31200	261.82	6/29/2023	160919	Water Testing Fmt Bioreactor June 5, 2023
MN Valley Testing Lab	602-49450-31200	261.82	6/29/2023	160919	Water Testing Fmt Bioreactor June 6, 2023
MN Valley Testing Lab	602-49450-31400	79.20	6/27/2023	160883	nitrogen testing
MN Valley Testing Lab	602-49450-31400	384.86	6/27/2023	160883	mercury testing
MN Valley Testing Lab	602-49450-31400	261.82	6/27/2023	160883	carbon, nitrate testing
MN Valley Testing Lab	602-49450-31400	44.00	7/10/2023	161073	chloride test
MN Valley Testing Lab	602-49450-31400	157.02	7/10/2023	161073	chloride and nitrogen test
MN Valley Testing Lab		2,925.76			
Motion Industries, Inc	602-00000-16500	2,195.05	7/10/2023	161074	R57 DRN71M4 - CIP - digester improvements
Motion Industries, Inc		2,195.05			
Napa Auto Fairmont Star Group LLC	601-49400-40500	-67.91	7/10/2023	161075	#646 air filter
Napa Auto Fairmont Star Group LLC	601-49400-40400	324.85	7/10/2023	161075	hydraulic filter
Napa Auto Fairmont Star Group LLC	602-49450-40500	12.67	7/10/2023	161075	#447 air filter
Napa Auto Fairmont Star Group LLC	604-49570-40500	3.37	7/10/2023	161075	#235 oil filter
Napa Auto Fairmont Star Group LLC	604-49570-40500	137.82	7/10/2023	161075	forklift battery

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Napa Auto Fairmont Star Group LLC		410.80			
National Industrial & Safety Supply	604-49570-22300	2,238.40	6/16/2023	160799	lime safety vests
National Industrial & Safety Supply	604-49570-22300	1,497.50	6/27/2023	160884	28" ref cones black base
National Industrial & Safety Supply		3,735.90			
NeonLink LLC	601-49400-31200	161.78	7/10/2023	161076	Enerlyte Payment Services-june
NeonLink LLC	604-49570-31200	627.34	7/10/2023	161076	Enerlyte Payment Services-june
NeonLink LLC	602-49450-31200	98.48	7/10/2023	161076	Enerlyte Payment Services-june
NeonLink LLC		887.60			
North Central Laboratories	602-49450-31400	673.08	6/16/2023	160800	Ammonia, test n tube reagent
North Central Laboratories		673.08			
Oddan Merlin	604-49595-43988	25.00	6/1/2023	160538	residential dishwasher rebate
Oddan Merlin		25.00			
Olabarrieta Janelle	604-00000-20200	1.00	6/2/2023	160589	Refund Check 018607-000, 1020 N Main St
Olabarrieta Janelle	604-00000-20200	11.06	6/2/2023	160589	Refund Check 018607-000, 1020 N Main St
Olabarrieta Janelle	601-00000-20200	1.36	6/2/2023	160589	Refund Check 018607-000, 1020 N Main St
Olabarrieta Janelle	601-00000-20200	19.34	6/2/2023	160589	Refund Check 018607-000, 1020 N Main St
Olabarrieta Janelle	601-00000-20200	23.23	6/2/2023	160589	Refund Check 018607-000, 1020 N Main St
Olabarrieta Janelle	602-00000-20200	2.20	6/2/2023	160589	Refund Check 018607-000, 1020 N Main St
Olabarrieta Janelle	602-00000-20200	1.18	6/2/2023	160589	Refund Check 018607-000, 1020 N Main St
Olabarrieta Janelle	604-00000-20200	0.89	6/2/2023	160589	Refund Check 018607-000, 1020 N Main St
Olabarrieta Janelle	602-00000-20200	17.24	6/2/2023	160589	Refund Check 018607-000, 1020 N Main St
Olabarrieta Janelle		77.50			
PC Janitorial Supply	601-49400-43900	250.87	6/16/2023	160801	floor scrubber parts, hand soap
PC Janitorial Supply	601-49400-43900	140.90	7/10/2023	161077	toilet paper and paper towel
PC Janitorial Supply	602-49470-43900	99.50	7/10/2023	161077	xl black gloves
PC Janitorial Supply		491.27			
Pitney Bowes	601-49440-32200	9.02	6/21/2023	160840	Postage Machine Ink & Tape Strips
Pitney Bowes	602-49490-32200	5.78	6/21/2023	160840	Postage Machine Ink & Tape Strips
Pitney Bowes	604-49590-32200	38.95	6/21/2023	160840	Postage Machine Ink & Tape Strips

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Pitney Bowes		53.75			
Pitney Bowes Bank Inc Purchase Power	604-49590-32200	493.17	6/2/2023	160563	Acct# 8000-9090-1129-9471 Postage Purchased
Pitney Bowes Bank Inc Purchase Power	601-49440-32200	114.09	6/2/2023	160563	Acct# 8000-9090-1129-9471 Postage Purchased
Pitney Bowes Bank Inc Purchase Power	602-49490-32200	73.14	6/2/2023	160563	Acct# 8000-9090-1129-9471 Postage Purchased
Pitney Bowes Bank Inc Purchase Power	601-49440-32200	90.55	6/2/2023	160563	Prepaid Postage
Pitney Bowes Bank Inc Purchase Power	602-49490-32200	58.05	6/2/2023	160563	Prepaid Postage
Pitney Bowes Bank Inc Purchase Power	604-49590-32200	391.40	6/2/2023	160563	Prepaid Postage
Pitney Bowes Bank Inc Purchase Power		1,220.40			
Pitney Bowes Global Financial Services LLC	601-49440-32200	18.63	6/15/2023	160764	Postage Meter 03/30/23 to 06/29/23 Contract #0040841136
Pitney Bowes Global Financial Services LLC	602-49490-32200	11.94	6/15/2023	160764	Postage Meter 03/30/23 to 06/29/23 Contract #0040841136
Pitney Bowes Global Financial Services LLC	604-49590-32200	80.52	6/15/2023	160764	Postage Meter 03/30/23 to 06/29/23 Contract #0040841136
Pitney Bowes Global Financial Services LLC		111.09			
Plunkett's Pest Control, Inc.	602-49450-31200	88.40	6/16/2023	160802	general pest control-may
Plunkett's Pest Control, Inc.		88.40			
Ⓢ Powers Brady	601-49440-32100	46.44	6/9/2023	160648	June 2023 Cell Phone Reimbursement
Powers Brady		46.44			
Pritts-Steuber Electric Motors, Inc	601-49430-40400	14.90	6/27/2023	160885	2 belts
Pritts-Steuber Electric Motors, Inc	602-49450-40400	36.80	7/10/2023	161078	belts
Pritts-Steuber Electric Motors, Inc		51.70			
Public Utilities Comm	601-49440-33100	15.00	7/10/2023	161079	meal reimbursement-schaefer
Public Utilities Comm	604-00000-16400	-4.75	7/10/2023	161079	cip trailer registration refund from DMV - CIP - trailer
Public Utilities Comm		10.25			
Public Utilities Commission	604-49570-40300	47.45	6/21/2023	160841	June 2023 Utilities EV Charger Wbgo Ave
Public Utilities Commission		47.45			
PVS Technologies, Inc.	602-49450-21620	10,714.19	7/10/2023	161080	feric chloride solution

Last Name	Acct 1	Amount	Check Date	Check Num	Description
PVS Technologies, Inc.		10,714.19			
Quality Flow Systems, Inc	602-00000-16500	5,505.00	6/16/2023	160803	replacement gas meter - CIP - digester improvements
Quality Flow Systems, Inc	602-00000-16500	28,410.00	7/10/2023	161081	quality control duplex control panel - CIP - LS rehab/monitoring
Quality Flow Systems, Inc	602-49470-40200	3,906.00	7/10/2023	161081	general repair of beach LS, transducer assembly
Quality Flow Systems, Inc	602-00000-16500	28,410.00	7/10/2023	161081	quality control duplex control panel - CIP - LS rehab/monitoring
Quality Flow Systems, Inc		66,231.00			
Redi Haul Trailers, Inc	602-49470-40200	432.00	7/10/2023	161082	1/8in tubing
Redi Haul Trailers, Inc		432.00			
Reiter Lorraine	604-49595-43987	25.00	6/1/2023	160539	residential washing machine rebate
Reiter Lorraine		25.00			
ReLab Software LLC	604-49570-31200	4,482.00	7/10/2023	161083	relab annual maintenance 23-24
ReLab Software LLC		4,482.00			
Retirement Association Public Employees	604-00000-21804	2,709.46	6/7/2023	0	PR Batch 00001.06.2023 PERA
Retirement Association Public Employees	602-00000-21804	1,725.17	6/7/2023	0	PR Batch 00001.06.2023 PERA Employer
Retirement Association Public Employees	601-00000-21804	2,433.20	6/7/2023	0	PR Batch 00001.06.2023 PERA
Retirement Association Public Employees	602-00000-21804	1,495.15	6/7/2023	0	PR Batch 00001.06.2023 PERA
Retirement Association Public Employees	601-00000-21804	2,807.59	6/7/2023	0	PR Batch 00001.06.2023 PERA Employer
Retirement Association Public Employees	604-00000-21804	3,126.24	6/7/2023	0	PR Batch 00001.06.2023 PERA Employer
Retirement Association Public Employees	601-00000-21804	2,313.68	6/21/2023	0	PR Batch 00002.06.2023 PERA
Retirement Association Public Employees	602-00000-21804	1,479.38	6/21/2023	0	PR Batch 00002.06.2023 PERA
Retirement Association Public Employees	604-00000-21804	3,080.92	6/21/2023	0	PR Batch 00002.06.2023 PERA Employer
Retirement Association Public Employees	602-00000-21804	1,707.01	6/21/2023	0	PR Batch 00002.06.2023 PERA Employer
Retirement Association Public Employees	601-00000-21804	2,669.59	6/21/2023	0	PR Batch 00002.06.2023 PERA Employer
Retirement Association Public Employees	604-00000-21804	2,670.16	6/21/2023	0	PR Batch 00002.06.2023 PERA
Retirement Association Public Employees		28,217.55			
River Bend Business Products	601-49440-20120	28.88	6/15/2023	160766	Office Supplies City Hall
River Bend Business Products	602-49490-20120	17.58	6/15/2023	160766	Office Supplies City Hall
River Bend Business Products	604-49590-20120	111.96	6/15/2023	160766	Office Supplies City Hall
River Bend Business Products	601-49440-20120	23.33	6/29/2023	160928	Office Supplies City Hall
River Bend Business Products	602-49490-20120	14.20	6/29/2023	160928	Office Supplies City Hall
River Bend Business Products	604-49590-20120	90.43	6/29/2023	160928	Office Supplies City Hall

Last Name	Acct 1	Amount	Check Date	Check Num	Description
River Bend Business Products		286.38			
S & J Excavating, Inc.	601-49430-40200	992.02	7/10/2023	161084	drainage rock-4/27,5/23,6/6/2023
S & J Excavating, Inc.		992.02			
Schultz, Jr Melvin	604-49595-43985	25.00	6/1/2023	160540	residential refrigerator rebate
Schultz, Jr Melvin		25.00			
Schutz Michael	604-49595-43990	50.00	6/1/2023	160541	residential furnace rebate
Schutz Michael		50.00			
Segar David F	604-49595-43988	25.00	6/16/2023	0	residential dishwasher rebate
Segar David F		25.00			
Share Corporation	604-49570-22300	502.65	7/10/2023	161085	insect towels, vegetation control
Share Corporation		502.65			
Siem Construction LLC	602-00000-16500	22,900.00	6/27/2023	160886	lift station rehab, repair, monitoring - CIP
Siem Construction LLC		22,900.00			
Smith Rental Properties, LLC	604-49595-43994	34.80	6/2/2023	160577	lamp and ballast recycling
Smith Rental Properties, LLC		34.80			
Squeegee Brothers	602-49450-31200	59.00	7/10/2023	161086	entry window cleaning
Squeegee Brothers		59.00			
Struss Brian	604-49595-43995	15.00	6/1/2023	160542	residential dehumidifier rebate
Struss Brian		15.00			
Stuart C. Irby Co	604-00000-14207	1,254.00	7/10/2023	161087	brackets
Stuart C. Irby Co	604-49570-40400	600.20	7/10/2023	161087	testing gloves and sleeves
Stuart C. Irby Co	604-49570-22300	206.40	7/10/2023	161087	safety glasses
Stuart C. Irby Co	604-49570-22300	80.40	7/10/2023	161087	silicone spray

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Stuart C. Irby Co	604-49570-22300	935.00	7/10/2023	161087	supersqueeze w/rope
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Stuart C. Irby Co		3,076.00			
Subbert Jeanne	604-49595-43994	110.00	6/2/2023	160578	lamp and ballast recycling
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Subbert Jeanne		110.00			
Swanson Flo	601-49400-40400	2,211.33	7/10/2023	161088	swanson flo repair
		<hr/>			
Swanson Flo		2,211.33			
Thimesch Terry	604-00000-20200	4.70	6/2/2023	160590	Refund Check 018467-000, 104 1/2 E 5th #4
Thimesch Terry	604-00000-20200	3.61	6/2/2023	160590	Refund Check 018467-000, 104 1/2 E 5th #4
Thimesch Terry	604-00000-20200	60.38	6/2/2023	160590	Refund Check 018467-000, 104 1/2 E 5th #4
Thimesch Terry	602-00000-20200	1.94	6/2/2023	160590	Refund Check 018467-000, 104 1/2 E 5th #4
Thimesch Terry	602-00000-20200	1.03	6/2/2023	160590	Refund Check 018467-000, 104 1/2 E 5th #4
Thimesch Terry	601-00000-20200	1.23	6/2/2023	160590	Refund Check 018467-000, 104 1/2 E 5th #4
		<hr/>			
Thimesch Terry		72.89			
Thompson Scott/Peggy	604-49595-43988	25.00	6/1/2023	160543	residential dishwasher rebate
		<hr/>			
Thompson Scott/Peggy		25.00			
Tnemece Company Inc.	602-49450-40400	826.25	6/16/2023	160804	endura shield II, epoxiline, thinner
		<hr/>			
Tnemece Company Inc.		826.25			
Todorovic Branko	604-49595-43990	50.00	6/1/2023	160544	residential furnace rebate
		<hr/>			
Todorovic Branko		50.00			
Trailer Delivery Service	601-00000-16400	600.00	6/2/2023	160565	Delivery of Water Plant Trailer
		<hr/>			
Trailer Delivery Service		600.00			
U C Laboratory, Inc	601-49400-31400	281.00	7/10/2023	161089	total coliform 6.2023
		<hr/>			
U C Laboratory, Inc		281.00			
USA Blue Book	601-49400-31400	447.90	6/27/2023	160887	chlorine chemkey, reagents, ammonia tests, tubing
USA Blue Book	601-49400-40400	2,166.19	6/27/2023	160887	GDP 65 PSI FLEXFLO

Last Name	Acct 1	Amount	Check Date	Check Num	Description
USA Blue Book	601-49400-31400	79.55	7/10/2023	161090	ammonia chemkey
USA Blue Book	601-49400-31400	79.55	7/10/2023	161090	ammonia chemkey
USA Blue Book	601-49400-40400	109.17	7/10/2023	161090	blue-white roller assembly
		<hr/>			
USA Blue Book		2,882.36			
Utility Technologies, LLC	601-00000-16500	554.68	7/10/2023	161091	meter gaskets- CIP - AMI
		<hr/>			
Utility Technologies, LLC		554.68			
Vantage Transfer - 301177	601-00000-21808	161.05	6/7/2023	0	PR Batch 00001.06.2023 ICMA Payroll Roth IRA
Vantage Transfer - 301177	604-00000-21808	2,399.54	6/7/2023	0	PR Batch 00001.06.2023 ICMA
Vantage Transfer - 301177	602-00000-21808	58.99	6/7/2023	0	PR Batch 00001.06.2023 ICMA Payroll Roth IRA
Vantage Transfer - 301177	602-00000-21808	265.08	6/7/2023	0	PR Batch 00001.06.2023 ICMA
Vantage Transfer - 301177	604-00000-21808	415.93	6/7/2023	0	PR Batch 00001.06.2023 ICMA Payroll Roth IRA
Vantage Transfer - 301177	604-00000-21808	104.94	6/7/2023	0	PR Batch 00001.06.2023 ICMA- Percent
Vantage Transfer - 301177	601-00000-21808	77.88	6/7/2023	0	PR Batch 00001.06.2023 ICMA- Percent
Vantage Transfer - 301177	601-00000-21808	406.80	6/7/2023	0	PR Batch 00001.06.2023 ICMA
Vantage Transfer - 301177	601-00000-21808	107.21	6/7/2023	0	PR Batch 00001.06.2023 ICMA Loan Repayment
Vantage Transfer - 301177	602-00000-21808	427.90	6/7/2023	0	PR Batch 00001.06.2023 ICMA- Percent
Vantage Transfer - 301177	604-00000-21808	248.03	6/7/2023	0	PR Batch 00001.06.2023 ICMA Loan Repayment
Vantage Transfer - 301177	601-00000-21808	77.87	6/21/2023	0	PR Batch 00002.06.2023 ICMA- Percent
Vantage Transfer - 301177	601-00000-21808	107.21	6/21/2023	0	PR Batch 00002.06.2023 ICMA Loan Repayment
Vantage Transfer - 301177	604-00000-21808	104.95	6/21/2023	0	PR Batch 00002.06.2023 ICMA- Percent
Vantage Transfer - 301177	602-00000-21808	427.90	6/21/2023	0	PR Batch 00002.06.2023 ICMA- Percent
Vantage Transfer - 301177	604-00000-21808	415.92	6/21/2023	0	PR Batch 00002.06.2023 ICMA Payroll Roth IRA
Vantage Transfer - 301177	601-00000-21808	161.05	6/21/2023	0	PR Batch 00002.06.2023 ICMA Payroll Roth IRA
Vantage Transfer - 301177	602-00000-21808	58.99	6/21/2023	0	PR Batch 00002.06.2023 ICMA Payroll Roth IRA
Vantage Transfer - 301177	604-00000-21808	2,044.51	6/21/2023	0	PR Batch 00002.06.2023 ICMA
Vantage Transfer - 301177	601-00000-21808	324.62	6/21/2023	0	PR Batch 00002.06.2023 ICMA
Vantage Transfer - 301177	602-00000-21808	212.25	6/21/2023	0	PR Batch 00002.06.2023 ICMA
Vantage Transfer - 301177	604-00000-21808	248.03	6/21/2023	0	PR Batch 00002.06.2023 ICMA Loan Repayment
		<hr/>			
Vantage Transfer - 301177		8,856.65			
Verizon Wireless	601-49400-32100	220.00	6/2/2023	160566	Cell Phone 4/21/23 to 05/20/2023 Water Dept
Verizon Wireless	602-49450-32100	95.22	6/2/2023	160566	Cell Phone 4/21/23 to 05/20/2023 Waste Water Dept
Verizon Wireless	604-49570-32100	255.01	6/2/2023	160566	Cell Phone 4/21/23 to 05/20/2023 Electric Dept
		<hr/>			
Verizon Wireless		570.23			
Vicente Martin	604-00000-20200	30.82	6/2/2023	160591	Refund Check 017435-001, 1013 N NORTH AVE
Vicente Martin	602-00000-20200	15.32	6/2/2023	160591	Refund Check 017435-001, 1013 N NORTH AVE

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Vicente Martin	604-00000-20200	2.53	6/2/2023	160591	Refund Check 017435-001, 1013 N NORTH AVE
Vicente Martin	604-00000-20200	10.48	6/2/2023	160591	Refund Check 017435-001, 1013 N NORTH AVE
Vicente Martin	601-00000-20200	26.79	6/2/2023	160591	Refund Check 017435-001, 1013 N NORTH AVE
Vicente Martin	601-00000-20200	11.23	6/2/2023	160591	Refund Check 017435-001, 1013 N NORTH AVE
Vicente Martin	602-00000-20200	0.83	6/2/2023	160591	Refund Check 017435-001, 1013 N NORTH AVE
Vicente Martin	602-00000-20200	0.45	6/2/2023	160591	Refund Check 017435-001, 1013 N NORTH AVE
Vicente Martin	601-00000-20200	0.52	6/2/2023	160591	Refund Check 017435-001, 1013 N NORTH AVE
Vicente Martin	604-00000-20200	3.45	6/2/2023	160591	Refund Check 017435-001, 1013 N NORTH AVE
		<hr/>			
Vicente Martin		102.42			
Voss Cleaning Services, Inc.	601-49440-31200	148.37	6/9/2023	160660	June 2023 Janitorial & Rug Service City Hall
Voss Cleaning Services, Inc.	604-49570-31200	575.31	6/9/2023	160660	June 2023 Janitorial & Rug Service City Hall
Voss Cleaning Services, Inc.	602-49450-31200	90.32	6/9/2023	160660	June 2023 Janitorial & Rug Service City Hall
Voss Cleaning Services, Inc.	602-49450-31200	108.00	7/10/2023	161092	rug service-june
		<hr/>			
Voss Cleaning Services, Inc.		922.00			
Waste Management Of So MN	602-49450-31200	2,407.55	7/10/2023	161093	dumpster service-june
		<hr/>			
Waste Management Of So MN		2,407.55			
Wesco Receivables Corp.	604-00000-14207	800.00	6/16/2023	160805	tension splice
Wesco Receivables Corp.	604-00000-14207	438.34	6/16/2023	160805	flawguy wire
Wesco Receivables Corp.	604-00000-14207	14,901.00	7/10/2023	161094	SHR BLT 350-750
		<hr/>			
Wesco Receivables Corp.		16,139.34			
Western Area Power Admin. US Dept of Energy	604-00000-20100	7,375.84	6/9/2023	160718	May 2023 Electric Service
		<hr/>			
Western Area Power Admin. US Dept of Energy		7,375.84			
Wood Amber	604-00000-20200	2.91	6/2/2023	160592	Refund Check 018516-000, 216 E 3rd St E Apt
Wood Amber	604-00000-20200	62.80	6/2/2023	160592	Refund Check 018516-000, 216 E 3rd St E Apt
Wood Amber	602-00000-20200	4.93	6/2/2023	160592	Refund Check 018516-000, 216 E 3rd St E Apt
Wood Amber	602-00000-20200	2.58	6/2/2023	160592	Refund Check 018516-000, 216 E 3rd St E Apt
Wood Amber	601-00000-20200	3.07	6/2/2023	160592	Refund Check 018516-000, 216 E 3rd St E Apt
Wood Amber	604-00000-20200	4.85	6/2/2023	160592	Refund Check 018516-000, 216 E 3rd St E Apt
		<hr/>			
Wood Amber		81.14			
Young Zach	602-49450-43900	215.61	6/16/2023	160806	safety glasses reimbursement

Last Name	Acct 1	Amount	Check Date	Check Num	Description
Young Zach		215.61			
Zamora Valerie	601-00000-20200	18.72	6/2/2023	160593	Refund Check 018194-000, 924 N PRAIRIE AVE
Zamora Valerie	601-00000-20200	11.95	6/2/2023	160593	Refund Check 018194-000, 924 N PRAIRIE AVE
Zamora Valerie	604-00000-20200	1.77	6/2/2023	160593	Refund Check 018194-000, 924 N PRAIRIE AVE
Zamora Valerie	604-00000-20200	16.96	6/2/2023	160593	Refund Check 018194-000, 924 N PRAIRIE AVE
Zamora Valerie	602-00000-20200	13.19	6/2/2023	160593	Refund Check 018194-000, 924 N PRAIRIE AVE
Zamora Valerie	602-00000-20200	2.91	6/2/2023	160593	Refund Check 018194-000, 924 N PRAIRIE AVE
Zamora Valerie	602-00000-20200	1.56	6/2/2023	160593	Refund Check 018194-000, 924 N PRAIRIE AVE
Zamora Valerie	601-00000-20200	1.80	6/2/2023	160593	Refund Check 018194-000, 924 N PRAIRIE AVE
Zamora Valerie	604-00000-20200	1.39	6/2/2023	160593	Refund Check 018194-000, 924 N PRAIRIE AVE
Zamora Valerie		70.25			
Zarling James	604-00000-20200	62.82	6/2/2023	160594	Refund Check 005866-000, 406 S HAMPTON ST
Zarling James		62.82			
Ziemer Melva	602-00000-20200	20.26	6/2/2023	160595	Refund Check 018410-000, 620 Summit Dr #211
Ziemer Melva	604-00000-20200	4.89	6/2/2023	160595	Refund Check 018410-000, 620 Summit Dr #211
Ziemer Melva	604-00000-20200	59.93	6/2/2023	160595	Refund Check 018410-000, 620 Summit Dr #211
Ziemer Melva	602-00000-20200	10.84	6/2/2023	160595	Refund Check 018410-000, 620 Summit Dr #211
Ziemer Melva	601-00000-20200	12.57	6/2/2023	160595	Refund Check 018410-000, 620 Summit Dr #211
Ziemer Melva	604-00000-20200	4.76	6/2/2023	160595	Refund Check 018410-000, 620 Summit Dr #211
Ziemer Melva		113.25			
		457,179.98			



Fairmont Public Utilities Commission
July 18, 2023

Agenda Item: 7.1

From: Julie Zarling, Assistant Finance Director
To: Public Utilities Commission

Subject: Average Retail Utility Energy Rate

Policy/Action Requested:

Vote Required: Simple Majority Roll Call

Recommendation: Approval

Overview:

Staff is requesting the PUC to incorporate the revised Schedule 1 and 2 into our existing DER tariff which will meet our annual reporting and customer notification requirement per the Distributed Generation Rules for Fairmont Public Utilities adopted by the PUC on January 18, 2022. Only Schedules 1 and 2 will need to be updated annually.

Schedule 1 – Average Retail Energy Rate - is the rate we will pay our retail customers with DERs of less than 40 kW for any net export.

Schedule 2 – SMMPA’s Average Incremental Cost - this is the rate we pay our retail customer with DERs of 40kW and above for any net export.

Budget Impact: N/A

Attachments:

1. Schedule 1 – Average Retail Utility Energy Rate
2. Schedule 2 – Average Incremental Cost
3. Notification to Customers
4. Annual QF Report to Governing Board Under 40kW
5. Annual QF Report to Governing Board 40 kW and over
6. Annual QF Report to Governing Board - Wheeling

PUC Action: _____ Date: _____

SCHEDULE 1 – AVERAGE RETAIL UTILITY ENERGY RATE

Net Energy Billing: Available to any QF of less than 40 kW capacity that does not select either Roll Over Credits, Simultaneous Purchase and Sale Billing or Time of Day rates.

