



Perfection Probes, Inc.

Eddy Current: Probes, Consultation, Testing
24241 Rose Ave., Lake Zurich, IL 60047 (847) 726-8868

Invoice

DATE	INVOICE #
3/23/24	6888-CS-1

BILL TO

Wisconsin Department of Administration
Robert Otremba
Division Of Facilities Development
P.O. Box 7866
Madison, WI 537077866

P.O. NO.	TERMS
505CAP-M24-AD241037-01	Net 30

QUANTITY	DESCRIPTION	RATE	AMOUNT
3,101	Eddy Current Inspection Charter Street Chiller 1 Evaporator	1.65	5,116.65
3,101	Eddy Current Inspection Charter Street Chiller 2 Evaporator	1.65	5,116.65
Please remit to above address.		Total	\$10,233.30

Fax #

847-726-7724



Perfection Probes, Inc.

Eddy Current: Probes, Consultation, Testing
24241 Rose Ave., Lake Zurich, IL 60047 (847) 726-8868

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DATE	INVOICE #
3/23/24	6888-WS-1

BILL TO

Wisconsin Department of Administration
Robert Otremba
Division Of Facilities Development
P.O. Box 7866
Madison, WI 537077866

P.O. NO.	TERMS
505CAP-M24-AD241037-01	Net 30

QUANTITY	DESCRIPTION	RATE	AMOUNT
1,010	Eddy Current Inspection Walnut Street Chiller 2 Surface Condenser	1.65	1,666.50
Please remit to above address.		Total	\$1,666.50

Fax #

847-726-7724



Perfection Probes, Inc.

Eddy Current: Probes, Consultation, Testing
24241 Rose Ave., Lake Zurich, IL 60047 (847) 726-8868

Invoice

DATE	INVOICE #
3/26/24	6888-WS-2

BILL TO

Wisconsin Department of Administration
Robert Otremba
Division Of Facilities Development
P.O. Box 7866
Madison, WI 537077866

P.O. NO.	TERMS
	Net 30

QUANTITY	DESCRIPTION	RATE	AMOUNT
1,586	Eddy Current Inspection Walnut Street Chiller 3 Surface Condenser	1.65	2,616.90
Please remit to above address.		Total	\$2,616.90

Fax #

847-726-7724



Account No.	Invoice No.	Invoice Date
0588506	210-00000504	3/3/2024

Purchase Order:

DAVID BENDER
DEPT OF ADMINISTRATION
P.O. BOX 7866
MADISON, WI 53707

DTN Did you know? DTN fully understands the gravity of the situation our world currently faces. We are doing all we can to ensure our business operations are fully functional to continue to help you-our customers-to be serviced in the great manner you expect from DTN. If you have any questions, you're encouraged to contact your Customer Success Manager and look at www.dtn.com for additional resources.

New Charges (USD)	242.55
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Please send your payment 7-10 days before the due date to allow time for payment processing. To ensure proper payment posting, detach and return lower portion with your payment.

Customer Service

Billing Customer Service:

800-837-0708, 402-390-2328, billing@dtn.com

Technical Support:

800-779-5000, onlinehelp@dtn.com

Postal Correspondence:

DTN

18205 Capitol Ave Ste 100

Omaha, NE 68022

Be sure to include your name, telephone number and DTN account number whenever you contact us.

Pay My Bill

By Mail: Send your check and payment slip to the address on the payment slip below.

By Phone: Call billing customer service at the number provided to pay by credit card or make changes to your account MONDAY THROUGH FRIDAY 7:00AM TO 5:00PM (CST).

----- Detach and return this payment slip with your check payable to DTN -----



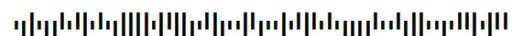
DTN, LLC
18205 Capitol Ave Ste 100
Omaha, NE 68022

#BWNCVKR

0588506

Account No.	Invoice No.	Due Date
0588506	210-00000504	4/2/2024
Amount Due (USD)		242.55
Payment enclosed		

DAVID BENDER
DEPT OF ADMINISTRATION
P.O. BOX 7866
MADISON, WI 53707



DTN, LLC
26385 NETWORK PLACE
CHICAGO, IL 60673-1263

26385210000005040000000005885066 00000024255

Subject to DTN Terms and Conditions

Customer's acceptance and activation of the DTN goods or services constitutes express acceptance of the Terms and Conditions, a copy of which was provided to Customer upon inception of the service. Any other terms and conditions presented by the Customer, contrary to those provided DTN, do not apply. Canceling service will result in the billing for the duration of the then-current term under the DTN Subscription Agreement.

Services Provided By:

DTN, LLC

Tax ID (EIN) – 20-5551424

GST: 83187 6255 RT0001

PST

QC: 1216123332

MB: 087446-1

BC: PST-1000-7804

Payment Information

If payment is not received by the due date, late fees and/or collection charges may be assessed. Customer understands that DTN may reduce or disconnect services offered to Customer for non-payment of any charges due. Customer agrees that DTN may charge a reconnection fee in the event that service is disconnected for nonpayment. A \$25.00 USD fee will be assessed for all returned checks. For your convenience, DTN accepts the following credit cards: Master Card, VISA, Discover, and American Express.

Electronic Payment Information

Must reference DTN Account No. and Invoice No.

Banking Details: Remit in USD

DTN, LLC

Account No.: 464642771

ACH:

ABA (Routing)#: 071000013

JPMorgan Chase, Chicago, IL

WIRE:

ABA (Routing)#: 021000021

SWIFT ID: CHASUS33

JPMorgan Chase, New York, NY

New Charges

Customer: DEPT OF ADMINISTRATION
Address: P.O. BOX 7866, Madison, WI
Account Number: 0588506

Service Period		Qty	Unit Price	Fees	Amount Due
4/3/2024 - 7/2/2024	DTN FastRacks	1.00	242.55	242.55	
	SUBTOTAL			USD	242.55
Total New Charges				USD	242.55



Invoice #: 1611085
Month: April-2024
Bill to: UW-Madison
Terms: Net 30 Days
Billing Date: 4/1/2024

Prepared: HJO 4/1/24
Approved: SJS 4/1/24

Madison Gas and Electric Company
Attn: Halie Osborne
P.O. Box 1231, Madison, WI 53701-1231

Please send payment to the attention of Halie Osborne

O&M Agreement Schedule S-1

Monthly Steam Fixed Operating Costs	\$	73,473.18
Steam Insurance Costs	\$	3,292.93
Interest Charges per Section 7.3.2	\$	-
Major Maintenance - O&M	\$	-
WCCF Capital Purchases - Capital	\$	42,363.36

Total Amount Per Schedule S-1 \$ 119,129.47

O&M Agreement Schedule CW-1

Monthly Chilled Water Fixed Operating Costs	\$	97,174.77
Chilled Water Insurance Costs	\$	4,140.32
Interest Charges per Section 7.3.2	\$	-
WCCF Capital Purchases - Capital	\$	8,150.01

Total Amount Per Schedule CW-1 \$ 109,465.10

TOTAL AMOUNT DUE: \$ 228,594.57

***Interest Charges per Section 7.3.1**

Interest Charges - Prior Invoices		
Steam	\$	-
Chilled Water	\$	-
Interest Charges - Current		
Steam	\$	-
Chilled Water	\$	-
Total Interest Charges to Date		
Steam	\$	-
Chilled Water	\$	-
Total Interest Charges to Date	<u>\$</u>	<u>-</u>

Calculation of Monthly Fixed Costs

Fixed Operating Costs effective November 17, 2010, through November 16, 2012

Steam Fixed O&M Costs per Repegging Discussions	
Annual Adjusted Steam Fixed Operating Costs	\$ 519,420.00
Monthly amount allocated to State/UW	\$ 43,285.00
Chilled Water Fixed O&M Costs per Repegging Discussions	
Annual Adjusted Chilled Water Fixed Operating Costs	\$ 658,404.00
Monthly amount allocated to State/UW	\$ 54,867.00

Fixed Operating Costs effective November 17, 2012*

Steam Fixed O&M Costs per Repegging Discussions	
Annual Adjusted Steam Fixed Operating Costs	\$ 590,326.13
Monthly amount allocated to State/UW	\$ 49,193.84
Chilled Water Fixed O&M Costs per Repegging Discussions	
Annual Adjusted Chilled Water Fixed Operating Costs	\$ 748,281.87
Monthly amount allocated to State/UW	\$ 62,356.82

* Repegging analysis effective November 17, 2018 resulted in less than 10% change based on 2017 fixed costs. Per the letter agreement dated December 16, 2008, fixed costs will continue to be based on November 17, 2012 results with annual CPI adjustments. For 2019, MGE included the cumulative inflation adjustment through December 31, 2017 and the additional FTE and other costs associated with the Chiller Expansion project within the repegged amounts.