Fairmont Public Utilities shall bill QF for any excess of energy supplied by insert Utility name above energy supplied by the QF during each billing period according to Fairmont Public Utilities' applicable rate schedule. Fairmont Public Utilities shall pay the customer for the energy generated by the QF that exceeds that supplied by Fairmont Public Utilities during a billing period at the "average retail utility energy rate." "Average retail utility energy rate" means, for any class of utility customer, the quotient of the total annual class revenue from sales of electricity minus the annual revenue resulting from fixed charges, divided by the annual class kilowatt-hour sales. Data from the most recent 12-month period available shall be used in the computation. The "average retail utility energy rates" are as follows:

Customer Class	Average Retail Utility Energy Rate
Residential Light	.097542
Residential Heat	.091339
Commercial Service	.094506
General Service	.091597
Industrial Service	.084354
All Electric Heat	.067075
Rural Service	.094773
Seasonal Heat	.073447

SCHEDULE 2 – AVERAGE INCREMENTAL COST

Estimated Marginal Energy Costs (\$/MWh)						
		2023	2024	2025	2026	2027
Summer	On Peak	48.22	46.72	47.83	48.83	49.50
	Off Peak	31.68	25.97	27.54	28.77	29.81
	All Hours	39.29	35.52	36.88	38.00	38.87
Winter	On Peak	53.55	50.32	53.03	56.17	57.21
	Off Peak	39.82	37.22	37.60	38.40	39.85
	All Hours	46.14	43.24	44.70	46.57	47.84
Annual	On Peak	50.88	48.52	50.43	52.50	53.35
	Off Peak	35.75	31.60	32.57	33.59	34.83
	All Hours	42.71	39.38	40.79	42.29	43.35
Annual # hours on-peak:						
Description of season and on-peak and off-peak periods						
Summer:	April through September					
Winter:	October through March					
On-peak period:	6 am to 10 pm Monday through Friday except holiday (New Years, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day)					
Off-peak period:	All other hours					

Estimated Marginal Energy Costs

The estimated system average incremental energy costs are calculated by seasonal peak and off-peak periods for each of the next five years. For each seasonal period, system incremental energy costs are averaged during system daily peak hours, system daily off-peak hours, and all hours in the season. The energy costs are increased by a factor equal to 50 percent of the line losses.

The energy needs of Fairmont Public Utilities are served through its membership in Southern Minnesota Municipal Power Agency (SMMPA). SMMPA, in turn, is a member of the Midcontinent ISO (MISO). As a result, the municipal's incremental energy cost is equivalent to the MISO hourly Locational Marginal Price (LMP). Actual hourly LMP will vary significantly based on several parameters such as weather, energy demand, and generation availability. The table above represents a forecast of the MISO hourly LMP values averaged over each specific time period at the MISO Minnesota Hub.

Capacity Costs

SMMPA, Fairmont Public Utilities' wholesale supplier, has neither planned generating facility additions nor planned additional capacity purchases, other than from qualifying facilities, during the ensuing ten years, thus SMMPA and Fairmont Public Utilities are deemed to have no avoidable capacity costs.



Phone (507)238-9461

CITY OF FAIRMONT – 100 Downtown Plaza – Fairmont, MN 56031
www.fairmont.org ♦ citygov@fairmont.org
(507)238-9044

Fax

Notification to Customers

In compliance with Fairmont Public Utilities Commission adopted rules relating to cogeneration and small power production, Fairmont Public Utilities Commission is obligated to interconnect with and purchase electricity from cogenerators and small power producers that satisfy the conditions as a qualifying facility. Fairmont Public Utilities Commission is obligated to provide information regarding rates and interconnection requirements free of charge to all interested customers upon request. All interconnections require an application and approval to become a qualifying facility. Any disputes over interconnection, sales, and purchases relative to qualifying facilities should be brought to Fairmont Public Utilities Commission for resolution, per Fairmont Public Utilities Distributed Generation Rules adopted 1/18/2022.

Interested customers should contact Julie Zarling, Assistant Finance Director via email at julie.zarling@fairmont.org or call (507) 238-9461.

Facility ID (Account Number)	Nameplate Capacity (kW-DC)	Energy Source	Net Annual Export (kWh)	Rollover Credit?	Total Facilities
14658	10	Solar	5,179		
8962	18	Solar	2,737		
10156	17.4	Solar	10,573		
11005	7.7	Solar	424		

TOTAL SOLAR	53.1		18,913		4
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43

TOTAL WIND	0		-		0
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TOTAL OTHER	0		-		0
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GRAND TOTAL	53.1		18,913		4
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Facility ID (Account Number)
6356-001

Nameplate Capacity (kW-DC)	Energy Source	Net Annual Export (kWh)	Number of Facilities
57.6	Solar	-	

TOTAL SOLAR

57.6

-

1

44

TOTAL WIND

0

-

0

Other

TOTAL OTHER

0

-

0

GRAND TOTAL

57.6

0

1

Summarize and wheeling undertaken relative to QFs

No wheeling is currently undertaken relative to QFs



Fairmont Public Utilities Commission
July 18, 2023

Agenda Item: 7.2

From: Julie Zarling
To: Public Utilities Commission

Subject: DER 2023-0001 Jack Siebring Contract & Interconnection Agreement

Policy/Action Requested:

Vote Required: Simple Majority Roll Call

Recommendation: Approval

Overview:

Jack Siebring is installing a solar Photovoltaic System at 900 Woodland Ave. The system proposal has been reviewed and approved by Julie Zarling (and SMMPA) and by Doug Harstad, Building Inspector.

Approval is recommended for the DER contract and agreement.

Budget Impact: N/A

Attachments: DER 2023-0001 Jack Siebring application, contract, and agreement.

PUC Action: _____ Date: _____

CONTRACT FOR COGENERATION AND SMALL POWER PRODUCTION FACILITIES

THIS CONTRACT is entered into _____, ____, by Fairmont Public Utilities, a municipal utility under Minnesota law, (hereafter called "Utility") and _Jack Siebring (hereafter called "QF").

RECITALS

The QF has installed electric generating facilities, consisting of Solar Photovoltaic DER, AP Systems Inverter model DS3-S, rated at 8.32 kilowatts AC of electricity, on property located at 900 Woodland Ave Fairmont, MN 56031.

The QF is a customer of the Utility located within the assigned electric service territory of the Utility.

The QF is prepared to generate electricity in parallel with the Utility.

The QF's electric generating facilities meet the requirements of the rules adopted by the Utility on Cogeneration and Small Power Production and any technical standards for interconnection the Utility has established that are authorized by those rules.

The Utility is obligated under federal and Minnesota law to interconnect with the QF and to purchase electricity offered for sale by the QF.

A contract between the QF and the Utility is required.

AGREEMENTS

The QF and the Utility agree:

1. The Utility will sell electricity to the QF under the rate schedule in force for the class of customer to which the QF belongs.
2. The Utility will buy electricity from the QF under the current rate schedule filed with the city council or city-appointed governing body of the utility. The QF elects the rate schedule category hereinafter indicated:

xx a. Average retail utility energy rate.

- QF capacity must be less than 40 kW.

N.A. b. Simultaneous purchase and sale billing rate.

- QF capacity must be less than 40 kW.

N.A. c. Roll-over credits.

- QF capacity must be less than 40 kW.

N.A. d. Time-of-day purchase rates.

- QF capacity must be 40 kW or more and less than or equal to 100 kW.

A copy of the presently approved rate schedule is attached to this contract.

3. The rates for sales and purchases of electricity may change over the time this contract is in force, due to actions of the Utility or the State of Minnesota, and the QF and the Utility agree that sales and purchases will be made under the rates in effect each month during the time this contract is in force.
4. The Utility will compute the charges and payments for purchases and sales for each billing period. Any net credit to the QF, other than kilowatt-hour credits under clause 2(c), will be made under one of the following options as chosen by the QF.

xx a. Credit to the QF's account with the Utility.

 b. Paid by check or electronic payment service to the QF within fifteen (15) days of the billing date.

5. Renewable energy credits associated with generation from the facility are owned by: Jack Siebring.
6. The QF must operate its electric generating facilities within any rules, regulations, and policies adopted by the Utility not prohibited by the rules governing Cogeneration and Small Power Production on the Utility's system which provide reasonable technical connection and operating specifications for the QF and are consistent with the Minnesota Public Utilities Commission's rules on Cogeneration and Small Power Production, as required under Minnesota Statutes §216B.164, subdivision 9.
7. The QF will not enter into an arrangement whereby electricity from the generating facilities will be sold to an end user in violation of the Utility's exclusive right to provide electric service in its service area under Minnesota Statutes, §216B.37-44.
8. The QF will operate its electric generating facilities so that they conform to the national, state, and local electric and safety codes, and will be responsible for the costs of conformance.

9. The QF is responsible for the actual, reasonable costs of interconnection which are estimated to be \$_500.00_. The QF will pay the Utility in this way: QF will be billed for Interconnection Fee. Payment can be made at Fairmont City Hall or mailed to Fairmont Public Utilities, 100 Downtown Plaza, Fairmont, MN 56031
10. The QF will give the Utility reasonable access to its property and electric generating facilities if the configuration of those facilities does not permit disconnection or testing from the Utility 's side of the interconnection. If the Utility enters the QF's property, the Utility will remain responsible for its personnel.
11. The Utility may stop providing electricity to the QF during a system emergency. The Utility will not discriminate against the QF when it stops providing electricity or when it resumes providing electricity.
12. The Utility may stop purchasing electricity from the QF when necessary for the Utility to construct, install, maintain, repair, replace, remove, investigate, or inspect any equipment or facilities within its electric system. The Utility may stop purchasing electricity from the QF in the event the generating facilities listed in this contract are documented to be causing power quality, safety or reliability issues to the Utility's electric distribution system.

The Utility will notify the QF before it stops purchasing electricity in this way:
QF will be notified in writing by Utility.

13. The QF will keep in force general liability insurance against personal or property damage due to the installation, interconnection, and operation of its electric generating facilities. The amount of insurance coverage will be \$ min of \$300,000. (The amount must be consistent with the distributed generation tariff adopted by the Utility pursuant to Minnesota Statutes §216B.1611, subdivision 3, clause 2.)
14. The QF and the Utility agree to attempt to resolve all disputes arising hereunder promptly and in a good faith manner.
15. The city council or city-appointed body governing the Utility has authority to consider and determine disputes, if any, that arise under this contract in accordance with procedures in the rules it adopts implementing Minnesota Statute §216B.164, pursuant to §216B.164, subdivision 9.
16. This contract becomes effective as soon as it is signed by the QF and the Utility. This contract will remain in force until either the QF or the Utility gives written notice to the other that the contract is canceled. This contract will be canceled thirty (30) days after notice is given. If the listed electric generating facilities are not interconnected to the Utility's distribution system within twelve months of the

contract being signed by the QF and the Utility, the contract terminates. The QF and the Utility may delay termination by mutual agreement.

17. Neither the QF nor the Utility will be considered in default as to any obligation if the QF or the Utility is prevented from fulfilling the obligation due to an act of God, labor disturbance, act of public enemy, war, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment, an order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities, or other cause beyond the QF's or Utility's control. However, the QF or Utility whose performance under this contract is hindered by such an event shall make all reasonable efforts to perform its obligations.
18. This contract can only be amended or modified by mutual agreement in writing signed by the QF and the Utility.
19. The QF must notify the Utility prior to any change in the electric generating facilities' capacity size or generating technology according to the interconnection process adopted by the Utility.
20. Termination of this contract is allowed (i) by the QF at any time without restriction; (ii) by Mutual Agreement between the Utility and the QF; (iii) upon abandonment or removal of electric generating facilities by the QF; (iv) by the Utility if the electric generating facilities are continuously non-operational for any twelve (12) consecutive month period; (v) by the Utility if the QF fails to comply with applicable interconnection design requirements or fails to remedy a violation of the interconnection process; or (vi) by the Utility upon breach of this contract by the QF unless cured with notice of cure received by the Utility prior to termination.
21. In the event this contract is terminated, the Utility shall have the rights to disconnect its facilities or direct the QF to disconnect its generating facilities.
22. This contract shall continue in effect after termination to the extent necessary to allow either the Utility or the QF to fulfill rights or obligations that arose under the contract.
23. Transfer of ownership of the generating facilities shall require the new owners and the Utility to execute a new contract. Upon the execution of a new contract with the new owners this contract shall be terminated.
24. The QF and the Utility shall at all times indemnify, defend, and save each other harmless from any and all damages, losses, claims, including claims and actions relating to injury or death of any person or damage to property, costs and expenses, reasonable attorneys' fees and court costs, arising out of or resulting from the QF's or the Utility's performance of its obligations under this contract, except to the extent that such damages, losses or claims were caused by the negligence or intentional acts of the QF or the Utility.

- 25. The Utility and the QF will each be responsible for its own acts or omissions and the results thereof to the extent authorized by law and shall not be responsible for the acts or omissions of any others and the results thereof.
- 26. The QF's and the Utility's liability to each other for failure to perform its obligations under this contract shall be limited to the amount of direct damage actually occurred. In no event, shall the QF or the Utility be liable to each other for any punitive, incidental, indirect, special, or consequential damages of any kind whatsoever, including for loss of business opportunity or profits, regardless of whether such damages were foreseen.
- 27. The Utility does not give any warranty, expressed or implied, to the adequacy, safety, or other characteristics of the QF's interconnected system.
- 28. This contract contains all the agreements made between the QF and the Utility. The QF and Utility are not responsible other than those stated in this contract.

THE QF AND THE UTILITY HAVE READ THIS CONTRACT AND AGREE TO BE BOUND BY ITS TERMS. AS EVIDENCE OF THEIR AGREEMENT, THEY HAVE EACH SIGNED THIS CONTRACT BELOW ON THE DATE LISTED BY SIGNER.

QF DocuSigned by:
 By: Jack Siebring
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Printed Name: Jack Siebring

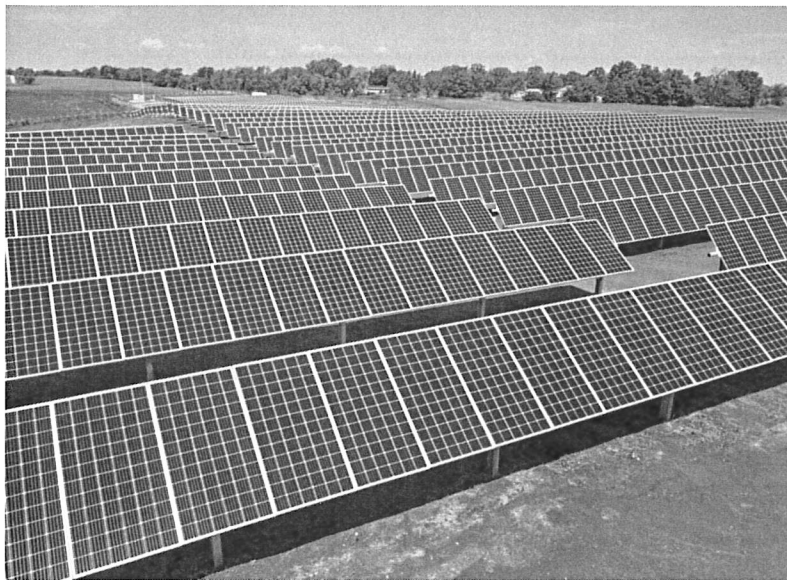
DATE: 7/12/2023 | 9:31 AM PDT

UTILITY
 By: Julie Zarling

Printed Name: Julie Zarling

DATE: 7/13/23

Contract Version: *February 2019*



Fairmont Public Utilities
INTERCONNECTION
AGREEMENT

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i. Contact Information

Contact information for each Party is listed below along with the basic information describing the Distributed Energy Resource (DER) system.

Area EPS Operator Information

Area EPS Operator: Fairmont Public Utilities

Attention: Julie Zarling

Address: 100 Downtown Plaza

Fairmont, MN 56031

Phone: 507-238-9461

Email: julie.zarling@fairmont.org

Interconnection Customer Information

Interconnection Customer: Jack Siebring

Attention: Jack Siebring

Address: 900 Woodland Ave

Fairmont, MN 56031

Phone: 507-236-9528

Email: jack.siebring@gmail.com

DER System Information

Application Number: 2023-0001

Roof mount 25 Jinko 400 Watt modules w/ 13 DS3

Type of DER System: Microinverters

Capacity Rating of System (AC): 8.32 kW

Limited Capacity Rating (AC):

Address of DER System: 900 Woodland Ave

Fairmont, MN 56031

THIS AGREEMENT is made and entered into this 10 day of July 2023 by and between Jack Siebring, (“Interconnection Customer”), and Fairmont Public Utilities, a municipal utility existing under the laws of the State of Minnesota, (“Area EPS Operator”). Interconnection Customer and Area EPS Operator each may be referred to as a “Party,” or collectively as the “Parties.”

In consideration of the mutual covenants set forth herein, the Parties agree as follows:

1 Scope and Limitations of Agreement

- 1.1. This Agreement is intended to provide for the Interconnection Customer to interconnect at the Point of Common Coupling and operate a Distributed Energy Resource with a Nameplate Rating of 10 Megawatts (MW) or less in parallel with the Area EPS at the location identified above and in the Interconnection Application.
- 1.2. This Agreement shall be used for all Interconnection Applications submitted under the Municipal Minnesota Distributed Energy Resources Interconnection Process (M-MIP) except for those Interconnection Applications that qualify and choose for the Uniform Contract to replace the need for this Agreement.
- 1.3. This Agreement governs the terms and conditions under which the Interconnection Customer’s Distributed Energy Resource will interconnect with, and operate in parallel with, the Area EPS Operator’s Distribution System.
- 1.4. Capitalized terms used herein shall have the meanings specified in the Glossary of Terms in Attachment 1, the M-MIP, or the body of this Agreement.
- 1.5. This Agreement does not constitute an agreement to purchase or deliver the Interconnection Customer’s power. The purchase or delivery of power and other services that the Interconnection Customer may require will be covered under separate agreements, if any. The Interconnection Customer will be responsible for separately making all necessary arrangements (including scheduling) for delivery of electricity with the applicable Area EPS Operator.
- 1.6. Nothing in this Agreement is intended to affect any other agreement between the Area EPS Operator and the Interconnection Customer.

2 Responsibilities of the Parties

- 2.1. The Parties shall perform all obligations of this Agreement in accordance with the M-MIP, Minnesota Technical Requirements, all Applicable Laws and Regulations, Operating Requirements, and Good Utility Practice.
- 2.2. The Interconnection Customer shall construct, interconnect, operate and maintain its Distributed Energy Resource and construct, operate, and maintain its Interconnection Facilities in accordance with the applicable manufacturer's recommended maintenance schedule and, in accordance with this Agreement, and with Good Utility Practice.
- 2.3. The Area EPS Operator shall construct, operate, and maintain its Distribution System and its Interconnection Facilities in accordance with this Agreement, and with Good Utility Practice.
- 2.4. The Interconnection Customer agrees to construct its facilities or systems in accordance with the Minnesota Technical Requirements and this Agreement; including, applicable specifications that meet or exceed those provided by the National Electrical Safety Code, the American National Standards Institute, Institute of Electrical and Electronics Engineers (IEEE), Underwriter's Laboratory (UL), and Operating Requirements in effect at the time of construction and other applicable national and state codes and standards. The Interconnection Customer agrees to design, install, maintain, and operate its Distributed Energy Resource so as to reasonably minimize the likelihood of a disturbance adversely affecting or impairing the system or equipment of the Area EPS Operator and any Affected Systems.
- 2.5. Each Party shall operate, maintain, repair, and inspect, and shall be fully responsible for the facilities that it now owns or subsequently owns unless otherwise specified in the Attachments to this Agreement. Each Party shall be responsible for the safe installation, maintenance, repair and condition of their respective lines and appurtenances on their respective sides of the point of common coupling. The Area EPS Operator and the Interconnection Customer, as appropriate, shall provide Interconnection Facilities that adequately protect the Area EPS Operator's Distribution System, personnel, and other persons from damage and injury. The allocation of responsibility for the design, installation, operation, maintenance and ownership of Interconnection Facilities shall be delineated in the Attachments to this Agreement.
- 2.6. The Area EPS Operator shall coordinate with all Affected Systems to support the interconnection.

3 Parallel Operation Obligations

- 3.1. Once the Distributed Energy Resource has been authorized to commence parallel operation, the Interconnection Customer shall abide by all rules and procedures pertaining to the parallel operation of the Distributed Energy Resource in the applicable control area, including, but not limited to; 1) the rules and procedures concerning the operation of generation set forth by the applicable system operator(s) for the Area EPS Operator's Distribution System provided or referenced in an attachment to this Agreement and; 2) the Operating Requirements set forth in Attachment 5 of this Agreement. The Minnesota Technical Requirements for interconnection are covered in a separate document, a copy of which has been made available to the Interconnection Customer and incorporated and made part of this Agreement by this reference.

4 Metering

- 4.1. As described in M-MIP Overview Process Section 9.1, the Interconnection Customer shall be responsible for the Area EPS Operator's reasonable and necessary cost for the purchase, installation, operation, maintenance, testing, repair, and replacement of metering and data acquisition equipment specified in Attachments 2 and 3 of this Agreement. The Interconnection Customer's metering (and data acquisition, as required) equipment shall conform to applicable industry rules and Operating Requirements.

5 Distributed Energy Resource Capabilities and Grid Reliability

- 5.1. The Minnesota Technical Requirements outlines the Parties responsibilities consistent with IEEE 1547 Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces which provides requirements relevant to the interconnection and interoperability performance, operation and testing, and, to safety, maintenance and security considerations.
- 5.2. The Area EPS Operator may offer the Interconnection Customer the option to utilize required DER capabilities to mitigate Interconnection Customer costs related to Upgrades or Interconnection Facilities to address anticipated system impacts from the engineering review (i.e. Initial Review, Supplemental Review, or Study Process described in the M-MIP.)

6 Equipment Testing and Inspection

- 6.1. As described in M-MIP Overview Process Section 9.3, the Interconnection Customer shall test and inspect its Distributed Energy Resource and Interconnection Facilities prior to interconnection pursuant to Minnesota Technical Requirements and this Agreement.

7 Authorization Required Prior to Parallel Operation

- 7.1. As described in M-MIP Overview Process Section 9.5, the Area EPS Operator shall use Reasonable Efforts to list applicable parallel operation requirements by attaching the Minnesota Technical Requirements and/or including them in Attachment 5 to this Agreement. Additionally, the Area EPS Operator shall notify the Interconnection Customer of any changes to these requirements as soon as they are known. Pursuant to the M-MIP Overview Process Section 8.5, the Interconnection Customer shall not operate its Distributed Energy Resource in parallel with the Area EPS Operator's Distribution System without prior written authorization of the Area EPS Operator.

8 Right of Access

- 8.1. Upon reasonable notice, the Area EPS Operator may send a qualified person to the premises of the Interconnection Customer at or immediately before the time the Distributed Energy Resource first produces energy to inspect the interconnection, and observe the commissioning of the Distributed Energy Resource (including any required testing), startup, and operation for a period of up to three (3) Business Days after initial start-up of the unit. In addition, the Interconnection Customer shall notify the Area EPS Operator at least five (5) Business Days prior to conducting any on-site verification testing of the Distributed Energy Resource.
- 8.2. Following the initial inspection process described above, at reasonable hours, and upon reasonable notice, or at any time without notice in the event of an emergency or hazardous condition, the Area EPS Operator shall have access to the Interconnection Customer's premises for any reasonable purpose in connection with the performance of the obligations imposed on it by this Agreement or if necessary to meet its legal obligation to provide service to its customers.
- 8.3. Each Party shall be responsible for its costs associated with the interconnection of the DER system as outlined in M-MIP Overview Process Section 9.3 and the Minnesota Technical Requirements.

9 Effective Date

9.1 This Agreement shall become effective upon execution by the Parties.

10 Term of Agreement

10.1. This Agreement shall become effective on the Effective Date and shall remain in effect from the Effective Date unless terminated earlier in accordance with Section 11 of this Agreement.

11 Termination

11.1. No termination shall become effective until the Parties have complied with all Applicable Laws and Regulations applicable to such termination.

11.2. The Interconnection Customer may terminate this Agreement at any time by giving the Area EPS Operator twenty (20) Business Days written notice.

11.3. The Area EPS Operator may terminate this Agreement if the listed electric generating facilities are not interconnected to the Area EPS Operator's distribution system within thirty-six (36) months of this Agreement signed by the Parties. The Parties may choose to delay termination by mutual agreement.

11.4. Either Party may terminate this Agreement after Default pursuant to Section 3.

11.5. Upon termination of this Agreement, the Distributed Energy Resource will be disconnected from the Area EPS Operator's Distribution System. All costs required to effectuate such disconnection shall be borne by the terminating Party, unless such termination resulted from the non-terminating Party's Default of this Agreement or such non-terminating Party otherwise is responsible for these costs under this Agreement.

11.6. The termination of this Agreement shall not relieve either Party of its liabilities and obligations, owed or continuing at the time of the termination.

11.7. The provisions of this article shall survive termination or expiration of this Agreement.

12 Temporary Disconnection

12.1. Temporary disconnection shall continue only for so long as reasonably necessary under Good Utility Practice.

- 12.2. Emergency Conditions. Under emergency conditions, the Area EPS Operator may immediately suspend interconnection service and temporarily disconnect the Distributed Energy Resource. The Area EPS Operator shall use Reasonable Efforts to notify the Interconnection Customer promptly when it becomes aware of an Emergency Condition that may reasonably be expected to affect the Interconnection Customer's operation of the Distributed Energy Resource. The Interconnection Customer shall use Reasonable Efforts to notify the Area EPS Operator promptly when it becomes aware of an Emergency Condition that may reasonably be expected to affect the Area EPS Operator's Distribution System or any Affected Systems. To the extent information is known, the notification shall describe the Emergency Condition, the extent of the damage or deficiency, the expected effect on the operation of both Parties' facilities and operations, its anticipated duration, and the necessary corrective action.
- 12.3. Temporary Interruption. The Area EPS Operator may interrupt interconnection service or curtail the output of the Distributed Energy Resource and temporarily disconnect the Distributed Energy Resource from the Area EPS Operator's Distribution System when necessary for routine maintenance, construction, or repairs on the Area EPS Operator's Distribution System. The Area EPS Operator shall use Reasonable Efforts to provide the Interconnection Customer with three (3) Business Days' notice prior to such interruption. The Area EPS Operator shall use Reasonable Efforts to coordinate such reduction or temporary disconnection with the Interconnection Customer.
- 12.4. Forced Outage. During any forced outage, the Area EPS Operator may suspend interconnection service to effect immediate repairs on the Area EPS Operator's Distribution System. The Area EPS Operator shall use Reasonable Efforts to provide the Interconnection Customer with prior notice. If prior notice is not given, the Area EPS Operator shall, upon request, provide the Interconnection Customer written documentation after the fact explaining the circumstances of the disconnection.
- 12.5. Adverse Operating Effects. The Area EPS Operator shall notify the Interconnection Customer as soon as practicable if, based on Good Utility Practice, operation of the Distributed Energy Resource may cause disruption or deterioration of service to other customers served from the same electric system, or if operating the Distributed Energy Resource could cause damage to the Area EPS Operator's Distribution System or Affected Systems. Supporting documentation used to reach the decision to disconnect shall be provided to the Interconnection Customer upon request. If, after notice, the Interconnection Customer fails to remedy the adverse operating effect within a reasonable time, the Area EPS Operator may disconnect the Distributed Energy Resource. The Area EPS Operator shall provide the Interconnection Customer

with five Business Day notice of such disconnection, unless the provisions of Section 12.2 apply.

- 12.6. Modification of the Distributed Energy Resource. The Interconnection Customer must receive written authorization from the Area EPS Operator before making any change to the Distributed Energy Resource that may have a material impact on the safety or reliability of the Distribution System. Such authorization shall not be unreasonably withheld if the modification is not a Material Modification. Material Modifications, including an increase Nameplate Rating or capacity, may require the Interconnection Customer to submit a new Interconnection Application as described in the M-MIP Overview Process Section 7. If the Interconnection Customer makes such modification without the Area EPS Operator's prior written authorization, the latter shall have the right to temporarily disconnect the Distributed Energy Resource.
- 12.7. Reconnection. The Parties shall cooperate with each other to restore the Distributed Energy Resource, Interconnection Facilities, and the Area EPS Operator's Distribution System to their normal operating state as soon as reasonably practicable following a temporary disconnection.
- 12.8. Treatment Similar to Other Retail Customers. If the Interconnection Customer receives retail electrical service at the same site as the Distributed Energy Resource, it may also be disconnected consistent with the rules and practices for disconnecting other retail electrical customer.
- 12.9. Disconnection for Default. If the Interconnection Customer is in Default of this Agreement, it may be disconnected after a sixty (60) day written notice is provided and the Default is not cured during this sixty (60) day notice. This provision does not apply to disconnection based on Sections 12.2, 12.3, 12.4 or 12.5 of this Agreement.

13 Cost Responsibility for Interconnection Facilities and Distribution Upgrades

- 13.1 Interconnection Facilities. The Interconnection Customer shall pay for the cost of the Interconnection Facilities itemized in Attachment 2 of this Agreement. The Area EPS Operator shall provide a good faith estimate cost, including overheads, for the purchase and construction of its Interconnection Facilities and provide a detailed itemization of such costs. Costs associated with Interconnection Facilities may be shared with other entities that may benefit from such facilities by agreement of the Interconnection Customer, such other entities, and the Area EPS Operator.

- 13.2 The Interconnection Customer shall be responsible for its share of all reasonable expenses, including overheads, associated with (1) owning, operating, maintaining, repairing, and replacing its own Interconnection Facilities, and (2) operating, maintaining, repairing, and replacing the Area EPS Operator's Interconnection Facilities.
- 13.3 Distribution Upgrades. The Area EPS Operator shall design, procure, construct, install, and own the Distribution Upgrades described in Attachment 6 of this Agreement. The Area EPS Operator shall provide a good faith estimate cost, including overheads, for the purchase and construction of the Distribution Upgrades and provide a detailed itemization of such costs. If the Area EPS Operator and the Interconnection Customer agree, the Interconnection Customer may construct Distribution Upgrades that are located on land owned by the Interconnection Customer. The actual cost of the Distribution Upgrades, including overheads, shall be directly assigned to the Interconnection Customer.

14 Cost Responsibility for Network Upgrades

- 14.1. Applicability. No portion of Section 14 shall apply unless the interconnection of the Distributed Energy Resource requires Network Upgrades.
- 14.2. Network Upgrades. The Area EPS Operator or the Transmission Owner shall design, procure, construct, install, and own the Network Upgrades described in Attachment 6 of this Agreement. The Area EPS Operator shall provide a good faith estimate cost, including overheads, for the purchase and construction of the Network Upgrades and provide a detailed itemization of such costs. If the Area EPS Operator and the Interconnection Customer agree, the Interconnection Customer may construct Network Upgrades that are located on land owned by the Interconnection Customer. Unless the Area EPS Operator elects to pay for Network Upgrades, the actual cost of the Network Upgrades, including overheads, shall be borne initially by the Interconnection Customer.
- 14.3. Repayment of Amounts Advanced for Network Upgrades. The Interconnection Customer shall be entitled to a cash repayment, equal to the total amount paid to the Area EPS Operator and Affected System operator, if any, for Network Upgrades, including any tax gross-up or other tax-related payments associated with the Network Upgrades, and not otherwise refunded to the Interconnection Customer, to be paid to the Interconnection Customer on a dollar-for-dollar basis for the non-usage sensitive portion of transmission charges, as payments are made under the Area EPS Operator's Tariff and Affected System's Tariff for transmission services with respect to the Distributed Energy Resource. Any repayment shall include interest

calculated in accordance with the methodology set forth in Federal Energy Regulatory Commission's (FERC's) regulations at 18 C.F.R. § 35.19a(a)(2)(iii) from the date of any payment for Network Upgrades through the date on which the Interconnection Customer receives a repayment of such payment pursuant to this subparagraph. The Interconnection Customer may assign such repayment rights to any person.

- 14.4. Notwithstanding the foregoing, the Interconnection Customer, the Area EPS Operator, and any applicable Affected System operators may adopt any alternative payment schedule that is mutually agreeable so long as the Area EPS Operator and said Affected System operators take one of the following actions no later than five years from the Commercial Operation Date: (1) return to the Interconnection Customer any amounts advanced for Network Upgrades not previously repaid, or (2) declare in writing that the Area EPS Operator or any applicable Affected System operators will continue to provide payments to the Interconnection Customer on a dollar-for-dollar basis for the non-usage sensitive portion of transmission charges, or develop an alternative schedule that is mutually agreeable and provides for the return of all amounts advanced for Network Upgrades not previously repaid; however, full reimbursement shall not extend beyond 20 years from the commercial operation date.
- 14.5. If the Distributed Energy Resource fails to achieve commercial operation, but it or another Distributed Energy Resource is later constructed and requires use of the Network Upgrades, the Area EPS Operator and Affected System operator shall at that time reimburse the Interconnection Customer for the amounts advanced for the Network Upgrades. Before any such reimbursement can occur, the Interconnection Customer, or the entity that ultimately constructs the Distributed Energy Resource, if different, is responsible for identifying the entity to which reimbursement must be made.
- 14.6. Special Provisions for Affected Systems. Unless the Area EPS Operator provides, under this Agreement, for the repayment of amounts advanced to any applicable Affected System operators for Network Upgrades, the Interconnection Customer and Affected System operator shall enter into an agreement that provides for such repayment. The agreement shall specify the terms governing payments to be made by the Interconnection Customer to Affected System operator as well as the repayment by Affected System Operator.
- 14.7. Rights Under Other Agreements. Notwithstanding any other provision of this Agreement, nothing herein shall be construed as relinquishing or foreclosing any rights, including but not limited to firm transmission rights, capacity rights, transmission congestion rights, or transmission credits, that the Interconnection

Customer shall be entitled to, now or in the future, under any other agreement or tariff as a result of, or otherwise associated with, the transmission capacity, if any, created by the Network Upgrades, including the right to obtain cash reimbursements or transmission credits for transmission service that is not associated with the Distributed Energy Resource.

15 Billing, Payment, Milestones, and Financial Security

15.1. Billing and Payment Procedures and Final Accounting. The Area EPS Operator shall bill the Interconnection Customer for the design, engineering, construction, and procurement costs of Interconnection Facilities and Upgrades contemplated by this Agreement, and the Interconnection Customer shall pay each bill, pursuant to the M-MIP Interconnection Process documents, or as otherwise agreed to by the Parties.

15.2. Within 80 Business Days (approximately 4 calendar months) of completing the construction and installation of the Area EPS Operator's Interconnection Facilities and/or Upgrades described in the Attachments to this Agreement, the Area EPS Operator shall provide the Interconnection Customer with a final accounting report, as described in the M-MIP Fast Track Process Section 9.4.3 and the Study Process Section 11.4.3.

15.3. Milestones. Pursuant to the M-MIP Fast Track Process Section 9.1 and the Study Process Section 11.1, the Parties shall agree on milestones for which each Party is responsible and list them in Attachment 4 of this Agreement.

15.4. Financial Security Arrangements. Pursuant to the M-MIP Fast Track Process Section 9.5 and the Study Process Section 11.5, the Interconnection Customer shall provide the Area EPS Operator, at the Interconnection Customer's option, a guarantee, letter of credit or other form of security that is reasonably acceptable to the Area EPS Operator and is consistent with the Minnesota Uniform Commercial Code. Such security for payment shall be in an amount sufficient to cover the costs for constructing, designing, procuring, and installing the applicable portion of the Area EPS Operator's Interconnection Facilities and Upgrades and shall be reduced on a dollar-for-dollar basis for payments made to the Area EPS Operator under this Agreement during its term. In addition:

15.4.1. The guarantee must be made by an entity that meets the creditworthiness requirements of the Area EPS Operator, and contain terms and conditions that guarantee payment of any amount that may be due from the Interconnection Customer, up to an agreed-to maximum amount.

- 15.4.2. The letter of credit must be issued by a financial institution or insurer reasonably acceptable to the Area EPS Operator and must specify a reasonable expiration not sooner than sixty (60) Business Days (three calendar months) after the due date for the issuance of the final bill.

16 Assignment, Force Majeure, Consequential Damages, and Default

- 16.1. This Agreement may be assigned by either Party upon 15 Business Days prior written notice and opportunity to object by the other Party; provided that:

- 16.1.1. Either Party may assign this Agreement without the consent of the other Party to any affiliate of the assigning Party with an equal or greater credit rating and with the legal authority and operational ability to satisfy the obligations of the assigning Party under this Agreement, provided that the Interconnection Customer promptly notifies the Area EPS Operator of any such assignment.

- 16.1.2. Interconnection Customer shall have the right to assign this Agreement, without the consent of the Area EPS Operator, for collateral security purposes to aid in providing financing for the Distributed Energy Resource, provided that the Interconnection Customer will promptly notify the Area EPS Operator of any such assignment.

- 16.1.3. Any attempted assignment that violates this article is void and ineffective. Assignment shall not relieve a Party of its obligations, nor shall a Party's obligations be enlarged, in whole or in part, by reason thereof. An assignee is responsible for meeting the same financial, credit, and insurance obligations as the Interconnection Customer. Where required, consent to assignment will not be unreasonably withheld, conditioned or delayed.

17 Limitations of Liability

- 17.1. Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages, except as authorized by this Agreement.

18 Non-Warranty

18.1. The Area EPS Operator does not give any warranty, expressed or implied, as to the adequacy, safety, or other characteristics of any structures, equipment, wires, appliances or devices owned, installed or maintained by the Interconnection Customer, including without limitation the Distributed Energy Resource and any structures, equipment, wires, appliances or devices not owned, operated or maintained by the Area EPS Operator.

19 Indemnity

19.1. This provision protects each Party from liability incurred to third parties as a result of carrying out the provisions of this Agreement. Liability under this provision is exempt from the general limitations on liability found in Section 17.

19.2. The Parties shall at all times indemnify, defend, and hold the other Party harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the other Party's action or failure to meet its obligations under this Agreement on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the indemnified Party.

19.3. If an indemnified person is entitled to indemnification under this article as a result of a claim by a third party, and the indemnifying Party fails, after notice and reasonable opportunity to proceed under this article, to assume the defense of such claim, such indemnified person may at the expense of the indemnifying Party contest, settle or consent to the entry of any judgment with respect to, or pay in full, such claim.

19.4. If an indemnifying party is obligated to indemnify and hold any indemnified person harmless under this article, the amount owing to the indemnified person shall be the amount of such indemnified person's actual loss, net of any insurance or other recovery.

19.5. Promptly after receipt by an indemnified person of any claim or notice of the commencement of any action or administrative or legal proceeding or investigation as to which the indemnity provided for in this article may apply, the indemnified person shall notify the indemnifying party of such fact. Any failure of or delay in such notification shall not affect a Party's indemnification obligation unless such failure or delay is materially prejudicial to the indemnifying party.

- 19.6. This indemnification obligation shall apply notwithstanding any negligent or intentional acts, errors or omissions of the Indemnified Party, but the Indemnifying Party's liability to indemnify the Indemnifying Party shall be reduced in proportion to the percentage by which the Indemnified Party's negligent or intentional acts, errors or omissions caused damaged.
- 19.7. Neither Party shall be indemnified for its damages resulting from its sole negligence, intentional acts or willful misconduct. These indemnity provisions shall not be construed to relieve any insurer of its obligation to pay claims consistent with the provisions of a valid insurance policy.

20 Consequential Damages

- 20.1. Other than as expressly provided for in this Agreement, neither Party shall be liable under any provision of this Agreement for any losses, damages, costs or expenses for any special, indirect, incidental, consequential, or punitive damages, including but not limited to loss of profit or revenue, loss of the use of equipment, cost of capital, cost of temporary equipment or services, whether based in whole or in part in contract, in tort, including negligence, strict liability, or any other theory of liability; provided, however, that damages for which a Party may be liable to the other Party under another agreement will not be considered to be special, indirect, incidental, or consequential damages hereunder.

21 Force Majeure

- 21.1. If a Force Majeure Event prevents a Party from fulfilling any obligations under this Agreement, the Party affected by the Force Majeure Event (Affected Party) shall promptly notify the other Party, either in writing or via the telephone, of the existence of the Force Majeure Event. The notification must specify in reasonable detail the circumstances of the Force Majeure Event, its expected duration, and the steps that the Affected Party is taking to mitigate the effects of the event on its performance. The Affected Party shall keep the other Party informed on a continuing basis of developments relating to the Force Majeure Event until the event ends. The Affected Party will be entitled to suspend or modify its performance of obligations under this Agreement (other than the obligation to make payments) only to the extent that the effect of the Force Majeure Event cannot be mitigated by the use of Reasonable Efforts. The Affected Party will use Reasonable Efforts to resume its performance as soon as possible.

22 Default

- 22.1. No Default shall exist where such failure to discharge an obligation (other than the payment of money) is the result of a Force Majeure Event as defined in this Agreement or the result of an act or omission of the other Party. Upon a Default, the non-defaulting Party shall give written notice of such Default to the defaulting Party. Except as provided in Section 21, the defaulting Party shall have sixty (60) calendar days from receipt of the Default notice within which to cure such Default; provided however, if such Default is not capable of cure within sixty (60) calendar days, the defaulting Party shall commence such cure within twenty (20) calendar days after notice and continuously and diligently complete such cure within six (6) months from receipt of the Default notice; and, if cured within such time, the Default specified in such notice shall cease to exist.
- 22.2. If a Default is not cured as provided in this article, or if a Default is not capable of being cured within the period provided for herein, the non-defaulting Party shall have the right to terminate this Agreement by written notice at any time until cure occurs, and be relieved of any further obligation hereunder and, whether or not that Party terminates this Agreement, to recover from the defaulting Party all amounts due hereunder, plus all other damages and remedies to which it is entitled at law or in equity. The provisions of this article will survive termination of this Agreement.

23 Insurance

- 23.1. An Area EPS Operator may only require an Interconnection Customer to purchase insurance covering damages pursuant to the applicable M-MIP process document in which the distributed energy resource falls under.
- 23.2. The Area EPS Operator agrees to maintain general liability insurance or self-insurance consistent with the Area EPS Operator's commercial practice. Such insurance or self-insurance shall not exclude coverage for the Area EPS Operator's liabilities undertaken pursuant to this Agreement.
- 23.3. The Parties further agree to notify each other whenever an accident or incident occurs resulting in any injuries or damages that are included within the scope of coverage of such insurance, whether or not such coverage is sought.
- 23.4. Failure of the Interconnection Customer or Area EPS Operator to enforce the minimum levels of insurance does not relieve the Interconnection Customer from maintaining such levels of insurance or relieve the Interconnection Customer of any liability.

24 Confidentiality

- 24.1. Confidential Information shall mean any confidential and/or proprietary information provided by one Party to the other Party that is clearly marked or otherwise designated "Confidential." For purposes of this Agreement, design, operating specifications, and metering data provided by the Interconnection Customer may be deemed Confidential Information regardless of whether it is clearly marked or otherwise designated as such. If requested by either Party, the other Party shall provide in writing the basis for asserting that the information warrants confidential treatment. Parties providing a Governmental Authority trade secret, privileged or otherwise not public data under Minnesota Government Data Privacy Act, Minnesota Statutes Chapter 13, must provide information consistent with the Commission's September 1, 1999 Revised Procedures for Handling Trade Secret and Privileged Data.
- 24.2. Confidential Information does not include information previously in the public domain with proper authorization, required to be publicly submitted or divulged by Governmental Authorities (after notice to the other Party and after exhausting any opportunity to oppose such publication or release), or necessary to be publicly divulged in an action to enforce this Agreement. Each Party receiving Confidential Information shall hold such information in confidence and shall not disclose it to any third party nor to the public without the prior written authorization from the Party providing that information, except to fulfill obligations under this Agreement, or to fulfill legal or regulatory requirements that could not otherwise be fulfilled by not making the information public.
- 24.3. Each Party shall hold in confidence and shall not disclose Confidential Information, to any person (except employees, officers, representatives and agents, who agree to be bound by this section). Confidential Information shall be clearly marked as such on each page or otherwise affirmatively identified. If a court, government agency or entity with the right, power, and authority to do so, requests or requires either Party, by subpoena, oral disposition, interrogatories, requests for production of documents, administrative order, or otherwise, to disclose Confidential Information, that Party shall provide the other Party with prompt notice of such request(s) or requirements(s) so that the other Party may seek an appropriate protective order or waive compliance with the terms of this Agreement. In the absence of a protective order or waiver the Party shall disclose such confidential information which, in the opinion of its counsel, the party is legally compelled to disclose. Each Party will use reasonable efforts to obtain reliable assurance that confidential treatment will be accorded any confidential information so furnished.

- 24.4. Critical infrastructure information or information that is deemed or otherwise designated by a Party as Critical Energy/Electric Infrastructure Information (CEII) pursuant to FERC regulation 18 C.F.R. §388.133, as may be amended from time to time, may be subject to further protections for disclosure as required by FERC or FERC regulations or orders and the disclosing Party's CEII policies.
- 24.5. Each Party shall employ at least the same standard of care to protect Confidential Information obtained from the other Party as it employs to protect its own Confidential Information.
- 24.6. Each Party is entitled to equitable relief, by injunction or otherwise, to enforce its rights under this provision to prevent the release of Confidential Information without bond or proof of damages, and may seek other remedies available at law or in equity for breach of this provision.

25 Disputes

The Parties agree in a good faith effort to attempt to resolve all disputes arising out of the interconnection process and associated study and Interconnection Agreements. The Parties agree to follow the established dispute resolution policy adopted by the Area EPS Operator.

26 Taxes

- 26.1. The Parties agree to follow all applicable tax laws and regulations, consistent with Internal Revenue Service and any other relevant local, state and federal requirements.
- 26.2. Each Party shall cooperate with the other to maintain the other Party's tax status. It is incumbent on the Party seeking to maintain its tax status to provide formal written notice to the other Party detailing what exact cooperation it is seeking from the other Party well prior to any deadlines by which any such action would need to be taken. Nothing in this Agreement is intended to adversely affect, if applicable, the Area EPS Operator's tax-exempt status with respect to the issuance of bonds including, but not limited to, local furnishing bonds.

27 Miscellaneous

- 27.1. Governing Law, Regulatory Authority, and Rules. The validity, interpretation and enforcement of this Agreement and each of its provisions shall be governed by the Area EPS Operator's board of directors and the laws of the state of Minnesota, without regard to its conflicts of law principles. This Agreement is subject to all

Applicable Laws and Regulations. Each Party expressly reserves the right to seek changes in, appeal, or otherwise contest any laws, orders, or regulations of a Governmental Authority.

- 27.2. Amendment. The Parties may amend this Agreement by a written instrument duly executed by both Parties, or under Section 27.12 of this Agreement.
- 27.3. No Third-Party Beneficiaries. This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and where permitted, their assigns.
- 27.4. Waiver. The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered a waiver of any obligation, right, or duty of, or imposed upon, such Party. Any waiver at any time by either Party of its rights with respect to this Agreement shall not be deemed a continuing waiver or a waiver with respect to any other failure to comply with any other obligation, right, duty of this Agreement. Termination or default of this Agreement for any reason by Interconnection Customer shall not constitute a waiver of the Interconnection Customer's legal rights to obtain an interconnection from the Area EPS Operator. Any waiver of this Agreement shall, if requested, be provided in writing.
- 27.5. Entire Agreement. This Agreement, including all Attachments, constitutes the entire agreement between the Parties with reference to the subject matter hereof, and supersedes all prior and contemporaneous understandings or agreements, oral or written, between the Parties with respect to the subject matter of this Agreement. There are no other agreements, representations, warranties, or covenants which constitute any part of the consideration for, or any condition to, either Party's compliance with its obligations under this Agreement. This Agreement can only be amended or modified in writing signed by both Parties.
- 27.6. Multiple Counterparts. This Agreement may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument. Electronic signatures are acceptable if the Area EPS Operator has made such a determination pursuant to M-MIP Overview Process Section 4.1.
- 27.7. No Partnership. This Agreement shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership between the Parties or to impose any partnership obligation or partnership liability upon either Party.

Neither Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

27.8. Severability. If any provision or portion of this Agreement shall for any reason be held or adjudged to be invalid or illegal or unenforceable by any court of competent jurisdiction or other Governmental Authority, (1) such portion or provision shall be deemed separate and independent, (2) the Parties shall negotiate in good faith to restore insofar as practicable the benefits to each Party that were affected by such ruling, and (3) the remainder of this Agreement shall remain in full force and effect.

27.9. Security Arrangements. Infrastructure security of electric system equipment and operations and control hardware and software is essential to ensure day-to-day reliability and operational security. All public utilities are expected to meet basic standards for system infrastructure and operational security, including physical, operational, and cyber-security practices.

27.10. Environmental Releases. Each Party shall notify the other Party, first orally and then in writing, of the release of any hazardous substances, any asbestos or lead abatement activities, or any type of remediation activities related to the Distributed Energy Resource or the Interconnection Facilities, each of which may reasonably be expected to affect the other Party. The notifying Party shall (1) provide the notice as soon as practicable, provided such Party makes a good faith effort to provide the notice no later than 24 hours after such Party becomes aware of the occurrence, and (2) promptly furnish to the other Party copies of any publicly available reports filed with any governmental authorities addressing such events.

27.11. Subcontractors. Nothing in this Agreement shall prevent a Party from utilizing the services of any subcontractor as it deems appropriate to perform its obligations under this Agreement. Each Party shall require its subcontractors to comply with all applicable terms and conditions of this Agreement in providing such services and each Party shall remain primarily liable to the other Party for the performance of such subcontractor.

27.11.1. The creation of any subcontract relationship shall not relieve the hiring Party of any of its obligations under this Agreement. The hiring Party shall be fully responsible to the other Party for the acts or omissions of any subcontractor the hiring Party hires as if no subcontract had been made. In no event shall the Area EPS Operator be liable for the actions or inactions of the Interconnection Customer or its subcontractors with respect to obligations of the Interconnection Customer under this

Agreement. Any applicable obligation imposed by this Agreement upon the hiring Party shall be equally binding upon, and shall be construed as having application to, any subcontractor of such Party.

27.11.2. The obligations under this article will not be limited in any way by any limitation of subcontractor's insurance.

27.12. Inclusion of Area EPS Operator Tariff and Rules. The interconnection services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the rate schedules and rules applicable to the electric service provided by the Area EPS Operator, which rate schedules and rules are hereby incorporated into this Agreement by this reference.

28 Notices

28.1. General. Unless otherwise provided in this Agreement, any written notice, demand, or request required or authorized in connection with this Agreement ("Notice") shall be deemed properly given if delivered in person, delivered by recognized national courier service, or sent by first class mail, postage prepaid, to the person specified as follows:

Area EPS Operator Information

Area EPS Operator: Fairmont Public Utilities

Attention: Julie Zarling

Address: 100 Downtown Plaza

Fairmont, MN 56031

Phone: 507-238-9461

Email: julie.zarling@fairmont.org

Interconnection Customer Information

Interconnection Customer: Jack Siebring

Attention: Jack Siebring

Address: 900 Woodland Ave

Fairmont, MN 56031

Phone: 507-236-9528

Email: Jack.siebring@gmail.com

28.2. Billing and Payment. Billing and payments shall be sent to the addresses set out below:

Area EPS Operator Information

Area EPS Operator: Fairmont Public Utilities

Attention: Julie Zarling

Address: 100 Downtown Plaza

Fairmont, MN 56031

Phone: 507-238-9461

Email: julie.zarling@fairmont.org

Interconnection Customer Information

Interconnection Customer: Jack Siebring
Attention: Jack Siebring
Address: 900 Woodland Ave
Fairmont, MN 56031
Phone: 507-236-9528
Email:

28.3. Alternative Forms of Notice. Any notice or request required or permitted to be given by either Party to the other and not required by this Agreement to be given in writing may be so given by telephone or e mail to the telephone numbers and e-mail addresses set out below:

Area EPS Operator Information

Area EPS Operator: Fairmont Public Utilities
Attention: Julie Zarling
Address: 100 Downtown Plaza
Fairmont, MN 56031
Phone: 507-238-9461
Email: julie.zarling@fairmont.org

Interconnection Customer Information

Interconnection Customer:
Attention:
Address:
Phone:
Email:

28.4. Designated Operating Representative. The Parties may also designate operating representatives to conduct the communications which may be necessary or convenient for the administration of this Agreement. This person will also serve as the point of contact with respect to operations and maintenance of the Party's facilities.