Repegging Fixed Cost Adjustment and Adjustment for CPI

Per Table 1 (CPI for All Urban Consumers) All items

	Dec-23	306.746
	Dec-17	246.524
Index point change		<u>60.22</u>
Cumulative change		24.43%

Steam Fixed Cost Adjustment (Repegged)

	Annual	Monthly
S.FOC per O&M Agreement Repegging**	\$ 708,582.42	\$ 59,048.53
S.FOC + Cumulative Change in CPI	\$ 881,678.14	\$ 73,473.18
2024 Costs to be Billed	\$ 881,678.14	\$ 73,473.18
Increase to Steam Fixed Operating Costs	\$ 173,095.72	\$ 14,424.65

Chilled Water Fixed Cost Adjustment (Repegged)

	Annual	Monthly
CW.FOC per O&M Agreement Repegging**	\$ 937,162.81	\$ 78,096.90
CW.FOC + Cumulative Change in CPI	\$ 1,166,097.19	\$ 97,174.77
2024 Costs to be Billed	\$ 1,166,097.19	\$ 97,174.77
Increase to Chilled Water Fixed Operating Costs	\$ 228,934.38	\$ 19,077.87

Steam Fixed per Agreement (Repegged)**	\$ 708,582.42
CW Fixed per Agreement (Repegged)**	\$ 937,162.81
Total Fixed per Agreement (Repegged)**	<u>\$ 1,645,745.23</u>

% of Steam	43.1%
% of Chilled Water	56.9%

**Based on 2018 Fixed O&M Costs for Steam and Chilled Water which includes November 2012 Repegging amounts with cumulative inflation through December 31, 2017 and costs related to the additional FTE and other O&M costs associated with the Chiller Expansion project.

	Jan 2024 Billing	February 2024 w/CPI Adjustment	Increase to Bill
Steam	\$ 71,090.15	\$ 73,473.18	\$ 2,383.03
Chilled Water	\$ 94,023.00	\$ 97,174.77	\$ 3,151.77
	<u>\$ 165,113.15</u>	<u>\$ 170,647.95</u>	<u>\$ 5,534.80</u>

Late Payment Interest Calculation

Steam & Chilled Water Fixed Costs

ENTIRE MONTH:
of days of late payment in month

Amount of fixed charges:
Steam fixed operating costs

Total steam fixed costs

\$-

Chilled water fixed operating costs

Total chilled water fixed costs

\$-

PARTIAL MONTH:
of days of late payment in month

Steam fixed operating costs

Total steam fixed costs

\$-

Chilled water fixed operating costs

Total chilled water fixed costs

\$-

Interest Calculation

Prime rate (Data entry):
Prime + 2 percent:2.00%

Late payment interest charge:		
Steam	\$- <div></div>	\$- <div></div>
Chilled Water	\$- <div></div>	\$- <div></div>
Total late payment interest charges	\$- <div></div>	\$- <div></div>



Major Maintenance O&M
Steam & Chilled Water Fixed Costs

February-2024 Charges

Type of Major Maintenance	Amount of Major Maintenance	Allocation % to UW	Total Allocated to UW
Turbine Major Maintenance	\$ -	25%	\$ -
Heat Recovery Steam Generator	\$ -	25%	\$ -
		Total	\$ -

Project Name	Project Number	Task Name	Task Number
Heat Recovery Steam Generator	10854	Major Maintenance - Non Labor	2755
Turbine WCCF	10863	Major Maintenance - Non Labor	2756

Madison Gas and Electric Company
West Campus Cogen Facility Projects
February-2024 Charges

Pull from prior month WCCF 3 Capital and ES Bill

Confidential

Project #	Job Order #	Description	UW Invoice			
			2023	Activity	UW Allocation	2023 UW Category
11331	1520101ES	Allocation MGE Power West Campus ES	\$ -	0	0.0%	\$ - Capital
48195	152476123	Water Lab HVAC Unit	\$ 15,067.16	Common	50.0%	\$ 7,533.58 Capital
50097	152561123	STG Tower Circ Pump Strainer	\$ 22,176.86	Thermal	25.0%	\$ 5,544.22 Capital
50323	152571123	Turbine Vibration Monitoring System	\$ (214.05)	Thermal	25.0%	\$ (53.51) Capital
50324	152569123	STG Hydraulic Fluid Varnish Mitigat	\$ 28,524.61	Thermal	25.0%	\$ 7,131.15 Capital
50987	152601123	CT 1 Rebuild	\$ 5,577.47	Thermal	25.0%	\$ 1,394.37 Capital
51253	152613123	HRSGr Ammonia Box Heater	\$ 877.09	Thermal	25.0%	\$ 219.27 Capital
51942	152649123	Tool and Material Storage	\$ 1,169.95	Common	50.0%	\$ 584.98 Capital
52014	152651123	Chiller Tools	\$ 98.78	Chiller	100.0%	\$ 98.78 Capital
52016	152652123	Station Service Batteries	\$ 2,414.61	Common	50.0%	\$ 1,207.31 Capital
52255	152658123	HRSGr Ammonia Heater Box	\$ 26,332.30	Thermal	25.0%	\$ 6,583.08 Capital
53010	152681123	WCCF Replace A SG Vacuum Pump	\$ 4,320.85	Thermal	25.0%	\$ 1,080.21 Capital
53439	152711123	WCCF CEMS Umbilical Replacement	\$ 27,126.53	Thermal	25.0%	\$ 6,781.63 Capital
54131	152733124	WCCF Replace STG Tower Valves (3)	\$ -	Thermal	25.0%	\$ - Capital
54133	152734124	WCCF Upgrade Service Waer Pump Skid	\$ 10,027.05	Thermal	25.0%	\$ 2,506.76 Capital
54142	152737124	WCCF STG Cooling Tower Cell A Fill	\$ 2,252.77	Thermal	25.0%	\$ 563.19 Capital
54147	152739124	WCCF Replace/Upgrade Four HRSGr	\$ 17,045.25	Thermal	25.0%	\$ 4,261.31 Capital
54592	152782124	WCCF - New Employee Tools (Trapper)	\$ 59.13	Common	50.0%	\$ 29.57 Capital
54796	152799124	WCCF - Common Plant Tools - 2024	\$ 10,094.93	Common	50.0%	\$ 5,047.47 Capital

Total			\$ 172,951.29	State Allocation	\$ 50,513.37
			Capital		
			TOTAL CHILLER	\$ 98.78	\$ 98.78
			TOTAL STEAM	\$ -	\$ -
			TOTAL TOWER CHEMISTRY	\$ -	\$ -
			TOTAL THERMAL	\$ 36,011.68	\$ 36,011.68
			TOTAL COMMON	\$ 14,402.91	\$ 14,402.91
			TOTAL CAPACITY	\$ -	\$ -
			TOTAL OWNERSHIP	\$ -	\$ -
					\$ 50,513.37
Allocations	UW	MGE	Distribution of Capacity Allocation to Steam/Chilled Water:		
Thermal	25.0%	75.0%	Steam allocation based on cooling tower capacity	4.6%	
Steam	100.0%	0.0%	Allocated amount of capacity to steam	\$ -	
Electric	0.0%	100.0%	Chilled water allocation based on cooling tower capacity	95.4%	
Chiller	100.0%	0.0%	Allocated amount of capacity to chilled water	\$ -	
Common	50.0%	50.0%	Total Allocated:	\$ -	
Capacity	30.6%	69.4%			
Ownership	44.4%	55.6%			
			Allocation of Common Expenses to Steam/Chilled Water:		
			Steam allocation based on Fixed Cost allocation per O&M agreement	44.1%	
			Allocated amount of common to steam	\$ 6,351.68	
			Chilled Wtr. allocation based on Fixed Cost allocation per O&M agreement	55.9%	
			Allocated amount of common to chilled water	\$ 8,051.23	
			Total Allocated:	\$ 14,402.91	
			Allocation of Ownership Expenses to Steam/Chilled Water:		
			Steam allocation based on Fixed Cost allocation per O&M agreement	44.1%	
			Allocated amount of common to steam	\$ -	
			Chilled Wtr. allocation based on Fixed Cost allocation per O&M agreement	55.9%	
			Allocated amount of common to chilled water	\$ -	
			Total Allocated:	\$ -	

February-24

Type of Insurance for WCCF	Policy Term	Year	Allocator -**	Total	Allocation to MGE	2024 Actual		Allocation of State's Share	
						Owners' Shares		Chilled Water	Steam
						MGE	State		
Reimbursement	2/6/24-2/6/27	2024	50% Allocator	7,433.26	50.00%	\$ 3,717	\$3,717	\$ 2,070.16	\$ 1,646.47
Cyber Insurance	2/6/24-2/6/27	2024	50% Allocator	7,433.25	50.00%	\$ 3,717	\$3,717	\$ 2,070.16	\$ 1,646.46
						\$ -	\$0	\$ -	\$ -
						\$ -	\$0	\$ -	\$ -
						\$ -	\$0	\$ -	\$ -
						\$ -	\$0	\$ -	\$ -
						\$ -	\$0	\$ -	\$ -



Perfection Probes, Inc.