Area EPS Operator Information

Area EPS Operator: Fairmont Public Utilities

Attention: Julie Zarling

Address: 100 Downtown Plaza

Fairmont, MN 56031

Phone: 507-238-9461

Email: julie.zarling@fairmont.org

Interconnection Customer Information

Interconnection Customer:

Attention:

Address:

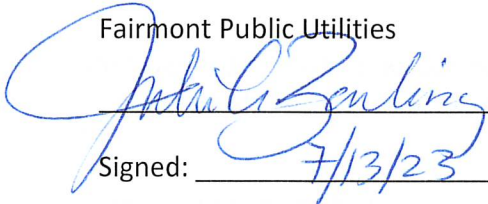
Phone:

Email:

28.5. Changes to Notification. Either Party may change this information by giving five Business Days written notice to the other Party prior to the effective date of the change.

31 Signatures

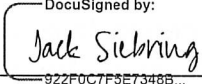
IN WITNESS THEREOF, the Parties have caused this Agreement to be duly executed by their duly authorized officers or agents on the day and year first above written.

Fairmont Public Utilities

Signed: 7/13/23

Name (Printed):

Julie Zarling

Title: Assistant Finance Director

Jack Siebring
DocuSigned by:

Signed: 7/12/2023 | 9:26 AM PDT

Name (Printed):

Jack Siebring

Title: Owner

Attachment I: Glossary of Terms

Affected System – Another Area EPS Operator’s System, Transmission Owner’s Transmission System, or Transmission System connected generation which may be affected by the proposed interconnection.

Applicant Agent – A person designated in writing by the Interconnection Customer to represent or provide information to the Area EPS on the Interconnection Customer’s behalf throughout the interconnection process.

Area EPS – The electric power distribution system connected at the Point of Common Coupling.

Area EPS Operator – An entity that owns, controls, or operates the electric power distribution systems that are used for the provision of electric service in Minnesota. For this Interconnection Process the Area EPS Operator is Fairmont Public Utilities

Business Day – Monday through Friday, excluding Holidays as defined by Minn. Stat. §645.44, Subdivision 5. Any communication to have been sent or received after 4:30 p.m. Central Prevailing Time or on a Saturday, Sunday or holiday shall be considered to have been sent on the next Business Day.

Certified Equipment – Certified equipment is equipment that has been tested by a national recognized lab meeting a specific standard. For DER systems, UL 1741 listing is a common form of DER inverter certification. Additional information is seen in the Certification Codes and Standards document.

Confidential Information – Any confidential and/or proprietary information provided by one Party to the other Party and is clearly marked or otherwise designated “Confidential.” All procedures, design, operating specifications, and metering data provided by the Interconnection Customer may be deemed Confidential Information. See Overview Process Section 12.1 for further information.

Distributed Energy Resource (DER) – A source of electric power that is not directly connected to a bulk power system or central station service. DER includes both generators and energy storage technologies capable of exporting active power to an EPS. An interconnection system or a supplemental DER device that is necessary for compliance with this standard is part of a DER. For the purpose of the Interconnection Process and interconnection agreements, the DER includes the Customer’s Interconnection Facilities but shall not include the Area EPS Operator’s Interconnection Facilities.

Distribution System – The Area EPS facilities which are not part of the Local EPS, Transmission System or any generation system.

Distribution Upgrades – The additions, modifications, and upgrades to the Distribution System at or beyond the Point of Common Coupling to facilitate interconnection of the DER and render the distribution service necessary to affect the Interconnection Customer’s connection to the Distribution System. Distribution Upgrades do not include Interconnection Facilities.

Electric Power System (EPS) – The facilities that deliver electric power to a load.

Fast Track Process – The procedure as described in the Interconnection Process - Fast Track Process for evaluating an Interconnection Application for a DER that meets the eligibility requirements in the Overview Process Section 2.3.

Force Majeure Event – An act of God, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment, an order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities, or another cause beyond a Party’s control. A Force Majeure Event does not include an act of negligence or intentional wrongdoing.

Good Utility Practice – Any of the practices, methods and acts engaged in or approved by a significant portion of the electric industry during the relevant time period, or any of the practices, methods and act which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. Good Utility Practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region.

Governmental Authority – Any federal, state, local or other governmental regulatory or administrative agency, court, commission, department, board, or other governmental subdivision, legislature, rulemaking board, tribunal, or other governmental authority having jurisdiction over the Parties, their respective facilities, or the respective services they provide, and exercising or entitled to exercise any administrative, executive, police, or taxing authority or power; provided, however, that such term does not include the Interconnection Customer, the Area EPS Operator, or any Affiliate thereof. The utility’s local governing body is the authority governing interconnection requirements unless otherwise provided for in the Minnesota Technical Requirements.

Interconnection Agreement – The terms and conditions between the Area EPS Operator and Interconnection Customer (Parties). See Section 8 in the Overview Process **Error! Reference source not found.** for when the Uniform Contract or Interconnection Agreement applies.

Interconnection Application – The Interconnection Customer’s request to interconnect a new or modified, as described in Section 4 of the Overview Process, DER. See Simplified Application Form and Interconnection Application Form.

Interconnection Customer – The person or entity, including the Area EPS Operator, whom will be the owner of the DER that proposes to interconnect a DER(s) with the Area EPS Operator’s Distribution System. The Interconnection Customer is responsible for ensuring the DER(s) is designed, operated and maintained in compliance with the Minnesota Technical Requirements.

Interconnection Facilities – The Area EPS Operator’s Interconnection Facilities and the Interconnection Customer’s Interconnection Facilities. Collectively, Interconnection Facilities include all facilities and equipment between the DER and the Point of Common Coupling, including any modification, additions or upgrades that are necessary to physically and electrically interconnect the DER to the Area EPS Operator’s System. Some examples of Customer Interconnection Facilities include: supplemental DER devices, inverters, and associated wiring and cables up to the Point of DER Connection. Some examples of Area EPS Operator Interconnection Facilities include sole use facilities; such as, line extensions, controls, relays, switches, breakers, transformers and shall not include Distribution Upgrades or Network Upgrades.

Interconnection Process – The Area EPS Operator’s interconnection standards in this document.

Material Modification – A modification to machine data, equipment configuration or to the interconnection site of the DER at any time after receiving notification by the Area EPS Operator of a complete Interconnection Application that has a material impact on the cost, timing, or design of any Interconnection Facilities or Upgrades, or a material impact on the cost, timing or design of any Interconnection Application with a later Queue Position or the safety or reliability of the Area EPS.¹

MN Technical Requirements – The term including all of the DER technical interconnection requirement documents for the state of Minnesota; including Attachment 2 Distributed Generation Interconnection Requirements established in the Commission’s September 28, 2004 Order in E-999/CI-01-1023) until superseded and upon Commission approval of updated

¹ A Material Modification shall include, but may not be limited to, a modification from the approved Interconnection Application that: (1) changes the physical location of the point of common coupling; such that it is likely to have an impact on technical review; (2) increases the nameplate rating or output characteristics of the Distributed Energy Resource; (3) changes or replaces generating equipment, such as generator(s), inverter(s), transformers, relaying, controls, etc., and substitutes equipment that is not like-kind substitution in certification, size, ratings, impedances, efficiencies or capabilities of the equipment; (4) changes transformer connection(s) or grounding; and/or (5) changes to a certified inverter with different specifications or different inverter control settings or configuration. A Material Modification shall not include a modification from the approved Interconnection Application that: (1) changes the ownership of a Distributed Energy Resource; (2) changes the address of the Distributed Energy Resource, so long as the physical point of common coupling remains the same; (3) changes or replaces generating equipment such as generator(s), inverter(s), solar panel(s), transformers, relaying, controls, etc. and substitutes equipment that is a like-kind substitution in certification, size, ratings, impedances, efficiencies or capabilities of the equipment; and/or (4) increases the DC/AC ratio but does not increase the maximum AC output capability of the Distributed Energy Resource in a way that is likely to have an impact on technical review.

Minnesota DER Technical Interconnection and Interoperability Requirements in E-999/CI-16-521 (anticipated July 2019.)

Nameplate Rating - nominal voltage (V), current (A), maximum active power (kWac), apparent power (kVA), and reactive power (kVar) at which a DER is capable of sustained operation. For a Local EPS with multiple DER units, the aggregate nameplate rating is equal to the sum of all DERs nameplate rating in the Local EPS. For purposes of the Attachment V in the Interconnection Agreement, the DER system's capacity may, with the Area EPS's agreement, be limited through use of control systems, power relays or similar device settings or adjustments as identified in IEEE 1547. The nameplate ratings referenced in the Interconnection Process are alternating current nameplate DER ratings at the Point of DER Coupling.

Network Upgrades – Additions, modifications, and upgrades to the Transmission System required at or beyond the point at which the DER interconnects with the Area EPS Operator's System to accommodate the interconnection with the DER to the Area EPS Operator's System. Network Upgrades do not include Distribution Upgrades.

Operating Requirements – Any operating and technical requirements that may be applicable due to the Transmission Provider's technical requirements or Minnesota Technical Requirements, including those set forth in the Interconnection Agreement.

Party or Parties – The Area EPS Operator and the Interconnection Customer.

Point of Common Coupling (PCC)– The point where the Interconnection Facilities connect with the Area EPS Operator's Distribution System. See figure 1. Equivalent, in most cases, to "service point" as specified by the Area EPS Operator and described in the National Electrical Code and the National Electrical Safety Code.

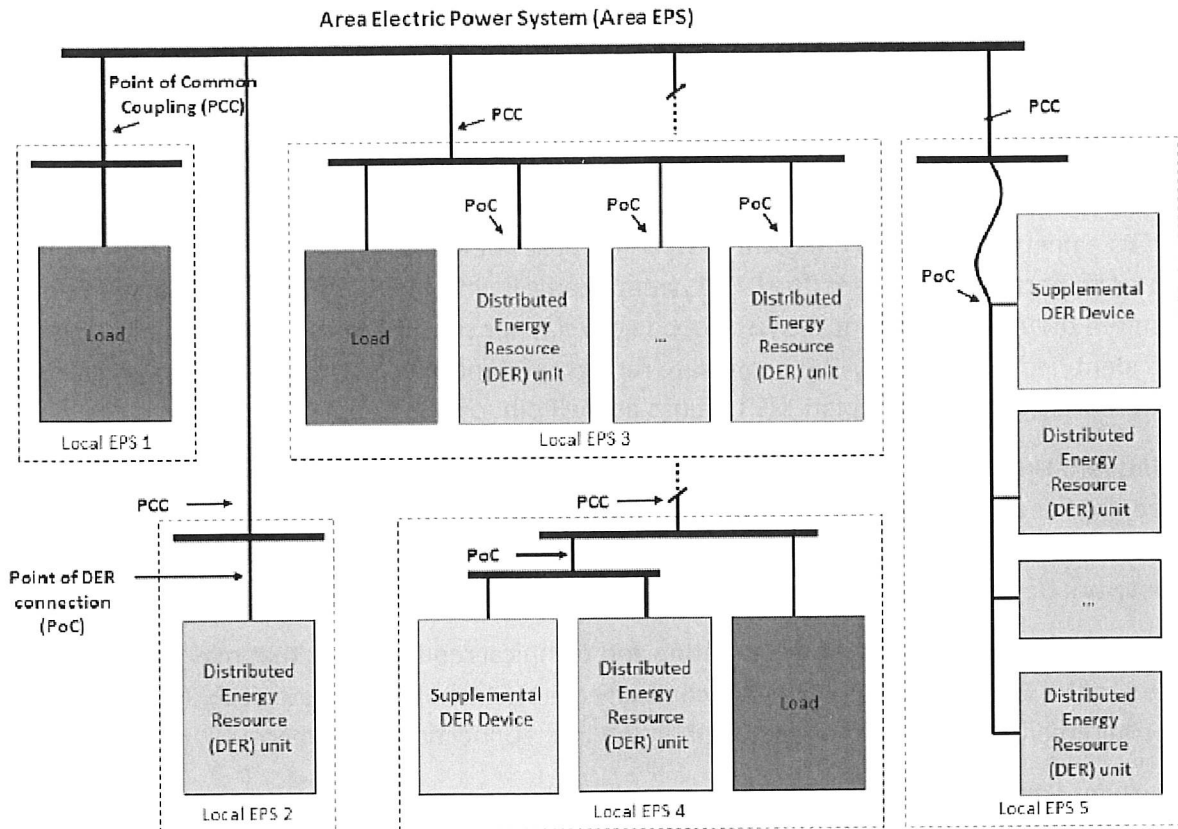


Figure 1: Point of Common Coupling and Point of DER Connection

(Source: IEEE 1547)

Point of DER Connection (PoC) – When identified as the Reference Point of Applicability, the point where an individual DER is electrically connected in a Local EPS and meets the requirements of this standard exclusive of any load present in the respective part of the Local EPS (e.g. terminals of the inverter when no supplemental DER device is required.) For DER unit(s) that are not self-sufficient to meet the requirements without a supplemental DER device(s), the Point of DER Connection is the point where the requirements of this standard are met by DER in conjunction with a supplemental DER device(s) exclusive of any load present in the respective part of the Local EPS.

Queue Position – The order of a valid Interconnection Application, relative to all other pending valid Interconnection Applications, that is established based upon the date- and time- of receipt of the complete Interconnection Application as described in Section 4.7 of the Overview Process. **Error! Reference source not found..**

Reasonable Efforts – With respect to an action required to be attempted or taken by a Party under these procedures, efforts that are timely and consistent with Good Utility Practice and are otherwise substantially equivalent to those a Party would use to protect its own interests.

Reference Point of Applicability – The location, either the Point of Common Coupling or the Point of DER Connection, where the interconnection and interoperability performance requirements specified in IEEE 1547 apply. With mutual agreement, the Area EPS Operator and Customer may determine a point between the Point of Common Coupling and Point of DER Connection. See Minnesota Technical Requirements for more information.

Simplified Process – The procedure for evaluating an Interconnection Application for a certified inverter-based DER no larger than 20 kW that uses the screens described in the Interconnection Process – Simplified Process document. The Simplified Process includes simplified procedures.

Study Process – The procedure for evaluating an Interconnection Application that includes the scoping meeting, system impact study, and facilities study.

Transmission Owner – The entity that owns, leases or otherwise possesses an interest in the portion of the Transmission System relevant to the Interconnection.

Transmission Provider – The entity (or its designated agent) that owns, leases, controls, or operates transmission facilities used for the transmission of electricity. The term Transmission Provider includes the Transmission Owner when the Transmission Owner is separate from the Transmission Provider. The Transmission Provider may include the Independent System Operator or Regional Transmission Operator.

Transmission System – The facilities owned, leased, controlled or operated by the Transmission Provider or the Transmission Owner that are used to provide transmission service. See the Commission’s July 26, 2000 Order Adopting Boundary Guidelines for Distinguishing Transmission from Generation and Distribution Assets in Docket No. E-999/CI-99-1261.

Uniform Contract – the Area EPS Operator’s Agreement for Cogeneration and Small Power Production Facilities (Uniform Contract) that may be applied to all qualifying new and existing interconnections between the Area EPS Operator and an DER system having capacity less than 40 kilowatts.

Upgrades – The required additions and modifications to the Area EPS Operator’s Transmission or Distribution System at or beyond the Point of Interconnection. Upgrades may be Network Upgrades or Distribution Upgrades. Upgrades do not include Interconnection Facilities.

Attachment II: Description and Costs of the Distributed Energy Resource, Interconnection Facilities, and Metering Equipment

Equipment, including the Distribution Energy Resource, Interconnection Facilities, and metering equipment shall be itemized and identified as being owned by the Interconnection Customer or the Area EPS Operator. The Area EPS Operator will provide a good faith estimate itemized cost, including administrative overheads, of its Interconnection Facilities and metering equipment, and a good faith estimate itemized cost of the annual operation and maintenance expenses associated with the Interconnection Facilities and metering equipment.

*See 2022 DER Tariff, Rates and Connection Charges document.



City of Fairmont
 100 Downtown Plaza
 Fairmont, MN 56031-0751
 (507)238-9461

DER2023-0001

11750 900 Woodland Ave

Permit No. _____ Application No. _____ Site Address _____
 7/7/2023 _____ Active _____
 Application Date _____ Status _____
 Jack Siebring _____ 900 Woodland _____ (507)236-9528 _____
 Applicant Name _____ Applicant Address _____ Phone _____
 Siebring, Jack _____ 900 Woodland _____ (507)236-9528 _____
 Owner Name _____ Owner Address _____ Phone _____

APPLICANT

General Contractor _____ General Contractor Address _____ Phone _____

Fee

Fee Description	Type	Units	Amount	Fee Description	Type	Units	Amount
DER	Distributed Energy Standard	0.00	100.00				

Lot Misc.

Character 2 _____ Email _____

Permit

Application Date _____ 7/7/2023 _____ Completion Date _____
 Date Issued _____ 7/7/2023 _____ Description _____

SOLAR SYSTEM - SIMPLIFIED
 INTERCONNECTION APPLICATION
 CONTRACTOR - WOLF RIVER
 ELECTRIC

Effective Date _____ 7/7/2023 _____ Expiration Date _____
 Permission Type _____

CONTRACTOR - WOLF RIVER
 ELECTRIC - CONTACT - IAN HIGH
 763-354-0131 - EMAIL -
 IAN@WOLFRIVERELECTRIC.COM

DER2023-0001

Permit Misc.

Code Name & Edition _____ Conditional Use _____ False
 Legal Description _____ Occupancy Type _____
 Septic System _____ False Shoreland Mgmt Area _____ False
 Type of Construction _____ Variance _____ False

pd CR# 10020

Total Due: \$100.00

The Applicant, by Signature Herewith, agrees to comply with all City Ordinances and State Law regulating building construction, under this permit.

Date 7-7-23 _____ Bldg Official/Inspector approval Julie Zarling
 Date _____

Simplified Interconnection Application

Persons interested in applying for the interconnection of a distributed energy resource (DER) to the Utility's distribution system through the Simplified Process are to fill out this Simplified Interconnection Application. The Simplified Interconnection Application is to be used for inverter-based DER technologies with the capacity of 20 kW AC or less and is to be filled out completely by the Applicant. The Simplified Application shall be returned to the Utility with the requested material information and a non-refundable \$100 application fee.

Proposed DER interconnections to the Utility's distribution submitted under the Simplified Process may be moved into the Fast Track Process if engineering screens are failed during the Simplified Interconnection Application review. Timeline for review of the Simplified Application is as follows:

- Upon receipt of a Simplified Interconnection Application the Utility has 10 business days to review the application for completeness.
- If the application is deemed incomplete, the Utility shall notify the Applicant of what additional information material is required.
- The Applicant has 5 business days to return the missing information material or their application may lose its queue position and be deemed withdrawn.
- The Utility shall have a total of 20 business days to review the Simplified Interconnection Application, not including time waiting for additional information material to deem the application completed.
- The Utility will notify the Applicant if the proposed DER system is preliminary approved for interconnection or if the proposed DER system will need to be moved in the Fast Track Process.

Checklist for Submission to Utility	
<i>The items below shall be included with submittal of the Simplified Application to the Utility. Failure to include all items will deem the Simplified Application incomplete.</i>	
	Included
\$100 Non-Refundable Simplified Application Fee	<input checked="" type="checkbox"/> Yes
One-line diagram – Details required on one-line diagram specified at the end of the interconnection application.	<input checked="" type="checkbox"/> Yes
All Certified Equipment Manufacturer Specification Sheets	<input checked="" type="checkbox"/> Yes
Site Layout Drawing	<input checked="" type="checkbox"/> Yes
Copy of Insurance Declaration page or other acceptable proof of insurance	<input checked="" type="checkbox"/> Yes
Possible Additional Documentation	
<ul style="list-style-type: none"> • If an Application Agent is being used for this project, the Site Layout Drawing must be signed by the Interconnection Customer indicating Site Control of the DER interconnection location. • If the DER export capacity is limited, include information material explaining the limiting capabilities. • If Energy Storage is included with the proposed DER system include the Energy Storage Application. 	

Simplified Interconnection Application

Interconnection Customer		
Full Name (must match the name of the existing service account): Jack Siebring		
Account Number: 005549-001	Meter Number: 94 172 749	
Mailing Address: 900 Woodland		
City: Fairmont	State: MN	Zip Code: 56031
Email: jack.siebring@gmail.com	Phone: (507) 236-9528	

Application Agent	
Is the Customer using an Application Agent for this application?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If Interconnection Customer is not using an Application Agent, please skip to the next section.</i>	
Application Agent: Ian High	
Company Name: Wolf River Electric	
Email: ian@wolfriverelectric.com	Phone: 763 354 0131

For Office Use Only	
Application ID:	Queue Number:
Date Received:	Application Fee Received: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date Preliminary Approval Provided to Applicant:	

Distributed Energy Resource Information	
Location (if different from mailing address of Interconnection Customer):	
Will the Proposed DER system be interconnected to an existing electric service?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Is the Distributed Energy Resource a single generating unit or multiple?	<input type="checkbox"/> Single <input type="checkbox"/> Multiple
DER Type (Check all that apply):	
<input checked="" type="checkbox"/> Solar Photovoltaic	<input type="checkbox"/> Wind <input type="checkbox"/> Energy Storage
<input type="checkbox"/> Combined Heat and Power	<input type="checkbox"/> Solar Thermal <input type="checkbox"/> Other (please specify)
<i>DER systems with Energy Storage must also submit the Energy Storage Application to the Utility.</i>	
Inverter Manufacturer: AP Systems	Model: DS3-S
Phase Configuration of Proposed DER System:	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Three
Aggregate Inverter(s) Nameplate Rating:	8.32 kW _{ac} kVA _{ac}
Is the export capability of the DER limited?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>If the DER export capacity is limited, include information material explaining the limiting capabilities.</i>	
Aggregate DER Capacity (the sum of nameplate capacity of all generation and storage devices at the PCC):	8.32 kW _{ac}
Installed DER System Cost (before incentives):	\$ 50,000
Estimated Installation Date:	07/01/2023

Equipment Certification	
Is the DER equipment certified ¹ ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>Please list all certified IEEE 1547 equipment below. Include all certified equipment manufacturer specification sheets with the Simplified Application submission.</i>	
Equipment Type	Certifying Entity
1	
2	
3	



¹ Information regarding certified equipment can be found in Section 14 and Section 15 of the Overview Process document.
Fairmont Public Utilities

Interconnection Agreement

Proposed DER interconnections that are also deemed Qualifying Facilities under Minnesota Statutes §216B.164 are eligible to sign the Utility’s Uniform Contract for Cogeneration and Small Power Production Facilities. Included in this agreement are payment terms for excess power generated by the proposed DER system the Utility may purchase. In lieu of the Utility’s Uniform Contract for Cogeneration and Small Power Production Facilities, the Interconnection Customer may choose to instead sign the Municipal Minnesota Interconnection Agreement (MMIA).


The Interconnection Customer requests an MMIA to be executed in lieu of the Utility’s Uniform Contract for Cogeneration and Small Power Production Facilities.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	---

Disclaimers – Must be completed by Interconnection Customer

	Initials
The Interconnection Customer has opportunities to request a timeline extension during the interconnection process. Failure by the Interconnection Customer to meet or request an extension for a timeline outlined in the Interconnection Process could result in a withdrawn queue position and the need to re-apply.	
Propose DER interconnection to the Utility’s distribution submitted under the Simplified Process may be moved into the Fast Track Process if engineering screens are failed during the Simplified Application review.	

Application Signature – Must be completed by Interconnection Customer

I designate the individual or company listed as my Application Agent to serve as my agent for the purpose of coordinating with the Area EPS Operators on my behalf throughout the interconnection process.



 Initials

I hereby certify that, to the best of my knowledge, the information provided in this Application is true, and that I have appropriate Site Control in conformance with the Interconnection Process. I agree to abide by the Municipal Minnesota Distributed Energy Resource Interconnection Process (M-MIP) and return the Certificate of Completion when the DER has been installed.

Applicant Signature:  _____ Date: 6/15/2023 | 9:57 AM PDT
DocuSigned by: 922F0C7F5E7348B...

*****Please print clearly or type and return completed along with any additional documentation*****

Information Required on One-Line Diagram

An Interconnection Application must include a site electrical one-line diagram showing the configuration of all Distributed Energy Resource equipment, current and potential circuits, and protection and control schemes. The one-line diagram shall include:

- Applicant name.
- Application ID.
- Installer name and contact information.
- Address where DER system will be installed - must match application address.
 - Be sure to list the address for the protective interface equipment if the protective interface equipment is located at a different address than the DER system.
- Correct positions of all equipment, including but not limited to panels, inverter, and DC/AC disconnect. Include distances between equipment, and any labeling found on equipment.

GENERAL NOTES

1. All electrical materials shall be new and listed by recognized electrical testing laboratory
Custom made equipment shall have complete test data submitted by the manufacturer attesting to its safety
2. Outdoor equipment shall be NEMA 3R rated or equivalent
3. All metallic equipment shall be grounded
4. Contractor shall obtain electrical permits prior to installation and shall coordinate all inspections, testing commissioning and acceptance with the client,
utility co. and city inspectors as needed.
5. The electrical contractor shall verify the exact locations of service points and service sizes with the serving utility company and comply with all utility companies requirements.
6. Drawings are diagrammatic only, routing of raceways shall be option of the contractor unless otherwise noted and shall be coordinated with other trades.
7. If the roof material or the roof structure not adequate for PV installation, call the engineer of record prior to installation. The contractor is responsible to verify that the roof is capable of withstanding the extra weight.
8. If the distances for cable runs are different than shown, the contractor shall notify the electrical engineer to validate the wire size. Final drawings will be red-lined and updated as appropriate.
9. Whenever a discrepancy in quality of equipment arises on the drawing or specifications, the contractor shall be responsible for providing and installing all materials and services required by the strictest conditions noted on the drawings or in the specifications to ensure complete compliance and longevity of the operable system required by the engineer of record.

PHOTOVOLTAIC NOTES:

1. Rooftop mounted photovoltaic panels and modules shall be tested, listed and identified by recognized testing laboratory
2. Solar system shall not cover any plumbing or mechanical vents
3. Modules and support structures shall be grounded unless racking has integrated ground.
4. Removal of an interactive inverter or other equipment shall not disconnect the bonding connection between the grounding electrode conductor and the photovoltaic source and/or output circuit grounded conductors.
5. All PV modules and associated equipment and wiring shall be protected from physical damage.
6. Live parts of PV source circuits and PV output circuits over 150v to ground shall not be accessible to other than qualified persons while energized.
7. Inverter is equipped with integrated DC disconnect, thus providing ground fault protection
8. All conductors shall be copper and 75 deg rated
9. A single conductor shall be permitted to be used to perform the multiple functions of dc grounding, AC grounding and bonding between AC and DC systems.
10. Non-current carrying metal parts of equipment shall be effectively bonded together. Bond both ends of raceways.

SHEET INDEX

SITE MAP & PV LAYOUT _____	PV 1.0
ELECTRICAL 1-LINE DIAGRAM _____	PV 2.0
SYSTEM LABELING DETAIL _____	PV 3.1
PACARD _____	PV 3.2
PROPERTY PLAN _____	PV 4.0
ATTACHMENT LAYOUT _____	PV 5.0
INVERTER DATA SHEET _____	D 6.0
MODULE DATA SHEET _____	D 7.0
RACKING DATA SHEET _____	D 8.0
ATTACHMENT DATA SHEET _____	D 9.1
ATTACHMENT DATA SHEET _____	D 9.2
SURGE PROTECTION _____	D 10.0
INVERTER CERTIFICATION _____	D 11.0
PV INSPECTION CHECKLIST _____	D 12.0
ECU-R DATA SHEET _____	D 13.0
AP SYSTEM CERTIFICATION _____	D 14.0

GOVERNING CODES

THE INSTALLATION OF SOLAR ARRAYS AND PHOTOVOLTAIC POWER SYSTEMS SHALL COMPLY WITH THE FOLLOWING CODES:

- 2020 National Electrical Code
- 2018 International Building Code
- 2018 International Residential Code
- 2020 Minnesota Residential Code
- 2020 Minnesota Building Code
- 2020 Minnesota Energy Code
- 2020 Minnesota Accessibility Code
- 2020 Minnesota State Fire Code
- 2018 International Fire Code
- 2018 International Energy Conservation Code
- 2018 Mechanical Code

AS ADOPTED BY THE STATE OF MINNESOTA
ALL OTHER ORDINANCE ADOPTED BY THE
LOCAL GOVERNING AGENCIES

SYSTEM RATING

DC 10.00 KW STC
AC 8.32 KW STC

EQUIPMENT SUMMARY

25 JINKO 400 WATT MODULES
WITH 13 DS3 MICROINVERTERS

ELECTRICAL INFORMATION

EXISTING
MAIN SERVICE PANEL BUS SIZE: 200A
MAIN SERVICE BREAKER SIZE: 200A
MOUNTING SYSTEM: SNAPRACK

BUILDING INFORMATION

CONSTRUCTION TYPE: V-B
OCCUPANCY: R3
ROOF: METAL TILE
Truss 2 x 4 @24" O.C.

CONTRACTOR

Address: 101 Isanti Parkway
NE, Isanti, MN 55040
Phone number: (763) 229-6662
E-mail: contact@wolfriverelectric.com

WOLF RIVER ELECTRIC

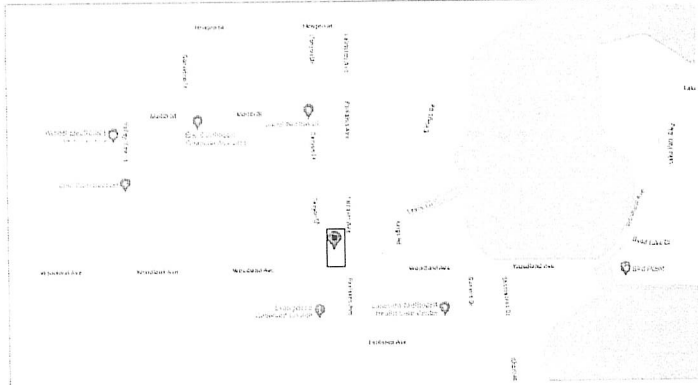
Owner: _____ Jack Siebring
Property Address: _____ 900 Woodland Ave, Fairmont, MN 56031
Property Type: _____ Single Family Residence
Drawn by: _____ New@engineerinc.io
Date: _____ 06/14/2023

VICINITY MAP (SCALE: NTS)



SATELLITE VIEW (SCALE: NTS)



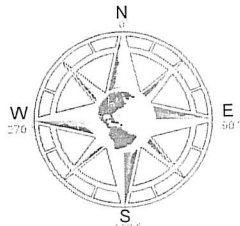


Total Roof Area:3109
 Total Module Area:550
 17.69% of Coverage

NOTE: No clearance issue
 Distance between all equipments is maximum 10"
 City of Fairmont
 Note: 24/ 7 Unescorted keyless access is to be provided for ALL UTILITY EQUIPMENT

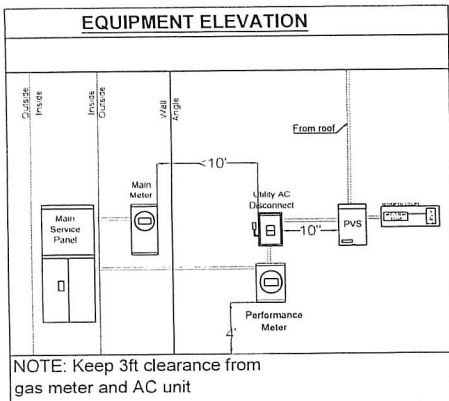
NOTE: Conduit in attic shall be minimum 18 inches from roof sheathing

DC 10.00 KW STC
 AC 8.32 KW STC

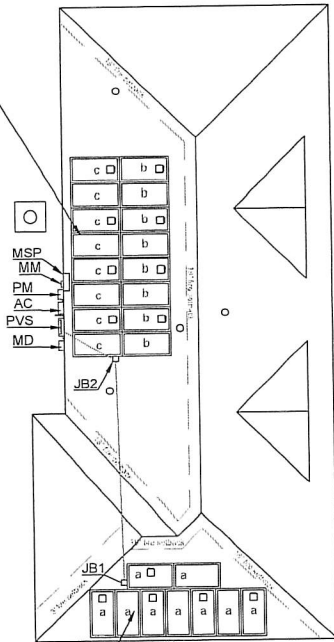


- INDEX**
- MSP (E) **200A** Main Service Panel
 - MM(E) Main Meter
 - PVS..... (N) 125A PV Sub Panel
 - PM..... (N) Performance Meter
 - AC(N) 60A Utility AC
 - MD..... (N) Monitoring Device
 - JB(N) Junction Box
 -(N) Microinverter
 - ▭ Solar Module
 - EMT type Conduit
 - Fire Setback Line
 - FMT type Conduit
- SOLAR MODULES**
 25 JINKO 400 Watt
 Model #JKM400M-72-V
- INVERTER**
 INVERTER TYPE: Micro:
 13 AP SYSTEM
 Model # DS3(240V)

SECONDARY INTERCONNECTION



Solar PV Array 2
 16 - Jinko 410 W Modules
 8 -DS3 Microinverters
 Pitch: 27 Deg
 Orientation:270 Deg



Solar PV Array 1
 9 - Jinko 410 W Modules
 5 -DS3 Microinverters
 Pitch: 27 Deg
 Orientation:180 Deg

CONTRACTOR

WOLF RIVER ELECTRIC

Wolf River Electric
 Address:101 Isanti Parkway
 NE, Isanti, MN 55040
 Phone number: (763) 229-6662
 E-mail: contact@wolfriverelectric.com

SITE MAP & PV LAYOUT

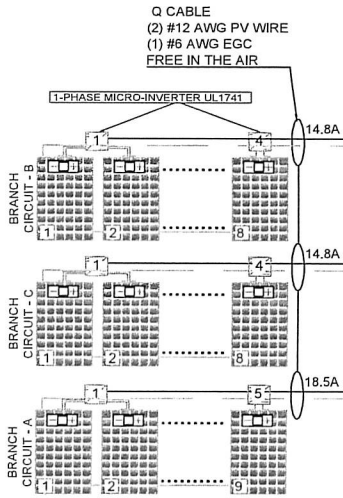
ENGINEERING INC
 Drawn by:New@engineerinc.io
 DATE: 06/14/2023

Project Name:
 Jack Siebring
 Property Address:
 900 Woodland Ave,
 Fairmont, MN 56031

Project: PV SYSTEM Scale: AS INDICATED

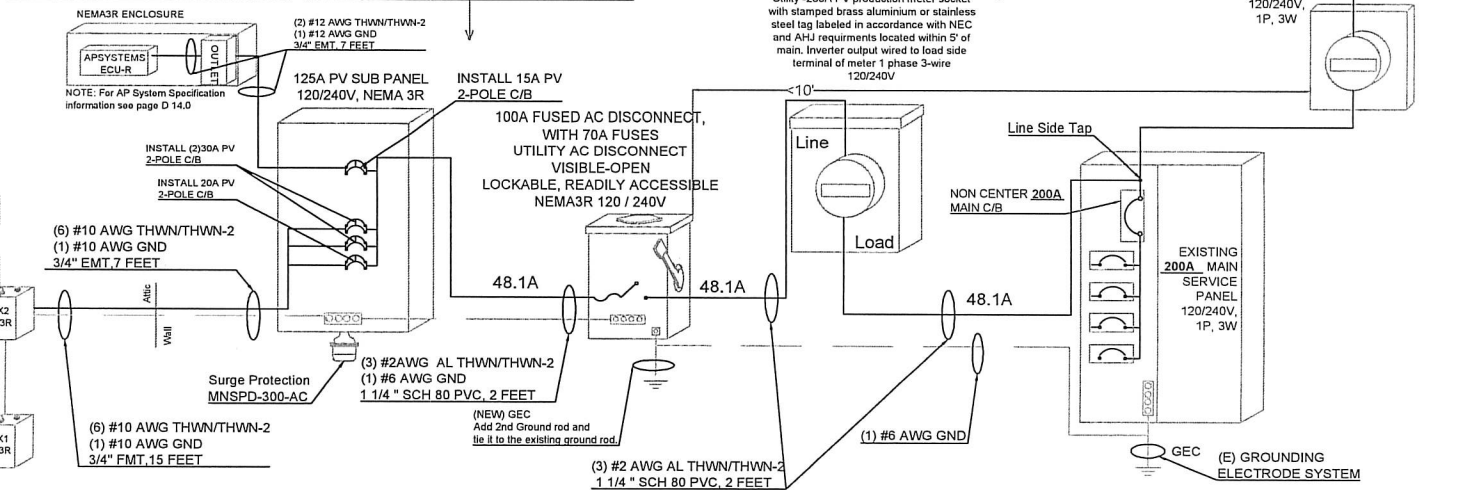
PV 1.0

No loads or energy storage systems shall be connected on the DER side of the production meter



SECONDARY INTERCONNECTION

REFERENCE POINT OF APPLICABILITY



NOTE: Keep 3ft clearance from gas meter and AC unit



SYSTEM RATING AND DER POWER OUTPUT
 DC 10.00 KW STC
 AC 8.32 KW STC
 INVERTER: AP SYSTEM DS3
 INVERTER MAXIMUM CONTINUOUS OUTPUT: 880VA

DC 10.00 KW STC
 AC 8.32 KW STC

25 JINKO 400 WATT MODULES
 13 DS3 MICROINVERTERS
 AP SYSTEM DS3 MICROINVERTERS
 1 PHASE 880VA
 MAXIMUM OUTPUT CURRENT 3.7A
 AC PORT BACKFEED CURRENT 0A
 DC SHORT CIRCUIT CURRENT 15A

Production meter is required based on the der size and program under which the application is submitted

PV Production meter socket must have lever bypass/bypass

City of Fairmont
 Note: 24/7 Unescorted keyless access is to be provided for ALL UTILITY EQUIPMENT
 Design meet National Electric Code(NEC codes)

The lockable visible disconnect must be located within 5 feet from the General Service Meter and must be located on the exterior of the building

PV ARRAY RATING				WIRE SIZE CALCULATION			
BRANCH CIRCUIT-A				BRANCH CIRCUIT-A			
Number Modules	6	Type	JKM400M-T2-V	JINKO 400 Watt	Number Of Microinverters in Circuit		3
Number MicroInverters	3	Type	DS3 Microinverter		Microinverter Maximum Output Current (A)		3.7
Total DC Wattage (Watts)	Watts STC, (Watts/Module) 6*400=2400				Branch Circuit Total Current (A)		3 * 3.7 * 1.25 = 13.87
Array Currents	I-SC	10.36	A	I-MP	9.60	A	Breaker Size Per Branch Circuit (A)
Module Voltage	V-OC	49.8	V	V-MP	41.7	V	20
BRANCH CIRCUIT-B				BRANCH CIRCUIT-B			
Number Modules	10	Type	JKM400M-T2-V	JINKO 400 Watt	Number Of Microinverters in Circuit		5
Number MicroInverters	5	Type	DS3 Microinverter		Microinverter Maximum Output Current (A)		3.7
Total DC Wattage (Watts)	Watts STC, (Watts/Module) 10*400=4000				Branch Circuit Total Current (A)		5 * 3.7 * 1.25 = 23.12
Array Currents	I-SC	10.36	A	I-MP	9.60	A	30
Module Voltage	V-OC	49.8	V	V-MP	41.7	V	
BRANCH CIRCUIT-A				BRANCH CIRCUIT-A			
Number Modules	9	Type	JKM400M-T2-V	JINKO 400 Watt	Number Of Microinverters in Circuit		5
Number MicroInverters	5	Type	DS3 Microinverter		Microinverter Maximum Output Current (A)		3.7
Total DC Wattage (Watts)	Watts STC, (Watts/Module) 9*400=3600				Branch Circuit Total Current (A)		5 * 3.7 * 1.25 = 23.12
Array Currents	I-SC	10.36	A	I-MP	9.60	A	30
Module Voltage	V-OC	49.8	V	V-MP	41.7	V	
FROM JBOX TO PV SUB PANEL							
Maximum Continuous Current (A)	23.12	More Than 3 CCC Adjust. Factor		0.8	Adjusted Conductor Ampacity(A)		23.12/0.8=28.9
Raceway Height From Roof (Temp 39+22=61C)	3 1/2"	# of wire(# BC *2)		6	Ambient Temp Factor Per NEC Table 310.15(b)(2)(a)		0.71
Temp. Derate Factor (max. continuous current divided ambient tem. Factor (A)				28.9/ 0.71 = 40.70	Wire Size from NEC Table 310.15(b)(16)		10 AWG
FROM PV SUB PANEL TO MAIN PANEL							
Total Number Of Microinverters	13	Total Amps From All Microinverters (A)		13 * 3.7 = 48.1	Consider Continuous (A)		48.1 * 1.25 = 60.12
Temp. Derate Factor(0.91 at wall of the Building) (A)				60.12 / 0.91 = 66.07	Wire Size from NEC Table 310.15(b)(16)		2 AWG AL
Ambient Temp Factor Per NEC Table 310.15(b)(2)(a)				0.91			

CONTRACTOR



Wolf River Electric
 Address: 101 Isanti Parkway
 NE, Isanti, MN 55040
 Phone number: (763) 229-6662
 E-mail: contact@wolfriverelectric.com

ELECTRICAL 1-LINE DIAGRAM

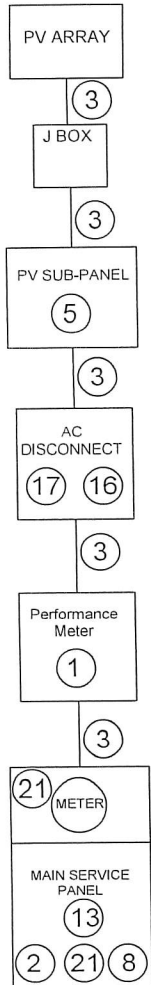
ENGINEERING

Drawn by: New@engineerinc.io
 DATE: 06/14/2023

Project Name:
 Jack Siebring
 Property Address:
 900 Woodland Ave,
 Fairmont, MN 56031

Project: PV SYSTEM Scale: AS INDICATED

PV 2.0



LABEL 1

Production Meter

LABEL 2

Photovoltaic Power Source

LABEL 3

CAUTION: SOLAR CIRCUIT

LABEL 4

WARNING
ELECTRIC SHOCK HAZARD
THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNDERGROUND AND MAY BE ENERGIZED

LABEL 5

WARNING
ELECTRIC SHOCK HAZARD
IF GROUND FAULT IS INDICATED NORMALLY GROUNDED CONDUCTORS MAY BE UNDERGROUND AND ENERGIZED

LABEL 6

WARNING
ELECTRIC SHOCK HAZARD
DO NOT TOUCH TERMINALS TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL 7

WARNING
ELECTRIC SHOCK HAZARD
DO NOT TOUCH TERMINALS TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION
DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT

LABEL 8

WARNING
TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

LABEL 9

DO NOT DISCONNECT UNDER LOAD

LABEL 10

MAIN PV SYSTEM DISCONNECT

LABEL 11

MAIN PV SYSTEM AC DISCONNECT

LABEL 12

SOLAR DISCONNECT

LABEL 13

CAUTION
SOLAR ELECTRIC SYSTEM CONNECTED

LABEL 14

WARNING-DUAL POWER SOURCE
SECOND SOURCE IS PV SYSTEM

LABEL 15

CAUTION
PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFED

LABEL 16

PHOTOVOLTAIC AC DISCONNECT
MAXIMUM AC OPERATING CURRENT 48.1A
MAXIMUM AC OPERATING CURRENT 240V

LABEL 17

PHOTOVOLTAIC
UTILITY AC DISCONNECT

LABEL 18

PHOTOVOLTAIC
DC DISCONNECT

LABEL 19

NOMINAL OPERATING AC VOLTAGE
NOMINAL OPERATING AC FREQUENCY
MAXIMUM AC POWER
MAXIMUM AC CURRENT
MAX OPERCURRENT DEVICE RATING FOR AC MODULE PROTECTION

LABEL 20

PV SYSTEM DC DISCONNECT
OPERATING CURRENT
OPERATING VOLTAGE
MAXIMUM SYSTEM VOLTAGE
SHORT CIRCUIT CURRENT

LABEL 21

RATED MAX POWER-FONT CURRENT
RATED MAX POWER-FONT VOLTAGE
MAXIMUM SYSTEM VOLTAGE
SHORT CIRCUIT CURRENT
MAX RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER IF INSTALLED

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN
TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY.

CONTRACTOR

WOLF RIVER ELECTRIC

Wolf River Electric
Address: 101 Isanti Parkway
NE, Isanti, MN 55040
Phone number: (763) 229-6662
E-mail: contact@wolfriverelectric.com

SYSTEM LABELING DETAIL

ENGINEER INC

Drawn by: New@engineerinc.io
DATE: 06/14/2023

Project Name:
Jack Siebring
Property Address:
900 Woodland Ave,
Fairmont, MN 56031

Project PV SYSTEM Scale AS INDICATED

PV 3.1

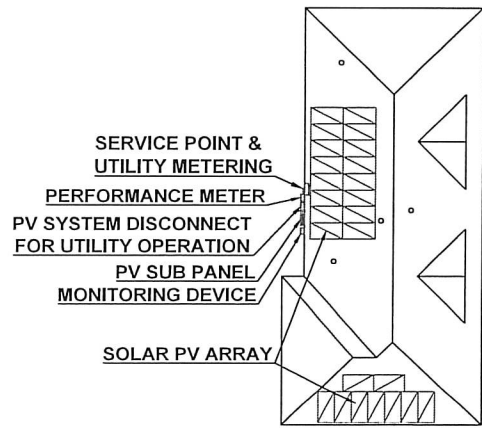
Note: LABELS SHALL COMPLY WITH NEC 690

"Labels shall be weatherproof, durable and permanently mounted"

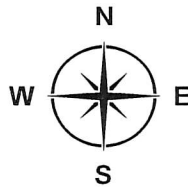
*** ALL LABELS = RED THERMOPLASTIC/REFLECTIVE , Permanently mounted

CAUTION

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN:
SERVICE 1 OF 2

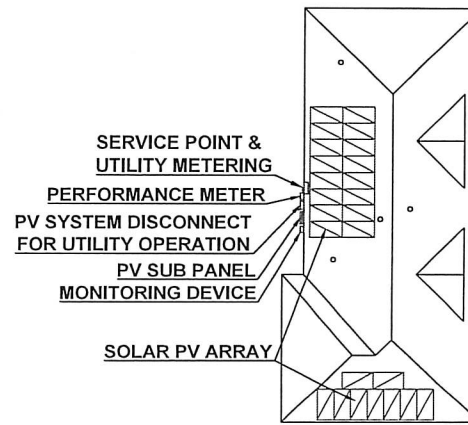


900 Woodland Ave,
Fairmont, MN 56031

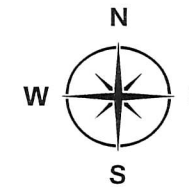


CAUTION

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN:
SERVICE 2 OF 2



900 Woodland Ave,
Fairmont, MN 56031



CONTRACTOR

WOLF RIVER
ELECTRIC

Wolf River Electric
Address: 101 Isanti Parkway
NE, Isanti, MN 55040
Phone number: (763) 229-6662
E-mail: contact@wolfriverelectric.com

PLACARD

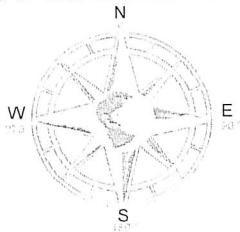
ENGINEERING INC

Drawn by: New@engineerinc.io
DATE: 06/14/2023

Project Name:
Jack Siebring
Property Address:
900 Woodland Ave,
Fairmont, MN 56031

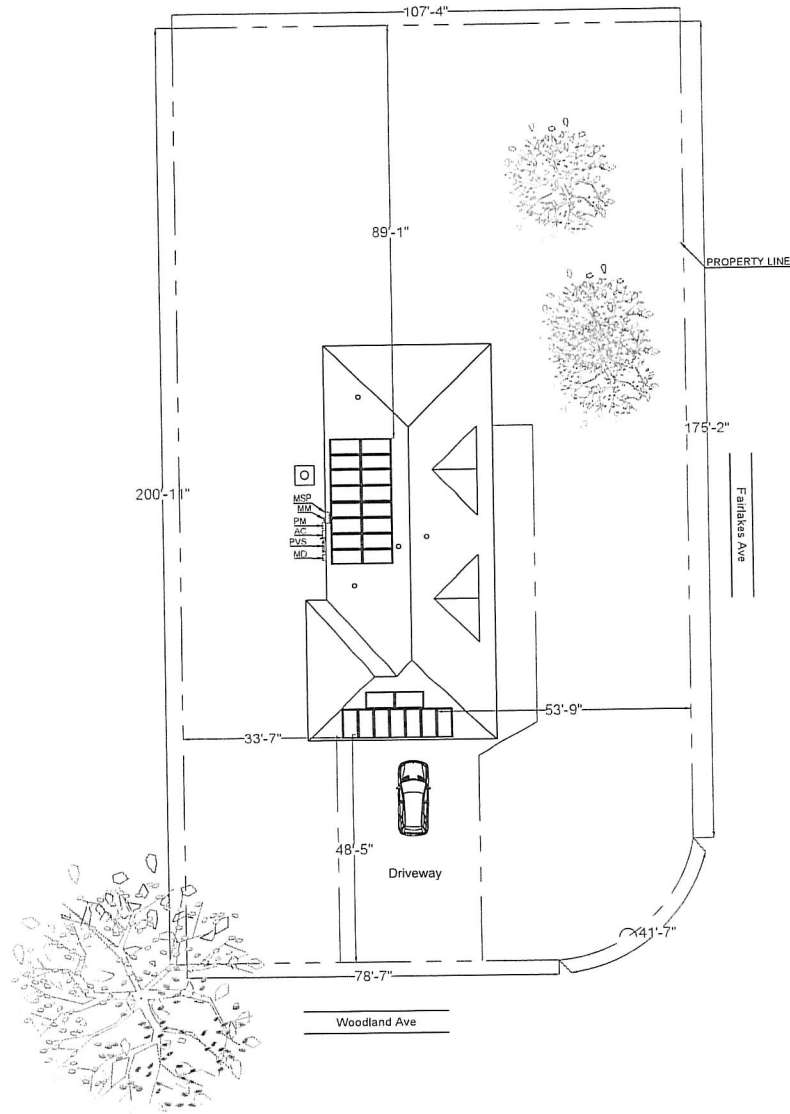
Project: PV SYSTEM Scale: AS INDICATED

PV 3.2



SCALE: 1/16" = 1'-0"

97



- LEGEND**
- MSP..... Main Service Panel
 - MM Main Meter
 - AC AC Disconnect
 - PVS..... PV Sub Panel
 - MD..... Monitoring Device
 - PM..... Performance Meter

CONTRACTOR

WOLF RIVER ELECTRIC

Wolf River Electric
 Address: 101 Isanti Parkway
 NE, Isanti, MN 55040
 Phone number: (763) 229-6662
 E-mail: contact@wolfriverelectric.com

PROPERTY PLAN

ENGINEERING

Drawn by: New@engineerinc.io
 DATE: 06/14/2023

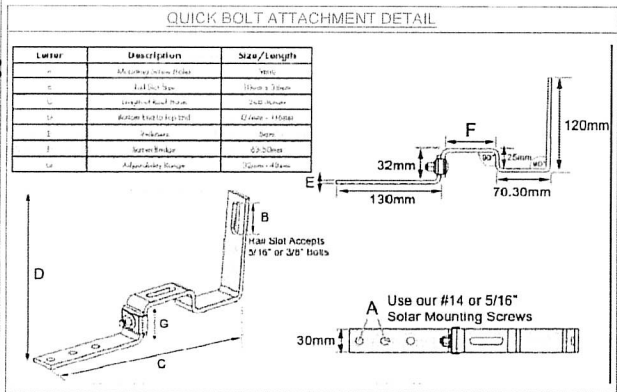
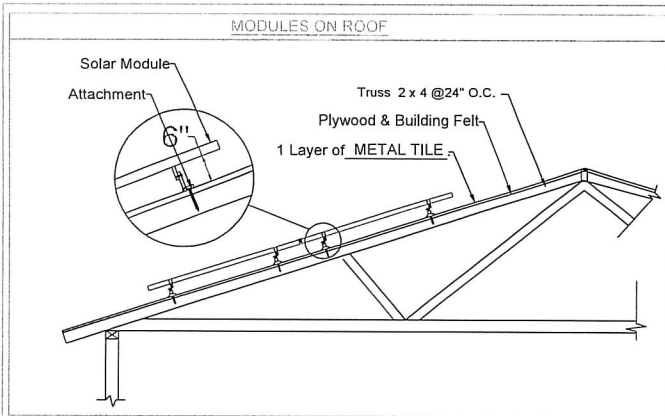
Project Name
 Jack Siebring

Property Address
 900 Woodland Ave,
 Fairmont, MN 56031

Project: PV SYSTEM Scale: AS INDICATED

PV 4.0

City of Fairmont
 Note: 24/7 Unescorted keyless access is to be provided for ALL UTILITY EQUIPMENT



DESIGN CRITERIA

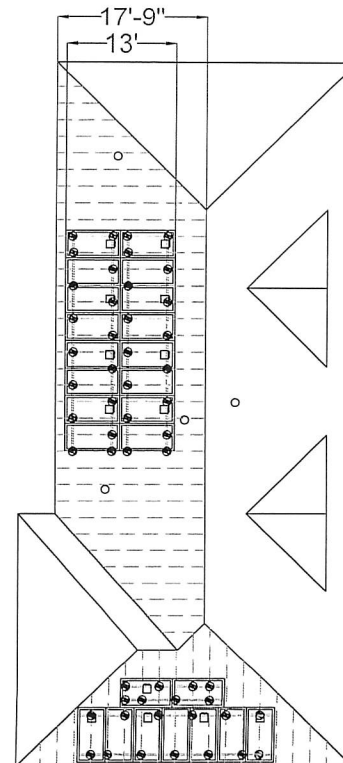
Modules:
25
Max Distributed Load: 3 PSF

POINT LOAD CALCULATION PER ARRAY

Module Weight (lbs)	49.6
# Of Modules	25
Total Module Weight (lbs)	1240
Rack Weight (lbs)	248
MicroInverters Weight (lbs)	74.1
Total System Weight (lbs)	1562.1
# Of Standoffs	48
Max Span Between Standoffs (in)	48
Loading Per Standoff (lbs)	32.54
Total Area (sq.ft.)	550
Loading (PSF)	2.84

Prior to the commencement of work, the contractor shall verify the existing roof and framing conditions. Notify New@engineerinc.io of any Discrepancies prior to starting construction. Prior to the commencement of work, the contractor shall inspect framing for any damage such as water damage, cracked framing, etc. and These Plans are stamped for structural code compliance of the roof framing supporting the proposed PV installation reference only. These plans are not stamped for water leakage. PV modules, racking, and attachment components must follow manufacturer guidelines and requirements. Attachments to be installed in a staggered orientation to properly distribute loads.