Eddy Current: Probes, Consultation, Testing
24241 Rose Ave., Lake Zurich, IL 60047 (847) 726-8868

Invoice

DATE	INVOICE #
4/3/24	6888-CS-2

BILL TO

Wisconsin Department of Administration
Robert Otremba
Division Of Facilities Development
P.O. Box 7866
Madison, WI 537077866

P.O. NO.	TERMS
505CAP-M24-AD241037-01	Net 30

QUANTITY	DESCRIPTION	RATE	AMOUNT
5,228	Eddy Current Inspection Charter Street Chiller 3 CONDENSER	1.65	8,626.20
Please remit to above address.		Total	\$8,626.20

Fax #

847-726-7724



Perfection Probes, Inc.

Eddy Current: Probes, Consultation, Testing
24241 Rose Ave., Lake Zurich, IL 60047 (847) 726-8868

Invoice

DATE	INVOICE #
4/3/24	6888-WS-3

BILL TO

Wisconsin Department of Administration
Robert Otremba
Division Of Facilities Development
P.O. Box 7866
Madison, WI 537077866

P.O. NO.	TERMS
505CAP-M24-AD241037-01	Net 30

QUANTITY	DESCRIPTION	RATE	AMOUNT
2,586	Eddy Current Inspection Walnut Street Chiller 3 Evaporator	1.65	4,266.90
Please remit to above address.		Total	\$4,266.90

Fax #

847-726-7724

Bill Date	Account Number	Next Meter Read Date	Amount Due	Payment Due Date
04/03/2024	0405852628-00004		\$1,039,973.68	04/25/2024

Customer Name
Service Address

WI DEPT OF ADMINISTRATION
SHIRLEY
DENMARK RD
DENMARK WI 54208-8661

Account Summary			
Bill Period: 03/02/2024 to 04/01/2024			
	Apr 2024	Mar 2024	Apr 2023
Billing Days	31	29	31
Avg Temp	38°F	33°F	30°F
Heating Deg Days	829	942	1080
Cooling Deg Days	0	0	0
% Warmer	23		
KWH Used	0	0	0
Avg KWH / Day	0	0	0

Activity Since Last Bill		
03/05/2024	Previous Balance	\$696,346.07
03/11/2024	Payment	-\$254,970.31
	Balance	\$441,375.76
	Total Current Charges	\$598,597.92
	Total Current Balance	\$1,039,973.68

Electric Service

Energy Charges/Credits	\$563,618.32
Other Charges/Credits	\$34,979.60
Subtotal:	\$598,597.92
Electric Service Total:	\$598,597.92

Messages

View your bill online anytime in My Account. Visit our website to sign up.

Struggling to pay your bill? You may be eligible for payment arrangements. Visit our website or use our mobile app to learn if you qualify.

Please return this stub with your payment.



ACCOUNT NUMBER: 0405852628-00004

WI DEPT OF ADMINISTRATION
ATTN DFD CENTRAL FUEL
PO BOX 7866
MADISON WI 53707-7866

Amount Due By	04/25/2024	\$1,039,973.68
A 1% late fee will be charged on any unpaid balance		
Please write your account number on your check		
Amount Enclosed		
<div></div>		

Wisconsin Public Service
PO Box 6040
Carol Stream IL 60197-6040

0110405852628000046 8103997368

Bill Date	Account Number	Next Meter Read Date	Amount Due	Payment Due Date
03/05/2024	0405852628-00004		\$696,346.07	03/27/2024

Customer Name WI DEPT OF ADMINISTRATION
Service Address SHIRLEY
DENMARK RD
DENMARK WI 54208-8661

Activity Since Last Bill

02/05/2024	Previous Balance	\$254,970.31
	Balance	\$254,970.31
	Total Current Charges	\$441,375.76
	Total Current Balance	\$696,346.07

Account Summary			
Bill Period: 02/02/2024 to 03/01/2024			
	Mar 2024	Feb 2024	Mar 2023
Billing Days	29	31	28
Avg Temp	33°F	24°F	26°F
Heating Deg Days	942	1264	1081
Cooling Deg Days	0	0	0
% Warmer	13		
KWH Used	0	0	0
Avg KWH / Day	0	0	0

Electric Service

Energy Charges/Credits	\$414,216.46
Other Charges/Credits	\$27,159.30
Subtotal:	\$441,375.76
Electric Service Total:	\$441,375.76

Messages

View your bill online anytime in My Account. Visit our website to sign up.

Struggling to pay your bill? There are several energy assistance programs available to eligible customers. To learn if you qualify, visit our website or call.

Struggling to pay your bill? You may be eligible for payment arrangements. Visit our website or use our mobile app to learn if you qualify.

ACCOUNT NUMBER: 0405852628-00004

INVOICE: 4940477960

Page 1 of 1

10

{12}

Please return this stub with your payment.



ACCOUNT NUMBER: 0405852628-00004

WI DEPT OF ADMINISTRATION
ATTN DFD CENTRAL FUEL
PO BOX 7866
MADISON WI 53707-7866

Wisconsin Public Service
PO Box 6040
Carol Stream IL 60197-6040

Amount Due By	03/27/2024	\$696,346.07
A 1% late fee will be charged on any unpaid balance		
Please write your account number on your check		
Amount Enclosed		
<input type="text"/>		

0110405852628000046 1069634607



Invoice #: 1620085
Month: March-2024
Bill to: UW-Madison
Terms: Net 10 Days
Billing Date: 4/10/2024

Prepared: HJO 4/10/24
Approved: SJS 4/10/24

Madison Gas and Electric Company
Attn: Halie Osborne
P.O. Box 1231, Madison, WI 53701-1231

Questions regarding this bill can be directed to Halie Osborne

O&M Agreement Schedule S-3

March-2024	Steam Fuel Costs	124,313.78
	Elec Uneconomic Dispatch	(387.04)
	*Current Interest Charges per Section 7.3.1	-
	Total Amount Per Schedule S-3	\$ 123,926.74

O&M Agreement Schedule CW-2A

March-2024	Chilled Water Fuel Costs	28,302.91
	*Current Interest Charges per Section 7.3.1	-
	Total Amount Per Schedule CW-2A	\$ 28,302.91

TOTAL AMOUNT DUE:	\$ 152,229.65
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Directly Billable Uneconomic Costs in March 2024	\$ (387.04)
Uneconomic Costs Accumulated Toward \$480,644 in March 2024	\$ -
Total Uneconomic Costs Incurred for the Month Ended	\$ (387.04)

Total 2024 Directly Billable Uneconomic costs	\$ 337,610.05
Total 2024 Uneconomic costs Accumulated Toward \$480,644	\$ 480,644.00
Total Uneconomic Costs Incurred Through March 2024	\$ 818,254.05



Invoice #: 1623087
Month: March-2024
Bill to: UW-Madison
Terms: Net 30 Days
Billing Date: 4/15/2024

Prepared: HJO 4/15/24
Approved: SJS 4/15/24

Send check to:
Madison Gas and Electric Company
Attn: Halie Osborne
P.O. Box 1231, Madison, WI 53701-1231

Please send payment to the attention of Halie Osborne

Questions regarding this bill can be directed to Halie Osborne

Walnut Street Water Mitigation Charges	\$	200.91
WCCF Water Mitigation Charges	\$	161.52
Capital Project Charges	\$	-
TOTAL AMOUNT DUE:	<u>\$</u>	<u>362.43</u>

Lake Water Supply Agreement
Schedule IV
MM-1

FMM O&M - monthly payment by the facility for its share of the Total Mitigation Measures O&M Expenses

Mitigation Well Variable O&M Costs		
X		
Daily WCCF Lake Water Deliveries (1)	-	
Total Lake Water Deliveries (A)	-	0%
		\$ -
Plus:		
Mitigation Well Other O&M Costs		\$ 59.33
X 0.574501		\$ 34.09
Plus:		
Other Mitigation Measures O&M Costs		\$ 464.61
X 0.621891		\$ 288.94
Total FMM O&M		\$ 323.03

WMM O&M - monthly payment for UW's share (Walnut) of Total Mitigation Measures O&M Expenses

Mitigation Well Variable O&M Costs	\$	-	
Plus: Mitigation Well Other O&M Costs	\$	59.33	
Plus: Other Mitigation Measures O&M Costs	\$	464.61	
Total Costs	\$	523.94	
Less: FMM O&M	\$	323.03	
Total WMM O&M	\$	200.91	

(A) Total Lake Water Deliveries [(1)+(2)+(3)]:		
(1) Daily WCCF Lake Water Deliveries		
Total gallons of Lake Water delivered to facility		-
(2) Daily Walnut Lake Water Mitigation Obligation		
Total gallons delivered to Walnut		-
X23%= Daily Walnut Lake Water Mitigation Obligation		-
<i>See Schedule IV for details</i>		
(3) Daily Chiller Expansion Lake Water Deliveries		
Total gallons delivered to Chiller Expansion		-
Total Lake Water Deliveries		-

Lake Water Supply Agreement
Schedule IV
MM-1

FMM O&M - monthly payment by the facility for its share of the Total Mitigation Measures O&M Expenses

Total FMM O&M	\$ 323.03
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Allocation of FMM O&M based on Allocated Shares:

UW Share	50.00%	\$ 161.52
MGE Share	50.00%	\$ 161.52
Total Allocated	100.00%	\$ 323.04

Note: The allocation is based on the Allocation Share as defined in the JOA

Date - Time	Mitigation Limit	USGS Flow	Mitigation Required?	Total To Storm	City Water Used	STG Lake Water	Chiller Tower/Lake Water	CTG Tower/Lake Water	CT-4 Lake Water	Lake Water Used	WEE Mitigation Amount	WW Water Used	WW Water Mitigation	Daily Total Mitigate	Mitigation Well Amount Pumped	Delta	Cumulative Over / Under	Continued Lake Water Use WCOF / Use WCOF - 1.94 MGAL
31-Dec-23 00:00:00														0			0	
01-Jan-24 00:00:00	60	309.1 NO	53.792	236.610	22,100	0	0	66,025	88,125	216,523	217,000	49,910	0	0	0	0	365,122 NO	
02-Jan-24 00:00:00	60	291.6 NO	50.244	221.680	37,300	0	0	65,748	103,048	228,865	216,500	48,796	0	0	0	0	319,548 NO	
03-Jan-24 00:00:00	60	293.5 NO	66.861	285.810	119,700	0	0	61,512	181,212	334,424	235,700	54,211	0	0	0	0	416,912 NO	
04-Jan-24 00:00:00	60	286.4 NO	49.608	219.880	88,400	0	0	66,919	155,319	275,019	245,100	56,373	0	0	0	0	400,419 NO	
05-Jan-24 00:00:00	60	274.5 NO	61,117	217,630	79,500	0	0	92,884	247,484	417,484	400,500	55,292	0	0	0	0	333,084 NO	
06-Jan-24 00:00:00	60	281.6 NO	50,606	220,760	32,500	0	0	61,972	94,472	213,851	241,200	55,476	0	0	0	0	335,672 NO	
07-Jan-24 00:00:00	60	265.6 NO	18,802	92,680	40,600	0	0	60,249	100,849	153,411	241,100	55,453	0	0	0	0	341,949 NO	
08-Jan-24 00:00:00	60	250.2 NO	41,257	184,700	22,900	0	0	75,790	98,690	199,651	240,800	55,384	0	0	0	0	339,490 NO	
09-Jan-24 00:00:00	60	336.2 NO	44,283	234,720	38,800	0	0	62,211	111,011	214,360	241,000	55,430	0	0	0	0	342,011 NO	
10-Jan-24 00:00:00	60	330.8 NO	72,529	311,530	48,400	0	0	60,655	109,055	276,404	238,800	54,947	0	0	0	0	347,955 NO	
11-Jan-24 00:00:00	60	263.5 NO	64,557	272,260	23,900	0	0	65,665	89,565	234,648	237,600	54,648	0	0	0	0	327,165 NO	
12-Jan-24 00:00:00	60	293.7 NO	57,918	249,450	2,400	0	0	61,189	63,589	198,648	237,600	54,648	0	0	0	0	301,189 NO	
13-Jan-24 00:00:00	60	289.2 NO	62,329	270,530	11,600	0	0	53,858	64,958	210,937	238,300	54,809	0	0	0	0	303,259 NO	
14-Jan-24 00:00:00	60	284.5 NO	105,771	494,900	82,100	0	0	48,238	130,338	405,840	237,000	54,510	0	0	0	0	367,338 NO	
15-Jan-24 00:00:00	60	302.2 NO	125,379	524,080	84,500	0	0	51,000	135,500	413,662	236,400	54,372	0	0	0	0	371,900 NO	
16-Jan-24 00:00:00	60	291.1 NO	127,141	533,000	76,600	0	0	53,651	130,252	413,521	236,700	54,441	0	0	0	0	368,952 NO	
17-Jan-24 00:00:00	60	155.8 NO	90,727	385,470	83,200	0	0	64,270	147,470	353,555	236,100	54,303	0	0	0	0	393,570 NO	
18-Jan-24 00:00:00	60	154.0 NO	102,746	449,820	93,900	0	0	56,265	150,165	393,781	236,400	54,372	0	0	0	0	386,565 NO	
19-Jan-24 00:00:00	60	149.7 NO	98,627	410,860	25,800	0	0	55,448	84,248	303,629	237,500	54,625	0	0	0	0	321,748 NO	
20-Jan-24 00:00:00	60	138.1 NO	108,669	465,110	87,300	0	0	56,662	142,862	392,428	240,400	55,292	0	0	0	0	383,362 NO	
21-Jan-24 00:00:00	60	128.7 NO	89,058	382,860	47,600	0	0	49,915	97,515	303,259	236,800	54,484	0	0	0	0	334,315 NO	
22-Jan-24 00:00:00	60	124.6 NO	54,231	252,510	57,500	0	0	60,360	117,860	258,052	236,700	54,441	0	0	0	0	334,560 NO	
23-Jan-24 00:00:00	60	129.8 NO	37,294	173,360	9,900	0	0	57,606	66,406	182,600	237,000	54,510	0	0	0	0	303,458 NO	
24-Jan-24 00:00:00	60	141.5 NO	49,103	228,740	40,300	0	0	64,447	104,747	231,774	236,800	54,484	0	0	0	0	341,547 NO	
25-Jan-24 00:00:00	60	158.5 NO	42,496	212,940	102,700	0	0	65,219	167,919	289,387	236,400	54,372	0	0	0	0	404,319 NO	
26-Jan-24 00:00:00	60	183.5 NO	43,847	268,760	38,000	0	0	66,916	104,916	221,715	235,100	54,073	0	0	0	0	340,016 NO	
27-Jan-24 00:00:00	60	200.7 NO	32,825	154,530	39,700	0	0	67,155	105,855	492,019	236,200	54,349	0	0	0	0	342,155 NO	
28-Jan-24 00:00:00	60	214.4 NO	43,465	199,340	69,700	0	0	71,215	140,915	250,942	235,600	54,188	0	0	0	0	376,515 NO	
29-Jan-24 00:00:00	60	228.1 NO	39,384	186,200	79,500	0	0	45,482	124,982	228,672	176,100	49,503	0	0	0	0	301,082 NO	
30-Jan-24 00:00:00	60	235.0 NO	34,008	142,140	81,700	0	0	72,232	83,142	151,943	184,800	79,200	0	0	0	0	237,243 NO	
31-Jan-24 00:00:00	60	238.3 NO	34,008	161,070	49,900	0	0	71,331	121,230	211,247	85,100	19,573	0	0	0	0	206,330 NO	
01-Feb-24 00:00:00	60	234.6 NO	48,089	219,540	39,100	0	0	72,175	111,275	232,232	84,300	19,389	0	0	0	0	195,755 NO	
02-Feb-24 00:00:00	60	230.4 NO	41,924	190,820	19,600	0	0	58,547	78,147	183,155	84,700	19,481	0	0	0	0	162,847 NO	
03-Feb-24 00:00:00	60	235.3 NO	48,996	219,170	47,100	0	0	63,879	110,979	216,079	85,900	18,757	0	0	0	0	198,879 NO	
04-Feb-24 00:00:00	60	232.5 NO	23,976	120,590	42,600	0	0	63,933	106,533	175,411	84,700	19,481	0	0	0	0	191,233 NO	
05-Feb-24 00:00:00	60	234.8 NO	27,576	147,310	43,600	0	0	58,194	101,794	187,647	147,300	33,879	0	0	0	0	249,094 NO	
06-Feb-24 00:00:00	60	230.7 NO	26,804	141,010	31,000	0	0	65,324	96,324	178,097	169,800	39,054	0	0	0	0	266,124 NO	
07-Feb-24 00:00:00	60	223.9 NO	12,333	70,590	10,000	0	0	70,271	80,271	122,292	120,700	27,781	0	0	0	0	200,971 NO	
08-Feb-24 00:00:00	60	221.4 NO	0	23,220	0	0	85,574	85,574	104,454	86,700	19,941	0	0	0	0	0	173,274 NO	
09-Feb-24 00:00:00	60	226.5 NO	7,470	53,890	0	0	68,453	68,453	102,477	84,000	19,320	0	0	0	0	0	152,453 NO	
10-Feb-24 00:00:00	60	234.7 NO	52,292	246,240	182,500	0	0	66,002	248,502	385,815	83,800	19,274	0	0	0	0	332,302 NO	
11-Feb-24 00:00:00	60	230.8 NO	77,804	330,480	236,900	0	0	63,514	300,414	477,080	83,700	19,251	0	0	0	0	384,114 NO	
12-Feb-24 00:00:00	60	227.4 NO	50,559	218,860	350,000	0	0	73,453	423,453	441,670	79,200	19,251	0	0	0	0	507,183 NO	
13-Feb-24 00:00:00	60	224.9 NO	37,050	178,900	290,700	0	0	61,724	352,424	453,143	78,900	18,147	0	0	0	0	431,334 NO	
14-Feb-24 00:00:00	60	216.2 NO	62,145	269,540	199,000	0	0	74,383	273,383	418,783	82,500	18,975	0	0	0	0	355,883 NO	
15-Feb-24 00:00:00	60	231.9 NO	5,350	39,580	100	0	0	53,023	53,123	78,249	87,600	20,148	0	0	0	0	140,723 NO	
16-Feb-24 00:00:00	60	229.6 NO	56,223	255,300	82,600	0	0	66,351	148,951	289,309	87,800	20,125	0	0	0	0	236,451 NO	
17-Feb-24 00:00:00	60	187.5 NO	63,295	280,780	34,500	0	0	53,975	82,474	217,665	87,400	20,102	0	0	0	0	211,874 NO	
18-Feb-24 00:00:00	60	210.6 NO	42,823	196,700	105,800	0	0	60,865	166,665	275,501	94,600	21,758	0	0	0	0	261,265 NO	
19-Feb-24 00:00:00	60	219.5 NO	36,246	173,240	93,900	0	0	71,057	164,957	262,106	101,800	23,437	0	0	0	0	266,857 NO	
20-Feb-24 00:00:00	60	190.5 NO	36,191	163,380	95,000	0	0	91,579	186,579	278,191	103,300	23,759	0	0	0	0	289,879 NO	
21-Feb-24 00:00:00	60	187.8 NO	23,433	117,860	226,500	0	0	106,416	332,916	460,235	91,100	20,983	0	0	0	0	424,016 NO	
22-Feb-24 00:00:00	60	264.8 NO	0	19,430	2,500	0	0	107,529	110,029	124,960	86,200	19,800	0	0	0	0	196,229 NO	
23-Feb-24 00:00:00	60	140.9 NO	50,264	217,630	14,200	0	0	71,007	85,207	202,519	86,100	19,803	0	0	0	0	171,307 NO	
24-Feb-24 00:00:00	60	133.5 NO	39,254	176,250	45,900	0	0	66,496	112,396	208,555	86,100	19,803	0	0	0	0	198,496 NO	
25-Feb-24 00:00:00	60	136.7 NO	17,876	95,590	25,900	0	0	84,300	110,200	165,927	90,400	20,792	0	0	0	0	200,600 NO	
26-Feb-24 00:00:00	60	216.7 NO	0	23,060	82,500	0	0	136,980	210,480	227,236	112,300	25,829	0	0	0	0	331,780 NO	
27-Feb-24 00:00:00	60	121.2 NO	41,929	201,120	0	0	0	158,737	158,737	271,670	84,100	19,343	0	0	0	0	242,837 NO	
28-Feb-24 00:00:00	60	118.1 NO	37,251	169,810	70,300	0	0	80,920	151,220	244,723	92,400	21,252	0	0	0	0	243,620 NO	
29-Feb-24 00:00:00	60	122.6 NO	53,598	242,170	51,200	0	0	74,835	126,035	258,907	92,300	21,229	0	0	0	0	216,335 NO	
01-Mar-24 00:00:00	90	123.1 NO	15,680	85,090	15,600	0	0	92,223	107,823	157,662	92,200	21,206	0	0	0	0	200,023 NO	
02-Mar-24 00:00:00	90	123.1 NO	0	17,540	20,400	0	0	112,220	137,620	151,126	92,300	21,229	0	0	0	0	229,920 NO	
03-Mar-24 00:00:00	90	125.4 NO	0	18,080	0	0	0	163,025	163,025	176,946	92,200	21,206	0	0	0	0	255,225 NO	
04-Mar-24 00:00:00	90	121.8 NO	1,815	23,160	0	0	0	120,417	120,417	136,436	92,100	21,183	28,000	0	0	0	212,517 NO	
05-Mar-24 00:00:00	90	120.4 NO	71,043	322,970	186,000	0	0	153,356	339,356	517,000	91,700	21,091	0	0	0	0	431,056 NO	
06-Mar-24 00:00:00	90	120.4 NO	30,255	144,270	120,300	0	0	83,562										