City of Fairmont
Note: 24/7 Unescorted keyless access is to be provided for ALL UTILITY EQUIPMENT



CONTRACTOR

**WOLF RIVER
ELECTRIC**

Wolf River Electric
Address: 101 Isanti Parkway
NE, Isanti, MN 55040
Phone number: (763) 229-6662
E-mail: contact@wolfriverelectric.com

**ATTACHMENT
LAYOUT**

ENGINEERINC

Drawn by: New@engineerinc.io
DATE: 06/14/2023

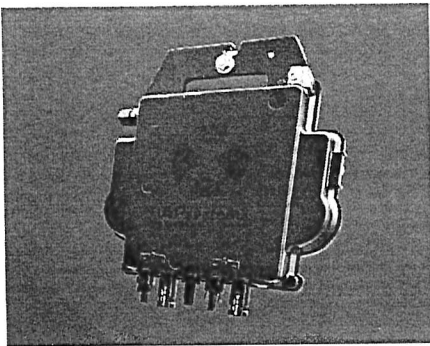
Project Name:
Jack Siebring
Property Address:
900 Woodland Ave.
Fairmont, MN 56031

Project: PV SYSTEM Scale: AS INDICATED

PV 5.0



Leading the Industry in Solar Microinverter Technology



DS3 Series The most powerful Dual Microinverter

- One microinverter connects to two solar modules
- Max. output power reaching 640VA, 768VA or 880VA
- Two independent input channels (MPPT)
- CA Rule 21 (UL 1741 SA) compliant
- NEC 2020 690.12 Rapid Shutdown Compliant
- Encrypted Wireless ZigBee Communication
- Phase Monitored and Phase Balanced

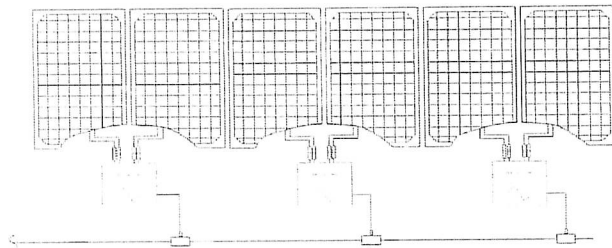
PRODUCT FEATURES

APsystems 3rd generation of dual microinverters are reaching unprecedented power outputs of 640VA or 768VA or 880VA to adapt to today's larger power module. With 2 independent MPPT, encrypted ZigBee signals, the DS3-S, DS3-L and DS3 benefit from an entirely new architecture and are fully backwards compatible with the QS1 and YC600 microinverters.

The innovative and compact design make the product lighter while maximizing power production. The components are encapsulated with silicone to reduce stress on the electronics, facilitate thermal dissipation, enhance waterproof properties, and ensure maximum reliability of the system via rigorous testing methods including accelerated life testing. A 24/7 energy access through Apps or web based portal facilitate remote diagnosis and maintenance.

The DS3 Series is interactive with power grids through a feature referred to as RPC (Reactive Power Control) to better manage photovoltaic power spikes in the grid. With a performance and an efficiency of 97%, a unique integration with 20% less components, APsystems DS3-S, DS3-L and DS3 are a game changer to residential and commercial PV.

WIRING SCHEMATIC



2022/02/15 Rev1.3

Datasheet | DS3 Microinverter Series

Model	DS3-S	DS3-L	DS3
Input Data (DC)			
Recommended PV Module Power (STC) Range	250Wp-480Wp+	265Wp-570Wp+	300Wp-660Wp+
Peak Power Tracking Voltage	22V-48V	25V-55V	32V-55V
Operating Voltage Range	16V-60V	16V-60V	26V-60V
Maximum Input Voltage		60V	
Maximum Input Current	16A x 2	18A x 2	20A x 2
Output Data (AC)			
Maximum Continuous Output Power	640VA	768VA	880VA
Nominal Output Voltage/Range ⁽¹⁾		240V / 211V-264V	
Nominal Output Current	2.66A	3.20A	3.7A
Nominal Output Frequency/ Range ⁽¹⁾		60Hz/59.3Hz-60.5Hz	
Power Factor(Default/Adjustable)		0.99/0.7 leading, 0.7 lagging	
Maximum Units per 20A and 30A Branch ⁽²⁾	6/9	5/7	4/6
AC Bus Cable		12AWG / 10AWG	

Efficiency

Peak Efficiency	97%
CEC Efficiency	96.5%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	20mW

Mechanical Data

Operating Ambient Temperature Range	-40°F to +149°F (-40°C to +65°C)
Storage Temperature Range	-40°F to +185°F (-40°C to +85°C)
Dimensions (W x H x D)	10.3" x 8.6" x 1.6" (262mm X 218mm X41.2mm)
Weight	5.7lbs(2.6kg)
DC Connector Type	Stäubli MC4 PV-ADBP4-S2&ADSP4-S2
Cooling	Natural Convection - No Fans
Enclosure Environmental Rating	NEMA 6

Features

Communication (Inverter To ECU) ⁽³⁾	Encrypted ZigBee
Isolation Design	High Frequency Transformers, Galvanically Isolated
Energy Management	Energy Management Analysis (EMA) system
Warranty ⁽⁴⁾	10 Years Standard ; 25 Years Optional

Compliance

Safety and EMC Compliance	UL1741; CSA C22.2 No. 107.1-16; CA Rule 21 (UL 1741 SA); FCC Part15; ANSI C63.4; ICES-003; IEEE1547; NEC2014&NEC2017 Section 690.11 DC Arc-Fault circuit; Protection NEC2014&NEC2017 Section 690.12 Rapid Shutdown of PV systems on Buildings; NEC 2020
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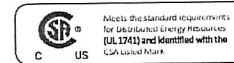
⁽¹⁾ Nominal voltage/frequency range can be extended beyond nominal if required by the utility.
⁽²⁾ Units may vary. Refer to local requirements to define the number of microinverters per branch in your area.

⁽³⁾ Recommend no more than 80 inverters register to one ECU for stable communication.

⁽⁴⁾ To be eligible for the warranty, APsystems microinverters need to be monitored via the APP portal. Please refer to our warranty FAQs available on www.apsystems.com

APsystems
600 Erickson Ave NE, Suite 209 Seattle, WA 98110
Tel.: 866-446-7435
info@apsystems.com

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Specifications subject to change without notice please ensure you are using the most recent update found at www.apsystems.com



Meets the standard requirements for UL-listed Energy Resources (UL 1741) and identified with the CSA Listed Mark

CONTRACTOR



Wolf River Electric
Address: T01 Isanti Parkway
NE, Isanti, MN 55040
Phone number: (763) 229-6662
E-mail: info@wolfriverelectric.com

INVERTER DATA SHEET

ENGINEERING

Drawn by: New@engineeringinc.io
DATE: 06/14/2023

Project Name:
Jack Siebring
Property Address:
900 Woodland Ave.
Fairmont, MN 56031

Project: PV SYSTEM Scale: AS INDICATED

D 6.0

www.jinkosolar.com



Cheetah 72M

380-400 Watt

MONO PERC MODULE

Positive power tolerance of 0~+3%

ISO9001:20015, ISO14001:2015, OHSAS18001 certified factory

IEC61215, IEC61730, UL1703 certified product

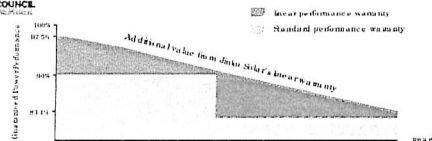
PERC

KEY FEATURES

- 5 Busbar Solar Cell**
 5 busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.
- High Efficiency**
 Higher module conversion efficiency (up to 20.17%) benefit from Privatized Hetero Junction (PHJ) technology.
- PID Resistance**
 Excellent Anti-PID performance guarantee limited power degradation during production.
- Low-light Performance:**
 Advanced glass and surface texturing allow for excellent performance in low-light environment.
- Seven-Weather Resilience**
 Certified to withstand wind load (2400 Pascals) and snow load (5400 Pascals).
- Durability Against Extreme Environmental Conditions**
 High salt mist and ammonia resistance certified by TUV SUD.

LINEAR PERFORMANCE WARRANTY

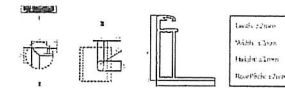
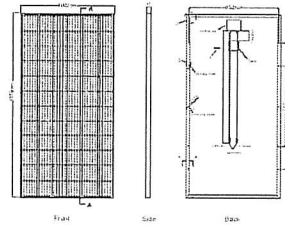
12 Year Product Warranty • 25 Year Linear Power Warranty



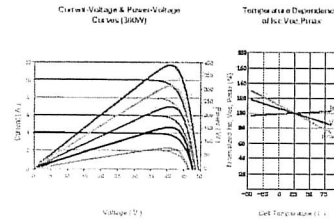
Manufacturer: JKMxxMM-60/72H-V

Code	Dev	Class	Certificate
60	Flat	60W	1000V
72	Flat	72W	1000V

Engineering Drawings



Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	Mono PERC 158.75x158.75mm
No. of cells	72 (6x12)
Dimensions	1979x1002x40mm (77.91x39.45x1.57 inch)
Weight	22.5 kg (49.6 lbs)
Front Glass	3.2mm Anti-Reflection Coating High Transmittance Low Iron Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Output Cables	TUV 1x4.0mm² Length: 900±100mm or Customized Length

Packaging Configuration

1 Foot pallet (20x32x1)
 25 Pallets/Stack, 54 Pcs/Stack, 594 Pcs/40'HQ Container

SPECIFICATIONS

Module Type	JKM3384-72		JKM3354-72		JKM3304-72		JKM3254-72		JKM3204-72	
	JKM3384-72V	JKM3354-72V	JKM3304-72V	JKM3254-72V	JKM3204-72V	JKM3384-72V	JKM3354-72V	JKM3304-72V	JKM3254-72V	JKM3204-72V
Minimum Power (Pmin)	330Wp	285Wp	240Wp	195Wp	150Wp	330Wp	285Wp	240Wp	195Wp	150Wp
Maximum Power Voltage (Vmp)	40.5V	38.0V	40.0V	38.0V	41.1V	39.1V	41.4V	39.3V	41.7V	39.6V
Maximum Power Current (Imp)	9.39A	7.42A	9.34A	7.48A	9.49A	7.64A	9.55A	7.60A	9.60A	7.65A
Open-circuit Voltage (Voc)	48.5V	47.5V	48.1V	47.7V	48.2V	48.0V	48.5V	48.2V	49.0V	48.5V
Short-circuit Current (Isc)	9.75A	7.85A	9.92A	7.95A	10.12A	8.02A	10.23A	8.09A	10.36A	8.16A
Module Efficiency (STC) (%)	19.16%	18.42%	18.87%	18.87%	19.52%	19.52%	19.52%	19.52%	20.17%	20.17%
Operating Temperature (°C)	-40°C ~ +85°C									
Maximum System Voltage	1000V (DC) (IEC)									
Maximum Series Fuse Rating	20A									
Power Tolerance	0~+3%									
Temperature Coefficients of Pmax	-0.21%/°C									
Temperature Coefficients of Voc	-0.29%/°C									
Temperature Coefficients of Isc	0.046%/°C									
Nominal Operating Cell Temperature (NOCT)	45±2°C									

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

NOCT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

* Power measurement tolerance: ± 3%

The company reserves the final right for explanation on any of the information presented hereby. JKM380-1000-72-01-A3-1-EN

CONTRACTOR



Wolf River Electric
 Address: 101 Isanti Parkway
 NE, Isanti, MN 55040
 Phone number: (763) 229-6662
 E-mail: contact@wolfriverelectric.com

MODULE DATA SHEET

ENGINEERING

Drawn by: New@engineeringinc.io
 DATE: 06/14/2023

Project Name:
 Jack Siebring
 Property Address:
 900 Woodland Ave,
 Fairmont, MN 56031

Project: PV SYSTEM Scale: AS INDICATED

D 7.0

Snap rack
Solar Mounting Solutions

Ultra Rail

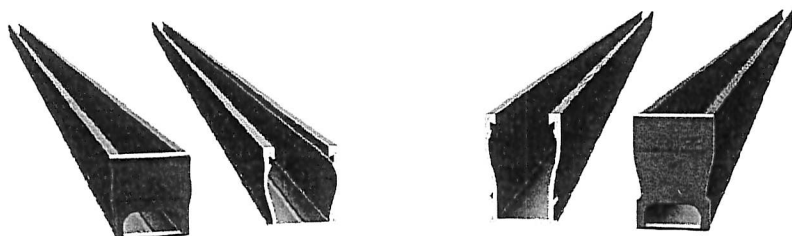
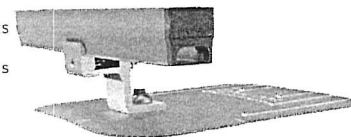
UR-40
UR-60

SnapNrack Ultra Rail System

A sleek, straightforward rail solution for mounting solar modules on all roof types. Ultra Rail features two rail profiles; UR-40 is a lightweight rail profile that is suitable for most geographic regions and maintains all the great features of SnapNrack rail, while UR-60 is a heavier duty rail profile that provides a larger rail channel and increased span capabilities. Both are compatible with all existing mounts, module clamps, and accessories for ease of install.

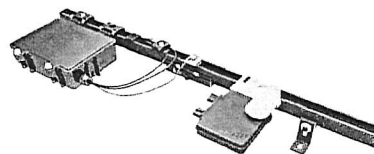
The Entire System is a Snap to Install

- New Ultra Rail Mounts include snap-in brackets for attaching rail
- Compatible with all the SnapNrack Mid Clamps and End Clamps customers love
- Universal End Clamps and snap-in End Caps provide a clean look to the array edge




Unparalleled Wire Management

- Open rail channel provides room for running wires resulting in a long-lasting quality install
- Industry best wire management offering includes Junction Boxes, Universal Wire Clamps, MLPE Attachment Kits, and Conduit Clamps
- System is fully bonded and listed to UL 2703 Standard




The Ultimate Value in Rooftop Solar

 Industry leading Wire Management Solutions

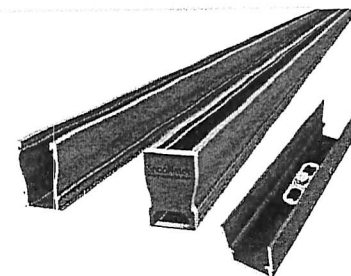
 Mounts available for all roof types

 Single Tool Installation

 All SnapNrack Module Clamps & Accessories are compatible with both rail profiles

Heavy Duty UR-60 Rail

- UR-60 rail profile provides increased span capabilities for high wind speeds and snow loads
- Taller, stronger rail profile includes profile-specific rail splice and end cap
- All existing mounts, module clamps, and accessories are retained for the same great install experience



RESOURCES snapnrack.com/resources
DESIGN snapnrack.com/configurator
WHERE TO BUY snapnrack.com/where-to-buy

Quality. Innovative. Superior.

SnapNrack Solar Mounting Solutions are engineered to optimize material use and labor resources and improve overall installation quality and safety.

877-732-2860 www.snapnrack.com contact@snapnrack.com

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CONTRACTOR

WOLF RIVER
ELECTRIC

Wolf River Electric
Address: 101 Isanti Parkway
NE, Isanti, MN 55040
Phone number: (763) 229-6662
E-mail: contact@wolfriverelectric.com

RACKING
DATA SHEET

ENGINEERING INC

Drawn by: New@engineerinc.io
DATE: 06/14/2023

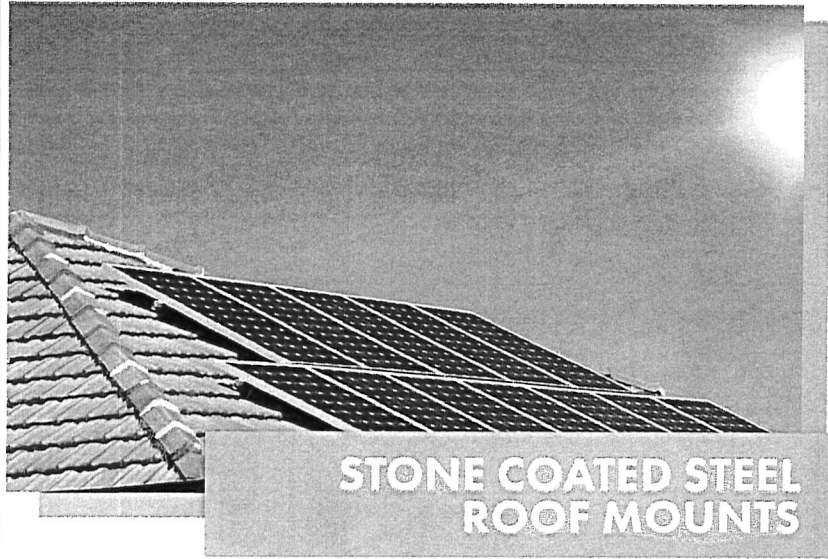
Project Name
Jack Siebring

Property Address:
900 Woodland Ave,
Fairmont, MN 56031

Project
PV SYSTEM

Scale
AS INDICATED

D 8.0

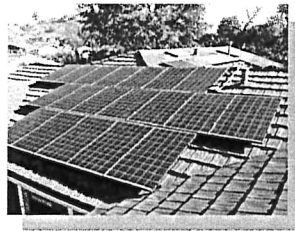


STONE COATED STEEL ROOF MOUNTS

QuickBOLT is one of the only suppliers of mounting solutions for Stone Coated Steel Roofs in America.


Stone Coated Steel is widely used among older homes.

Installers often refused to work on Stone Coated Steel roofs in the past because of the limited solutions available on the market. These hooks now give installers the opportunity to efficiently provide solar to homeowners with these roofs.




Available in styles that work with roofs with or without battens.


AVAILABLE ONLINE:




UL Certification



Specs & Test Results

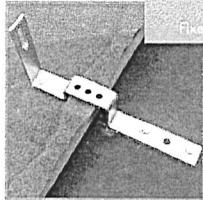



Installation Instructions




Videos

90° ROOF MOUNT
Fixed Height | 26.20mm Batten Bridge







SCS



Side Mount



1/4" x 3"



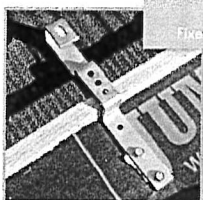
5/16" x 3"


Screw Kits Available

PN#	BOX QTY	SCREW SIZE
17620	20 Hooks	N/A
17622	20 Hooks/40 Screws	1/4" x 3"
17624	20 Hooks/40 Screws	5/16" x 3"


UL Certified

180° ROOF MOUNT
Fixed Height | 63.50mm Batten Bridge







SCS



Bottom Mount



1/4" x 3"



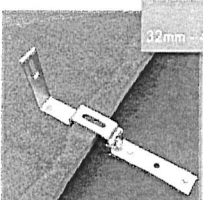
5/16" x 3"


Screw Kits Available

PN#	BOX QTY	SCREW SIZE
17536	20 Hooks	N/A
17538	20 Hooks/40 Screws	1/4" x 3"
17606	20 Hooks/40 Screws	5/16" x 3"


UL Certified

90° ROOF MOUNT
32mm - 48mm Range | 63.50mm Batten Bridge







SCS




Side Mount



Adjustable



1/4" x 3"



5/16" x 3"

Screw Kits Available

PN#	BOX QTY	SCREW SIZE
17548	20 Hooks	N/A
17550	20 Hooks/40 Screws	1/4" x 3"
17612	20 Hooks/40 Screws	5/16" x 3"

UL Certified

180° ROOF MOUNT
32mm - 48mm Range | 63.50mm Batten Bridge





SCS



Bottom Mount



Adjustable



1/4" x 3"



5/16" x 3"

Screw Kits Available

PN#	BOX QTY	SCREW SIZE
17552	20 Hooks	N/A
17554	20 Hooks/40 Screws	1/4" x 3"
17614	20 Hooks/40 Screws	5/16" x 3"

UL Certified

CONTRACTOR



Wolf River Electric
Address: 101 Isanti Parkway
NE, Isanti, MN 55040
Phone number: (763) 229-6662
E-mail: contact@wolfriverelectric.com

ATTACHMENT DATA SHEET

ENGINEERING

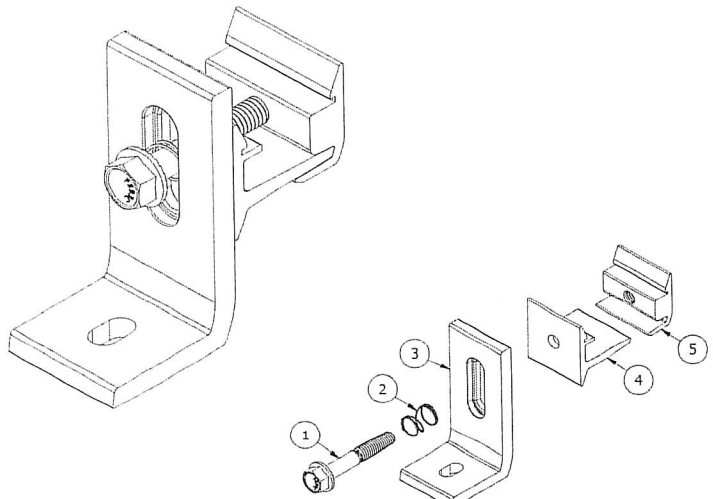
Drawn by: New@engineerinc.io
DATE: 06/14/2023

Project Name: Jack Siebring
Property Address: 900 Woodland Ave, Fairmont, MN 56031

Project: PV SYSTEM	Scale: AS INDICATED
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D 9.1

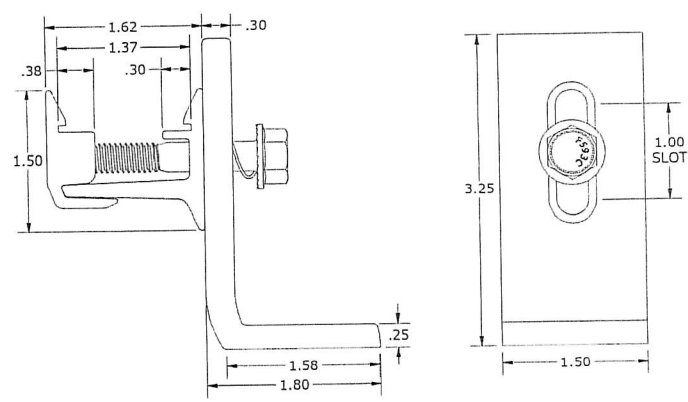
DESCRIPTION: SNAPNRACK, ULTRA RAIL ALL PURPOSE L FOOT (90 DEG)	DRAWN BY: mwatkins	
PART NUMBER(S): 242-01223, 242-01239	REVISION: C	THE INFORMATION IN THIS DRAWING IS UNCLASSIFIED AND UNCONTROLLED. ANY REPRODUCTION, DISSEMINATION OR USE OF THIS INFORMATION WITHOUT THE WRITTEN CONSENT OF THE ISSUING OFFICE IS PROHIBITED.

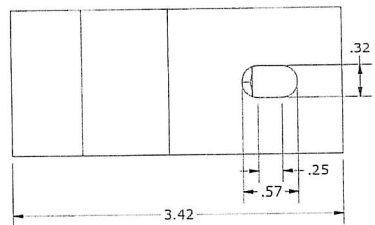


PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	BOLT, FLANGE, SERRATED, 5/16IN-18 X 2IN, SS
2	1	SNAPNRACK, RL UNIVERSAL, MOUNT SPRING, SS
3	1	SNAPNRACK, AP90 L FOOT, STEPPED, SILVER / BLACK
4	1	SNAPNRACK, ULTRA RAIL MOUNT THRU PRC, SILVER / BLACK
5	1	SNAPNRACK, ULTRA RAIL MOUNT TAPPED PRC, SILVER / BLACK

MATERIALS:	6000 SERIES ALUMINUM, STAINLESS STEEL	OPTIONS:
DESIGN LOAD (LBS):	405 UP, 788 DOWN, 213 SIDE	SILVER / BLACK ANODIZED
ULTIMATE LOAD (LBS):	N/A	
TORQUE SPECIFICATION:	12 LB-FT	
CERTIFICATION:	UL 2703, FILE E359313	
WEIGHT (LBS):	0.36	

DESCRIPTION: SNAPNRACK, ULTRA RAIL ALL PURPOSE L FOOT (90 DEG)	DRAWN BY: mwatkins	
PART NUMBER(S): 242-01223, 242-01239	REVISION: C	THE INFORMATION IN THIS DRAWING IS UNCLASSIFIED AND UNCONTROLLED. ANY REPRODUCTION, DISSEMINATION OR USE OF THIS INFORMATION WITHOUT THE WRITTEN CONSENT OF THE ISSUING OFFICE IS PROHIBITED.