Vendor	Work Order	Voucher	Total Pretax Amount
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\$	-
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Major Maintenance Allocators

WCCF	1.870	57.45%	\$	-
Walnut	1.385	42.55%	\$	-
Total	3.255	100.00%	\$	-

WCCF Allocators (Ownership)

UW Share	44.44%	\$	-
MGE Share	55.56%	\$	-
Total	100.00%	\$	-

#DIV/0!

Total UW Share	\$	-
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0.00% No Loadings for this purchase

Total UW Share (including Loadings)	\$	-
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Invoice #: 1624086
Month: March-2024
Bill to: UW-Madison
Terms: Net 30 Days
Billing Date: 4/15/2024

Prepared:
 Approved:

Send check to:

Madison Gas and Electric Company
Attn: Halie Osborne
P.O. Box 1231, Madison, WI 53701-1231

Please send payment to the attention of Halie Osborne

Monthly Variable Steam Charges:	\$	18,224.79
Steam Lost Condensate Makeup Costs:	\$	12,493.84
*Current Interest Charges per Section 7.3.1	\$	-
Variable Steam Delivery Operations		
Monthly Total:	\$	30,718.63
Monthly Variable Chilled Water Charges:	\$	20,012.56
Project #10K1H--Chiller Addition**	\$	-
*Current Interest Charges per Section 7.3.1	\$	-
Monthly Total:	\$	20,012.56
Monthly Variable Electric Charges:	\$	366.29
TOTAL AMOUNT DUE:	\$	51,097.48

***Interest Charges per Section 7.3.1**

Interest Charges - Past Due		
Steam	\$	-
Chilled Water	\$	-
Interest Charges - Current		
Steam	\$	-
Chilled Water	\$	-
Total Unpaid Interest Charges to Date		
Steam	\$	-
Chilled Water	\$	-
Total Unpaid Interest Charges to Date	\$	-

****Per June 8, 2011, UW Chiller Expansion/Addition Meeting**

CONFIDENTIAL AND PROPRIETARY INFORMATIONPERSUANT TO DECEMBER 20, 2005 LETTER TO STATE/UNIVERSITY
WCCF OPERATING COMMITTEE REPRESENTATIVEThe following information represents a trade secret perusant to 134.90 (1) (c) Wis. Stats

HJO 4/15/24

SJS 4/15/24

Steam Variable O&M Costs

Schedule S-2

Total Thermal Asset Variable Costs

UW's Allocated Share

Fuel Oil	\$ -
Parts/Accessories	\$ -
Total UW Share	\$ -

154311 BS Workbook

Thermal Asset Variable Costs To be Allocated:

Thermal Asset Water Makeup Chemicals	\$ 12,358.38	(c)
Ammonia	\$ (743.60)	(c)
Lubricants	\$ (1,784.71)	(c)
Thermal Asset Water Makeup from City Water	\$ -	
Thermal Asset Water Makeup from Lake Water	\$ -	
Thermal Asset Water Disposal Costs	\$ -	
SO2 and other Emissions Allowances	\$ -	
Cost of Thermal Asset Ops and Maint.	\$ 21,317.39	(a)
Cost of Steam Supplied by the University	\$ -	
Total to be Allocated	\$ 31,147.46	

S-4 "Total Use" tab from Invento

S-4 "Total Use" tab from Invento

S-4 "Total Use" tab from Invento

S-1 From O&M Support Workpa

UW's Allocation Percentage of Steam Variable Costs 34.04% (b)

S-2 Line 25 Steam Workbook "ou

UW's Allocated Share of Steam Variable Costs	\$ 7,257.44	(a) x (b)
UW's Allocated Share of Chemicals, Lubricants, and Ammonia Costs	\$ 3,346.62	(c) x (b)
Thermal Asset Water Disposal Costs	\$ 1,234.09	
Steam and Thermal Inventory Total Use	\$ 6,362.35	
Thermal Asset Water Makeup from City Water		
Steam Export Variable Costs	\$ 24.29	
Prior Period Adjustment		

9/

S-4 Steam Billed Amount Inven

S-8 From O&M Support Workpa

TOTAL STEAM VARIABLE O&M COSTS \$ 18,224.79 1/

ry Workpaper 309 (current month upload WCCF 4 Share of Inventory) flip sign
ry Workpaper 310 (Current month upload WCCF 4 Share of Inventory) flip sign
ry Workpaper 306 (Current month upload WCCF 4 Share of Inventory) flip sign

ry Workpaper (monthly upload WCCF 4 Share of Inventory) Upload tab cell L28

Chilled Water Variable O&M Costs
Schedule CW-2

Chilled Water Station Service Costs- Partial O&M	\$ 804.49		
Chilled Water Makeup Costs	\$ 10,033.03		
Cooling Tower Makeup Water Costs	\$ -		Includes Lake Water MANUAL FORMULA
Chilled Water Cooling Tower Blow-down Costs	\$ 20.99		
Cost of Chilled Water Ops and Maint.	\$ 3,491.70	S-1	From O&M Support Workpaper (Pivot WCCF Mon
Cost of Chilled Water Parts/Access. Inventory	\$ (5,205.12)	S-4	Chilled Water Billed Amount Inventory Workpaper
Chilled Water Station Service Costs- Partial Inventory	\$ (743.33)		
Cost of Chilled Water Inventory Adj			
Chilled Water - Chiller Expansion Sewer Charge	\$ 4,389.60	S-5	Meter 80180 and 80595 from City of Madison Trea
Chilled Water - Prior Period Adjustment	\$ 7,221.20		Feb 80180 + 80595 Meter
TOTAL CHILLED WATER VARIABLE O&M COSTS	\$ 20,012.56	1/	

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surer Project 10851 Task 2721 From O&M Support Workpaper (Pivot WCCF Month Year.xlsx)

Allocation of City Water Bill
Madison Municipal Services

			Mar-24
	UNITS		
Thermal Asset Water Makeup	Kgals		0
Percent of Total	%		0.0%
Allocated amount of total charges	\$	\$	-
Steam Lost Condensate Makeup (S-4)	Kgals		763
Percent of Total	%		55.5%
Allocated amount of total charges	\$	\$	12,493.84
Chilled Water Makeup	Kgals		612
Percent of Total	%		44.54%
Allocated amount of total charges	\$	\$	10,033.03 3/
Chilled Water Cooling Tower Makeup	Kgals		0
Percent of Total	%		0.00%
Allocated amount of total charges	\$	\$	-
STG Tower Makeup from City Water	Kgals		0
Percent of Total	%		0.00%
Allocated amount of total charges	\$	\$	-
City Water Provided to Condensation System	Kgals		0
Percent of Total	%		0.00%
Allocated amount of total charges	\$	\$	-
Total Kgals			1,375
Total %			100%
Total \$		\$	22,526.87

Invoice Summary

Base Charge/Water Consumption	S-6	\$	22,526.87
TOTAL		\$	22,526.87

O&M Support Workpaper Water Charges *

Prior Steam Allocation		40.98%
Thermal Asset Water Makeup from City Water	\$	-

Prior month Steam allocation

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meter 73108 and 73110

Output Information for the Variable O&M cost for UW Steam and Chilled Water
ACTUAL

		March-24		
		Calendar Month		Data
		Quantity	Units	Source
Electrical Net Generation Calculation				
1	Generation			
2	CT1 Main Out of WCCF	13,075,716	kWh	Meter - EMS
3	CT2 Main Out of WCCF	6,517,765	kWh	Meter - EMS
4	STG Out of WCCF	2,931,933	kWh	Meter - EMS
5	CT1 Aux Out of WCCF	-	kWh	Meter - EMS
6	CT2 Aux Out of WCCF	-	kWh	Meter - EMS
7	Total Generation	22,525,414	kWh	
8	Load			
9	CT1 Main Into WCCF	-	kWh	Meter - EMS
10	CT2 Main Into WCCF	-	kWh	Meter - EMS
11	CT1 Aux Into WCCF	672,630	kWh	Meter - EMS
12	CT2 Aux Into WCCF	788,019	kWh	Meter - EMS
13	Total Load	1,460,649	kWh	Sum C15:C18
14	Net Generation	21,064,765	kWh	C13 - C19
Steam Cost Allocation Calculation				
15	MMBTU of Steam to UW	37,121	MMBTU	Meter - EMS
16	MMBTU Equivalent of Net Generation	71,915	MMBTU	C20 * 3,414 / 1,000,000"
17	Steam Cost Allocation Factor	0.34044686	None	C23 / (C23 + C24)

Input Information for the Variable O&M cost for UW Steam and Chilled Water
March-24

		Monthly Quantity	Units	Cost Allocation Factor	Data Source
18	Sched S-2 Steam Variable Cost Section				
19	Thermal Asset Water Makeup				
20	City Water				
21	Madison Water Utility (MWU) process water consumption	4,315	Kgals		City Water Meter
22	Less Chiller Water Makeup	612	Kgals		From Line
23	Less Condensate Lost	763	Kgals		From Line 39
24	Less UW Chiller Tower Makeup from City Water	0	Kgals		From Line
25	Less STG Tower Makeup from City Water	0	Kgals		Meter - Plant
26	Less City Water Needed for Condensate System	0			
27	Thermal Asset Water Makeup from City Water	0	Kgals		=L28 - L29 - L30 - L31 - L32
28	Thermal Asset Water Makeup from Lake Water (STG)	2,826	Kgals	MGE 100%	Meter - Plant
	CTG Inlet Cooling Tower from Lake Water	0	Kgals		Meter - Plant
29	Thermal Asset Water Disposal Costs				
30	Thermal Asset Water Disposal Quantity				
31	Sanitary Sewer Discharge	1,156	Kgals		Meter - Plant
32	Less UW Chiller Tower Blowdown	8	Kgals		From Line
33	Thermal Asset Water Disposal Quantity	1,148	Kgals		L29+L30
34	Cost of Steam supplied by UW				Invoice from UW
35	WCCF Space Heat Steam				Invoice from UW
36	WCCF Inlet Heating Steam	28	MMBTU		Meter - EMS??, Supplied to UW for billing purposes
37	WCCF Space Heat Steam	0	MMBTU		Meter - EMS??, Supplied to UW for billing purposes
38	Sched S-4: Condensate Replacement Costs				
39	Amount of condensate provided by WCCF				
40	Steam Delivered to UW	30206	MLB		Meter - ERMA
41	Condensate delivered to facility	23967	MLB		Meter - Plant
42	Amount of condensate provided by WCCF	6239	MLB		=L-L38
43	Makeup Water Treatment Costs				Not Separately Metered - Included in thermal makeup cost
44	EDI & RO Electricity Cost	NA			From PoepleSoft Accounts
45	Consumables used		\$/MLB		
46	Water Treatment Costs for Condensate				
47	Caustic	NA			Not Separately Metered - Included in thermal makeup cost
48	Sulfuric Acid	NA			Not Separately Metered - Included in thermal makeup cost
	Future Chemical	NA			Not Separately Metered - Included in thermal makeup cost
	Disposal Costs	NA			Not Separately Metered - Included in thermal makeup cost
	Sched CW-1: Chilled Water Costs				
	Sched CW-2A: Chiller Water Station Service Costs				Meter - EMS
49	Fuel Cost				
50	Electric Variable O&M (EV O&M)				From S-2 Total
51	Total Thermal Variable Costs		\$	Fcm from Fuel Sheet	From S-2 after allocation
52	D Costs - Other gas charges		\$		Allocated to responsible party
53	CW.C Charges - Schedule deviation costs		\$		
54					
55					
56	Sched CW-2B Chilled Water Makeup Costs				Meter - Plant
57	City Water - Metered Water	0	gal	100%	Inventory
58	Chilled Water Chemicals				Inventory
59	Future Chem	0	gal	100%	Inventory
	Future Chem		gal	100%	
60	Sched CW-2C Chilled Water Cooling Tower Makeup Costs				Meter - Plant
61	City Water used as makeup	0	Kgals	100%	Meter - Plant
62	Lake Water used as makeup	365	Kgals	100%	
63	Water Treatment Chemicals				Included in EV O&M
64	Hypochlorite	NA		NA	Included in EV O&M
65	Sulfuric Acid	NA		NA	Inventory
66	Inhibitor	NA		100%	
67	Sched CW-2D Chilled Water Cooling Tower Blow-down Costs				Meter - Plant
68	Chilled Water Cooling Tower Blowdown Water	8	Kgals	100%	From PoepleSoft Accounts
69	Water Provided to Condensate System				
70	City Water needed for C78	0	Kgals		