ALL DIMENSIONS IN INCHES

CONTRACTOR

WOLF RIVER
ELECTRIC

Wolf River Electric
 Address: 101 Isanti Parkway
 NE, Isanti, MN 55040
 Phone number: (763) 229-6662
 E-mail: contact@wolfriver.com

ATTACHMENT
DATA SHEET

ENGINEERING INC

Drawn by: New@engineeringinc.io
 DATE: 06/14/2023

Project Name:
 Jack Siebring

Property Address:
 900 Woodland Ave,
 Fairmont, MN 56031

Project: PV SYSTEM Scale: AS INDICATED

D 9.2

MIDNITE SOLAR INC. Surge Protection

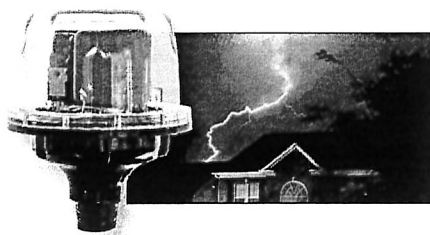
Surge Protection You Can Count On!

MidNite Solar Surge Protection Devices are type 1 devices, designed for indoor and outdoor applications. Engineered for both AC and PV DC electrical systems, they provide protection to service panels, load centers or electronic devices that are directly connected to a MidNite Surge Protection Device (SPD).

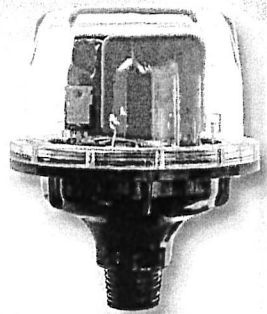
MidNite's SPDs are offered in four models to protect a variety of different voltage ranges. They achieve this protection by clamping surge voltage to a level that your system can sustain without damaging the components of the system.

Compare our SPDs against other surge protection devices. You will see there is no comparison in both our price and features. All our SPDs are made in the USA and have a 5 year warranty.

With lightning you only get one chance, so get the best!



www.midnitesolar.com/spd
17722 67th Ave. NE., Arlington, WA. 360-403-7207 FAX: 360-691-6862



MNSPD300ACFM (Cut-in box)
(MNSPD-300-AC included)



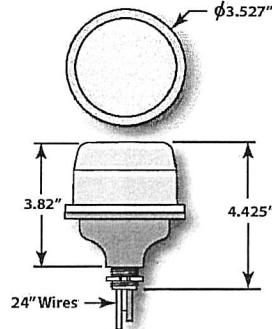
Four Models:

MNSPD-115
MNSPD-300-AC
MNSPD-300-DC
MNSPD-600



MidNite Surge Protection Devices

PART NUMBER	MNSPD-115	MNSPD-300-AC	MNSPD-300-DC	MNSPD-600
Nominal Voltage	0 to 90 VAC 0 to 115 VDC	0 to 250 VAC	0 to 300 VDC	0 to 480 VAC 0 to 600 VDC
MCOV	180V	470V	470V	780V
VPR Line to Ground	600V	1200V	1200V	1800V
Suggested Placement	Up to 90VAC circuits, 12V, 24V, 48VDC battery circuits	120/240 VAC circuits	Off-grid PV combiners Charge controller inputs up to 300VDC	316V/480 VAC circuits Grid-tie PV combiners Grid-tie inverter input Non-Isolated Inverters
Type	UL1449 4th Ed. Type 1	UL1449 4th Ed. Type 1	UL1449 4th Ed. Type 1	UL1449 4th Ed. Type 1
Diagnostic Blue LED	MNSPD-300-AC LED indicates when voltage is present between L1 + ground and L2 + ground MNSPD-115, MNSPD-300-DC and MNSPD-600: LED indicates when voltage is present between L1 + L2 (PV+ - PV-)			
Thermal Disconnect	Internal Fuse			
Response Time	<1 micro sec.			



Performance	Surge Current Rating per Phase	80kA
	Short Circuit Current Rating	10kA
Fusing	Thermal Fusing	Yes
	Over current Fusing	Yes
	Operating Frequency	0 to 500 Hz
Mechanical Description	Enclosure	Polycarbonate UL94V-0
	Environmental Rating	Type 4X
	Connection Method	#12 AWG
	Weight	1 lb.
	Mounting Method	1/2" Conduit Knockout
	Operating Altitude	Sea Level - 12,000' (3,658 Meters)
	Storage Temp	-40° F to +185° F (-40° C to +85° C)
	Operating Temp	-40° F to +185° F (-40° C to +85° C)
Diagnostics	Blue status LED, one per leg	
Listings and Performance	UL Standard for Safety, UL 1449 Surge Protective Devices-Fourth Edition CSA C22.2 No. 8-M1986 Electromagnetic Interference (EMI) Filters, Fourth Edition	

Model No.	Max Operating Voltage	Surge Current per Phase	Configuration	MCOV	SCCR	VPR 600V/3kA L-G
MNSPD-115	100 VAC/150VDC	80kA	1Ø, 3-wire (2 Legs)	180V L-N	10kA	600V
MNSPD-300-AC	300VAC	80kA	1Ø, 3-wire (2 Legs)	470V L-N	10kA	1200V
MNSPD-300-DC	385VDC	80kA	1Ø, 3-wire (2 Legs)	470V L-N	10kA	1200V
MNSPD-600	480VAC/600VDC	80kA	1Ø, 3-wire (2 Legs)	780V L-N	10kA	1800V

www.midnitesolar.com/spd
17722 - 67th Ave NE, Arlington, WA 98223 PH. 360-403-7207 FAX 360-691-6862

CONTRACTOR

WOLF RIVER
ELECTRIC

Wolf River Electric
Address: 101 Isanti Parkway
NE, Isanti, MN 55040
Phone number: (763) 229-6662
E-mail: contact@wolfriverelectric.com

SURGE PROTECTION

ENGINEERING INC

Drawn by: New@engineerinc.io
DATE: 06/14/2023

Project Name:
Jack Siebring
Property Address:
900 Woodland Ave,
Fairmont, MN 56031

Project: PV SYSTEM Scale: AS INDICATED

D 10.0

105



Certificate of Compliance

Certificate: 80069963 Master Contract: 259077
 Project: 80106790 Date Issued: 2021-12-15
 Issued to: Allenergy Power System Inc.
 No.1 Yantai Road
 Jiaxing, Zhejiang, 314050
 CHINA
 Attention: Kevin Lu

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by: *Magio Zhang*
 Magic Zhang

PRODUCTS

CLASS - C531109 - POWER SUPPLIES - Distributed Generation Power Systems Equipment
 CLASS - C531189 - POWER SUPPLIES - Distributed Generation-Power Systems Equipment - Certified to U.S. Standards

Grid Support Utility Interactive Microinverter, Models DS3-H, DS3, DS3-L and DS3-S, rack mounted.

For details related to rating, size, configuration, etc., reference should be made to the CSA Certification Record, Certificate of Compliance Annex A, or the Descriptive Report.

APPLICABLE REQUIREMENTS

CSA-C22.2 No.107.1-16 - Power Conversion Equipment
 *UL Std No. 1741-Third Edition - Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources (Third Edition, Dated September 28, 2021)



Certificate: 80069963 Master Contract: 259077
 Project: 80106790 Date Issued: 2021-12-15

*Note: Conformity to UL 1741 (Third Edition, Dated September 28, 2021) includes compliance with applicable requirements of IEEE 1547-2003 (R2008), IEEE 1547.1-2005(R2011), California Rule 21 and Supplement SA8-SA18.

*Note: This product is PV Rapid Shut Down Equipment and conforms with NEC-2014, NEC-2017 and NEC-2020 Article 690.12 and CEC-2018, CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according manufacturer's instructions

Notes:

Products certified under Class C531109 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca



CONTRACTOR

WOLF RIVER
 ELECTRIC

Wolf River Electric
 Address: 101 Isanti Parkway
 NE, Isanti, MN 55040
 Phone number: (763) 229-6662
 E-mail: contact@wolfriverelectric.com

INVERTER CERTIFICATION

ENGINEERING

Drawn by: New@engineerinc.io
 DATE: 06/14/2023

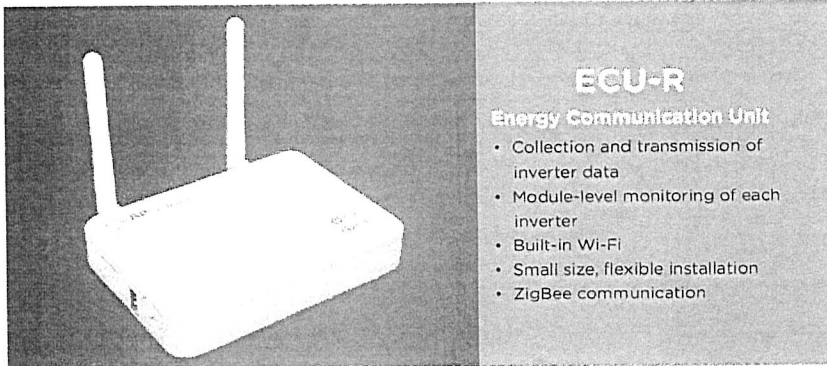
Project Name:
 Jack Siebring
 Property Address:
 900 Woodland Ave,
 Fairmont, MN 56031

Project: PV SYSTEM Scale: AS INDICATED

D 11.0



The global leader in
multi-platform MLPE technology

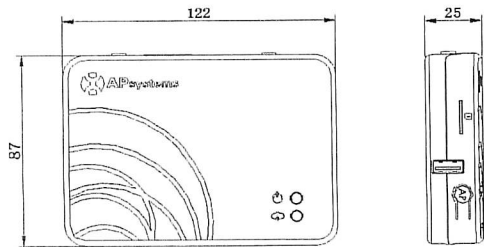


ECU-R

Energy Communication Unit

- Collection and transmission of inverter data
- Module-level monitoring of each inverter
- Built-in Wi-Fi
- Small size, flexible installation
- ZigBee communication

DIMENSIONS



The APsystems Communicator, our state-of-the-art Energy Communication Unit (ECU-R), is the information gateway for our APsystems inverters. It collects and transfers module performance data in real time, giving you comprehensive monitoring and control over each individual module, optimizing the performance of your solar array.

ECU-R Datasheet

Communication Interface	B02.11g/n
Integrated Wi-Fi	ZigBee 2.4 GHz
Communication	10/100 Auto-sensing, Auto-negotiation
Ethernet	WEP, WPA2-PSK
Wireless security	5Vac-1A Output x1
USB interface	
Power Date	
Power Supply	110VAC-240VAC, 50Hz-60Hz 5V 2A
Power Consumption	1.7 W
Mechanical Data	
Dimensions (W x H x D)	122mm x 87mm x 25mm (4.8" x 3.4" x 0.98")
Weight	150g (0.33lbs)
Ambient Temperature Range	-20°C to +65°C (-4°F to 149°F)
Cooling	Nature Convection - No Fans
Enclosure Environmental Rating	IP20 (Indoor - NEMA 1)
Features	
Compliance	IEC 60950-1, EN60950-1, IEC 60529, EN 60529, ANSI/UL 60950-1, CAN/CSA C22.2 No.60950-1, UL50E, FCC part 15, EN61000-6-1, EN61000-6-3, ICES-003, AS NZS 60950-1, GB/T17799

Specifications subject to change without notice.
Please ensure you are using the most recent update found at www.apsystems.com
© 2014 - All Rights Reserved

CONTRACTOR

WOLF RIVER
ELECTRIC

Wolf River Electric
Address: 101 Isanti Parkway
NE, Isanti, MN 55040
Phone number: (763) 229-6662
E-mail: contractor@wolfriverelectric.com

ECU-R DATA SHEET

ENGINEERING INC

Drawn by: New@engineering.io
DATE: 06/14/2023

Project Name:

Jack Siebring

Property Address:

900 Woodland Ave,
Fairmont, MN 56031

Project:

PV SYSTEM

Scale:

AS INDICATED

D 13.0

Attachment III: One-line Diagram Depicting the Distributed Energy Resource, Interconnection Facilities, and Metering Equipment, and Upgrades

Attachment VII: Assignment of Interconnection Agreement

This is an Assignment of Interconnection Agreement (“Agreement”).

There is an Interconnection Agreement, including any and all Attachments thereto including any and all amendments (“Agreement”) by and Fairmont Public Utilities, a municipal utility existing under the laws of the State of Minnesota, (“Area EPS Operator”), and

_____, (“Assignor”) originally signed by the Area EPS Operator on _____ for a Distributed Energy Resource (DER) described as follows:

DER System Information

Type of DER System: _____

Capacity Rating of System (AC): _____

Limited Capacity Rating (AC): _____

Address of DER System: _____

The Assignor intends to convey its interest in the above-referenced DER to _____ (“Assignee”), and the Assignor intends to assign the Agreement to the Assignee.

Upon the execution of this Assignment by the Assignor, Assignee and the Area EPS Operator, agree as follows:

1. **Capitalized Terms.** Capitalized terms used but not defined herein shall have the meanings set forth in the Agreement.
2. **Consent to Assignment.** The Assignor hereby irrevocably assigns the Agreement in all respects to the Assignee and the Assignee accepts the assignment thereof in all respects.
3. **Amendment to Agreement.** The Area EPS Operator consents to this assignment and, as assigned, the Agreement is hereby amended so that wherever the name of the Assignor

is used therein it shall mean the Assignee. It is further agreed that all terms and conditions of the Agreement, as amended by this Assignment, shall remain in full force and effect.

- 4. **Payments by Area EPS Operator.** Any and all payments made by Area EPS Operator under the Agreement to either the Assignor or the Assignee shall be deemed to have been made to both and shall discharge the Area EPS Operator from any further liability with regard to said payment.

- 5. **Financial Obligations of Assignor and Assignee.** Any and all financial liability, including but not limited to amounts due, from the Interconnection Customer to the Area EPS Operator, occurring or accruing under the Agreement on or before the date of the signature of the Area EPS Operator to this Assignment shall be deemed to be the obligation of both the Assignor and Assignee, and the Area EPS Operator may recover any such amounts jointly and severally from the Assignor and Assignee.

- 6. **Contact information.** The following information updates and replaces the designated information as set forth on page 1 of the Agreement, and in Section 28.1, 28.2, 28.3 and 28.4 of the Agreement.

Page 1 Interconnection Customer Information

Interconnection Customer: _____
 Attention: _____
 Address: _____

 Phone: _____
 Email: _____

28.1 General Notices. Interconnection Customer Information

Interconnection Customer: _____
 Attention: _____
 Address: _____

 Phone: _____
 Email: _____

28.2 Billing and Payment Notices. Interconnection Customer Information

Interconnection Customer: _____
Attention: _____
Address: _____

Phone: _____
Email: _____

28.3 Alternative Forms of Notices. Interconnection Customer Information

Interconnection Customer: _____
Attention: _____
Address: _____

Phone: _____
Email: _____

28.4 Designated Operating Representative. Interconnection Customer Information

Interconnection Customer: _____
Attention: _____
Address: _____

Phone: _____
Email: _____

- 7. Signatures.** Facsimile or electronic signatures, or signatures to this Assignment sent electronically, shall have the same effect as original signatures. Photocopies, or electronically stored versions of this Assignment, shall have the same validity as the original.

The Area EPS Operator, Assignor, and Assignee have executed this Assignment as of the dates as set forth below.

Assignor

[Insert legal name of Assignor]

Signed: _____

Name (Printed): _____

Title: _____

Date: _____

Assignee

[Insert legal name of Assignee]

Signed: _____

Name (Printed): _____

Title: _____

Date: _____

Area EPS Operator

Fairmont Public Utilities

Signed: _____

Name (Printed): _____

Title: _____

Date: _____



Fairmont Public Utilities Commission
July 18, 2023

Agenda Item: 7.3

From: Miles Heide – Electric Department Superintendent
To: Public Utilities Commission

Subject: Approval of Electric Department PO 14775 – CIP Transformer Purchase

Policy/Action Requested:

Vote Required: Simple Majority Roll Call

Recommendation: Approval

Overview: The Line Department is seeking approval to purchase 24 Power Transformers of various sizes for restock purposes. The lead times on these transformers will place them in fiscal year of 2024.

Please find the enclosed three quotes from Irby, Wesco, and DSG. The requested purchase amount is for half of the quantities quoted.

Budget Impact: 2024 CIP Transformer Purchases

Attachments: PO #14775 and quotes

PUC Action: _____ Date: _____

Quotation



STUART C IRBY BR673 EAGAN
 980 LONE OAK ROAD
 SUITE 145
 EAGAN MN 55121-2508
 763-588-0545

QUOTE DATE	ORDER NUMBER
05/08/23	S013536572
REMIT TO: STUART C IRBY CO POST OFFICE BOX 741001 ATLANTA GA 30384-1001	PAGE NO. 1

SOLD TO:
 CITY OF FAIRMONT
 100 DOWNTOWN PLAZA
 FAIRMONT, MN 56031

SHIP TO:
 CITY OF FAIRMONT
 1120 MARCUS STREET
 FAIRMONT, MN 56031-3744
 507-238-9461

ORDERED BY: MILES

CUSTOMER NUMBER		CUSTOMER ORDER NUMBER		JOB/RELEASE NUMBER		OUTSIDE SALESPERSON	
114996						Troy E Deal	
INSIDE SALESPERSON			REQD DATE	FRGHT ALLWD	SHIP VIA		
Jeffrey M La			05/08/23	Yes	BW BEST-WAY		
ORDER QTY	SHIP QTY	LINE	DESCRIPTION			Net	Ext Amt
10EA		1	*HOIN S107212-NT-LP-DF-WI-BF-T2 1P PAD-MT TRANSFORMER 10KVA TYPE II, HV: 12470GRDY/7200 LV: 240/120 NO TAPS LOOP FEED DEAD FRONT WELLS & INSERTS 5/8 STUD SEC BAYONET FUSE 6210-232376-202			2160.000EA	21600.00
6EA		2	*HOIN S157212-NT-LP-DF-WI-BF-T2 1P PAD-MT TRANSFORMER 15KVA TYPE II HV: 12470GRDY/7200 LV: 240/120 NO TAPS LOOP FEED DEAD FRONT WELLS & INSERTS 5/8 STUD SEC BAYONET FUSE 6215-232376-203			2690.000EA	16140.00
6EA		3	*HOIN S257212-NT-LP-DF-WI-BF-T2 1P PAD-MT TRANSFORMER 25KVA TYPE II HV: 12470GRDY/7200 LV: 240/120 NO TAPS LOOP FEED DEAD FRONT WELLS & INSERTS 5/8 STUD SEC BAYONET FUSE 6225-232376-204			3000.000EA	18000.00
6EA		4	*HOIN S377212-NT-LP-DF-WI-BF-T2 1P PAD-MT TRANSFORMER 37.5KVA TYPE II HV: 12470GRDY/7200 LV: 240/120 NO TAPS LOOP FEED DEAD FRONT WELLS & INSERTS 5/8 STUD SEC BAYONET FUSE 6237-232376-200			3560.000EA	21360.00
*** Continued on Next Page ***							



STUART C IRBY BR673 EAGAN
 980 LONE OAK ROAD
 SUITE 145
 EAGAN MN 55121-2508
 763-588-0545

Quotation

QUOTE DATE	ORDER NUMBER
05/08/23	S013536572
REMIT TO: STUART C IRBY CO POST OFFICE BOX 741001 ATLANTA GA 30384-1001	PAGE NO. 2

SOLD TO:
 CITY OF FAIRMONT
 100 DOWNTOWN PLAZA
 FAIRMONT, MN 56031

SHIP TO:
 CITY OF FAIRMONT
 1120 MARCUS STREET
 FAIRMONT, MN 56031-3744
 507-238-9461

ORDERED BY: MILES

CUSTOMER NUMBER		CUSTOMER ORDER NUMBER		JOB/RELEASE NUMBER		OUTSIDE SALESPERSON	
114996						Troy E Deal	
INSIDE SALESPERSON			REQD DATE	FRGHT ALLWD	SHIP VIA		
Jeffrey M La			05/08/23	Yes	BW BEST-WAY		
ORDER QTY	SHIP QTY	LINE	DESCRIPTION			Net	Ext Amt
10EA		5	*HOIN S507212-NT-LP-DF-WI-BF-T2 1P PAD-MT TRANSFORMER 50KVA TYPE II, HV: 12470GRDY/7200 LV: 240/120 NO TAPS LOOP FEED DEAD FRONT WELLS & INSERTS 5/8 STUD SEC BAYONET FUSE 6250-232376-200			4890.000EA	48900.00
6EA		6	*HOIN S757212-NT-LP-DF-WI-BF-T2 1P PAD-MT TRANSFORMER 75KVA TYPE II HV: 12470GRDY/7200 LV: 240/120 NO TAPS LOOP FEED DEAD FRONT WELLS & INSERTS 5/8 STUD SEC BAYONET FUSE 6275-232376-200			5820.000EA	34920.00
4EA		7	*HOIN S1007212-NT-LP-DF-WI-BF-T2 1PH PAD-MT TRANSFORMER 100KVA TYPE II HV: 12470GRDY/7200 LV: 240/120 NO TAPS LOOP FEED DEAD FRONT WELLS & INSERTS 1" STUD SEC BAYONET FUSE 6280-232376-200			7990.000EA	31960.00

*** This is a quotation ***

Prices firm for acceptance within 30 days with the exception of commodity prices which are subject to change daily. Quotation is void if changed. Complete quote must be used unless authorized in writing.

OUR PRODUCT AND SERVICES ARE SUBJECT TO, AND GOVERNED EXCLUSIVELY BY, OUR TERMS AND CONDITIONS OF SALE, WHICH ARE INCORPORATED HEREIN AND AVAILABLE AT www.irby.com/terms. ADDITIONAL OR CONFLICTING TERMS ARE REJECTED, VOID AND OF NO FORCE OR EFFECT.

Subtotal	192880.00
S&H CHGS	0.00
Sales Tax	0.00
TOTAL	192880.00

** Reprint ** Reprint ** Reprint **



DAKOTA SUPPLY GROUP - SXF
 800 E 60th St N Suite A
 SIOUX FALLS, SD 57104
 Phone 605-336-3090
 Fax



Quotation

EXPIRATION DATE	QUOTE NUMBER
05/15/2023	S102724859
WRITER	PAGE NO.
Lucas Anderson lucas.anderson@dsgsupply.com	1 of 1

QUOTE TO:

SHIP TO:

FAIRMONT PUBLIC UTILITIES
 100 DOWNTOWN PLZ
 ELECTRIC DEPARTMENT
 FAIRMONT, MN 56031-1709

FAIRMONT PUBLIC UTILITIES
 1120 MARCUS ST
 FAIRMONT, MN 56031

CUSTOMER NUMBER	CUSTOMER PO NUMBER	JOB NAME / RELEASE NUMBER	SALESPERSON		
2358			Chris Silber		
ORDERED BY	SHIP VIA	TERMS	QUOTE DATE	FREIGHT ALLOWED	
	WILL CALL	Net 25th Prx	05/10/2023	No	
ORDER QTY	DESCRIPTION		PART NO	Unit Price	EXT PRICE
10ea	MIDWEST 10KVA 1PH PADMOUNT TRANSFORMER PRIMARY VOLTAGE: 12470Y/7200 (60 KV BIL) SECONDARY VOLTAGE: 240/120 (30 KV BIL * Item not returnable without RGA *		564557	4765.625/ea	47656.25
6ea	MIDWEST 15KVA 1PH PADMOUNT TRANSFORMER PRIMARY VOLTAGE: 12470Y/7200 (60 KV BIL) SECONDARY VOLTAGE: 240/120 (30 KV BIL * Item not returnable without RGA *		564559	5359.375/ea	32156.25
6ea	MIDWEST 25KVA 1PH PADMOUNT TRANSFORMER PRIMARY VOLTAGE: 12470Y/7200 (60 KV BIL) SECONDARY VOLTAGE: 240/120 (30 KV BIL * Item not returnable without RGA *		564563	6369.792/ea	38218.75
6ea	MIDWEST 37.5KVA 1PH PADMOUNT TRANSFORMER PRIMARY VOLTAGE: 12470Y/7200 (60 KV BIL) SECONDARY VOLTAGE: 240/120 (30 KV BIL * Item not returnable without RGA *		564564	6885.417/ea	41312.50
10ea	MIDWEST 50KVA 1PH PADMOUNT TRANSFORMER PRIMARY VOLTAGE: 12470Y/7200 (60 KV BIL) SECONDARY VOLTAGE: 240/120 (30 KV BIL * Item not returnable without RGA *		564566	7401.042/ea	74010.42
6ea	MIDWEST 75KVA 1PH PADMOUNT TRANSFORMER PRIMARY VOLTAGE: 12470Y/7200 (60 KV BIL) SECONDARY VOLTAGE: 240/120 (30 KV BIL * Item not returnable without RGA *		564567	10026.042/ea	60156.25
4ea	MIDWEST 100KVA 1PH PADMOUNT TRANSFORMER PRIMARY VOLTAGE: 12470Y/7200 (60 KV BIL) SECONDARY VOLTAGE: 240/120 (30 KV BIL * Item not returnable without RGA *		564569	12052.083/ea	48208.33
Shipment: 14-24 Weeks ARO. Staggered Shipping. Warranty: 1 Year					

TAX IS NOT INCLUDED IN PRICE ON BID/QUOTE
 All quotations are made in accordance with our interpretation of the plans and specifications and include only the materials listed, subject to correction for errors. Deviations in quantities may modify prices quoted. Unless otherwise noted: all prices are subject to change without notice and are void unless accepted within 30-days from the date. In the event of a price increase, any unfilled portion of any order will be billed at the price in effect at the time of shipment. DSG shall not be liable for failure to deliver or delivery performance due to causes beyond our reasonable control. A Summary of DSG standard terms & conditions of sales can be found at www.dsgsupply.com/terms.

Subtotal	341718.75
S&H Charges	0.00
Amount Due	341718.75

05-11-2023
 REF ATHENS NEG NO: FAIR21 WES City of Fairmont, MN
 Quote Date: 5/11/2023
 Quote Expiration Date: 6/9/2023
 Quoted per WESCO Terms and Conditions:

www.wesco.com/termsofsale

 "This quote is based on DOE2016, if there are any changes in DOE requirements prior to shipment, Price and Design would be adjusted by Jan 1st 2026 which would require a PO change based on new standard"

- Items quoted with very little information provided, please meticulously review all components before submitting the order.
- We quoted according with IEEE C57.12.38, for single phase pad mount transformer, we take exception to other specs.

ITEM	QTY	PRODUCT	PRICE	EXTENDED PRICE
1	6	Q7111W15ZZS25R1 Padmounted Transformer; Type-2 15 KVA No Load: 38 Watts at 20 degrees C; Load: 259 Watts at 85 degrees C; Total Loss: 297 Watts 12470GY/7200 HV; 95 BIL; Aluminum HV Winding Matl 240/120 LV; 30 * 30 BIL; LV Interlaced; Aluminum LV Winding Matl 60 Hz 1 Phase Transformer Weight: 656.91 lbs.; Height: 26 in.; Width: 34.00 in.; Depth: 34.00 in. Est. C/C Weight: 112.4 lbs. 65 Temp. Rise; 1 BayONet Current Sensing Fuse, 6amp, 4000353C04 1 Isolation Link, Cooper, Mounted on BayONet, 3001861A01M 2 HV Bushing Well, CM, 150 BIL, Fixed Stud 3 LV Bush, PAD, 5/8 EXT STUD, 3/8 INT TERM, CM 70131561 1 16x26x34" Tank (25 kVA and below) Type-2 39 Gal(s) of Transformer Oil 1 0.5" Brass Plug for Drain; 0.5" Brass Plug for Oil Fill 1 Pressure Relief Device; Viat 302-010-01N,, 50SCFM w/ pull ring	\$4,214.00 ea.	\$25,284.00
3	10	Q7111W10ZZS25R1 Padmounted Transformer; Type-2 10 KVA No Load: 34 Watts at 20 degrees C; Load: 142 Watts at 85 degrees C; Total Loss: 176 Watts 12470GY/7200 HV; 95 BIL; Aluminum HV Winding Matl 240/120 LV; 30 * 30 BIL; LV Interlaced; Aluminum LV Winding Matl 60 Hz 1 Phase Transformer Weight: 637.33 lbs.; Height: 26 in.; Width: 34.00 in.; Depth: 34.00 in. Est. C/C Weight: 90.39 lbs. 65 Temp. Rise; 1 BayONet Current Sensing Fuse, 6amp, 4000353C04 1 Isolation Link, Cooper, Mounted on BayONet, 3001861A01M	\$4,052.00 ea.	\$40,520.00

- 2 HV Bushing Well, CM, 150 BIL, Fixed Stud
 - 3 LV Bush, PAD, 5/8 EXT STUD, 3/8 INT TERM, CM 70131561
 - 1 16x26x34" Tank (25 kVA and below) Type-2
 - 39. Gal(s) of Transformer Oil
 - 1 0.5" Brass Plug for Drain; 0.5" Brass Plug for Oil Fill
 - 1 Pressure Relief Device; Viat 302-010-01N,, 50SCFM w/ pull ring
- 4 6 Q7111W25ZZT22S1 \$4,594.00 ea. \$27,564.00
- Padmounted Transformer; Type-2
25 KVA
No Load: 58 Watts at 20 degrees C; Load: 329 Watts at 85 degrees C; Total Loss: 387 Watts
12470GY/7200 HV; 95 BIL; Aluminum HV Winding Matl
240/120 LV; 30 * 30 BIL; LV Interlaced; Aluminum LV Winding Matl
60 Hz
1 Phase
Transformer Weight: 706.21 lbs.; Height: 26 in.; Width: 34.00 in.; Depth: 34.00 in.
Est. C/C Weight: 169.76 lbs.
65 Temp. Rise;
- 1 BayONet Current Sensing Fuse, 10amp, 4000353C06
 - 1 Isolation Link, Cooper, Mounted on BayONet, 3001861A02M
 - 2 HV Bushing Well, CM, 150 BIL, Fixed Stud
 - 3 LV Bush, PAD, 5/8 EXT STUD, 3/8 INT TERM, CM 70131561
 - 1 16x26x34" Tank (25 kVA and below) Type-2
 - 37. Gal(s) of Transformer Oil
 - 1 0.5" Brass Plug for Drain; 0.5" Brass Plug for Oil Fill
 - 1 Pressure Relief Device; Viat 302-010-01N,, 50SCFM w/ pull ring
- 5 6 Q7111W37ZZT22S1 \$5,143.00 ea. \$30,858.00
- Padmounted Transformer; Type-2
37.5 KVA
No Load: 85 Watts at 20 degrees C; Load: 425 Watts at 85 degrees C; Total Loss: 510 Watts
12470GY/7200 HV; 95 BIL; Aluminum HV Winding Matl
240/120 LV; 30 * 30 BIL; LV Interlaced; Aluminum LV Winding Matl
60 Hz
1 Phase
Transformer Weight: 813.55 lbs.; Height: 26 in.; Width: 34.00 in.; Depth: 36.00 in.
Est. C/C Weight: 227.08 lbs.
65 Temp. Rise;
- 1 BayONet Current Sensing Fuse, 15amp, 4000353C08
 - 1 Isolation Link, Cooper, Mounted on BayONet, 3001861A02M
 - 2 HV Bushing Well, CM, 150 BIL, Fixed Stud
 - 3 LV Bush, PAD, 5/8 EXT STUD, 3/8 INT TERM, CM 70131561
 - 1 18x26x34" Tank (50 kVA and below) Type-2
 - 41. Gal(s) of Transformer Oil
 - 1 0.5" Brass Plug for Drain; 0.5" Brass Plug for Oil Fill
 - 1 Pressure Relief Device; Viat 302-010-01N,, 50SCFM w/ pull ring

Item	R	X	Imp	Iexc	RegPF*	EffPU*	DOE Min	DOE Eff	DOE Met	2016 Req	2016 Met
1	1.52	2.02	2.53	0.36	0.80	100.00	98.76	98.82	YES	98.82	YES
3	1.42	1.68	2.20	0.53	0.80	100.00	98.62	98.70	YES	98.70	YES
4	1.31	2.25	2.60	0.35	0.80	100.00	98.91	98.95	YES	98.95	YES
5	1.11	2.52	2.75	0.36	0.80	100.00	99.01	99.06	YES	99.05	YES

(*)From Customer Specifications.

National (DOE) Efficiency Standard Information.

All the Calculated DOE Efficiencies are @ 50% Load, PF of 1, NL @ 20C & LL @ 55C.

Item	Eff@ 25%	Eff@ 50%	Eff@ 75%	Eff@ 100%	Eff@ 125%	Reg@ .8PF	Reg@ .9PF	Reg@ 1.0PF	NL@ 105%	NL@ 110%	EXI@ 105%	EXI@ 110%
1	98.23	98.32	98.00	97.58	97.13	2.49	2.36	1.74	44.00	56.00	0.60	1.50
3	97.90	98.29	98.14	97.85	97.51	2.15	2.01	1.43	40.00	53.00	1.00	2.80
4	98.45	98.62	98.41	98.10	97.76	2.40	2.17	1.34	68.00	88.00	0.60	1.70
5	98.53	98.74	98.58	98.33	98.04	2.42	2.13	1.16	102.00	136.00	0.70	2.20

PRICES INTENDED TO BE FIRM FOR 30 DAYS; HOWEVER, DUE TO RAPID RAW MATERIAL CHANGES PRICE CHANGE MIGHT BE REQUIRED AT TIME OF ORDER. (CONFIRM PRICING 24 HOURS PRIOR TO ORDER)

Cancellation. Purchaser may cancel any order only upon prior written notice and payment of termination charges, including but not limited to the following

A. Units in the manufacturing process, less than twenty weeks prior to scheduled manufacturing completion, 100% of price per unit.

B. After 4 weeks of order placement, 33% cancellation charge regardless of place in manufacturing.

Power Partners is now manufacturing single phase padmount transformers 10 thru 100 kva.

For Order Entry:

Please put the division negotiation number, division negotiation item number and complete 10 to 15-character style number on the order at the time of order entry when submitting to Power Partners LLC. If this information is not complete and correct, order is subject to cancellation. Modifications to the quoted bill of material must be reviewed with Athens sales engineer prior to order entry. Send to orders@powerpartners-usa.com

Quote Validity:

Quote valid for 30 days unless stated otherwise on quote.

Price Validity:

On firm orders: Prices are valid for 60 days after receipt of order.

For more information about Overhead Distribution Transformers please click <http://www.powerpartners-usa.com> for downloadable product guides.

Orders must be entered on or before quote expiration date shown above. Otherwise RFQ's will need to be resubmitted.

Overhead transformer lead times for items not in stock or production are per the chart below. Lead times are from date of order entry at Athens to date of shipment & are subject to available production space at order entry. Contact division sales engineer for availability and price adjustment for shorter lead time. Enter a complete 10 character or 15 character style number at time of order entry.

----- **FACTORY LEAD TIMES** -----

kVA	Weeks	Description
Core form 5 – 37.5 kVA	142	(styles that begin with K, L, M, & N)
Small Shell form 5 – 75 kVA	142	(styles that begin with A, B, C, & D)
Pad Mount 10 – 100 kVA	176	(styles that begin with P,Q)
Large 100 – 833 kVA	142	
Jumbos	142	
3-Phase	142	
RUTs/Submersibles	142	
1000 kVA	142	

*****NOTICE*****

Inside of this standard listed lead times will be three Holiday shutdown periods. PLEASE ADD 4 WEEKS TO THESE PUBLISHED LEAD TIMES.

NOTES:

- ALL 200 BIL units are manufactured on our Large product line.
- 4800V primary and below, the bushings will be side wall mounted.

On new orders, acknowledgement of scheduled ship date will be sent 5-10 business days after order entry. "Quoted prices include transportation fuel surcharge."

Lead times are based on available production space at time of order entry.

We quote our distributor F.O.B. point of shipment. It is our distributor's responsibility to quote F.O.B. destination if shipped outside the US.

Our nameplate is engraved as follows: "Filled with either mineral oil or Natural Ester Fluid that contained less than 1 p.p.m. PCB at time of manufacture."

Our standard centerbolt cover is offered as a pressure relief device. It is self-venting and resealing per IEEE standards. In accordance with IEEE standards, all transformers 250 kVA and greater are fitted with the B-Style hanger bracket as designated on page 19 in spec IEEE C57.12.20.2005.

PPI std. Warranty: 18 months from ship date or 1 year from installation. Not to be used as grounding transformers. This will void warranty.

Please put the division negotiation number, division negotiation item number and complete 10 to 15 character style number on the order at the time of order entry. If this information is not complete and correct, order is subject to cancellation. "Modifications to the quoted bill of material must be reviewed with Athens sales engineer prior to order entry."

Quote Validity:

Quote valid for 30 days unless stated otherwise on quote.

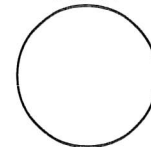
Price Validity:

On firm orders: Prices are valid for 60 days after receipt of order.

Price validity on approval orders: Prices are valid for 30 days after initial mailing date of approval drawings. Orders not released for manufacture within 30 days of the initial drawing date are subject to adjustment of pricing. Orders on hold pending drawing approval beyond 30 day of initial drawing date are subject to price adjustment every 30 days.

We take exception to supplying a stainless steel nameplate. Instead we will provide a high quality anodized aluminum nameplate. Overhead units will be supplied with manufacturer ID and serial number barcoded on the nameplate in response to an industry direction. To ensure the necessary readability and life, the anodized aluminum offers superior performance, and was verified by our life, performance tests.

North



Fairmont Public Utilities Power System Sketch

Date _____

W. O. No. _____

Sec. Map No. _____

Acct. No. _____

		<u>IRBY</u>	<u>DSG</u>	<u>WESCO</u>
✓ 10KVA	10	2160. ⁰⁰	4765. ⁰⁰	4052. ⁰⁰
15 KVA	6	2690. ⁰⁰	5359. ⁰⁰	4214. ⁰⁰
25 KVA	6	3000. ⁰⁰	6369. ⁰⁰	4594. ⁰⁰
37.5 KVA	6	3560. ⁰⁰	6885. ⁰⁰	5143. ⁰⁰
✓ 50 KVA	10	4890. ⁰⁰	7401. ⁰⁰	No Bid
✓ 75 KVA	6	5820. ⁰⁰	10026. ⁰⁰	No Bid
100 KVA	4	7990. ⁰⁰	12052. ⁰⁰	No Bid.
		?	14-24 weeks	17 weeks
		<u>\$ 192,880.⁰⁰</u>	\$ 341,718. ⁷⁵	\$ 18,003. ⁰⁰
		Half 105420. ⁰⁰ 96,440. ⁰⁰		



Fairmont Public Utilities Commission
July 18, 2023

Agenda Item: 7.4

From: Miles Heide – Electric Department Superintendent
To: Public Utilities Commission

Subject: Approval of Electric Department PO 14771 – CIP Replace High Voltage Switches

Policy/Action Requested:

Vote Required: Simple Majority Roll Call

Recommendation: Approval

Overview: Staff is seeking approval for the purchase of a 15KV dead front padmount switchgear and box pad. This is a 2023 Budgeted item under Replace High Voltage Switches.

Budget Impact: 2023 CIP Replace High Voltage Switches

Attachments: PO #14771 and quotes

PUC Action: _____ Date: _____



FP QUOTATION

TO: Fairmont Public Utilities
 DATE: April 14, 2023
 SUBJECT: RFQ for Fairmont Public Utilities
 FP Quotation #: 546766

WESCO

TOTAL NUMBER OF PAGES 2 (including this sheet)

THE FOLLOWING BILL OF MATERIAL CONSTITUTES OUR COMPLETE OFFERING; NO OTHER WRITTEN SPECIFICATIONS WILL APPLY.

<u>Item</u>	<u>Qty</u>	<u>Description</u>
1	1	PSE-9-44222 15KV, 95KV BIL, Dead-front, Air Insulated , Padmounted Switchgear with two (2) 3-pole 600 amp group operated Auto-jet switches provided with dead-break 600 amp bushings (one (1) per phase) and two (2) 3-phase set(s) of fuse mountings for SMU-20 fuses provided with 200 amp bushing wells (one (1) per phase). Pricing.....\$17,265.00 each

Net Adders (If Required):

1.	As Required:	FP-3097 Fuse End Fittings Price.....\$325.00 each
2.	As Required:	SMU-20 Fuse units Price.....\$325.00 each
3.	As Required:	LBI215 Load Break Inserts (200 amp Compartments) Price.....\$50.00 each

Notes:

- Fuse information (size & speed) must be available either at time of order entry or in time to receive the fuses at FP prior to padmount shipment. Otherwise, fuses must be shipped short and the freight charges for the fuse shipment will be prepaid and added to the invoice.
- If the fuse data is not available as outlined above, steps can be taken to expedite the fuses by shipping via air from emergency stock, if available at time required, at a premium adder of 25% plus \$150.00 plus cost of air shipment.

Comments and Clarifications:

This quotation is based upon information supplied to the Factory, which may or may not have been complete. Customer is responsible for reviewing this quotation for compliance, deviations, exclusions, and improper information supplied. If you feel an error or omission has been made, please contact Factory immediately.

Elbows are not included as a part of our proposal.

This quotation is valid for 30 days. In the event you delay the Shipment Date for any reason, we reserve the right to revise the prices listed herein or revoke the quote in its entirety..

Normal shipments shall begin within approximately **28-30 weeks** after our acceptance of your formal purchase order so long as you have provided all technical details and data required to release the equipment for manufacture (the "Shipment Date"). If a better shipping schedule is required, please consult the Factory for review of our current manufacturing schedule. When drawing approval is required, the Shipment Date will be delayed by the time necessary for the drawing approval process. Approval drawings (if required) will be submitted within approximately **3-4 weeks** after our acceptance of an order. Hold for approval orders not released within **30 days** shall be reviewed and subject to price increases. The Shipment Date is subject to change at time of order release based on current production backlog.

Freight Terms

- (1) **Freight allowed Fairmont, MN.**
- (2) The seller will determine the method of transportation and the routing of the shipment. Where the purchaser requires shipment by a method of transportation or routing other than that of the seller's selection, any additional transportation and/or packing expense is to be borne by the purchaser.



Fairmont Public Utilities Commission
July 18, 2023

Agenda Item: 7.5

From: Paul Hoyer, Finance Director
To: Public Utilities Commission

Subject: 2022 Audit Overview

Policy/Action Requested:

Vote Required: ___ Simple Majority ___ Roll Call

Recommendation: Informational

Overview:

Paul Hoyer, Finance Director, along with the auditors from Bergan KDV, will be giving a brief overview of the 2022 Annual Audit.

Budget Impact: N/A

Attachments: Audit Presentation

PUC Action: _____ Date: _____

**DO
MORE.**

City of Fairmont Public Utilities Commission

Audit Presentation

December 31, 2022

bergankDV

Independent Auditor's Report

- Opinion on the City's Basic Financial Statements
- Management is responsible for the financial statements
- Auditor is responsible for expressing an opinion on the financial statements
- Unmodified Opinion – best opinion an auditor is able to offer
- Provides assurance that the financial statements are fairly presented in all material respects

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Government Audit Standards Report

- Report on the results of an audit performed in accordance with *Government Auditing Standards*
 - Adjustments to year-end accruals

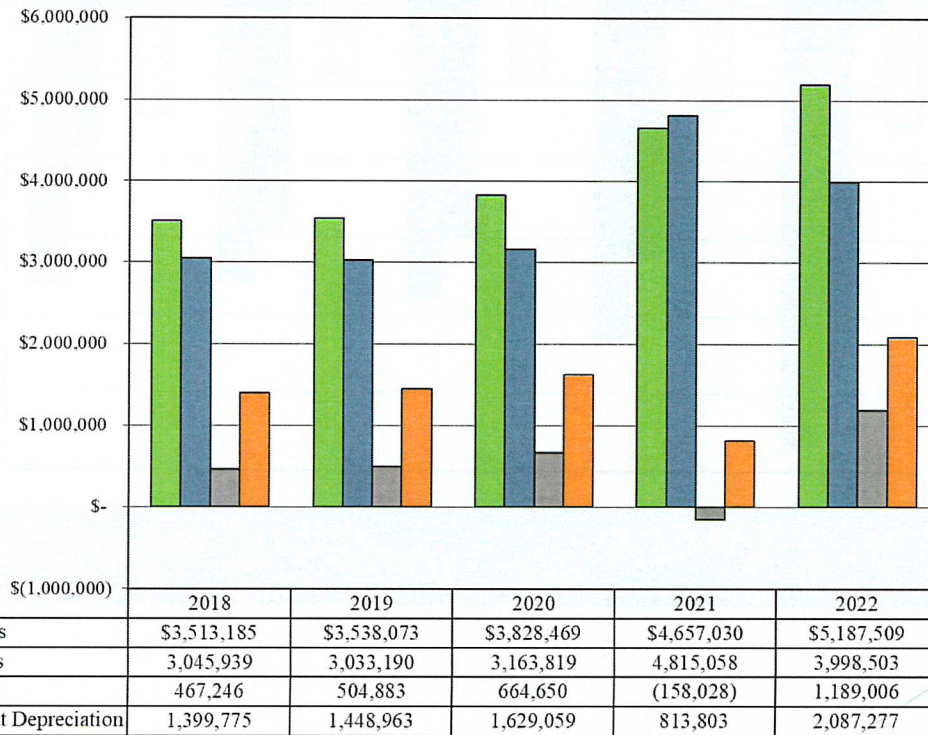
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Minnesota Legal Compliance Report

- Required by the Minnesota Office of the State Auditor
- Tests the City for compliance with seven areas of Statute that apply to municipalities: deposits and investments, conflicts of interest, public indebtedness, claims and disbursements, contracting and bidding, tax increment financing and miscellaneous
- No Findings for 2022

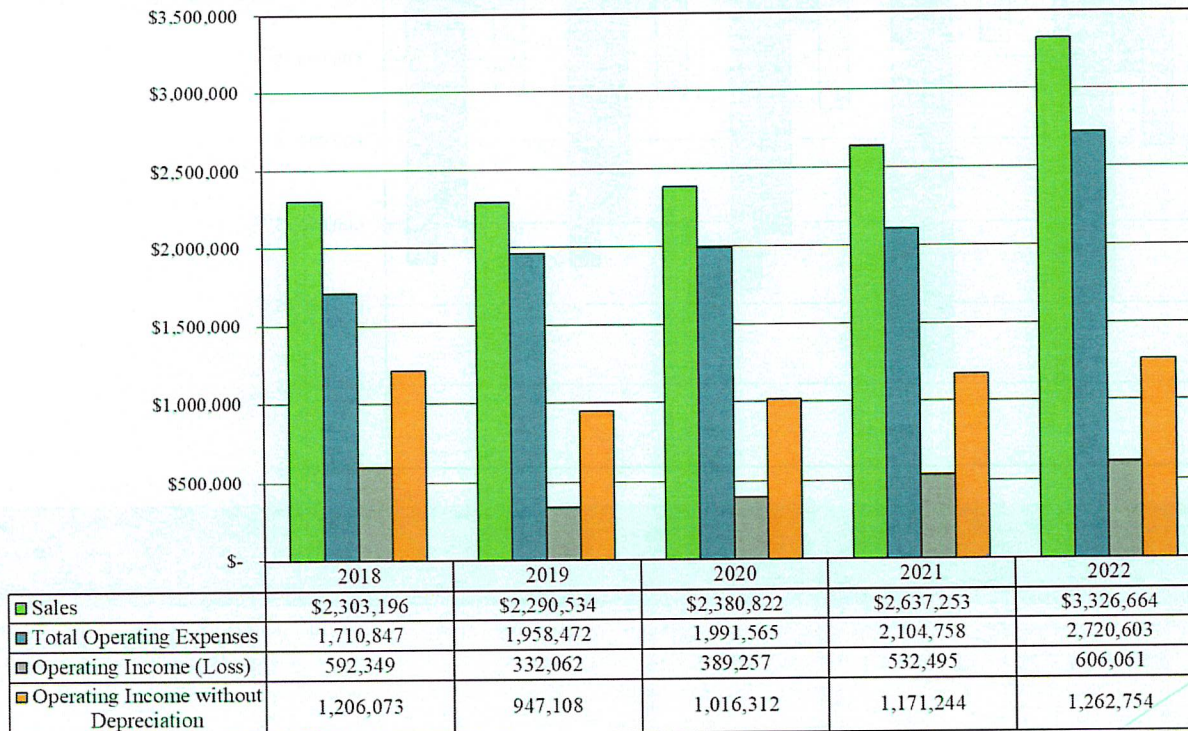
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Water Fund Operating Revenue



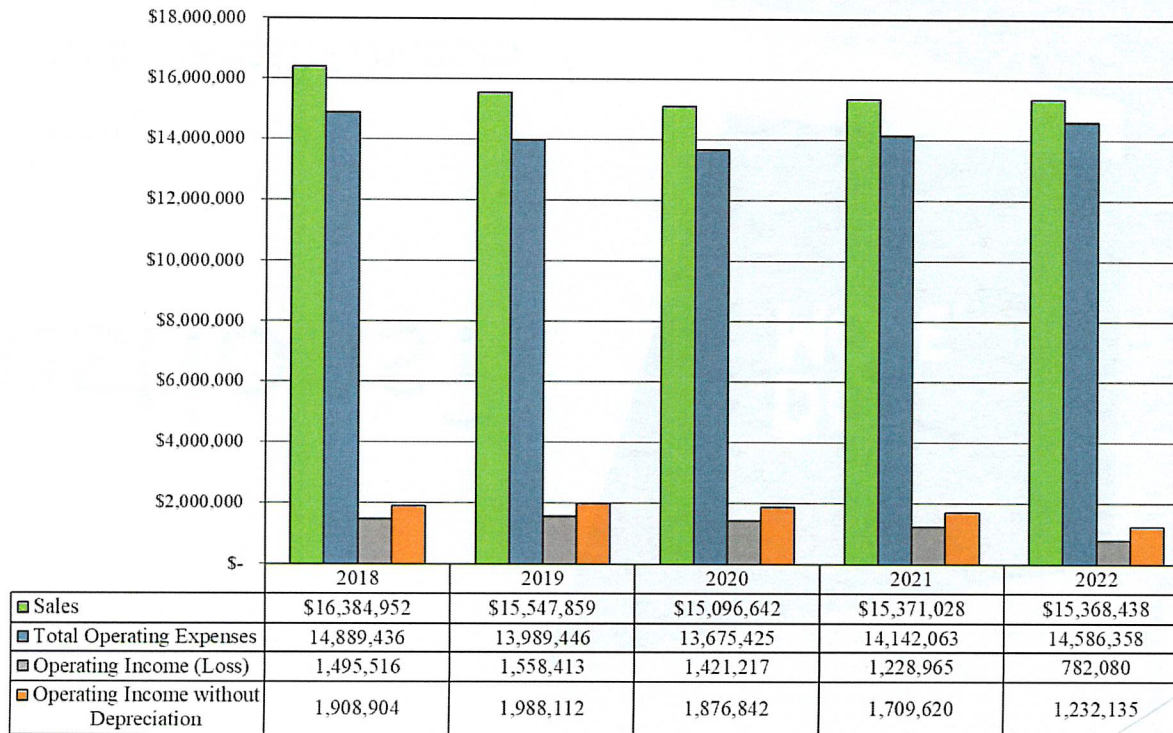
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Sewer Fund Operating Revenue



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Electric Fund Operating Revenue



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Questions?

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Dustin Opatz
Dustin.Opatz@berganKDV.com





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LET'S DO MORE, TOGETHER.

THANK YOU

***BerganKDV** is a leading professional services firm with a contagious culture; where growth is fostered and making a difference means something. Our values drive our decisions, and our passion is empowering people and creating a wow experience for our clients.*

We are powered by people who do business the Midwest way delivering comprehensive business, financial and technology solutions including business planning and consulting, tax, insurance and accounting, technology, wealth management and turnaround management services. From tax reform to technology, we go beyond so you can...

DO MORE.



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