Sched CW-1: Chilled Water Costs - Chiller Expansion

67	Sched CW-2B Chilled Water Makeup Costs				Meter - Plant
68	City Water - Metered Water	612,488	gal	100%	Inventory
69	Chilled Water Chemicals				Inventory
70	Future Chem	0	gal	100%	Inventory
71	Future Chem		gal	100%	
72	Sched CW-2C Chilled Water Cooling Tower Makeup Costs				Meter - Plant
73	City Water used as makeup	0	Kgals	100%	Meter - Plant
74	Lake Water used as makeup	2,778	Kgals	100%	
75	Water Treatment Chemicals				Included in EV O&M
76	Hypochlorite	NA		NA	Included in EV O&M
77	Sulfuric Acid	NA		NA	Inventory
78	Inhibitor	NA		100%	
79	Sched CW-2D Chilled Water Cooling Tower Blow-down Costs				Meter - Plant
80	Chilled Water Cooling Tower Blowdown Water	406	Kgals	100%	From PoepleSoft Accounts

Commodity Cost of City Water

\$.63 per 748 gallons	\$	0.0008	per gal
Per Tim B.		0.8422	per Kgals
8.18lbs/gal	\$	0.1030	per MLB

Input Information for the Variable O&M cost for UW Steam and Chilled Water
February-24

	Monthly Quantity	Units	Cost Allocation Factor	Data Source
Sched S-2 Steam Variable Cost Section				
Thermal Asset Water Makeup				
18 City Water				
19 Madison Water Utility (MWU) process water consumption	4,802	Kgals		City Water Meter
20 Less Chiller Water Makeup	612	Kgals		From Line
21 Less Condensate Lost	1,056	Kgals		From Line 39
22 Less UW Chiller Tower Makeup from City Water	0	Kgals		From Line
23 Less STG Tower Makeup from City Water	0	Kgals		Meter - Plant
24 Less City Water Needed for Condensate System	0			
25 Thermal Asset Water Makeup from City Water	0	Kgals		=L28 - L29 - L30 - L31 - L32
26 Thermal Asset Water Makeup from Lake Water (STG)	2,459	Kgals	MGE 100%	Meter - Plant
27 CTG Inlet Cooling Tower from Lake Water	0	Kgals		Meter - Plant
Thermal Asset Water Disposal Costs				
29 Thermal Asset Water Disposal Quantity				
30 Sanitary Sewer Discharge	1,064	Kgals		Meter - Plant
31 Less UW Chiller Tower Blowdown	0	Kgals		From Line
32 Thermal Asset Water Disposal Quantity	1,064	Kgals		L29+L30
33 Cost of Steam supplied by UW				
34 WCCF Space Heat Steam		\$		Invoice from UW
35 WCCF Inlet Heating Steam		\$		Invoice from UW
36 WCCF Space Heat Steam	0	MMBTU		Meter - EMS??, Supplied to UW for billing purposes
37 WCCF Inlet Heating Steam	0	MMBTU		Meter - EMS??, Supplied to UW for billing purposes
Sched S-4: Condensate Replacement Costs				
Amount of condensate provided by WCCF				
38 Steam Delivered to UW	40470	MLB		Meter - ERMA
39 Condensate delivered to facility	31831	MLB		Meter - Plant
40 Amount of condensate provided by WCCF	8639	MLB		=L-38
41 Makeup Water Treatment Costs				Not Separately Metered - Included in thermal makeup cost
42 EDI & RO Electricity Cost	NA			From PoepleSoft Accounts
43 Consumables used		\$/MLB		
44 Water Treatment Costs for Condensate				
45 Caustic	NA			Not Separately Metered - Included in thermal makeup cost
46 Sulfuric Acid	NA			Not Separately Metered - Included in thermal makeup cost
47 Future Chemical	NA			Not Separately Metered - Included in thermal makeup cost
48 Disposal Costs	NA			Not Separately Metered - Included in thermal makeup cost

Sched CW-1: Chilled Water Costs

Sched CW-2A: Chiller Water Station Service Costs					Meter - EMS
49 Fuel Cost					
50 Electric Variable O&M (EV O&M)					
51 Total Thermal Variable Costs		\$	Fcm from Fuel Sheet		From S-2 Total
54 D Costs - Other gas charges		\$			From S-2 after allocation
55 CW.C Charges - Schedule deviation costs		\$			Allocated to responsible party
Sched CW-2B Chilled Water Makeup Costs					Meter - Plant
56 City Water - Metered Water	0	gal		100%	
57 Chilled Water Chemicals					Inventory
58 Future Chem	0	gal		100%	Inventory
59 Future Chem		gal		100%	
Sched CW-2C Chilled Water Cooling Tower Makeup Costs					Meter - Plant
60 City Water used as makeup	0	Kgals		100%	Meter - Plant
61 Lake Water used as makeup	0	Kgals		100%	
62 Water Treatment Chemicals					Included in EV O&M
63 Hypochlorite	NA		NA		Included in EV O&M
64 Sulfuric Acid	NA		NA		Inventory
65 Inhibitor	NA			100%	
Sched CW-2D Chilled Water Cooling Tower Blow-down Costs					Meter - Plant
66 Chilled Water Cooling Tower Blowdown Water	0	Kgals		100%	From PoepleSoft Accounts
Water Provided to Condensate System					
City Water needed for C78					
	0	Kgals			

Sched CW-1: Chilled Water Costs - Chiller Expansion

Sched CW-2B Chilled Water Makeup Costs					Meter - Plant
67 City Water - Metered Water	611,610	gal		100%	
68 Chilled Water Chemicals					Inventory
69 Future Chem	0	gal		100%	Inventory
70 Future Chem		gal		100%	
Sched CW-2C Chilled Water Cooling Tower Makeup Costs					Meter - Plant
71 City Water used as makeup	0	Kgals		100%	Meter - Plant
72 Lake Water used as makeup	2,231	Kgals		100%	
73 Water Treatment Chemicals					Included in EV O&M
74 Hypochlorite	NA		NA		Included in EV O&M
75 Sulfuric Acid	NA		NA		Inventory
76 Inhibitor	NA			100%	
Sched CW-2D Chilled Water Cooling Tower Blow-down Costs					Meter - Plant
77 Chilled Water Cooling Tower Blowdown Water	373	Kgals		100%	From PoepleSoft Accounts

Commodity Cost of City Water

\$.63 per 748 gallons	\$	0.0008	per gal
Per Tim B.		0.8422	per Kgals
8.18lbs/gal	\$	0.1030	per MLB

Steam Lost Condensate Makeup Costs
Schedule S-4

City Water Costs (see city water tab)	\$ 12,493.84
Variable Return Condensate Costs	\$ -
Total Steam Lost Condensate Makeup Costs:	<u><u>\$ 12,493.84</u></u>

Allocation of Sewer Bill

OK TO BILL

Thermal Asset Water Disposal Costs- Per Madison Municipal billing

Mar-24	BILLING
	\$ 3,032.57

O&M Support Workpaper Water Charges meter 73329

		TOTALS	
Thermal Asset Water Disposal Quantity			
(A) Sanitary Sewer Discharge - Total per monthly meter reading	Kgals	1,156	1,156
(B) 'Less: UW Chiller Tower Blowdown - per monthly meter reading	Kgals	8	8
Percent of total allocated to UW Chiller Tower Blowdown		0.7%	0.7%
Amount Allocated to UW Chiller Tower Blowdown		\$ 20.99	\$ 20.99 3/
Thermal Asset Water Disposal Quantity = (A) less (B)	Kgals	1,148	1,148
Percent of total allocated to Thermal Asset Water Disposal		99.3%	99.3%
Amount Allocated to Thermal Asset Water Disposal	(a)	\$ 3,011.58	\$ 3,011.58
Percent of Total Billing		100.0%	100%
Total Allocated to Month		\$ 3,032.57	\$ 3,032.57
UW's Allocation Percentage of Steam Variable Costs	(b)	40.98%	
UW's Allocated Share of Thermal Water Disposal Costs	(a) * (b)	\$ 1,234.09	\$ 1,234.09

**University's Share of Variable Costs based on Delivered Steam
Schedule S-2 (cont'd)**

Delivered Steam to the UW	37,121	MMBTU as measured at the steam meter
Delivered Steam to the UW	37,121	MMBTU as measured at the steam meter
Delivered Electric as calculated below	71,915	MMBTU
Total Delivered Steam/Electricity	<u>109,036</u>	
Equals University's Share of Steam	34.04%	

Delivered Electric

Electricity delivered to MGE	N/A	Kwh
Electricity delivered to the CW Assets	N/A	Kwh
Net Generation	<u>21,064,765</u>	
* 3,414 / 1,000,000	0.003414	
Equals Delivered Electric	<u>71,915</u>	MMBTU

Chilled Water Station Service Costs
Schedule CW-2A (Partial)

EV O&M * FCm

Total thermal asset variable costs	\$ 21,317.39
Less: UW's share of variable O&M	\$ 7,257.44
Equals thermal asset variable costs (non-UW)	<u>\$ 14,059.95</u>

Total thermal chem, lube, ammonia costs	\$ 9,830.07
Less: UW's share of variable O&M	\$ 3,346.62
Equals thermal asset variable costs (non-UW)	<u>\$ 6,483.45</u>

Total thermal parts/accessories used	\$ (32,016.99)
Less: UW's share of parts/accessories	\$ (10,900.08)
Equals parts/access. costs (non-UW)	<u>\$ (21,116.91)</u>

Total Fuel Oil	\$ -
Less: UW's share of fuel oil	\$ 0.00
Equals fuel oil costs (non-UW)	<u>\$ (0.00)</u>

Total Sewer Allocated to Thermal	\$ 3,011.58
Less: UW's share of sewer	\$ 1,234.09
Equals sewer costs (non-UW)	<u>\$ 1,777.49</u>

Total City Water Allocated to Thermal	\$ -
Less: UW's share of city water	\$ -
Equals thermal water costs (non-UW)	<u>\$ -</u>

Equals TOTAL EV O&M \$ 1,203.99

FCm - per fuel spreadsheet 5.08%

EV O&M * FCm \$ 61.16

\$ -

EV O&M *FCm + Other adjustments \$ 61.16 3/

Total Inventory
\$ (22,186.92)
\$ (7,553.47)
<u>\$ (14,633.45)</u>
5.08%

\$ (743.33) Should tie to CW Billed Amt on Station Service on Journal Entry support
 \$ (0.00)

Electric Variable O&M Costs*Per Amendment to WCCF O&M Agreement dated February 16, 2012*

TOTAL EV O&M	\$ 1,203.99	
Less: Chilled Water Station Service Costs- Partial	\$ 61.16	
Net EV O&M Costs	<u>\$ 1,142.83</u>	
ALLOCATION		
Electric MWHs allocated to steam	6,490.66	
Total net plant MWHs while operating	21,250.10	
Less: Chilled Water (Station Service) MWHs	999.33	
Net Electric MWHs while operating	<u>20,250.78</u>	
Steam MWHs/Net Electric MWHs		
UW's Share of Net EV O&M Costs	\$ 366.29	1/
MGE's Share of Net EV O&M Costs	\$ 776.54	
	<u>\$ 1,142.83</u>	
Prior Period Adjustment UW's Share of Net EV O&M Costs	\$ -	S-8
Total UW's Share of Net EV O&M Costs	\$ 366.29	

WCCF-MISO Summary wovar cell total column E (Col D + Col E) flip sign

Fuel WB total of column T CW-2A Fuel Tab	Fuel WB total of column S CW-2A Fuel Tab	999.33
Fuel WB total of column S CW-2A Fuel Tab		0.00
		999.33

Fuel WB total of column T CW-2A Fuel Tab

21,250.10 Current Month
0.00 Prior Month

21,250.10

SUMMARY

	Mar-24					
	ACTUAL					
	Total Facility	Steam	Total Electric	Chilled Water	Net Electric	Allocated to Steam & CW
Natural Gas Commodity Costs from Prior Month			\$ -			
Natural Gas Commodity Costs	\$ 556,070.94	\$ 89,310.41	\$ 466,760.53			
Natural Gas Commodity Startup Costs (G)		\$ 9,547.57	\$ (9,547.57)			
Natural Gas Daily Purchase Premium	\$ (73.33)	\$ (62.96)	\$ -	\$ (10.37)	\$ 10.37	
Subtotal	\$ 555,997.61	\$ 98,795.02	\$ 457,212.95	\$ 23,048.87	\$ 434,164.08	
Natural Gas Fixed Costs (D)	\$ 129,155.31	\$ 25,518.76	\$ 103,636.55	\$ 5,264.40	\$ 98,372.15	
Natural Gas Balancing Costs (C)	\$ -	\$ -	\$ -	\$ -	\$ -	
Re-imbursement for Deviation by Pricing Type		\$ -	\$ -	\$ -	\$ -	
Natural Gas Costs	\$ 685,152.92	\$ 124,313.78	\$ 560,849.50	\$ 28,302.91	\$ 532,546.60	\$ (152,616.69)
Fuel Oil Commodity Costs (E)	\$ -	\$ -	\$ -	\$ 0.00	\$ (0.00)	\$ (0.00)
Other Fuel Costs (D)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Fuel portion of Buy-out Costs (Credits back to UW) (less C-16)		\$ -	\$ -	\$ -	\$ -	\$ -
Non-Fuel portion of Buy-out Costs (Credits back to UW) (less C-16)		\$ -	\$ -	\$ -	\$ -	\$ -
Elec Uneconomic Dispatch and Penalties (C)		\$ (387.04)		\$ -	\$ 387.04	\$ 387.04
Total Allocated Costs	\$ 685,152.92	\$ 123,926.74	\$ 560,849.50	\$ 28,302.91	\$ 532,933.64	\$ (152,229.65)

WCCF Buyout Var Cost Per Hour	\$ -			\$ -	\$ -
UW System Buyout Var Cost Per Hour	\$ -			\$ -	\$ -
Nat Gas Allocated (MMBtu) for the Gas Month	231,260.1	41,113.3	190,146.8	9,585.6	180,561.2
Fuel Oil Allocated (MMBtu) for the Gas Month	-	-	-	-	-
Total Gas and Fuel Oil Allocated (MMBtu)	231,260.1	41,113.3	190,146.8	9,585.6	180,561.2
Purchased Power Mwh for the Gas Month				703.5	
Natural Gas Cost Per MMBtu	\$ 2.963	\$ 3.024	\$ 2.950	\$ 2.953	\$ 2.949
Fuel Oil Commodity Costs Per MMBtu	n/a	n/a	n/a	n/a	n/a
Cost Per Mwh of Purchased Power			\$ -	\$ -	
Total Steam Delivered (MLBS) for the Gas Month		29,522.0			
Total Steam Delivered (MMBtu) for the Gas Month		36,292.0			
Ratio: Steam MMBtu per Gas and Oil MMBtu		0.8827			
Delivered Electricity (Mwh from WCCF generation) Allocated for the Gas Month	21,250.1		21,250.1	1,079.4	20,170.7
Ratio: Mwh Delivered to Total for Gas Month (FCM)			1.000000	0.050797	0.949203
Total Allocated Costs Per Mwh Delivered & Allocated			\$ 26.220	\$ 26.421	
Total Gas and Fuel Oil Allocated (MMBtu) divided by Delivered Electricity	10.883		8.948	8.880	8.952
Chiller Tons					3,041,108.11

Memo item:
Mwh from WCCF generation during non-MOP hours to be carried over to next month:

(0.0) -

Prepared by: Halie Osborne

Date prepared: HJO 04/03/24

Reviewed by: Kevin Sutter

Date of review: KLS 4/3/24

Reviewed by: Scott Schmitt

Date of review:

Issue discussion, resolution and date resolved: