

# LUXON PATTERSON

## Attorneys at Law

507 HAMPTON WAY

P.O. BOX 825

RICHMOND, KENTUCKY 40476-0825

Telephone: 859/623-6233

Fax: 859/623-6977

Susan Dabney Luxon  
J. Judson Patterson

email: Susan@luxonpatterson.com  
email: Jud@luxonpatterson.com

December 9, 2009

RECEIVED

DEC 11 2009

PUBLIC SERVICE  
COMMISSION

Public Service Commission  
211 Sower Boulevard  
Frankfort, KY 40601

Re: Madison County Utility District: Case No. 2009-00213, 00214, 00272

Dear Sir or Madam:

Enclosed please find original and ten copies of a completed Response to Data Request for Madison County Utility District.

Please let me know if you need any additional information.

Very truly yours,



Jud Patterson

JP/dp  
Enclosures

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

RECEIVED

DEC 11 2009

PUBLIC SERVICE COMMISSION

In the matter of:

APPLICATION OF THE MADISON COUNTY )  
 UTILITIES DISTRICT FOR A CERTIFICATE OF )  
 PUBLIC CONVENIENCE AND NECESSITY )  
 TO PURCHASE AN AUTOMATED METER READING ) Case No 2009-00272  
 SYSTEM AND FINANCING FOR AUTOMATED )  
 METER READING SYSTEM )

MADISON COUNTY UTILITIES DISTRICT RESPONSE TO THE INFORMATION REQUEST FROM THE PUBLIC SERVICE COMMISSION

1. Explain and provide a detailed cost analysis of the redundant costs to your customers as stated in your letter dated June 4, 2009.

**Response:** There are no redundant costs to customers. The reference to customers was in error. MCUD expects that an AMR system will create significant costs savings from:

- a. Replacing contract meter readers with current employees which will eliminate the attendant costs associated with contract labor including insurance.
- b. Reduce meter reading cycle from approximately ten (10) days to three (3) days.
- c. Increase the accuracy of meter reading thereby eliminating costly re-reads that require significant employee input.
- d. MCUD has undertaken a meter replacement program rather than testing old meters. Because meters are going to be replaced on a regular schedule anyway, implementing an AMR system is timely and will substantially upgrade the technological efficiency of the District.
- e. See Exhibit A for detailed cost analysis of meter readers. This includes 2008 and Jan-Nov 2009 meter reader payroll, benefits, employer taxes, etc. Also, Exhibit A includes payroll registers to support the analysis. Meter readers are marked with an \*.

2. Explain and provide a cost breakdown of the \$385,000 additional cost to the utility as stated in your letter dated June 4, 2009.

**Response:** MCUD has begun a meter replacement program. Approximately 11000 meters will be replaced. Manual read meters cost approximately \$35.00 per meter. Accordingly, once all meters are replaced the additional cost to the utility is \$385,000.00. See Exhibit B.

3. State how many meters in your system are older than 10 years and should have already been tested in accordance with 807 KAR 5:066, Section 16.

**Response:** Approximately 790 meters are more than 10 years old. 790 should have been tested.

4. State how many meters in your system are 10 years old and will require testing this year.

**Response:** There are about 790 meters 10 years old that would require testing this year.

5. State how many meters Madison District plans to replace with AMR meters each year.

**Response:** 2940 meters will be replaced in year one, 2015 meters in each year 2-5.

6. Provide a narrative explanation of Madison District's decision to install the 2940 radio-read meters. Include in the explanation all factors leading to Madison District's decision, including financial, safety, reliability, and operational reasons.

**Response:** MCUD has an aging and increasingly unreliable meter base. The District decided that it was more cost effective to begin replacing meters than testing meters that were known to be beyond useful life expectancy. In determining what type of meter should be purchased to replace the existing meters, several alternatives were discussed. In the final analysis the District, through its Board of Directors, determined that radio-read meters provide the most long term benefit to the District.

Radio read meters eliminate the substantial cost of part-time or contract based meter readers by allowing the District to utilize current employees during their usual work day to read meters. The accuracy of radio-read meters virtually eliminates re-reading of meters and shortens the meter reading cycle from ten (10) days to three (3) days. Water loss is reduced by the installation of newer more accurate technology which also reduces the number of customer requests for meter tests. Radio-read meters have a read success rate over 99% and improve

office efficiency by eliminating tasks associated with transcribing the meter readers route sheet to the computer billing program. Radio-read technology allows for the proactive identification of potential leaks as well.

Madison County is one of the fastest growing counties in the Commonwealth of Kentucky. AMR system technology is crucial to accommodating the growth of the district while maintaining an appropriate level of administrative overhead.

The District determined the first meters to be replaced will be in the Waco service area. These meters are the oldest and most unreliable.

7. According to its application, Madison District plans to replace 2,940 of its existing meters with AMR meters. If the existing meters are not fully depreciated, explain how Madison District intends to recover its undepreciated meter investment.

**Response:** Approximately 300 of the existing 2,940 meters in the service area under review are fully depreciated. All 2,940 meters will be held for six months in accordance with current regulations at our on-site facility. The only “recovery of undepreciated meter investment” will occur when the meters are sold for scrap metal at whatever the prevailing market price is at that time. The accounting treatment of the transactions will most likely create a non-operating accounting loss to be titled “loss on disposal/removal of sol/obsolete meters”. The loss will be the difference between what the meters are sold for less the book value (remaining basis).

8. Given that Madison District is providing water service to over 10,000 customers and is proposing to purchase only 2,940 radio-read meters, provide Madison District’s schedule for the replacement of all its existing meters with radio-read meters, the anticipated total cost of the replacement project, and a detailed financing plan for future replacement of the remaining meters with radio-read meters.

**Response:** Replacement of all existing meters with radio-read meters is scheduled for a five (5) year period.

Year 1            2,940 meters

Year 2	2,015 meters
Year 3	2,015 meters
Year 4	2,015 meters
Year 5	2,015 meters

The anticipated total cost of the replacement project is \$1,640,940. The initial investment in year one includes the radio-read meters, transceiver and endpoint link, docking station for the vehicle, software, mobile collection system with mapping, portability kit, and training. The remainder of years 2-5 will be an outlay of \$1,200,940 for radio-read meters only (8,060 meters x \$149.00 per radio-read meter). The District has accepted (pending PSC approval) a bid of \$149.00 per radio-read meter. See Exhibit B. The District will pay for the meters from general operating funds and will set aside the cost savings (including employer's share of estimated payroll taxes) from the elimination of meter readers as a continuing source of funds. However, the District is not obligated to purchase radio-read meters beyond year one. If the radio-read meters do not produce the expected benefit the program may be discontinued without long-term financial consequence to the District.

9. State whether Madison District has previously purchased radio-read meters. If so, identify the number of radio-read meters Madison District has already installed in its system, the dates the meters were installed, the cost of the meter installations, and the manner in which Madison District financed the radio-read meters.

**Response:** The District has not purchased radio read meters in the past.

10. Provide the following additional details of the expected cost of Madison District's radio-read meter replacement program: a breakdown between labor costs and the cost of materials and the costs of the required annual customer premise meter inspections. Provide all supporting calculations.

**Response:** See attached response titled **Item 10**.

11. Has Madison District performed a cost justification analysis of the proposed radio-read meter system?

- a. If yes, provide the results of the analysis and all assumptions used.
- b. If no, explain whether a cost justification analysis will be performed and, if so, when. If a cost justification analysis will not be performed, explain why an analysis will not be performed.

**Response:** The District calculated the costs of meter readers currently used by the District and assumed these costs will be eliminated by the radio-read meters. Exhibit A details the costs of all meter readers for 2008 and 2009 YTD and specifically meter readers for the Waco service area (the first focus area). The District concluded that the savings justified installing radio-read meters that pay for themselves over time. No further cost justification analysis was done.

12. Explain whether Madison District expects that the radio-read meter replacement program will cause Madison District to increase rates sooner than would be required if the radio-read program were not in place. If the need for a rate increase is expedited by the radio-read meter program, provide an estimate of the impact upon the need for a rate increase.

**Response:** The District will set aside the funds that would have been used to support the meter readers in a “capital improvement” fund to pay for the radio-read meters. Additionally, experience in other districts has shown that radio-read meters often lead to increased revenue by eliminating slow and inaccurate meters. The District expects this approach to be at least a neutral position and does not expect any expedited rate increase requests.

13. Explain whether Madison District plans to use a competitive bidding process when purchasing the necessary radio-read equipment. Include in the explanation a discussion of the bidding process to be used.

**Response:** Yes a bidding process was used. See Exhibit C.

14. Provide Madison District’s best estimate of the annual cost of meter reading, meter turn-ons and turn-offs, depreciation expense, and any other expenses that will be eliminated with implementation of its radio-read program. Include all labor savings (including employee benefits), mileage or vehicle savings, and other savings expected through elimination of monthly

meter readings at the customer's premises. Provide all calculations and workpapers needed to derive the estimated annual cost and documentation to support the estimated depreciation lives.

**Response:** Meter reader gross wages, benefits and insurance costs in 2008 were \$88,505.58. Through October of 2009 the cost of meter readers was \$79,951.31. See Exhibit A. The District expects to save almost all of this expense. Current employees during regular work hours will read the radio-read meters.

Meter turn-on and off will remain an expense of the District. Current meter readers are not paid for mileage nor does the District incur any vehicle expenses. Depreciation expense will decrease by the 2,640 meters (300 are fully depreciated) with an average useful life of 20 years, and an average age of seven years in service, and average cost per meter only of \$40.00. 2,640 meters X \$40=\$105,600 divided by 20 years = \$5,280 depreciation expense per year. Therefore, depreciation expense will decrease \$5,280 for the old meters removed from the plant. The radio read meters have a ten year manufacturers warranty and are expected (based on historical evidence and vendor's representations) to have an estimated useful life of twenty years.

16. a. If Madison District encounters a problem with a radio-read meter, will the unit be repaired or replaced?

**Response:** The register and radio modules are replaced not repaired. The meter may be repaired or replaced at the manufacturer's discretion.

- b. If the radio-read meter can be repaired, provide a cost estimate of the repair. Include copies of all workpapers, assumptions, and calculations used to derive the estimate.

**Response:** Product replacement outside of warranty is as follows:

1. Elster/Itron ERT (radio module): \$80.00
2. Elster C700 register only (5/8"-2"): \$62.00
3. Elster C700 meter complete:

**Meter complete without radio**

5/8" x 1/2"	3/4" x 3/4"	1"	1-1/2"	2"
5/8" x 3/4"	3/4" x 1"			

\$85.00	\$107.50	\$139.00	\$284.00	\$377.00
	<b>Meter complete with radio</b>			
\$155.00	\$177.00	\$209.00	\$355.00	\$447.00

**All costs are based on current Elster price pages list pricing.**

c. State whether the radio-read meters will have a manufacturer’s warranty. Provide any warranty that the manufacturer has on the radio-read meters.

**Response:** See Exhibit D. Written warranties vary depending on meter configuration.

17. Provide a copy of the contract between Madison District and the bank(s) or financial institution(s) providing the credit card/debit card service.

**Response:** See attached.

18. State whether any of the agreements between Madison District and its credit/debit card service providers restrict or prohibit Madison District’s right to assess a fee to persons using a credit card/debit card processing charge.

**Response:** There are no restrictions in the Merchant Processing Agreement attached hereto. It is unknown at this time whether the source contracts include such restrictions. The District will request copies of those contracts and supplement this response as necessary.

19. If the response to Item 18 is yes, explain why Madison District is proposing a credit card/debit card processing charge.

**Response:** The District is under no obligation to accept credit/debit card transactions and does so as a convenience to its customers who request that service. If the cost of the service is not passed on to the customer benefiting from the convenience it is necessarily spread amongst all of the Districts customers through the general expense of the District. Passing the cost on directly to those customers who chose the service properly allocates the expense to those who benefit.



20. Madison District proposes a flat rate fee for the credit card/debit card service provider. Explain why a flat fee should be considered fair, just, or reasonable for the customers who seek to utilize this service.

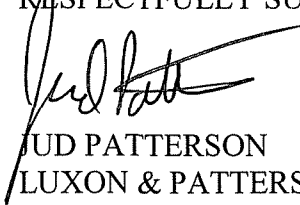
**Response:** While possible to determine what each customer's use of a credit card costs the District, it is not feasible to accurately account for that total and then add that cost to the customer's bill. Office staff has no way of knowing what the credit card charge will be until after the card is used. The processing agent classifies cards according to specific industry standards that are not apparent on the face of the card. To pass the true cost on to the customer, staff would have to review each credit card statement and then add a line item to each bill that was previously paid by credit card. The substantial administrative hours required to perform those tasks are too burdensome for the small staff of the District.

By using a flat fee that is based upon the average cost per credit card user, the cost is evenly allocated amongst those who choose the service. The District does not have any industrial or large commercial customers that use a credit card so there is no one in the pool of users that skews the average. To further ensure an accurate average cost any bill in excess of \$250 paid by credit card could be handled outside of the flat fee convenience charge and assessed the dollar for dollar cost.

21. Madison District has provided information regarding the credit card/debit card service charges for the 12-month period ending April 2009. Explain how Madison District arrived at a fee of \$2.00 using the information that has been provided. Additionally, explain why a customer using the credit/debit card service being provided should not pay the exact fee associated with their charge and not a flat fee.

**Response:** The District took the total amount of charges incurred by the District from the use of credit cards and divided that number by the total number of customers using a credit card. The District then rounded down to two dollars (\$2.00). See Response to Question 20.

RESPECTFULLY SUBMITTED,

A handwritten signature in black ink, appearing to read "Jud Patterson", written over the printed name.

JUD PATTERSON  
LUXON & PATTERSON

507 Hampton Way  
Richmond, KY 40475  
(859) 623-6233

Counsel for Madison County Utilities District

## **PSC Information Request Response**

### **1. Exhibit A**

**W.C. insurance premium breakdown**

**Payroll earnings report as of Dec. 31, 2008**

**Payroll earnings report as of Oct. 31, 2009**

**Payroll check register (check date 11/02/09)**

### **2. Item 7**

### **3. Item 10**

### **4. Item 15**

### **5. Accepted bid**

### **6. Automatic meter reading information**

### **7. Advertisement for bids**

EXHIBIT A

Madison County Utilities District Meter Reader Payroll Information

This information consists of Madison County Utilities District costs associated with ALL meter readers and a breakdown of meter readers in the Waco area of the county where AMR will be installed initially.

	<u>2008 All Meter Readers</u>	<u>2008 Waco Meter Readers</u>
Gross Pay	\$78,083.26	\$31,008.60
Workman's Comp	3,256.07	1,292.70
Liability Ins	226.20	89.90
MCUD Share FICA @ 6.20%	4,841.16	1,922.53
MCUD Share Medicare @ 1.45%	1,132.21	449.62
Ky State Unemployment Tax	<u>966.68</u>	<u>360.42</u>
	\$88,505.58	\$35,123.77
	<u>2009 All Meter Readers</u>	<u>2009 Waco Meter Readers</u>
Gross Pay	\$70,520.35	\$32,143.30
Workman's Comp	2,940.70	1,341.20
Liability Ins	205.90	93.26
MCUD Share FICA @ 6.20%	4,372.26	1,992.88
MCUD Share Medicare @ 1.45%	1,022.55	466.08
Ky State Unemployment Tax	<u>889.55</u>	<u>404.63</u>
	\$79,951.31	\$36,441.35

Workman's Comp is \$100 of payroll x 4.17%

Liability insurance is \$1,000 of payroll x \$2.90

KY State Unemployment on first \$8,000 of pay x 1.4%

[Print] [Close]

From: sporter <sporter@ROEDING.com>  
To: "madisoncountyuti@bellsouth.net" <madisoncountyuti@bellsouth.net>  
Subject: Work Comp and General Liability rates for -- MADISON UTILITIES  
Date: Tuesday, November 3, 2009 2:51:40 PM

Hi Jeanne,

It was a pleasure speaking with you this morning concerning your request for rates as it relates to a PSC report you are completing.

I have attached a breakdown of your worker's compensation insurance premium. You will note it shows the Coverage ("rate") along with the total payroll for the three categories of employees you have.

Please note this rate is applied per \$100 of payroll which results in the Premium you see listed. This shows the base premium before credits and taxes are applied.

To calculate the TOTAL ANNUAL PREMIUM, additional credits and taxes are applied as you will note in the vertical column on the attached breakdown.

Please let me know if you have any questions about this breakdown or if I can further assist you in completing your PSC report.

You also asked about the rate utilized for your General Liability insurance premium. The rate used for your current 2009-10 policy term is \$2.90 and is applied per \$1,000 of your total budget. The budget figure utilized for this term was \$1,531,600 and resulted in a total General Liability premium of \$4,442.00 for 2009-10.

Thanks so much for the opportunity to serve your insurance needs.  
Sue

**Attachment 1:** [Document.pdf](#) (application/pdf)

# QUOTE #07895

QUOTE #:

07895

Member Name: 1139 Madison County Utilities District

Agency Name: Public Entity, Inc.

Policy Effective: 07/01/2009

Agent: Sue Porter

Policy Expiration: 07/01/2010

Underwriter:

Date Received: 12/01/2008

Coverage will be administered under:

Quote Date: 12/01/2008

KACo Workers Compensation

Date Canceled:

In the State of: KY

Date Declined:

Class	Class Description	Coverage	Annual Payroll	Premium
7520	Waterworks operations & drivers	4.17	\$364,185.00	\$15,186.51
7520	Meter Readers	4.17	\$83,117.00	\$3,465.98
8810	Clerical office employees	0.27	\$204,540.00	\$552.26

Remarks

Sub Total for Classes		\$19,204.75
Prorata Adjustment	1.000	\$19,205.00
Experience Modifier	0.91	(\$1,728.00)
Schedule Credits	0.85	(\$2,622.00)
Premium Discount		\$0.00
Agency Discount	0	\$0.00
Premium Sub Total		\$14,855.00
Minimum Premium		\$350.00
Tax Fund	0.065	\$966.00
<b>Total Annual Premium</b>		<b>\$15,821.00</b>

Deposit Due

3/2/2009  
14:52

**MADISON COUNTY UTILITIES DISTRICT**  
Payroll Earnings Report  
As of December 31, 2008


Company: MCU  
Page: 1

Employ I.D. Dept #	Employ Name Soc-Sec-No Description	E A R N I N G S			D E D U C T I O N S				
		MTD	QTD	YTD	Description	MTD	QTD	YTD	
1002	WALTER L. CORNELISON ***-**-8762 Comm	300.00	900.00	3,600.00	FICA W/H	18.60	55.80	223.20	
					Medi W/H	4.35	13.05	52.20	
					Fed W/H	60.00	180.00	720.00	
					State W/H	20.50	61.50	246.24	
					Local W/H	3.00	9.00	36.00	
	TOTAL EARNINGS:	300.00	900.00	3,600.00					
	TOTAL DEDUCTIONS:	106.45	319.35	1,277.64	<<<	106.45	319.35	1,277.64	
	NET PAY:	193.55	580.65	2,322.36					
1003	JAMES R. CARR ***-**-9712 Comm	300.00	900.00	3,600.00	FICA W/H	18.60	55.80	223.20	
					Medi W/H	4.35	13.05	52.20	
					State W/H	2.50	7.50	30.24	
					Local W/H	3.00	9.00	36.00	
	TOTAL EARNINGS:	300.00	900.00	3,600.00					
	TOTAL DEDUCTIONS:	28.45	85.35	341.64	<<<	28.45	85.35	341.64	
	NET PAY:	271.55	814.65	3,258.36					
1005	WANDA PENNINGTON ***-**-0801 Comm	300.00	900.00	3,600.00	FICA W/H	18.60	55.80	223.20	
					Medi W/H	4.35	13.05	52.20	
					Fed W/H	7.92	23.76	95.04	
					State W/H	2.50	7.50	30.24	
					Local W/H	3.00	9.00	36.00	
	TOTAL EARNINGS:	300.00	900.00	3,600.00					
	TOTAL DEDUCTIONS:	36.37	109.11	436.68	<<<	36.37	109.11	436.68	
	NET PAY:	263.63	790.89	3,163.32					
1006	MARTIN D. SIZEMORE ***-**-0772 Comm	300.00	900.00	3,600.00	FICA W/H	18.60	55.80	223.20	
					Medi W/H	4.35	13.05	52.20	
					Local W/H	3.00	9.00	36.00	
	TOTAL EARNINGS:	300.00	900.00	3,600.00					
	TOTAL DEDUCTIONS:	25.95	77.85	311.40	<<<	25.95	77.85	311.40	
	NET PAY:	274.05	822.15	3,288.60					
2001	EDDIE HUNTER ***-**-6692 Regular Py	2,926.40	8,779.20	37,315.20	FICA W/H	183.03	546.27	2,307.44	
	Mtr Reader	0.00	0.00	73.16	Medi W/H	42.80	127.74	539.61	
	* Other Wage	365.80	987.66	3,498.10	Fed W/H	396.79	1,178.97	4,593.35	
					State W/H	143.06	426.53	1,793.23	
					Local W/H	24.69	73.25	322.54	
					Def Comp	80.00	240.00	1,040.00	
					Visn/Dent	32.74	98.22	415.35	
					401a	164.61	488.34	2,044.34	
					Afl/Health	142.76	369.60	1,070.90	
					Richmond	16.46	48.84	304.15	
					STD/Life	72.50	217.50	838.50	
					Loan	68.20	204.60	616.72	
	TOTAL EARNINGS:	3,292.20	9,766.86	40,886.46					
	TOTAL DEDUCTIONS:	1,367.64	4,019.86	15,886.13	<<<	1,367.64	4,019.86	15,886.13	
	NET PAY:	1,924.56	5,747.00	25,000.33					

3/2/2009  
14:52

**MADISON COUNTY UTILITIES DISTRICT**  
Payroll Earnings Report  
As of December 31, 2008

Company: MCU  
Page: 2

Employ I.D. Dept #	Employ Name Soc-Sec-No	Description	E A R N I N G S			D E D U C T I O N S			
			MTD	OTD	YTD	Description	MTD	OTD	YTD
2002	RANDOL BURNS ***-**-6035	Regular Py Other Wage	2,926.40 566.99	8,779.20 1,627.81	37,315.20 6,010.71	FICA W/H Medi W/H Fed W/H State W/H Local W/H Def Comp Vision 401a AFLAC Health Ins Dental	194.11 45.40 435.51 173.42 34.93 80.00 17.32 174.67 68.12 53.34 49.10	578.02 135.18 1,296.11 516.24 104.06 240.00 51.96 520.35 204.36 160.02 147.30	2,413.90 564.51 5,396.99 2,152.80 433.24 1,040.00 225.16 2,166.30 885.56 497.64 617.50
		TOTAL EARNINGS:	3,493.39	10,407.01	43,325.91				
		TOTAL DEDUCTIONS:	1,325.92	3,953.60	16,393.60	<<<	1,325.92	3,953.60	16,393.60
		NET PAY:	2,167.47	6,453.41	26,932.31				
2003	MATTHEW R. BURNS ***-**-1976	Regular Py Mtr Reader 	441.00 379.40	1,323.00 1,155.00	5,685.75 4,686.50	FICA W/H Medi W/H State W/H Local W/H	50.86 11.90 14.09 8.21	153.62 35.94 43.15 24.81	643.04 150.42 180.28 103.84
		TOTAL EARNINGS:	820.40	2,478.00	10,372.25				
		TOTAL DEDUCTIONS:	85.06	257.52	1,077.58	<<<	85.06	257.52	1,077.58
		NET PAY:	735.34	2,220.48	9,294.67				
2004	KARROL L. SWITZER ***-**-2517	Regular Py	400.00	1,200.00	5,200.00	FICA W/H Medi W/H State W/H Local W/H	24.80 5.80 4.84 4.00	74.40 17.40 14.52 12.00	322.40 75.40 63.34 52.00
		TOTAL EARNINGS:	400.00	1,200.00	5,200.00				
		TOTAL DEDUCTIONS:	39.44	118.32	513.14	<<<	39.44	118.32	513.14
		NET PAY:	360.56	1,081.68	4,686.86				
2005	JEREMY W. POWELL ***-**-4820	Regular Py Overtime	1,836.80 439.11	5,510.40 1,110.69	22,318.40 3,049.43	FICA W/H Medi W/H Fed W/H State W/H Local W/H Def Comp Accidental 401a AFLAC Health Ins Dental/Vis	127.05 29.71 242.88 93.59 22.75 30.00 13.84 113.79 26.86 53.34 32.74	368.98 86.29 699.19 269.39 66.20 90.00 41.52 331.06 80.58 160.02 98.22	1,415.91 331.13 2,426.50 990.80 253.67 390.00 55.36 1,268.41 349.18 497.64 415.35
		TOTAL EARNINGS:	2,275.91	6,621.09	25,367.83				
		TOTAL DEDUCTIONS:	786.55	2,291.45	8,393.95	<<<	786.55	2,291.45	8,393.95
		NET PAY:	1,489.36	4,329.64	16,973.88				
2006	JARED WEBB ***-**-1922	Regular Py Overtime	2,086.40 679.71	6,259.20 1,584.36	26,665.60 6,221.45	FICA W/H Medi W/H Fed W/H	155.33 36.33 261.92	439.21 102.73 720.95	1,852.66 433.28 3,017.67



3/2/2009  
14:52

**MADISON COUNTY UTILITIES DISTRICT**  
Payroll Earnings Report  
As of December 31, 2008

Company: MCU  
Page: 3

Employ I.D. Dept #	Employ Name Soc-Sec-No	Description	E A R N I N G S			D E D U C T I O N S			
			MTD	QTD	YTD	Description	MTD	QTD	YTD
						State W/H	115.03	320.02	1,346.08
						Local W/H	27.66	78.44	328.87
						Def Comp	90.00	270.00	1,070.00
						Vision	8.66	25.98	112.58
						401a	138.30	392.18	1,644.37
						Roth 401k	60.00	180.00	780.00
						Health Ins	53.34	160.02	497.64
						Dental	24.08	72.24	302.77
						Cancer	36.38	109.14	447.98
		TOTAL EARNINGS:	2,766.11	7,843.56	32,887.05				
		TOTAL DEDUCTIONS:	1,007.03	2,870.91	11,833.90	<<<	1,007.03	2,870.91	11,833.90
		NET PAY:	1,759.08	4,972.65	21,053.15				
2007	ROBERT E. CAIN ***-**-8950	Regular Py	0.00	0.00	12,813.05	FICA W/H	0.00	0.00	973.12
		Overtime	0.00	0.00	4,203.52	Medi W/H	0.00	0.00	227.56
						Fed W/H	0.00	0.00	1,829.29
						State W/H	0.00	0.00	704.70
						Local W/H	0.00	0.00	170.15
						Def Comp	0.00	0.00	525.00
						Vision	0.00	0.00	64.95
						401a	0.00	0.00	850.83
						AFLAC	0.00	0.00	201.45
						Roth 401k	0.00	0.00	450.00
						Health Ins	0.00	0.00	204.27
						Loan	0.00	0.00	462.45
		TOTAL EARNINGS:	0.00	0.00	17,016.57				
		TOTAL DEDUCTIONS:	0.00	0.00	6,663.77	<<<	0.00	0.00	6,663.77
		NET PAY:	0.00	0.00	10,352.80				
2008	CHARLES J. HOLLAND ***-**-7853	Regular Py	1,912.00	5,736.00	24,440.00	FICA W/H	174.26	478.23	1,970.47
		Overtime	896.50	1,927.48	8,569.29	Medi W/H	40.76	111.84	460.84
		Mtr Reader	302.40	912.80	2,345.00	Fed W/H	172.91	416.28	2,270.10
						State W/H	107.86	281.86	1,188.79
						Local W/H	31.10	85.76	353.56
						Def Comp	80.00	240.00	1,040.00
						STD	0.00	0.00	16.44
						401a	155.54	428.83	1,767.75
						AFLAC	74.86	224.58	973.18
						Health Ins	276.54	829.62	3,494.92
						Acc/Cancer	0.00	0.00	31.38
						Dental/Vis	69.84	209.52	831.61
		TOTAL EARNINGS:	3,110.90	8,576.28	35,354.29				
		TOTAL DEDUCTIONS:	1,183.67	3,306.52	14,399.04	<<<	1,183.67	3,306.52	14,399.04
		NET PAY:	1,927.23	5,269.76	20,955.25				
2009	JOHN C. CLARK ***-**-9873	Regular Py	3,615.38	10,846.14	45,749.99	FICA W/H	199.98	599.94	2,517.87
						Medi W/H	46.78	140.34	588.85
						Fed W/H	291.34	874.02	3,590.16
						State W/H	162.02	486.06	2,030.39
						Local W/H	36.16	108.48	108.48
						Richmond	0.00	0.00	698.04

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			MTD	QTD	YTD	Description	MTD	QTD	YTD
						401a	180.76	542.28	2,287.48
						Health Ins	0.00	0.00	1,147.10
						Dental	85.48	256.44	1,074.97
						Vision	25.86	77.58	336.18
						Acc/Cancer	0.00	0.00	56.82
						Acc/Cancer	97.70	293.10	293.10
		TOTAL EARNINGS:	3,615.38	10,846.14	45,749.99				
		TOTAL DEDUCTIONS:	1,126.08	3,378.24	14,729.44	<<<	1,126.08	3,378.24	14,729.44
		NET PAY:	2,489.30	7,467.90	31,020.55				
2012	VICTOR L. BARNETT ***-**-2454	Regular Py	745.20	3,368.93	10,906.16	FICA W/H	46.20	208.88	676.19
						Medi W/H	10.80	48.83	158.15
						Fed W/H	4.28	118.18	327.09
						State W/H	17.08	116.06	346.73
						Local W/H	7.45	33.68	109.05
		TOTAL EARNINGS:	745.20	3,368.93	10,906.16				
		TOTAL DEDUCTIONS:	85.81	525.63	1,617.21	<<<	85.81	525.63	1,617.21
		NET PAY:	659.39	2,843.30	9,288.95				
2013	BENJAMIN T. THACKER ***-**-7883	Regular Py Overtime Mtr Reader	1,652.80 577.38 456.40	4,958.40 1,767.01 1,376.90	21,122.40 5,608.46 5,513.20	FICA W/H	152.90	461.22	1,842.57
						Medi W/H	35.76	107.87	430.93
						Fed W/H	267.93	809.86	3,185.04
						State W/H	103.12	311.68	1,226.34
						Local W/H	26.87	81.03	322.48
						Def Comp	80.00	240.00	890.00
						Health Ins	53.34	160.02	497.64
						401a	134.33	405.12	1,612.23
						Vision	8.66	25.98	112.58
						Dental	24.08	72.24	302.77
						Accidental	13.84	41.52	55.36
		TOTAL EARNINGS:	2,686.58	8,102.31	32,244.06				
		TOTAL DEDUCTIONS:	900.83	2,716.54	10,477.94	<<<	900.83	2,716.54	10,477.94
		NET PAY:	1,785.75	5,385.77	21,766.12				
2014	BARRETT D. GAHAFFER ***-**-2851	Regular Py	0.00	0.00	3,400.00	FICA W/H	0.00	0.00	210.80
						Medi W/H	0.00	0.00	49.30
						Fed W/H	0.00	0.00	163.84
						State W/H	0.00	0.00	141.36
						Local W/H	0.00	0.00	34.00
		TOTAL EARNINGS:	0.00	0.00	3,400.00				
		TOTAL DEDUCTIONS:	0.00	0.00	599.30	<<<	0.00	0.00	599.30
		NET PAY:	0.00	0.00	2,800.70				
2015	JEREMIAH TATE ***-**-8021	Regular Py	0.00	0.00	1,318.00	FICA W/H	0.00	0.00	81.72
						Medi W/H	0.00	0.00	19.12
						Fed W/H	0.00	0.00	70.66
						State W/H	0.00	0.00	20.62
						Local W/H	0.00	0.00	13.18
		TOTAL EARNINGS:	0.00	0.00	1,318.00				

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

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		MTD	QTD	YTD	Description	MTD	QTD	YTD	
	TOTAL DEDUCTIONS:	0.00	0.00	205.30	<<<	0.00	0.00	205.30	
	NET PAY:	0.00	0.00	1,112.70					
2018	CHRISTOPHER K. MIZE ***-**-6306 Mtr Reader 	275.10	572.60	572.60	FICA W/H	17.06	35.51	35.51	
					Medi W/H	3.99	8.30	8.30	
					State W/H	5.10	11.32	11.32	
					Local W/H	2.75	5.73	5.73	
						5.50	11.45	11.45	
	TOTAL EARNINGS:	275.10	572.60	572.60					
	TOTAL DEDUCTIONS:	34.40	72.31	72.31	<<<	34.40	72.31	72.31	
	NET PAY:	240.70	500.29	500.29					
2022	WILLIAM E. RENZENBRINK ***-**-6046 Mtr Reader 	378.00	1,133.30	4,461.80	FICA W/H	23.44	70.27	276.64	
					Medi W/H	5.48	16.43	64.69	
					Fed W/H	27.61	82.76	324.43	
					State W/H	10.25	30.71	120.91	
					Local W/H	3.78	11.33	44.61	
	TOTAL EARNINGS:	378.00	1,133.30	4,461.80					
	TOTAL DEDUCTIONS:	70.56	211.50	831.28	<<<	70.56	211.50	831.28	
	NET PAY:	307.44	921.80	3,630.52					
2029	CHRIS MCMULLIN ***-**-4238 Mtr Reader 	1,031.10	3,105.20	12,438.30	FICA W/H	63.93	192.52	771.18	
					Medi W/H	14.95	45.02	180.33	
					Fed W/H	104.47	315.20	1,264.35	
					State W/H	47.27	142.51	571.50	
					Local W/H	10.31	31.05	124.39	
	TOTAL EARNINGS:	1,031.10	3,105.20	12,438.30					
	TOTAL DEDUCTIONS:	240.93	726.30	2,911.75	<<<	240.93	726.30	2,911.75	
	NET PAY:	790.17	2,378.90	9,526.55					
2033	GEORGE G. NEWLAND ***-**-6200 Mtr Reader 	833.70	2,499.70	9,863.70	FICA W/H	51.69	154.98	611.55	
					Medi W/H	12.09	36.25	143.04	
					Fed W/H	39.14	117.28	455.99	
					State W/H	35.82	107.38	422.16	
					Local W/H	8.34	25.00	98.65	
	TOTAL EARNINGS:	833.70	2,499.70	9,863.70					
	TOTAL DEDUCTIONS:	147.08	440.89	1,731.39	<<<	147.08	440.89	1,731.39	
	NET PAY:	686.62	2,058.81	8,132.31					
2034	BERTHA L. NEWTON ***-**-8661 Mtr Reader 	758.80	2,322.60	8,826.30	FICA W/H	47.05	144.00	547.22	
					Medi W/H	11.00	33.68	127.98	
					Fed W/H	45.11	139.95	513.39	
					State W/H	32.25	99.43	371.67	
					Local W/H	7.59	23.22	88.27	
	TOTAL EARNINGS:	758.80	2,322.60	8,826.30					
	TOTAL DEDUCTIONS:	143.00	440.28	1,648.53	<<<	143.00	440.28	1,648.53	
	NET PAY:	615.80	1,882.32	7,177.77					
2035	MICHAEL G. BURNS ***-**-1951 Mtr Reader 	793.10	2,346.40	9,296.70	FICA W/H	49.17	145.48	576.39	

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			MTD	QTD	YTD	Description	MTD	QTD	YTD
						Medi W/H	11.50	34.03	134.84
						Fed W/H	88.97	261.97	1,034.88
						State W/H	34.24	100.81	398.51
						Local W/H	7.93	23.47	92.99
		TOTAL EARNINGS:	793.10	2,346.40	9,296.70				
		TOTAL DEDUCTIONS:	191.81	565.76	2,237.61	<<<	191.81	565.76	2,237.61
		NET PAY:	601.29	1,780.64	7,059.09				
2036	TRUETT G. RICKS ***-**-5716	Mtr Reader 	229.60	667.10	2,685.20	FICA W/H	14.24	41.37	166.48
						Medi W/H	3.33	9.68	38.96
						State W/H	2.54	6.97	28.63
						Local W/H	2.30	6.68	26.85
		TOTAL EARNINGS:	229.60	667.10	2,685.20				
		TOTAL DEDUCTIONS:	22.41	64.70	260.92	<<<	22.41	64.70	260.92
		NET PAY:	207.19	602.40	2,424.28				
2050	JESSICA M. LAKES ***-**-9361	Mtr Reader 	0.00	0.00	3,745.70	FICA W/H	0.00	0.00	232.23
						Medi W/H	0.00	0.00	54.31
						Fed W/H	0.00	0.00	252.58
						State W/H	0.00	0.00	168.01
						Local W/H	0.00	0.00	37.46
		TOTAL EARNINGS:	0.00	0.00	3,745.70				
		TOTAL DEDUCTIONS:	0.00	0.00	744.59	<<<	0.00	0.00	744.59
		NET PAY:	0.00	0.00	3,001.11				
2051	DONALD BURNS ***-**-1224	Mtr Reader 	72.10	231.70	966.70	FICA W/H	4.47	14.36	59.92
						Medi W/H	1.05	3.37	14.05
						State W/H	0.00	0.01	0.45
						Local W/H	0.72	2.31	9.67
		TOTAL EARNINGS:	72.10	231.70	966.70				
		TOTAL DEDUCTIONS:	6.24	20.05	84.09	<<<	6.24	20.05	84.09
		NET PAY:	65.86	211.65	882.61				
2503	ROBERT THOMPSON ***-**-4004	Regular Py Overtime Mtr Reader 	1,440.00 20.25 305.20	4,320.00 202.50 1,183.00	11,592.89 343.58 2,364.60	FICA W/H	103.99	336.06	855.08
						Medi W/H	24.32	78.60	200.00
						Fed W/H	77.18	270.38	680.10
						State W/H	62.78	210.23	532.45
						Local W/H	17.65	57.05	142.99
						401a	88.27	285.27	509.80
		TOTAL EARNINGS:	1,765.45	5,705.50	14,301.07				
		TOTAL DEDUCTIONS:	374.19	1,237.59	2,920.42	<<<	374.19	1,237.59	2,920.42
		NET PAY:	1,391.26	4,467.91	11,380.65				
2504	JULIE BLANTON ***-**-7528	Mtr Reader 	0.00	0.00	737.80	FICA W/H	0.00	0.00	45.74
						Medi W/H	0.00	0.00	10.70
						Fed W/H	0.00	0.00	4.33

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			MTD	QTD	YTD	Description	MTD	QTD	YTD
						State W/H	0.00	0.00	15.83
						Local W/H	0.00	0.00	7.38
		TOTAL EARNINGS:	0.00	0.00	737.80				
		TOTAL DEDUCTIONS:	0.00	0.00	83.98	<<<	0.00	0.00	83.98
		NET PAY:	0.00	0.00	653.82				
2505	MATT E. FARTHING ***-**-5596	Mtr Reader *	0.00	0.00	379.40	FICA W/H	0.00	0.00	23.52
						Medi W/H	0.00	0.00	5.50
						State W/H	0.00	0.00	2.89
						Local W/H	0.00	0.00	3.79
		TOTAL EARNINGS:	0.00	0.00	379.40				
		TOTAL DEDUCTIONS:	0.00	0.00	35.70	<<<	0.00	0.00	35.70
		NET PAY:	0.00	0.00	343.70				
2506	JOSH THOMAS ***-**-0131	Mtr Reader *	0.00	0.00	177.10	FICA W/H	0.00	0.00	10.98
						Medi W/H	0.00	0.00	2.57
						Fed W/H	0.00	0.00	7.52
						State W/H	0.00	0.00	1.93
						Local W/H	0.00	0.00	1.77
		TOTAL EARNINGS:	0.00	0.00	177.10				
		TOTAL DEDUCTIONS:	0.00	0.00	24.77	<<<	0.00	0.00	24.77
		NET PAY:	0.00	0.00	152.33				
2507	MADGE N. NOBLE ***-**-1141	Mtr Reader *	0.00	0.00	339.50	FICA W/H	0.00	0.00	21.05
						Medi W/H	0.00	0.00	4.92
						State W/H	0.00	0.00	6.01
						Local W/H	0.00	0.00	3.40
		TOTAL EARNINGS:	0.00	0.00	339.50				
		TOTAL DEDUCTIONS:	0.00	0.00	35.38	<<<	0.00	0.00	35.38
		NET PAY:	0.00	0.00	304.12				
3002	MITZI L. TUSSEY ***-**-0379	Regular Py Overtime	1,955.20 13.75	5,865.60 655.30	24,991.20 986.98	FICA W/H	110.63	368.06	1,473.47
						Medi W/H	25.88	86.09	344.62
						Fed W/H	247.66	839.37	3,314.18
						State W/H	79.97	273.75	1,073.43
						AFLAC/Roth	82.16	246.48	1,068.08
						Vision	8.66	25.98	112.58
						401a	98.45	326.06	1,298.93
						Richmond	39.38	130.43	519.60
						Dental	24.08	72.24	302.77
						Health Ins	53.34	160.02	497.64
		TOTAL EARNINGS:	1,968.95	6,520.90	25,978.18				
		TOTAL DEDUCTIONS:	770.21	2,528.48	10,005.30	<<<	770.21	2,528.48	10,005.30
		NET PAY:	1,198.74	3,992.42	15,972.88				
3004	ALICE C. EDWARDS ***-**-7292	Regular Py	1,470.26	4,397.74	17,896.77	FICA W/H	89.50	267.70	1,088.08
						Medi W/H	20.93	62.60	254.46

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			MTD	QTD	YTD	Description	MTD	QTD	YTD
						Fed W/H	196.53	587.65	2,372.83
						State W/H	60.21	179.86	712.88
						AFLAC	26.68	80.04	346.84
						Richmond	29.41	87.96	357.94
						Acc	16.52	49.56	49.56
		TOTAL EARNINGS:	1,470.26	4,397.74	17,896.77				
		TOTAL DEDUCTIONS:	439.78	1,315.37	5,182.59	<<<	439.78	1,315.37	5,182.59
		NET PAY:	1,030.48	3,082.37	12,714.18				
3005	REBECCA E. TURPIN ***-**-9350	Regular Py Overtime	2,260.80 524.70	6,782.40 1,722.50	28,891.20 3,937.99	FICA W/H Medi W/H Fed W/H State W/H Def Comp Vision 401a Richmond Dental Health Ins	158.73 37.12 222.90 121.49 60.00 8.66 139.28 55.71 24.08 53.34	484.92 113.40 689.85 372.64 180.00 25.98 425.26 170.10 72.24 160.02	1,877.00 438.97 2,447.07 1,405.67 780.00 112.58 1,641.49 656.60 302.77 497.64
		TOTAL EARNINGS:	2,785.50	8,504.90	32,829.19				
		TOTAL DEDUCTIONS:	881.31	2,694.41	10,159.79	<<<	881.31	2,694.41	10,159.79
		NET PAY:	1,904.19	5,810.49	22,669.40				
3006	JANET L. YORK ***-**-8892	Regular Py Overtime	1,987.20 666.02	5,961.60 1,029.31	24,472.80 2,118.79	FICA W/H Medi W/H Fed W/H State W/H Def Comp Dental 401a AFLAC Richmond Health Ins	127.62 29.85 152.15 94.12 30.00 49.10 132.66 105.14 53.06 307.88	325.81 76.20 342.73 228.99 90.00 147.30 349.55 315.42 139.82 923.64	1,216.31 284.45 1,170.47 825.34 330.00 594.55 1,329.62 1,314.25 531.84 3,734.98
		TOTAL EARNINGS:	2,653.22	6,990.91	26,591.59				
		TOTAL DEDUCTIONS:	1,081.58	2,939.46	11,331.81	<<<	1,081.58	2,939.46	11,331.81
		NET PAY:	1,571.64	4,051.45	15,259.78				
3007	CHARLOTTE F. HILL ***-**-1330	Regular Py Overtime	1,564.80 113.69	4,694.40 718.84	19,999.20 1,229.43	FICA W/H Medi W/H Fed W/H State W/H Accidental Health Ins 401a Dental/Vis Richmond Def Comp STD/Life	75.66 17.69 58.49 46.10 13.84 307.88 83.93 66.42 33.57 20.00 56.32	249.23 58.28 207.35 156.78 41.52 923.64 270.67 199.26 108.27 100.00 168.96	967.08 226.14 709.73 570.63 55.36 3,879.46 1,061.43 690.17 424.58 500.00 744.51
		TOTAL EARNINGS:	1,678.49	5,413.24	21,228.63				
		TOTAL DEDUCTIONS:	779.90	2,483.96	9,829.09	<<<	779.90	2,483.96	9,829.09
		NET PAY:	898.59	2,929.28	11,399.54				

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			MTD	QTD	YTD	Description	MTD	QTD	YTD
3008	BRENDA L. BULLINS-BOGIE ***-**-4697	Regular Py Overtime	0.00 0.00	2,624.76 173.89	15,581.56 1,062.46	FICA W/H Medi W/H Fed W/H State W/H 401a Life Richmond Dental STD/Life	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	161.85 37.85 137.97 104.37 139.94 0.00 55.97 48.16 66.84	963.05 225.23 814.84 619.42 832.21 20.00 332.88 278.69 338.64
	TOTAL EARNINGS:		0.00	2,798.65	16,644.02				
	TOTAL DEDUCTIONS:		0.00	752.95	4,424.96	<<<	0.00	752.95	4,424.96
	NET PAY:		0.00	2,045.70	12,219.06				
3009	TAMARA S. WEBB ***-**-6055	Regular Py Overtime Mtr Reader	1,564.80 440.11 966.70	4,694.40 1,323.98 2,893.80	19,999.20 3,689.43 8,610.00	FICA W/H Medi W/H Fed W/H State W/H Local W/H Def Comp Vision 401a Richmond Dental Health Ins	169.69 39.69 316.04 121.72 9.67 30.00 8.66 148.59 40.10 24.08 53.34	508.93 119.02 947.75 365.01 28.94 90.00 25.98 445.63 120.38 72.24 160.02	1,845.80 431.67 3,291.99 1,262.00 86.10 390.00 112.58 1,614.99 473.81 302.77 497.64
	TOTAL EARNINGS:		2,971.61	8,912.18	32,298.63				
	TOTAL DEDUCTIONS:		961.58	2,883.90	10,309.35	<<<	961.58	2,883.90	10,309.35
	NET PAY:		2,010.03	6,028.28	21,989.28				
3010	RHONDA G. BARCENAS ***-**-5518	Regular Py Overtime	1,280.00 123.00	3,840.00 507.00	4,480.00 555.00	FICA W/H Medi W/H Fed W/H State W/H Health/Den 401a Richmond Vision	76.43 17.87 124.91 47.97 77.42 84.18 28.06 8.66	237.60 55.55 394.85 151.70 232.26 260.82 86.94 21.65	277.70 64.93 461.86 184.33 232.26 302.10 100.70 21.65
	TOTAL EARNINGS:		1,403.00	4,347.00	5,035.00				
	TOTAL DEDUCTIONS:		465.50	1,441.37	1,645.53	<<<	465.50	1,441.37	1,645.53
	NET PAY:		937.50	2,905.63	3,389.47				
3011	SANDY C. LAINHART ***-**-9951	Regular Py Overtime Vacation	0.00 0.00 0.00	0.00 0.00 0.00	13,740.00 254.28 1,173.60	FICA W/H Medi W/H Fed W/H State W/H AFLAC 401a Life/Roth Richmond AFLAC/Acci Def Comp	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	865.55 202.42 1,414.14 541.53 448.56 758.39 468.54 303.35 587.37 315.00
	TOTAL EARNINGS:		0.00	0.00	15,167.88				

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Employ I.D. Dept #	Employ Name Soc-Sec-No	Description	E A R N I N G S			D E D U C T I O N S			
			MTD	OTD	YTD	Description	MTD	OTD	YTD
		TOTAL DEDUCTIONS:	0.00	0.00	5,904.85	<<<	0.00	0.00	5,904.85
		NET PAY:	0.00	0.00	9,263.03				
3012	JEANNE K. MICHAELS ***-**-9488	Regular Py Overtime	1,192.50 18.75	3,267.50 18.75	12,829.70 18.75	FICA W/H Medi W/H Fed W/H State W/H Health Ins 401a Richmond	71.34 16.69 73.70 41.67 0.00 60.57 24.23	193.56 45.27 176.39 105.88 0.00 164.33 65.73	746.73 174.64 600.39 374.47 162.54 642.46 256.98
		TOTAL EARNINGS:	1,211.25	3,286.25	12,848.45				
		TOTAL DEDUCTIONS:	288.20	751.16	2,958.21	<<<	288.20	751.16	2,958.21
		NET PAY:	923.05	2,535.09	9,890.24				
3013	RYAN N. NOLAND ***-**-8495	Regular Py	272.00	272.00	272.00	FICA W/H Medi W/H Fed W/H State W/H Local W/H	16.86 3.94 25.80 9.90 2.72	16.86 3.94 25.80 9.90 2.72	16.86 3.94 25.80 9.90 2.72
		TOTAL EARNINGS:	272.00	272.00	272.00				
		TOTAL DEDUCTIONS:	59.22	59.22	59.22	<<<	59.22	59.22	59.22
		NET PAY:	212.78	212.78	212.78				
**** GRAND TOTALS ****									
		Comm	1,200.00	3,600.00	14,400.00	FICA W/H	2,654.42	8,081.04	33,692.01
		Regular Py	33,529.94	103,480.87	448,996.27	Medi W/H	620.81	1,889.92	7,879.56
		Mtr Reader	6,781.60	20,400.10	78,083.26	Fed W/H	3,942.14	11,854.57	48,846.60
		Other Wage	932.79	2,615.47	9,508.81	State W/H	1,813.01	5,520.26	22,724.05
		Overtime	4,512.97	12,741.61	41,848.84	Local W/H	309.58	921.21	3,525.83
		Vacation	0.00	0.00	1,173.60	Def Comp	580.00	1,780.00	8,310.00
						Visn/Dent	32.74	98.22	415.35
						401a	1,897.93	5,775.69	23,633.13
						Afl/Health	142.76	369.60	1,070.90
						Richmond	319.98	1,014.44	4,960.47
						STD/Life	128.82	453.30	1,921.65
						Loan	68.20	204.60	1,079.17
						Vision	95.14	281.09	1,210.84
						AFLAC	301.66	904.98	4,519.02
						Health Ins	1,265.68	3,797.04	16,106.75
						Dental	304.08	960.40	4,079.56
						Accidental	41.52	124.56	166.08
						Dental/Vis	169.00	507.00	1,937.13
						Roth 401k	60.00	180.00	1,230.00
						Cancer	36.38	109.14	447.98
						STD	0.00	0.00	16.44
						Acc/Cancer	97.70	293.10	381.30
							5.50	11.45	11.45
						AFLAC/Roth	82.16	246.48	1,068.08
						Acc	16.52	49.56	49.56
						Life	0.00	0.00	20.00
						Health/Den	77.42	232.26	232.26
						Life/Roth	0.00	0.00	468.54
						AFLAC/Acci	0.00	0.00	587.37



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			MTD	QTD	YTD	Description	MTD	QTD	YTD
**** GRAND TOTALS, Continued ****									
		TOTAL EARNINGS:	46,957.30	142,838.05	594,010.78				
		TOTAL DEDUCTIONS:	15,063.15	45,659.91	190,591.08	<<<	15,063.15	45,659.91	190,591.08
		NET PAY:	31,894.15	97,178.14	403,419.70				

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Employ I.D. Dent #	Employ Name Soc-Sec-No	Description	E A R N I N G S			D E D U C T I O N S			
			MTD	QTD	YTD	Description	MTD	QTD	YTD
1002	WALTER L. CORNELISON ***-**-8762	Comm	300.00	300.00	3,000.00	FICA W/H	18.60	18.60	186.00
						Medi W/H	4.35	4.35	43.50
						Fed W/H	60.00	60.00	600.00
						State W/H	20.35	20.35	203.50
						Richmond	6.00	6.00	60.00
		TOTAL EARNINGS:	300.00	300.00	3,000.00				
		TOTAL DEDUCTIONS:	109.30	109.30	1,093.00	<<<	109.30	109.30	1,093.00
		NET PAY:	190.70	190.70	1,907.00				
1003	JAMES R. CARR ***-**-9712	Comm	300.00	300.00	3,000.00	FICA W/H	18.60	18.60	186.00
						Medi W/H	4.35	4.35	43.50
						State W/H	2.35	2.35	23.50
						Richmond	6.00	6.00	60.00
		TOTAL EARNINGS:	300.00	300.00	3,000.00				
		TOTAL DEDUCTIONS:	31.30	31.30	313.00	<<<	31.30	31.30	313.00
		NET PAY:	268.70	268.70	2,687.00				
1005	WANDA PENNINGTON ***-**-0801	Comm	300.00	300.00	3,000.00	FICA W/H	18.60	18.60	186.00
						Medi W/H	4.35	4.35	43.50
						Fed W/H	0.00	0.00	23.76
						State W/H	2.35	2.35	23.50
						Richmond	6.00	6.00	60.00
		TOTAL EARNINGS:	300.00	300.00	3,000.00				
		TOTAL DEDUCTIONS:	31.30	31.30	336.76	<<<	31.30	31.30	336.76
		NET PAY:	268.70	268.70	2,663.24				
1006	MARTIN D. SIZEMORE ***-**-0772	Comm	300.00	300.00	3,000.00	FICA W/H	18.60	18.60	186.00
						Medi W/H	4.35	4.35	43.50
						Richmond	6.00	6.00	60.00
		TOTAL EARNINGS:	300.00	300.00	3,000.00				
		TOTAL DEDUCTIONS:	28.95	28.95	289.50	<<<	28.95	28.95	289.50
		NET PAY:	271.05	271.05	2,710.50				
2001	EDDIE HUNTER ***-**-6692	Salary	2,541.78	2,541.78	27,445.26	FICA W/H	190.83	190.83	1,689.73
		Overtime	0.00	0.00	67.20	Medi W/H	44.63	44.63	395.19
		Mtr Reader	312.20	312.20	3,122.00	Fed W/H	319.50	319.50	3,095.37
		* Other Wage	575.00	575.00	2,915.37	State W/H	141.65	141.65	1,277.05
						Local W/H	26.49	26.49	234.88
						Def Comp	30.00	30.00	505.00
						Dental/Vis	33.18	33.18	362.12
						401a	171.44	171.44	1,537.01
						Afl/Health	146.48	146.48	1,587.10
						Richmond	15.58	15.58	173.41
						STD/Life	75.94	75.94	812.98
						Loan	68.20	68.20	750.20
		TOTAL EARNINGS:	3,428.98	3,428.98	30,740.03				
		TOTAL DEDUCTIONS:	1,263.92	1,263.92	12,420.04	<<<	1,263.92	1,263.92	12,420.04
		NET PAY:	2,165.06	2,165.06	18,319.99				

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			MTD	QTD	YTD	Description	MTD	QTD	YTD
2002	RANDOL BURNS ***-**-6035	Salary Other Wage	2,926.40 625.00	2,926.40 625.00	32,190.40 6,727.16	FICA W/H Medi W/H Fed W/H State W/H Local W/H Def Comp Vision 401a AFLAC Health Ins Dental	197.25 46.13 380.02 175.96 35.51 80.00 18.18 177.57 68.12 57.06 49.10	197.25 46.13 380.02 175.96 35.51 80.00 18.18 177.57 68.12 57.06 49.10	2,162.83 505.81 4,378.95 1,929.10 389.13 880.00 194.39 1,945.87 749.32 603.48 540.10
		TOTAL EARNINGS:	3,551.40	3,551.40	38,917.56				
		TOTAL DEDUCTIONS:	1,284.90	1,284.90	14,278.98	<<<	1,284.90	1,284.90	14,278.98
		NET PAY:	2,266.50	2,266.50	24,638.58				
2003	MATTHEW R. BURNS ***-**-1976	Regular Py Mtr Reader	0.00 396.20	0.00 396.20	1,543.50 3,962.70	FICA W/H Medi W/H State W/H Local W/H	24.56 5.74 10.25 3.96	24.56 5.74 10.25 3.96	341.37 79.84 117.74 55.10
		TOTAL EARNINGS:	396.20	396.20	5,506.20				
		TOTAL DEDUCTIONS:	44.51	44.51	594.05	<<<	44.51	44.51	594.05
		NET PAY:	351.69	351.69	4,912.15				
2004	KARROL L. SWITZER ***-**-2517	Salary	400.00	400.00	4,400.00	FICA W/H Medi W/H State W/H Local W/H	24.80 5.80 4.64 4.00	24.80 5.80 4.64 4.00	272.80 63.80 51.04 44.00
		TOTAL EARNINGS:	400.00	400.00	4,400.00				
		TOTAL DEDUCTIONS:	39.24	39.24	431.64	<<<	39.24	39.24	431.64
		NET PAY:	360.76	360.76	3,968.36				
2005	JEREMY W. POWELL ***-**-4820	Regular Py Overtime Mtr Reader	1,836.80 0.00 0.00	1,836.80 0.00 0.00	20,204.80 921.27 1,596.70	FICA W/H Medi W/H Fed W/H State W/H Local W/H Def Comp Accidental 401a AFLAC Health Ins Dental/Vis	104.46 24.44 151.50 71.48 18.36 40.00 13.84 91.84 26.86 0.00 33.18	104.46 24.44 151.50 71.48 18.36 40.00 13.84 91.84 26.86 0.00 33.18	1,276.06 298.45 1,923.13 851.93 227.16 380.00 152.24 1,136.15 295.46 346.71 362.12
		TOTAL EARNINGS:	1,836.80	1,836.80	22,722.77				
		TOTAL DEDUCTIONS:	575.96	575.96	7,249.41	<<<	575.96	575.96	7,249.41
		NET PAY:	1,260.84	1,260.84	15,473.36				
2006	JARED WEBB ***-**-1922	Salary Overtime Other Wage	2,230.76 0.00 450.00	2,230.76 0.00 450.00	24,249.46 1,739.84 4,650.00	FICA W/H Medi W/H Fed W/H	149.77 35.03 211.51	149.77 35.03 211.51	1,718.72 401.97 2,599.53

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Employ I.D. Dept #	Employ Name Soc-Sec-No	Description	E A R N I N G S			D E D U C T I O N S			
			MTD	QTD	YTD	Description	MTD	QTD	YTD
						State W/H	109.43	109.43	1,262.08
						Local W/H	26.80	26.80	306.34
						Def Comp	90.00	90.00	990.00
						Vision	9.10	9.10	97.24
						401a	134.04	134.04	1,531.99
						Roth 401k	60.00	60.00	660.00
						Health Ins	57.06	57.06	603.48
						Dental	24.08	24.08	264.88
						Cancer	40.80	40.80	420.07
		TOTAL EARNINGS:	2,680.76	2,680.76	30,639.30				
		TOTAL DEDUCTIONS:	947.62	947.62	10,856.30	<<<	947.62	947.62	10,856.30
		NET PAY:	1,733.14	1,733.14	19,783.00				
2008	CHARLES J. HOLLAND ***-**-7853	Salary	2,230.76	2,230.76	23,900.66	FICA W/H	155.21	155.21	1,735.87
		Overtime	0.00	0.00	1,334.16	Medi W/H	36.30	36.30	406.03
		Mtr Reader	301.70	301.70	3,014.90	Fed W/H	313.57	313.57	2,931.79
		Other Wage	300.00	300.00	3,100.00	State W/H	122.84	122.84	1,258.96
						Local W/H	28.32	28.32	313.43
						Def Comp	80.00	80.00	880.00
						401a	141.63	141.63	1,567.53
						AFLAC	74.86	74.86	823.46
						Health Ins	218.40	218.40	2,780.31
						Dental/Vis	112.66	112.66	960.93
		TOTAL EARNINGS:	2,832.46	2,832.46	31,349.72				
		TOTAL DEDUCTIONS:	1,283.79	1,283.79	13,658.31	<<<	1,283.79	1,283.79	13,658.31
		NET PAY:	1,548.67	1,548.67	17,691.41				
2009	JOHN C. CLARK ***-**-9873	Salary	3,615.38	3,615.38	39,769.18	FICA W/H	212.47	212.47	2,301.17
		Other Wage	175.00	175.00	1,650.00	Medi W/H	49.69	49.69	538.22
						Fed W/H	513.03	513.03	3,448.33
						State W/H	174.84	174.84	1,875.72
						Local W/H	37.91	37.91	414.26
						401a	189.51	189.51	2,070.86
						Dental	49.10	49.10	867.52
						Vision	27.18	27.18	290.40
						Acc/Cancer	97.70	97.70	1,074.70
		TOTAL EARNINGS:	3,790.38	3,790.38	41,419.18				
		TOTAL DEDUCTIONS:	1,351.43	1,351.43	12,881.18	<<<	1,351.43	1,351.43	12,881.18
		NET PAY:	2,438.95	2,438.95	28,538.00				
2012	VICTOR L. BARNETT ***-**-2454	Regular Py	0.00	0.00	2,070.00	FICA W/H	0.00	0.00	128.31
						Medi W/H	0.00	0.00	30.00
						State W/H	0.00	0.00	37.14
						Local W/H	0.00	0.00	20.69
		TOTAL EARNINGS:	0.00	0.00	2,070.00				
		TOTAL DEDUCTIONS:	0.00	0.00	216.14	<<<	0.00	0.00	216.14
		NET PAY:	0.00	0.00	1,853.86				
2013	BENJAMIN T. THACKER ***-**-7883	Regular Py	1,652.80	1,652.80	18,180.80	FICA W/H	126.14	126.14	1,395.30

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			MTD	QTD	YTD	Description	MTD	QTD	YTD
		Overtime	0.00	0.00	1,414.38	Medi W/H	29.49	29.49	326.28
	*	Mtr Reader	523.60	523.60	4,789.40	Fed W/H	210.32	210.32	2,414.14
		Other Wage	0.00	0.00	50.00	State W/H	77.47	77.47	871.41
						Local W/H	21.76	21.76	244.28
						Def Comp	80.00	80.00	880.00
						Health Ins	0.00	0.00	346.71
						401a	108.82	108.82	1,221.76
						Vision	9.10	9.10	97.24
						Dental	24.08	24.08	264.88
						Accidental	13.84	13.84	152.24
						Loan	42.56	42.56	63.84
		TOTAL EARNINGS:	2,176.40	2,176.40	24,434.58				
		TOTAL DEDUCTIONS:	743.58	743.58	8,278.08	<<<	743.58	743.58	8,278.08
		NET PAY:	1,432.82	1,432.82	16,156.50				
2016	ROBERT THOMPSON								
	***-**-4004	Regular Py	1,560.00	1,560.00	16,980.00	FICA W/H	126.41	126.41	1,215.70
		Overtime	0.00	0.00	29.26	Medi W/H	29.57	29.57	284.27
	*	Mtr Reader	261.10	261.10	2,930.90	Fed W/H	59.83	59.83	560.21
		Other Wage	325.00	325.00	700.00	State W/H	83.80	83.80	764.48
						Local W/H	21.46	21.46	206.39
						401a	107.31	107.31	1,032.02
		TOTAL EARNINGS:	2,146.10	2,146.10	20,640.16				
		TOTAL DEDUCTIONS:	428.38	428.38	4,063.07	<<<	428.38	428.38	4,063.07
		NET PAY:	1,717.72	1,717.72	16,577.09				
2018	CHRISTOPHER K. MIZE								
	***-**-6306	Mtr Reader	0.00	0.00	2,566.20	FICA W/H	0.00	0.00	159.10
	*					Medi W/H	0.00	0.00	37.21
						State W/H	0.00	0.00	49.12
						Local W/H	0.00	0.00	25.67
		TOTAL EARNINGS:	0.00	0.00	2,566.20				
		TOTAL DEDUCTIONS:	0.00	0.00	271.10	<<<	0.00	0.00	271.10
		NET PAY:	0.00	0.00	2,295.10				
2022	WILLIAM E. RENZENBRINK								
	***-**-6046	Mtr Reader	397.60	397.60	4,007.50	FICA W/H	24.65	24.65	248.47
	*					Medi W/H	5.77	5.77	58.14
						Fed W/H	12.14	12.14	177.65
						State W/H	11.10	11.10	112.81
						Local W/H	3.98	3.98	40.09
		TOTAL EARNINGS:	397.60	397.60	4,007.50				
		TOTAL DEDUCTIONS:	57.64	57.64	637.16	<<<	57.64	57.64	637.16
		NET PAY:	339.96	339.96	3,370.34				
2029	CHRIS MCMULLIN								
	***-**-4238	Mtr Reader	1,045.10	1,045.10	10,494.40	FICA W/H	64.80	64.80	650.66
	*					Medi W/H	15.15	15.15	152.15
						Fed W/H	88.09	88.09	939.71
						State W/H	47.88	47.88	481.34
						Local W/H	10.45	10.45	104.94
		TOTAL EARNINGS:	1,045.10	1,045.10	10,494.40				
		TOTAL DEDUCTIONS:	226.37	226.37	2,328.80	<<<	226.37	226.37	2,328.80

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		MTD	QTD	YTD	Description	MTD	QTD	YTD
NET PAY:		818.73	818.73	8,165.60				
2033	GEORGE G. NEWLAND ***-**-6200 Mtr Reader	841.40	841.40	8,382.50	FICA W/H	52.17	52.17	519.73
					Medi W/H	12.20	12.20	121.55
					Fed W/H	9.53	9.53	181.55
					State W/H	36.07	36.07	358.85
					Local W/H	8.41	8.41	83.82
	TOTAL EARNINGS:	841.40	841.40	8,382.50				
	TOTAL DEDUCTIONS:	118.38	118.38	1,265.50	<<<	118.38	118.38	1,265.50
	NET PAY:	723.02	723.02	7,117.00				
2034	BERTHA L. NEWTON ***-**-8661 Mtr Reader	469.00	469.00	6,005.30	FICA W/H	29.08	29.08	372.34
					Medi W/H	6.80	6.80	87.06
					Fed W/H	0.00	0.00	156.55
					State W/H	15.24	15.24	228.68
					Local W/H	4.69	4.69	60.06
	TOTAL EARNINGS:	469.00	469.00	6,005.30				
	TOTAL DEDUCTIONS:	55.81	55.81	904.69	<<<	55.81	55.81	904.69
	NET PAY:	413.19	413.19	5,100.61				
2035	MICHAEL G. BURNS ***-**-1951 Mtr Reader	782.60	782.60	7,831.60	FICA W/H	48.52	48.52	485.55
					Medi W/H	11.35	11.35	113.58
					Fed W/H	69.77	69.77	750.84
					State W/H	33.43	33.43	334.62
					Local W/H	7.83	7.83	78.33
	TOTAL EARNINGS:	782.60	782.60	7,831.60				
	TOTAL DEDUCTIONS:	170.90	170.90	1,762.92	<<<	170.90	170.90	1,762.92
	NET PAY:	611.70	611.70	6,068.68				
2036	TRUETT G. RICKS ***-**-5716 Mtr Reader	233.10	233.10	2,317.00	FICA W/H	14.45	14.45	143.65
					Medi W/H	3.38	3.38	33.60
					State W/H	2.54	2.54	25.01
					Local W/H	2.33	2.33	23.16
	TOTAL EARNINGS:	233.10	233.10	2,317.00				
	TOTAL DEDUCTIONS:	22.70	22.70	225.42	<<<	22.70	22.70	225.42
	NET PAY:	210.40	210.40	2,091.58				
2051	DONALD BURNS ***-**-1224 Mtr Reader	77.00	77.00	653.80	FICA W/H	4.77	4.77	40.53
					Medi W/H	1.12	1.12	9.50
					State W/H	0.00	0.00	0.12
					Local W/H	0.77	0.77	6.54
	TOTAL EARNINGS:	77.00	77.00	653.80				
	TOTAL DEDUCTIONS:	6.66	6.66	56.69	<<<	6.66	6.66	56.69
	NET PAY:	70.34	70.34	597.11				
2052	CURTIS T. SIZMORE ***-**-9643 Mtr Reader	325.50	325.50	1,310.40	FICA W/H	20.18	20.18	81.25
					Medi W/H	4.72	4.72	19.01
					State W/H	6.68	6.68	27.13

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Employ I.D. Dept #	Employ Name Soc-Sec-No	Description	E A R N I N G S			D E D U C T I O N S			
			MTD	QTD	YTD	Description	MTD	QTD	YTD
						Local W/H	3.26	3.26	13.11
		TOTAL EARNINGS:	325.50	325.50	1,310.40				
		TOTAL DEDUCTIONS:	34.84	34.84	140.50	<<<	34.84	34.84	140.50
		NET PAY:	290.66	290.66	1,169.90				
2508	CLIFTON D. WILLOUGHBY ***-**-5088	Mtr Reader	151.20	151.20	1,979.60	FICA W/H	9.37	9.37	122.73
						Medi W/H	2.19	2.19	28.69
						State W/H	0.00	0.00	38.80
						Local W/H	1.51	1.51	19.80
		TOTAL EARNINGS:	151.20	151.20	1,979.60				
		TOTAL DEDUCTIONS:	13.07	13.07	210.02	<<<	13.07	13.07	210.02
		NET PAY:	138.13	138.13	1,769.58				
2509	CLINT W. OSBORNE ***-**-9229	Mtr Reader	324.80	324.80	649.60	FICA W/H	20.14	20.14	40.28
						Medi W/H	4.71	4.71	9.42
						State W/H	7.41	7.41	14.82
						Local W/H	3.25	3.25	6.50
		TOTAL EARNINGS:	324.80	324.80	649.60				
		TOTAL DEDUCTIONS:	35.51	35.51	71.02	<<<	35.51	35.51	71.02
		NET PAY:	289.29	289.29	578.58				
3002	MITZI L. TUSSEY ***-**-0379	Regular Py Overtime	1,955.20 0.00	1,955.20 0.00	21,507.20 151.23	FICA W/H	109.56	109.56	1,215.76
						Medi W/H	25.62	25.62	284.29
						Fed W/H	209.84	209.84	2,455.89
						State W/H	78.58	78.58	874.27
						AFLAC/Roth	82.16	82.16	903.76
						Vision	9.10	9.10	97.24
						401a	97.76	97.76	1,082.92
						Richmond	39.10	39.10	433.13
						Dental	24.08	24.08	264.88
						Health Ins	57.06	57.06	603.48
		TOTAL EARNINGS:	1,955.20	1,955.20	21,658.43				
		TOTAL DEDUCTIONS:	732.86	732.86	8,215.62	<<<	732.86	732.86	8,215.62
		NET PAY:	1,222.34	1,222.34	13,442.81				
3004	ALICE C. EDWARDS ***-**-7292	Regular Py	1,349.25	1,349.25	13,991.53	FICA W/H	82.00	82.00	849.27
						Medi W/H	19.18	19.18	198.65
						Fed W/H	143.15	143.15	1,569.12
						State W/H	52.78	52.78	531.31
						AFLAC	26.68	26.68	293.48
						Richmond	26.98	26.98	279.84
						Acc	16.52	16.52	181.72
		TOTAL EARNINGS:	1,349.25	1,349.25	13,991.53				
		TOTAL DEDUCTIONS:	367.29	367.29	3,903.39	<<<	367.29	367.29	3,903.39
		NET PAY:	981.96	981.96	10,088.14				
3005	REBECCA E. TURPIN ***-**-9350	Regular Py	2,260.80	2,260.80	24,868.80	FICA W/H	131.10	131.10	1,454.19

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Employ I.D. Dept #	Employ Name Soc-Sec-No	Description	E A R N I N G S			D E D U C T I O N S			
			MTD	QTD	YTD	Description	MTD	QTD	YTD
		Overtime	0.00	0.00	567.10	Medi W/H	30.66	30.66	340.11
						Fed W/H	93.00	93.00	1,267.58
						State W/H	95.24	95.24	1,058.97
						Def Comp	60.00	60.00	660.00
						Vision	9.10	9.10	97.24
						401a	113.04	113.04	1,271.81
						Richmond	45.22	45.22	508.75
						Dental	24.08	24.08	264.88
						Health Ins	0.00	0.00	346.71
		TOTAL EARNINGS:	2,260.80	2,260.80	25,435.90				
		TOTAL DEDUCTIONS:	601.44	601.44	7,270.24	<<<	601.44	601.44	7,270.24
		NET PAY:	1,659.36	1,659.36	18,165.66				
3006	JANET L. YORK ***-**-8892	Regular Py	1,987.20	1,987.20	21,859.20	FICA W/H	85.86	85.86	982.63
		Overtime	0.00	0.00	367.96	Medi W/H	20.08	20.08	229.83
						Fed W/H	14.34	14.34	427.87
						State W/H	54.66	54.66	636.89
						Def Comp	30.00	30.00	330.00
						Dental	49.10	49.10	540.10
						401a	99.36	99.36	1,111.36
						AFLAC	105.14	105.14	1,156.54
						Richmond	39.74	39.74	444.51
						Health Ins	348.74	348.74	3,570.55
		TOTAL EARNINGS:	1,987.20	1,987.20	22,227.16				
		TOTAL DEDUCTIONS:	847.02	847.02	9,430.28	<<<	847.02	847.02	9,430.28
		NET PAY:	1,140.18	1,140.18	12,796.88				
3007	CHARLOTTE F. HILL ***-**-1330	Regular Py	1,564.80	1,564.80	17,212.80	FICA W/H	66.38	66.38	765.74
		Overtime	0.00	0.00	319.08	Medi W/H	15.52	15.52	179.04
						Fed W/H	0.00	0.00	204.20
						State W/H	38.16	38.16	453.09
						Accidental	13.84	13.84	152.24
						Health Ins	348.74	348.74	3,570.55
						401a	78.24	78.24	876.59
						Dental/Vis	67.28	67.28	734.49
						Richmond	31.30	31.30	350.68
						STD/Life	56.32	56.32	619.52
		TOTAL EARNINGS:	1,564.80	1,564.80	17,531.88				
		TOTAL DEDUCTIONS:	715.78	715.78	7,906.14	<<<	715.78	715.78	7,906.14
		NET PAY:	849.02	849.02	9,625.74				
3009	TAMARA S. WEBB ***-**-6055	Regular Py	1,564.80	1,564.80	17,212.80	FICA W/H	135.23	135.23	1,488.64
		Overtime	0.00	0.00	370.44	Medi W/H	31.62	31.62	348.11
		Mtr Reader	826.00	826.00	8,707.30	Fed W/H	179.81	179.81	2,202.59
						State W/H	88.87	88.87	990.66
						Local W/H	8.26	8.26	87.08
						Def Comp	30.00	30.00	330.00
						Vision	9.10	9.10	97.24
						401a	119.54	119.54	1,314.54
						Richmond	31.30	31.30	351.71
						Dental	24.08	24.08	264.88





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Employ I.D. Dept #	Employ Name Soc-Sec-No	Description	E A R N I N G S			D E D U C T I O N S			
			MTD	QTD	YTD	Description	MTD	QTD	YTD
						Health Ins	57.06	57.06	603.48
		TOTAL EARNINGS:	2,390.80	2,390.80	26,290.54				
		TOTAL DEDUCTIONS:	714.87	714.87	8,078.93	<<<	714.87	714.87	8,078.93
		NET PAY:	1,675.93	1,675.93	18,211.61				
3010	RHONDA G. BARCENAS ***-**-5518	Regular Py Overtime	1,400.00 0.00	1,400.00 0.00	15,220.00 286.29	FICA W/H Medi W/H Fed W/H State W/H Health/Den 401a Richmond Vision Cancer	75.10 17.56 86.44 46.32 81.14 84.00 28.00 9.10 14.58	75.10 17.56 86.44 46.32 81.14 84.00 28.00 9.10 14.58	839.82 196.42 1,106.11 522.43 868.36 930.37 310.12 97.24 65.61
		TOTAL EARNINGS:	1,400.00	1,400.00	15,506.29				
		TOTAL DEDUCTIONS:	442.24	442.24	4,936.48	<<<	442.24	442.24	4,936.48
		NET PAY:	957.76	957.76	10,569.81				
3012	JEANNE K. MICHAELS ***-**-9488	Regular Py	1,079.50	1,079.50	11,680.10	FICA W/H Medi W/H Fed W/H State W/H 401a Richmond	63.58 14.87 19.24 34.02 53.98 21.59	63.58 14.87 19.24 34.02 53.98 21.59	687.95 160.89 323.59 363.49 584.06 233.60
		TOTAL EARNINGS:	1,079.50	1,079.50	11,680.10				
		TOTAL DEDUCTIONS:	207.28	207.28	2,353.58	<<<	207.28	207.28	2,353.58
		NET PAY:	872.22	872.22	9,326.52				
3013	RYAN N. NOLAND ***-**-8495	Regular Py Overtime	0.00 0.00	0.00 0.00	10,712.70 239.06	FICA W/H Medi W/H Fed W/H State W/H 401a Richmond	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	642.79 150.35 915.25 409.97 583.98 219.03
		TOTAL EARNINGS:	0.00	0.00	10,951.76				
		TOTAL DEDUCTIONS:	0.00	0.00	2,921.37	<<<	0.00	0.00	2,921.37
		NET PAY:	0.00	0.00	8,030.39				
3014	HOLLY R. BURNS ***-**-4989	Regular Py	1,440.00	1,440.00	4,898.25	FICA W/H Medi W/H State W/H 401a Richmond Dental/Vis	82.48 19.28 44.00 86.40 28.80 23.38	82.48 19.28 44.00 86.40 28.80 23.38	281.14 65.72 146.95 293.90 97.97 70.14
		TOTAL EARNINGS:	1,440.00	1,440.00	4,898.25				
		TOTAL DEDUCTIONS:	284.34	284.34	955.82	<<<	284.34	284.34	955.82
		NET PAY:	1,155.66	1,155.66	3,942.43				

\*\*\*\* GRAND TOTALS \*\*\*\*

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**MADISON COUNTY UTILITIES DISTRICT**  
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Employ I.D. Dept #	Employ Name Soc-Sec-No	Description	E A R N I N G S			D E D U C T I O N S			
			MTD	QTD	YTD	Description	MTD	QTD	YTD
		Comm	1,200.00	1,200.00	12,000.00	FICA W/H	2,505.72	2,505.72	27,054.08
		Salary	13,945.08	13,945.08	151,954.96	Medi W/H	586.00	586.00	6,327.18
		Overtime	0.00	0.00	7,807.27	Fed W/H	3,144.63	3,144.63	34,653.71
		* Mtr Reader	7,268.10	7,268.10	71,512.00	State W/H	1,690.39	1,690.39	18,206.48
		Other Wage	2,450.00	2,450.00	19,792.53	Richmond	331.61	331.61	3,642.75
		Regular Py	19,651.15	19,651.15	218,142.48	Local W/H	279.31	279.31	3,004.76
						Def Comp	520.00	520.00	5,835.00
						Dental/Vis	269.68	269.68	2,489.80
						401a	1,854.48	1,854.48	20,092.72
						Afl/Health	146.48	146.48	1,587.10
						STD/Life	132.26	132.26	1,432.50
						Loan	110.76	110.76	814.04
						Vision	99.96	99.96	1,068.23
						AFLAC	301.66	301.66	3,318.26
						Health Ins	1,144.12	1,144.12	13,375.46
						Dental	267.70	267.70	3,272.12
						Accidental	41.52	41.52	456.72
						Roth 401k	60.00	60.00	660.00
						Cancer	55.38	55.38	485.68
						Acc/Cancer	97.70	97.70	1,074.70
						AFLAC/Roth	82.16	82.16	903.76
						Acc	16.52	16.52	181.72
						Health/Den	81.14	81.14	868.36
		TOTAL EARNINGS:	44,514.33	44,514.33	481,209.24				
		TOTAL DEDUCTIONS:	13,819.18	13,819.18	150,805.13	<<<	13,819.18	13,819.18	150,805.13
		NET PAY:	30,695.15	30,695.15	330,404.11				

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Payroll Check Register  
Check Date: 11/02/09  
Pay Periods: WBSM

Period Begin: 10/24/09

Period End: 11/02/09

Check #	Employee I.D. Employee Name	Date	Dept # Soc-Sec-No.	EARNINGS				DEDUCTIONS		
				Description	Hours	Pieces	Rate	Amount	Description	Amount
1864	2001 EDDIE HUNTER *	11/02/09	***-**-6692	Mtr Reader	0.00 0.00	0.00 0.00	0.00	311.50 311.50	FICA W/H Medi W/H Fed W/H State W/H 401a	18.35 4.29 1.98 5.97 15.58
TOTAL EARNINGS:								311.50		
TOTAL DEDUCTIONS:								46.17	<<<	46.17
NET PAY:								265.33	**	
1865	2003 MATTHEW R. BURNS *	11/02/09	***-**-1976	Mtr Reader	0.00 0.00	0.00 0.00	0.00	396.90 396.90	FICA W/H Medi W/H State W/H Local W/H	24.61 5.76 10.29 3.97
TOTAL EARNINGS:								396.90		
TOTAL DEDUCTIONS:								44.63	<<<	44.63
NET PAY:								352.27	**	
1866	2008 CHARLES J. HOLLAND	11/02/09	***-**-7853	Mtr Reader	0.00 0.00	0.00 0.00	0.00	301.00 301.00	FICA W/H Medi W/H Fed W/H State W/H Local W/H 401a	17.73 4.15 40.98 15.47 3.01 15.05
TOTAL EARNINGS:								301.00		
TOTAL DEDUCTIONS:								96.39	<<<	96.39
NET PAY:								204.61	**	
1867	2013 BENJAMIN T. THACKER	11/02/09	***-**-7883	Mtr Reader	0.00 0.00	0.00 0.00	0.00	517.30 517.30	FICA W/H Medi W/H Fed W/H State W/H Local W/H 401a	30.47 7.13 46.10 16.54 5.17 25.87
TOTAL EARNINGS:								517.30		
TOTAL DEDUCTIONS:								131.28	<<<	131.28
NET PAY:								386.02	**	
1868	2016 ROBERT THOMPSON	11/02/09	***-**-4004	Mtr Reader	0.00 0.00	0.00 0.00	0.00	261.10 261.10	FICA W/H Medi W/H State W/H Local W/H 401a	15.38 3.60 3.86 2.61 13.06
TOTAL EARNINGS:								261.10		
TOTAL DEDUCTIONS:								38.51	<<<	38.51
NET PAY:								222.59	**	

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Payroll Check Register  
Check Date: 11/02/09  
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Period Begin: 10/24/09

Period End: 11/02/09

Check #	Employee I.D. Employee Name	Date	Dept # Soc-Sec-No.	EARNINGS				DEDUCTIONS		
				Description	Hours	Pieces	Rate	Amount	Description	Amount
1869	2022 WILLIAM E. RENZENBRIN	11/02/09	***-**-6046	Mtr Reader	0.00	0.00	0.00	385.70	FICA W/H	23.91
					0.00	0.00		385.70	Medi W/H	5.59
									Fed W/H	10.95
									State W/H	10.46
									Local W/H	3.86
				TOTAL EARNINGS:				385.70		
				TOTAL DEDUCTIONS:				54.77	<<<	54.77
				NET PAY:				330.93	**	
1870	2029 CHRIS MCMULLIN	11/02/09	***-**-4238	Mtr Reader	0.00	0.00	0.00	1,060.50	FICA W/H	65.75
					0.00	0.00		1,060.50	Medi W/H	15.38
									Fed W/H	90.40
									State W/H	48.78
									Local W/H	10.61
				TOTAL EARNINGS:				1,060.50		
				TOTAL DEDUCTIONS:				230.92	<<<	230.92
				NET PAY:				829.58	**	
1871	2033 GEORGE G. NEWLAND	11/02/09	***-**-6200	Mtr Reader	0.00	0.00	0.00	840.70	FICA W/H	52.12
					0.00	0.00		840.70	Medi W/H	12.19
									Fed W/H	9.46
									State W/H	36.03
									Local W/H	8.41
				TOTAL EARNINGS:				840.70		
				TOTAL DEDUCTIONS:				118.21	<<<	118.21
				NET PAY:				722.49	**	
1872	2034 BERTHA L. NEWTON	11/02/09	***-**-8661	Mtr Reader	0.00	0.00	0.00	466.20	FICA W/H	28.90
					0.00	0.00		466.20	Medi W/H	6.76
									State W/H	15.08
									Local W/H	4.66
				TOTAL EARNINGS:				466.20		
				TOTAL DEDUCTIONS:				55.40	<<<	55.40
				NET PAY:				410.80	**	
1873	2035 MICHAEL G. BURNS	11/02/09	***-**-1951	Mtr Reader	0.00	0.00	0.00	779.80	FICA W/H	48.35
					0.00	0.00		779.80	Medi W/H	11.31
									Fed W/H	69.35
									State W/H	33.27
									Local W/H	7.80
				TOTAL EARNINGS:				779.80		
				TOTAL DEDUCTIONS:				170.08	<<<	170.08
				NET PAY:				609.72	**	

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Check Date: 11/02/09  
Pay Periods: WBSM

Period Begin: 10/24/09

Period End: 11/02/09

Check #	Employee I.D. Employee Name	Date	Dept # Soc-Sec-No.	Description	EARNINGS			DEDUCTIONS		
					Hours	Pieces	Rate	Amount	Description	Amount
1874	2036 TRUETT G. RICKS	11/02/09	***-**-5716	Mtr Reader	0.00	0.00	0.00	235.20	FICA W/H	14.58
					0.00	0.00		235.20	Medi W/H	3.41
									State W/H	2.61
									Local W/H	2.35
				TOTAL EARNINGS:				235.20		
				TOTAL DEDUCTIONS:				22.95	<<<	22.95
				NET PAY:				212.25	**	
1875	2051 DONALD BURNS	11/02/09	***-**-1224	Mtr Reader	0.00	0.00	0.00	75.60	FICA W/H	4.69
					0.00	0.00		75.60	Medi W/H	1.10
									Local W/H	0.76
				TOTAL EARNINGS:				75.60		
				TOTAL DEDUCTIONS:				6.55	<<<	6.55
				NET PAY:				69.05	**	
1876	2052 CURTIS T. SIZMORE	11/02/09	***-**-9643	Mtr Reader	0.00	0.00	0.00	335.30	FICA W/H	20.79
					0.00	0.00		335.30	Medi W/H	4.86
									State W/H	7.17
									Local W/H	3.35
				TOTAL EARNINGS:				335.30		
				TOTAL DEDUCTIONS:				36.17	<<<	36.17
				NET PAY:				299.13	**	
1877	2508 CLIFTON D. WILLOUGHBY	11/02/09	***-**-5088	Mtr Reader	0.00	0.00	0.00	155.40	FICA W/H	9.63
					0.00	0.00		155.40	Medi W/H	2.25
									Local W/H	1.55
				TOTAL EARNINGS:				155.40		
				TOTAL DEDUCTIONS:				13.43	<<<	13.43
				NET PAY:				141.97	**	
1878	2509 CLINT W. OSBORNE	11/02/09	***-**-9229	Mtr Reader	0.00	0.00	0.00	313.60	FICA W/H	19.44
					0.00	0.00		313.60	Medi W/H	4.55
									State W/H	6.85
									Local W/H	3.14
				TOTAL EARNINGS:				313.60		
				TOTAL DEDUCTIONS:				33.98	<<<	33.98
				NET PAY:				279.62	**	
1879	3009 TAMARA S WEBB	11/02/09	***-**-6055	Mtr Reader	0.00	0.00	0.00	827.40	FICA W/H	48.73
					0.00	0.00		827.40	Medi W/H	11.40
									Fed W/H	70.29
									State W/H	33.63
									Local W/H	8.27
									401a	41.37

11/3/2009  
09:23

**MADISON COUNTY UTILITIES DISTRICT**  
Payroll Check Register  
Check Date: 11/02/09  
Pay Periods: WBSM

Company: MCU  
Page: 4

Period Begin: 10/24/09

Period End: 11/02/09

Check #	Employee I.D. Employee Name	Date	Dept # Soc-Sec-No.	EARNINGS				DEDUCTIONS		
				Description	Hours	Pieces	Rate	Amount	Description	Amount
				TOTAL EARNINGS:				827.40		
				TOTAL DEDUCTIONS:				213.69	<<<	213.69
				NET PAY:				613.71	**	
**** GRAND TOTALS ****				Mtr Reader	0.00	0.00		7,263.20	FICA W/H	443.43
					0.00	0.00		7,263.20	Medi W/H	103.73
									Fed W/H	339.51
									State W/H	246.01
									401a	110.93
									Local W/H	69.52
				TOTAL EARNINGS:				7,263.20		
				TOTAL DEDUCTIONS:				1,313.13	<<<	1,313.13
				NET PAY:				5,950.07	**	

Listed Employees: 16

*Wt n, i, c, a, d, u, s*

11/3/2009  
09:23

**MADISON COUNTY UTILITIES DISTRICT**

Company: MCU  
Page: 5

Payroll Check Register

Check Date: 11/02/09

Period Begin: 10/24/09

Pay Periods: WBSM

Period End: 11/02/09

						E A R N I N G S				T A X E S			
						CUR	MTD	QTD	YTD	CUR	MTD	QTD	YTD
Federal Payroll Tax Requirements													
Empl FICA	R:	6.20%	7,152.27	7,152.27	47,566.70	443,509.39	443.43	443.43	2,949.15	27,497.51			
Empl Medi	R:	1.45%	7,152.27	7,152.27	47,566.70	443,509.39	103.73	103.73	689.73	6,430.91			
Emplr FICA	R:	6.20%	7,152.27	7,152.27	47,566.70	443,509.39	443.43	443.43	2,949.15	27,497.51			
Emplr Medi	R:	1.45%	7,152.27	7,152.27	47,566.70	443,509.39	103.73	103.73	689.73	6,430.91			
Federal Withholding			7,152.27	7,152.27	46,828.30	434,894.08	339.51	339.51	3,484.14	34,993.22			
Total Federal Payroll Tax Requirements							1,433.83	1,433.83	10,761.90	102,850.06			
Tax Requirements													
FUTA	R:	0.80%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
SUTA - KY	R:	1.40%	2,532.30	2,532.30	7,988.20	198,727.75	35.45	35.45	111.83	2,782.19			
State W/H - KY			7,152.27	7,152.27	46,828.30	434,894.08	246.01	246.01	1,936.40	18,452.49			
Local W/H - MAD			6,951.70	6,951.70	35,352.28	314,384.20	69.52	69.52	348.83	3,074.28			
Other W/H - RI			311.50	311.50	19,542.03	204,516.07	0.00	0.00	331.61	3,642.75			

Case No. 2009-00272

Refer to Appendix of an Order dated October 19, 2009

Madison County Utilities District

### **Item 7**

Approximately 300 of the existing 2,940 meters in the service area under review are fully depreciated. All 2,940 meters will be held for six months in accordance with current regulations at our on-site facility. The only “recovery of undepreciated meter investment” will occur when the meters are sold for scrap metal at whatever the prevailing market price is at that time. The accounting treatment of the transactions will most likely create a non-operating accounting loss to be titled something along the lines of “Loss on disposal/removal of old/obsolete meters”. The loss will be the difference between what the meters are sold for less the book value (remaining basis).



Case No. 2009-00272

Refer to Appendix of an Order dated October 19, 2009

Madison County Utilities District

### **Item 10**

TOTAL ESTIMATED CAPITALIZED COST: \$476,160.00

(\$440,000 + \$29,400 + \$6,760 = \$476,160)

The initial cost of materials including the radio-read meters and the hardware and software to operate the system is \$440,000 (See copy of quote sheet from vendor). The labor and other costs to remove the old, existing meters and replace them with the new radio-read meters are based on the following assumptions:

1. The 2,940 meters to be replaced in this initial phase should take an average of 30 minutes per meter according to Madison District manager John Clark, based on his experience and the various locations of the meters. The meters located in high-density residential areas should take less time, while the meters farther out in the county separated by larger tracts of land should take longer.
2. Based on this assumption, 1470 hours of labor will be needed to complete all 2,940 meters. The labor cost per hour is calculated at an average of \$20 per hour, which includes hourly wage, employer payroll taxes, employer retirement contribution and employer-paid health insurance.
3. Therefore, capitalized labor costs are estimated to be \$29,400. NOTE: Madison District believes it can accomplish this phase of the meter upgrade program with existing personnel, without hiring additional staff and without having overtime hours to pay to current personnel. Madison District estimates it will take six months to change out all 2,940 meters. Therefore, no ADDITIONAL LABOR COSTS are anticipated in order to complete the job. The only difference will be in how payroll costs are treated in the accounting records as the estimated \$29,400 will be capitalized into the meter asset account.
4. Other, more minor costs would include the truck(s) fuel expense in driving throughout the service area to change out meters. Total estimated cost is \$6,760 based Manager Clark's belief of 20 gallons of fuel per day for 130 working days (six months) at \$2.60 per gallon. Some days two trucks would be able to be used, but many times only one truck would be working on the change-out program while the other trucks would be used to maintain and operate the rest of the waterworks system.
5. The costs of the required annual customer premise meter inspections are estimated at \$5,800. This consists of six employees working 40 hours each for one week at an average labor cost of \$20 per hour for a total of \$4800, plus \$1000 for three trucks' fuel in driving throughout the service area. NOTE: Again, Madison District anticipates that current employees can perform the annual meter inspections as part of their regular duties.

Case No. 2009-00272

Refer to Appendix of an Order dated October 19, 2009

Madison County Utilities District

**Item 15**

See the attached work papers, schedules and worksheets.

Two changes need to be made to the original response to the Commission's July 27, 2009 deficiency letter.

One, the estimated capitalized cost is now \$476,160 (See Item 10 of this response letter). Therefore, annual depreciation expense on the first phase would be \$23,808.

Two, the decrease in annual depreciation expense due to the removal of the existing meters that have not been fully depreciated would be \$5,280 (instead of the \$25,000-\$35,000 initially referenced which included the cost of the ENTIRE meter setting, box, lid, etc when only the meter itself is being replaced). However, since the entire unrecovered remaining book basis of the old meters will be deducted in the year of disposition, this is for pro forma purposes only.

**THE C.I. THORNBURG CO.,INC.**  
**PO BOX 2163**  
**4034 ALTIZER AVENUE**  
**HUNTINGTON, WV 25705**  
**304-523-3484 Fax 304-523-0510**

**\*\*\*\* Invoice \*\*\*\***

INVOICE DATE	INVOICE NUMBER
06/18/09	S1436479.1
REMIT TO: THE C.I. THORNBURG CO., INC. P.O. BOX 2163 HUNTINGTON, WV 25722-2163	PAGE NO.
	1

BILL TO:

MADISON COUNTY UTILITIES DISTRICT  
 297 MICHELLE DRIVE  
 P O BOX 670  
 RICHMOND, KY 40475

SHIP TO:

MADISON COUNTY UTILITIES DISTRICT  
 297 MICHELLE DRIVE  
 P O BOX 670  
 RICHMOND, KY 40475

CUSTOMER NUMBER	CUSTOMER ORDER NUMBER	CUSTOMER JOB NUMBER	WHSE	SALESPERSON	TERMS: DUE DATE AND CASH DISCOUNT IF APPLICABLE ARE LISTED BELOW.	
5307	670		2	SHISTA		
SALES TICKET NUMBER	SHIP VIA		DATE SHIPPED	ORDER DATE	1 1/2% FINANCE CHARGE ADDED ON PAST DUE ACCOUNTS.	
S1436479.1	FEDEX FREIGHT		06/18/09	06/03/09		
DESCRIPTION		ORDER QTY	SHIP QTY	UM	NET UNIT PRICE	NET AMOUNT
5/8"x3/4" SENSUS PMM WATER METER CUBIC FT READ, PL BNT/LID, BRZ/BTM		200	200	ea	34.500	6900.00

**RECEIVED** *6.24.09*  
 Signature: *[Signature]*  
 Check #: \_\_\_\_\_  
 P# \_\_\_\_\_

<b>SUBTOTAL</b>	6900.00
<b>FREIGHT</b>	0.00
<b>SALES TAX</b>	0.00
<b>AMT DUE</b>	6900.00

PAYMENT TERMS: NET 30 DAYS. PAST DUE ACCOUNTS SUBJECT TO 1 1/2% FINANCE CHARGE  
 PER MONTH. ANNUAL PERCENTAGE RATE 18%.  
 NO RETURNS ALLOWED WITHOUT PROPER WRITTEN AUTHORIZATION. RETURN MATERIAL SUBJECT TO RESTOCKING,  
 HANDLING AND FREIGHT CHARGES.  
 WARRANTIES: LIMITED TO THOSE PROVIDED BY MANUFACTURER.



FERGUSON WATERWORKS #1494  
 611 S KEENELAND DRIVE  
 RICHMOND, KY 40475-3235

B

Deliver To:  
 From: Lucas Darby  
 Comments:

11:58:59 JUL 08 2009

FERGUSON ENTERPRISES, INC.  
 FERGUSON WATERWORKS #1491  
 Price Quotation  
 Phone : 859-624-2800  
 Fax : 859-623-4658

Page # 1

**Bid No.....:** B111965

**Bid Date.....:** 02/05/09

**Quoted By.:** RDM

**Cust Phone:** 859-624-1735

**Terms.....:** NET 10TH PROX

**Customer:** COUNTY OF MADISON  
 MADISON COUNTY UTILITY DIST  
 PO BOX 670  
 RICHMOND, KY 40476-0670

**Ship To:** COUNTY OF MADISON  
 MADISON COUNTY UTILITY DIST  
 PO BOX 670  
 RICHMOND, KY 40476-0670

**Cust PO#...:**

**Job Name:** AMR METER BID

Item	Description	Quantity	Net Price	UM	Total
	*** AMR COMPONENTS *** THE FOLLOWING INCLUDE THE HARDWARE AND SOFTWARE ----				
SP-FC2SR	FC200SUPER RAPTOR RADIO TRAN & LINK FC200, SUPER RAPTOR RADIO TRANSCEIVER & ENDPOINT LINK. SUPPLIED W/ STANDARD KEYBOARD OVERLAY, TOUCH SCREEN STYLUS, A GETTING STARTED USERS GUIDE, POWER SUPPLY, SERIAL & USB COMMUNICATION CABLES. \$34.00 MONTHLY MAINTANCE FEE. ---- ----	1	4458.200	EA	4458.20
SP-OEM-0065-004-R	DESK DOCK DESK DOCK, SINGLE, USB & SERIAL COMMUNICATIONS AND USERS GUIDE. \$1.95 MONTHLY MAINTANENCE FEE. ---- ----	1	197.450	EA	197.45



FERGUSON ENTERPRISES, INC.  
 FERGUSON WATERWORKS #1491

Price Quotation

Page # 2

11:58:59 JUL 08 2009

Phone : 859-624-2800

Fax : 859-623-4658

Reference No: B111965

Item	Description	Quantity	Net Price	UM	Total
SP-MVRS	MV-RS SOFTWARE - WINDOWS VERSION MV-RS SOFTWARE - WINDOWS VERSION (10,001 - 25,000 METERS) \$167.00 MONTHLY MAINTANENCE FEE. ---- ----	1	3388.150	EA	3388.15
SP-MC3XR	MOBILE COLLECTION SYSTEM WITH MAPPING SOLUTION, INCLUDES CARRY/SHIPPING CONTAINER, VEHICLE INSTALLATION KIT, POWER CABLING, ANTENNA AND BASE GUIDES. UP TO 25000 METERS \$255.00 MONTHLY MAINTANENCE FEE. ---- ----	1	32894.750	EA	32894.75
SP-MC3WIRE-PORT	MC3 PORTABILITY KIT INCLUDES MC3 ANTENNA BASE, ANTENNA WHIP AND CIGARETTE LIGHTER POWER CABLE (120") ---- ----	1	445.800	EA	445.80
	AMR EQUIPMENT TOTAL: TOTAL				41384.35
	**** SERVICES *** ----				
SP-EAC220	SYSTEM INSTALLATION & TRAINING ----	1	2500.000	EA	2500.00
SP-MVRSSUPPORT	FIRST YEAR MVRS SOFTWARE SUPPORT FIRST YEAR MVRS SOFTWARE SUPPORT FOR MVRS (7,501 - 10,000 ACCOUNTS) ----	1	1080.000	EA	1080.00
	SERVICES TOTAL: TOTAL				3580.00



FERGUSON ENTERPRISES, INC.  
 FERGUSON WATERWORKS #1491

Price Quotation  
 Phone : 859-624-2800  
 Fax : 859-623-4658

Page # 3

11:58:59 JUL 08 2009

Reference No: B111965

Item	Description	Quantity	Net Price	UM	Total
	----				
	----				
	*** WATER METERS ***				
	----				
SP-AC700-5/8X3/4"	5/8"X3/4" AMCO C700 METER 5/8"X3/4" ELSTER AMCO C700 BRONZE CASE, CAST IRON BOTTOM, POLYMER REGISTER HOUSING WITH GLASS LENS ENCODER AND 60W PIT SET ERT WITH 5' END CABLE.	2846	121.475	EA	345717.85
	----				
	----				
SP-AC700-1"	1" AMCO C700 METER 1" ELSTER AMCO C700 BRONZE CASE, CAST IRON BOTTOM, POLYMER REGISTER HOUSING WITH GLASS LENS ENCODER AND 60W PIT SET ERT WITH 5' END CABLE.	63	193.050	EA	12162.15
	----				
	----				
SP-AC700-2"	2" AMCO C700 METER 2" ELSTER AMCO C700 BRONZE CASE, BRONZE TOP PLATE, POLYMER REGISTER HOUSING WITH GLASS LENS ENCODER AND 60W PIT SET ERT WITH 5' END CABLE.	29	1067.220	EA	30949.38
	----				
	----				
SP-AT4000-3"	3" AMCO T4000 METER 3" ELSTER AMCO T4000 BRONZE CASE, POLYMER REGISTER HOUSING, GLASS LENS ENCODER AND 60W PIT SET ERT WITH 5' END CABLE.	1	1471.140	EA	1471.14
	----				
	----				
SP-AT4000-6"	6" AMCO T4000 METER	1	2875.460	EA	2875.46



FERGUSON ENTERPRISES, INC.  
FERGUSON WATERWORKS #1491

Price Quotation

Page # 4

11:58:59 JUL 08 2009

Phone : 859-624-2800

Fax : 859-623-4658

Reference No: B111965

Item	Description	Quantity	Net Price	UM	Total
	6" ELSTER AMCO T4000 BRONZE CASE, POLYMER REGISTER HOUSING, GLASS LENS ENCODER AND 60W PIT SET ERT WITH 5' END CABLE ---- ---- METER TOTAL				
	TOTAL				393175.98
	NOTES: THE MONTHLY MAINTANENCE IS THE PRICE OF A SERVICE AGREEMENT AFTER THE MANUFACTURERS WARRANTY EXPIRES. ---- ALL PRICES ARE F.O.B. DESTINATION IF ORDER OVER IS OVER \$7500.00 ---- THE ABOVE PRICES ARE FIRM THROUGH 6/30/2009.				

<b>Net Total:</b>	438140.33
<b>Tax:</b>	0.00
<b>Total:</b>	438140.33

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT. Quotations are offered contingent upon the Buyer's acceptance of Seller's terms and conditions. Seller objects to all other terms and conditions. Seller not responsible for delays or lack of product due to causes beyond our control. Purchaser's sole warranties, if any, are those provided by the manufacturer. SELLER DISCLAIMS ALL EXPRESSED OR IMPLIED WARRANTIES, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL SELLER BE LIABLE FOR ANY INCIDENTAL, PUNITIVE, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING DIRECTLY OR INDIRECTLY FROM THE OPERATION OR USE OF THE PRODUCT. SELLER'S LIABILITY, IF ANY, SHALL BE LIMITED TO THE NET SALES PRICE RECEIVED BY SELLER. Complete Terms and Conditions are available upon request.

**MADISON COUNTY UTILITIES DISTRICT**

1. Separate sealed BIDS for Automatic Meter Reading System will be received by the Owner at the office of Madison County Utilities District, 297 Michelle Drive, Richmond, Kentucky, until 3:00 p.m. on Friday, April 24, 2009. There will be no public opening of bids.

2. Construction shall consist of an Automatic Meter Reading (AMR) System including handheld computer, data transfer station, laptop computer, mobile collection system with mapping solution, portability kit, all required software training, and the one year support. 2846 - 5/8" x 3/4" meters, 63 - 1" meters, 29 - 2" meters, 1 - 3" turbine meter and 1 - 6" turbine meter with hardware compatible for a radio/read system as proposed and all other necessary appurtenances.

3. The CONTRACT DOCUMENTS may be examined at the following locations:  
• CMW, Inc., 400 East Vine Street, Suite 400, Lexington, Kentucky  
• Madison County Utilities District, 297 Michelle Drive, Richmond, Kentucky  
• AGC/McGraw-Hill Construction/Dodge Plan Room, 950 Contract Street, Suite 100A, Lexington, Ky  
• Reed Construction Data/ABC Plan Room, 2020 Liberty Road, Suite 100, Lexington, Ky

4. Copies of the CONTRACT DOCUMENTS may be obtained from Lynn Imaging, 328 Old East Vine Street, Lexington, Kentucky 40507. Phone: 859/255-1021 upon payment of \$15.00 (non-refundable) for each set. Make checks payable to CMW, Inc.

5. The Owner reserves the right to waive any informalities or to reject any or all bids.

6. No Bidder may withdraw his bid within 90 days after the actual date of the opening thereof.

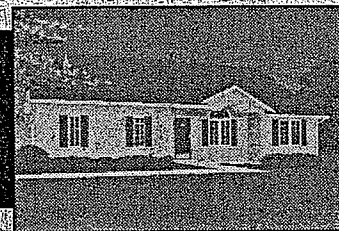
7. Award will be made to the lowest responsive, responsible Bidder unless all bids are rejected.

Madison County Utilities District is an equal opportunity employer and does not discriminate on the basis of race, color, national origin, gender, age, religion or disability.

April 8, 2009  
Date  
MADISON COUNTY  
UTILITIES DISTRICT  
RICHMOND, KENTUCKY  
CMW, INC.  
400 E. VINE ST. STE 400  
LEXINGTON, KENTUCKY

If you're searching for that perfect look no further than

Search on Your Terms  
Locally focused with a  
Customize your search



FOR  
BY O

**ATTENTION H**

If you are considering selling  
Richmond Register classifieds

**"RUN IT TILL**

**For Sale by Owner**

1 col. x 1"  
Wording Only

**\$150**

Purchase either a  
a 1 col. x 2" ad at  
every Sat  
The Richmond Re  
until it **SE**

\*Length of agreement is 52 consecutive week  
No refunds, no credits. One property per ad. At  
No campers, RV's or recreational vehicles, only



**AUTOMATIC METER READING SYSTEM**

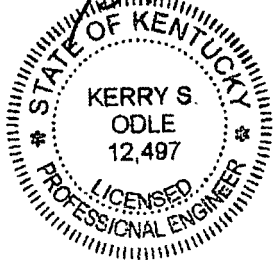
**FOR**

**MADISON COUNTY UTILITIES DISTRICT**

**RICHMOND, KENTUCKY**

**MARCH 2009**

*Kerry S. Odle*



10/30/09

**PROJECT MANUAL**

**FOR**

**AUTOMATIC METER READING SYSTEM**

**FOR**

**MADISON COUNTY UTILITIES DISTRICT**

**OWNER:**

**MADISON COUNTY UTILITIES DISTRICT**

**MARCH 2009**

**Engineer**  
**CMW, Inc.**

**400 East Vine Street, Suite 400**  
**Lexington, KY 40507**  
**Phone: 859/254-6623**  
**Fax: 859/259-1877**

**CMW PROJECT NO. 09024.01**

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**BIDDING REQUIREMENTS, CONTRACT FORMS AND CONDITIONS OF THE CONTRACT**

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001000	BIDDING REQUIREMENTS	5
002000	GENERAL REQUIREMENTS	1
003000	BID FORM	4

**DIVISION 22 - PLUMBING**

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**ADVERTISEMENT FOR BIDS**

**Madison County Utilities District**

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  - Madison County Utilities District, 297 Michelle Drive, Richmond, Kentucky.
  - AGC/McGraw-Hill Construction/Dodge Plan Room, 950 Contract Street, Suite 100A, Lexington, Ky.
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5. The Owner reserves the right to waive any informalities or to reject any or all bids.
6. No Bidder may withdraw his bid within 90 days after the actual date of the opening thereof.
7. Award will be made to the lowest responsive, responsible Bidder unless all bids are rejected.

Madison County Utilities District is an equal opportunity employer and does not discriminate on the basis of race, color, national origin, gender, age, religion or disability.

April 8, 2009  
Date

MADISON COUNTY UTILITIES DISTRICT  
RICHMOND, KENTUCKY

CMW, I NC.  
400 EAST VINE STREET, SUITE 400  
LEXINGTON, KENTUCKY

**SECTION 001000 - BIDDING REQUIREMENTS**

**1.1 – RECEIVING OF BIDS**

A. All bids are to be submitted as follows:

1. One copy in paper "hardcopy" format to:

John Clark  
Madison County Utilities District  
P.O. Box 670  
Richmond, Kentucky 40476-0670

B. The Owner may consider informal any bid not prepared and submitted in accordance with provisions herein and may waive any informalities or reject any and all bids.

**1.2 – MODIFICATIONS OF BIDS**

A. Oral, telephonic or telegraphic bids or modifications to bids **will not** be considered.

**1.3 – METHOD OF BIDDING AND PURCHASE**

A. We are requesting your proposal for a Automatic Meter Reading System to read meters in an automatic and cost effective manner. It must also allow for future migration to advanced meter reading technologies such as a Fixed Network System. The system will be comprised of all new equipment.

B. Bidders are expected to propose systems with sufficient equipment such that if a failure of any major system component or part thereof does occur, it will not interrupt the flow of meter reading information to customer revenue systems.

C. This proposal includes the following:

- Meters
- Radio meter modules to encode, store and transmit pertinent meter read and tamper dates.
- A mobile data collection system to collect reading and tamper information for the meter modules and pass this data to the CIS.
- Handheld computers for backup data collection and special meter reading situations.

D. Any systems and services proposed must cover the meter requirements in the specifications and must be extensible to cover other meters and/or service types as well as the potential for other applications in the future.

- E. Madison County Utilities District seeks to acquire a meter reading system that meets the following objectives:
- Meter reading in the most cost effective manner possible.
  - Ability to migrate from monthly consumption reads to more advanced meter reads, should business requirements warrant.
  - Increased meter reading efficiency throughout the service territory.
  - Maximizing of existing investments in meter reading technology.

#### **1.4 – INQUIRIES REGARDING PROJECT – DISCREPANCIES OR AMBIGUITIES**

- A. Direct inquiries regarding the project to Kerry Odle, CMW. Bids will be received on items as specified.

#### **1.5 – ADDENDA AND INTERPRETATIONS**

- A. Replies to inquiries, requests for interpretations or clarifications which involves or provides information that is not already a part of bidding information contained in Addenda, becomes a part of Contract Documents and shall be incorporated in all bids submitted.
- B. All bidders are responsible to ascertain what Addenda have been issued prior to bid date, to examine the Addenda and to determine the affect of Addenda provision on their bid and their work.
- C. Interpretations, clarifications, modifications and supplemental instructions in form of written Addenda will be provided to all bidders on record at Engineer's office.
- D. Engineer and Owner will not be responsible for, nor honor any claims resulting from, or alleged to be the result of, misunderstanding by the bidder of verbal discussion of the Project conditions prior to receiving bid. All verbal comments made during the bidding period are subject to inclusion in Addenda; otherwise they shall not be binding on Owner or Engineer.
- E. During installation, discrepancies, ambiguities and intent not clarified by Addenda will be subject to interpretation of Engineer and work shall be provided in accordance with Engineer's interpretations.
- F. Bidders shall state on Bid Form the number of Addenda received. Failure of any bidder to receive any such Addendum or interpretations shall not relieve such bidder from any obligation under his bid as submitted.

#### **1.6 – EXAMINATION OF DOCUMENTS**

- A. Prior to submitting a bid, each bidder shall examine all of the bidding requirements and all Contract Documents for the Project, become thoroughly familiar with the scope of the Project and all factors and items of work which will affect his bid or the Work.

**1.7 – PREPARATION OF BID**

- A. Submit bids in accordance with following requirements:
  - 1. Submit bid on the prescribed forms, which are furnished with the specification, with full name and address of the bidder.
  - 2. Completely fill in all blank spaces on the Bid Form, in ink or typewriter, in both words and figures.
  - 3. Total bid for each group shall be stated in writing and in figures. In all cases, written and numerical figures must agree. Complete form without interlineation. Any and all alterations or erasures must be initialed by the signer of the bid.
- B. For Bid Form completion, bidder shall for each group:
  - 1. Enter the unit price and the total price for each item including freight to jobsite and installation as shown on plans.
- C. Sign in longhand, on last page of Bid Form, executed by a principal duly authorized to enter into an agreement. If a bidder is a co-partnership, then signatures on the bid shall be by an authorized member of the firm, with names and address of each member of partnership; and if a corporation, with corporate seal attached thereto.
- D. Submit bids to the designated place on or before the time and date specified. Bids received after this time will be neither opened nor considered.
- E. The Owner does not pay any cost or expense in the preparation and submission of bid.

**1.8 – WITHDRAWAL OF BIDS**

- A. A bidder may withdraw his bid at any time prior to date set for receiving of bids (or authorized postponement thereof). Thereafter, the bids may be withdrawn only after 90 days has elapsed after bid date, provided Owner has not acted thereon. Bidders shall obtain and guarantee price protection for this period of time.

**1.9 - QUALIFICATIONS OF BIDDERS**

- A. Owner may make such investigations as he deems necessary to determine the ability and responsibility of the bidder to furnish as specified, and any bidder shall furnish to Owner all such information and data for this purpose as the Owner may request. Owner reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the Owner that such bidder is properly qualified to furnish.

The competence and responsibility of bidder will be considered in making an award, including, but not be limited to: (1) proof of financial responsibility,(2) quality of similar work, (3) facilities, personnel, and equipment, (4) reputation for performance and, (5) demonstrated ability to furnish within specified time.

Owner reserves the right to reject any Bid where there is reasonable doubt as to the qualifications of the bidder or his proposed equipment.

- B. Bidder shall provide a listing of five utility systems using the proposed automatic meter reading system.

#### **1.10 – ACCEPTANCE OF BID - AWARD OF CONTRACT**

- A. Owner reserves the right to (1) accept bidder's Base Bid only, (2) award contract based on his investigation of bidders as well as on acceptance of alternates, all of which Owner deems to be in his best interest, (3) reject all Bids, (4) waive informalities of minor irregularities in bids and waive minor irregularities or discrepancies in bidding procedure, (5) award bids based on manufacturer.

#### **1.11 – METHOD OF PURCHASE**

- A. If advised of acceptance of bid, the firm submitting the accepted bid shall accept a contract to furnish and install items according to the requirements of the Contract Documents.

#### **1.12 - COMPLETION TIME**

- A. Commencement of Work and time of completion shall be an essential condition of the Contract. Work shall be completed within time specified, agreed upon and entered into Contract.

#### **1.13 – SALES TAX**

- A. Madison County Utilities District is tax exempt. The successful bidder will be required to obtain tax number.

#### **1.14 - CLARIFICATIONS**

- A. Failure to request clarification of an alleged omission or conflict will be considered as if there was a thorough understanding. The Engineer's interpretation and decision will govern if such omission or conflict is claimed.



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**1.15 – PROJECT CONTACTS:**

- A. CMW, Inc.  
400 East Vine Street, Suite 400  
Lexington, Kentucky 40507  
859-254-6623  
859-259-1877
  
- B. Project Manager – Kerry Odle  
[kodle@cmwaec.com](mailto:kodle@cmwaec.com)

**END OF SECTION**

**SECTION 002000 - GENERAL REQUIREMENTS**

**1.1 - INSURANCE**

- A. Certificate of insurance acceptable to Madison County Utilities District, Richmond, Kentucky must be filed with the Owner within 5 days after award. This certificate shall contain a provision that coverages afforded under the policy (policies) will not be cancelled until, at least 15 days prior, written notice has been given to Owner.

**1.2 – COMPLIANCE WITH LAWS**

- A. All products and services must comply in quality, type of material, methods of manufacture and handling procedures, and all existing safety standards with all applicable local or state laws or codes pertaining thereto.

**1.3 – DELIVERY, STORAGE AND HANDLING**

- A. Protect equipment during transit, delivery, storage, and handling to prevent damage, soilage, and deterioration.
- B. The Owner will provide area for storage for all materials at their office.
- C. Successful bidder shall coordinate with Owner on delivery of materials.

**1.4 – CLOSE OUT**

- A. Owner and Maintenance Manuals: Organize operation and maintenance data into a manageable size operation and maintenance manual. Four copies shall be submitted to Engineer prior to final payment.
- B. Employee Training:  
Successful bidder shall provide adequate training to operate the Automatic Meter Reading System. Training shall consist of the following:
  - 1. Installation of Automatic Meter Reading System.
  - 2. Operation of Handheld Computer.
  - 3. Operation of Mobile Collection System.
  - 4. Data transfer to billing software.
  - 5. Installation of meters.

**END OF SECTION**

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**SECTION 003000 - BID FORM**

**TO:** Madison County Utilities District  
P.O. Box 670  
Richmond, Kentucky 40476-0670

**FROM:** \_\_\_\_\_  
Name of Bidder  
\_\_\_\_\_  
Address  
\_\_\_\_\_  
Phone Number

**FOR:** Automatic Meter Reading System

**NOTES TO CONTRACTORS:**

- A. Submit Bid on this Form. Do not use any other form than that which is provided herein.
- B. These forms shall be copied from the Project Manual and the copies submitted.

The Undersigned proposed to provide all materials and labor and do everything necessary to complete all work in the specified bid package for the above-named project, all according to Contract Documents as prepared by CMW, Inc., 400 East Vine, Lexington, Kentucky 40507 for the sum set out below.

**PART I – BASE BID:**

Item No.	Description	Quantity	Unit	Unit Price	Total Amount
1.	Automatic Meter Reading System including handheld computer, data transfer station, laptop computer, mobile collection system with mapping solution, portability kit, all required software, installation, training and one year support.	1	L.S.	\$ _____	\$ _____
2.	5/8" x 3/4" Meter (See Note)	2846	EA	\$ _____	\$ _____
3.	1" Meter (See Note)	63	EA	\$ _____	\$ _____
4.	2" Meter (See Note)	29	EA	\$ _____	\$ _____

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5.	3" Turbine Meter (See Note)	1	EA	\$ _____	\$ _____
6.	6" Turbine Meter (See Note)	1	EA	\$ _____	\$ _____

Note - Items #2 thru 6: Meter bids shall include all items to make the meters compatible with the Automatic Meter Reading System including 60W pit set ERT with 5' of cable, mounting kits and antenna.

**TOTAL PART I: BASE BID** \$ \_\_\_\_\_  
**(USE FIGURES)**

\_\_\_\_\_  
**(USE WORDS)**

**PART II – COMPATIBLE METERS:**

List meters compatible with bid Automatic Meter Reading System:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**PART III – WARRANTIES:**

List all warranties for bid meters and meter reading system:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**PART IV – TRAINING:**

List length and description of training to be provided in this bid:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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**PART V – OTHER ITEMS:**

List any other items including in your systems that is not required in Contract Documents such as extended warranties, maintenance agreements or software upgrades:

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**PART VI – FINANCING:**

Provide information for available financing of this project through your company:

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**PART VII – TIME OF COMPLETION:**

Provide information on time of completion to provide all equipment and installation of all software.

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**PART VIII – ITEMS NOT MEETING SPECIFICATION**

List any part of your proposal that does not meet the specification.

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**PART IX – AWARD OF CONTRACT:**

Award of the Contract will be based on the lowest and best Total Base Bid. The bidder understands that the Owner reserves the right to reject any or all bids and to waive any informalities in the bidding. The bidder agrees that this bid shall be good and may not be withdrawn for a period of ninety (90) calendar days after the scheduled closing time for receiving bids. Upon written notice of the acceptance of this bid, bidder will execute the formal Contract attached within ten (10) days.

Respectfully Submitted:

\_\_\_\_\_  
Name of Bidder

\_\_\_\_\_ By: \_\_\_\_\_ L.S.  
Title Name

\_\_\_\_\_ Address  
Date Signed

END OF BID FORM

**AUTOMATIC METER READING SYSTEM 09024.01  
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**SECTION 220519 – AUTOMATIC METER READING SYSTEM**

**1.1 RELATED DOCUMENTS**

Bidding Requirements and General Requirements apply to this section.

**1.2 DESCRIPTION OF WORK**

Provide material, equipment and services necessary for a complete Automatic Meter Reading (AMR) System. AMR system shall consist of water meters, handheld computer, laptop computer, docking stations, mobile collection system, all necessary software, laptop portability kit, system installation and training, and first year software support.

**1.3 MATERIALS**

**A. Meters (5/8" through 2")**

1. **General Description:** Meters furnished under these specifications shall be the product of a manufacturer with at least ten (10) years experience in meter manufacturing for the American market. Meters shall be new, first line quality, positive displacement type for cold water service. To optimize low flow accuracy and repeatability meters must be of the oscillating piston type. Multi-jet meters are not acceptable under this specification.

Meters shall comply with AWWA Standard C700 latest revision and the minimum specifications herein. They shall be designed for use with potable water below 120 degrees F.

Meters must be magnetically driven. Meters with stuffing boxes, spindles and packing glands will not be acceptable.

2. **Registration Accuracy:** All meters shall meet the following flow requirements:

Size	Low Flow GPM @95%	Normal Flow GPM 98.5%-101.5%	Continuous Flow GPM
5/8"	1/8	1-20	15
3/4"	1/2	2-30	15
1"	3/4	3-50	25
1 1/2"	1 1/2	5-100	50
2"	2	8-160	80

3. **Main Cases:** The body main case shall be of high quality copper alloy with raised markings to indicate the direction of flow and size. All cases shall have a minimum wall thickness of 1/8th of an inch. All 5/8" - 1" meter main cases shall include a bottom plate made of (bronze, cast iron, plastic) and held in place with stainless steel bolts with integral washer heads. All bottom plates shall be isolated from the potable water by a

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full rubber liner. All 1-1/2" - 2" meter main cases shall include a top plate made of bronze only.

Cases must be capable of withstanding working pressures of one hundred fifty (150) psi. Thread protectors shall be supplied for the connection ends.

4. Register Housings: Register housings shall be constructed of a suitable engineering polymer or bronze and provide full protection of the register assembly. Register assemblies shall be secured to the main case in a tamper resistant fashion to prohibit unauthorized removal. Seal screws, tamperproof screws, or locking pin devices are acceptable.
5. Measuring Chambers: Measuring chambers shall be of the two-piece design and be made of a copper alloy containing not less than 85% copper or a suitable engineering polymer. The chamber shall be separate from the outer casing and so secured in the main case that the accuracy of the meter will not be affected by any distortion of the case. All wear prone surfaces shall be reinforced with a nylon material.

All measuring chamber assemblies shall operate smoothly and be capable of sustaining long-term accuracy. All motion from the piston shall be transferred to the register via magnetic drive.

6. Pistons: Pistons shall be made of vulcanized hard rubber or a suitable engineering polymer with a specific gravity approximately equal to that of water.

Piston oscillations must not exceed the figure recommended in Table One (1) of AWWA Standards C-700 latest revision for the size of meter being bid.

7. Strainers: All meters shall be provided with a strainer screen installed in the meter. Strainer screens shall be rigid, fit snugly, be easy to remove and have an effective straining area at least two times that of the main case inlet.
8. Warranties: Meters shall be guaranteed to be free from defects in materials and workmanship for 12 months after installation or 18 months after shipment, whichever occurs first, and to meet AWWA C700 new meter accuracy standards for a period of five years from the date of shipment, or registration as itemized below:

5/8" & 3/4"	750,000 U.S. gallons
1"	1,100,000 U.S. gallons
1 1/2"	1,600,000 U.S. gallons
2"	2,100,000 U.S. gallons

At the expiration of this period, meters shall be guaranteed to meet AWWA C700 repaired meter accuracy standards specified below:

5/8" & 3/4"	15 years from date of shipment or registered usage of 2,500,000 U.S. gallons
1"	15 years from date of shipment or registered usage of 3,250,000



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- 1 1/2" U.S. gallons  
10 years from date of shipment or registered usage of 5,600,000 U.S. gallons
- 2" U.S. gallons  
10 years from date of shipment or registered usage of 10,400,000 U.S. gallons

**B. Turbine meters (1-1/2" through 12")**

1. **General Description:** Meters furnished under these specifications shall be the product of a manufacturer with at least ten (10) years experience in meter manufacturing for the American market. Meters shall be new, first line quality, turbine type for cold-water service.

Meter sizes shall be inclusive and shall comply with the Class II AWWA Standard C701 latest revision and the minimum specifications herein. They shall be designed for use with potable water below 120 degrees F.

2. **Registration Accuracy:** All meters shall meet the following flow requirements:

Size	Min Flow GPM @95%	Normal Flow GPM 98.5%-101.5%	Continuous Flow GPM
1 1/2"	3	4-200	160
2"	3	4-200	160
3"	4	5-750	600
4"	7	10-1250	1000
6"	15	20-2500	2000
8"	25	30-3000	2800
10"	55	65-5500	3200
12"	95	110-7000	4300

3. **Main Cases:** The body main case shall be of bronze composition of a high tensile strength on 1 1/2"- 6" sizes and epoxy coated cast iron on 8"-12" sizes and be capable of resisting distortion under pressure up to one hundred and fifty (150) pounds per square inch. All meters shall have the size and direction of flow indicated on the case and shall be designed for easy removal of all interior parts without disturbing the connections to the pipeline.
4. **Register Housings:** The register housing shall be constructed of (bronze) and provide full protection of the register assembly. Register assemblies shall be secured to the main case in a tamper resistant fashion to prohibit unauthorized removal. Seal screws, tamperproof screws, or locking pin devices are acceptable.
5. **Measuring Chambers:** The measuring elements or chambers for all meters shall be of copper alloy containing not less than 81% copper or of suitable engineering polymer and shall be separate from the case and easily detached and removed there from.

Rotor spindles shall be of tungsten carbide steel supported by radial bearings made of PTFE or graphite compounds. Replaceable thrust bearings shall be provided.

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6. **Rotors:** The measuring impellers, vanes or rotors for all meters shall be polypropylene, nylon, hard rubber or other suitable engineering polymer and shall be mounted on a horizontal axis in the center of the measuring element with rotations of the turbine transmitted to the register by means of magnets.

Straightening vanes of corrosion resistant material as required shall precede the rotor.

7. **Strainers:** Meters shall be provided with separate external bronze case strainers of the stainless steel plate type on sizes 2"- 6" sizes and cast or galvanized iron on 8" - 12" sizes. They shall be rigid, easily removable, and have an effective straining area at least double that of the meter main case inlet. Strainer connections shall conform to the main case and shall be accompanied by gaskets, bolts and nuts.
8. **Warranties:** Meters shall be guaranteed to be free from defects in materials and workmanship for a period of 18 months after shipment, or 12 months after installation, whichever occurs first. Structural integrity of meter main cases shall be guaranteed for 1 year from date of shipment. Meters will meet accuracy standards of AWWA C701, most recent revision, for 2 years from date of shipment.

**C. Absolute Encoder Type Registers for Positive Displacement, Compound and Turbine Meters**

1. **General Description:** Registers furnished under these specifications shall be the product of a manufacturer with at least ten (10) years experience in the production of absolute encoder-based remote metering systems. The registers shall have the capability of providing encoded meter information as described in the enclosed specification.

Specifications for the required meters can be found in earlier sections of this specification.

2. **Registers:** Registers shall be of the absolute encoder type and permanently sealed in a vacuum purged or dry air filled copper can. Registers filled with any liquids are unacceptable under this specification. Additionally, in order to best assure protection from moisture, glass lens encoders are required in pit set environments. Systems utilizing generator pulses or low voltage conversions are not acceptable under this standard. Similar size, type and registration of registers shall be interchangeable. Registers shall be equipped with low flow indicators and faceplates must be stamped with date of manufacture and serial identity number. Registers shall read in Cubic Feet.

These registers shall have 6 moving rollers to prevent errors by programming wrong number of roller wheels. Upon inquiry from a remote location, the absolute encoder register shall disclose the exact position of each of the six rollers as well as the electronic identity number of the register without the use of internal power. All power necessary for data transmission shall be supplied from the interrogation device. All registers shall be compatible with various brands of interrogation equipment. The electronic identity number must be programmable with a minimum of ten digits.

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The position of each roller shall not be determined by using any type of mechanical contacts for reliability and durability. Due to the success of it's proven technology in critical industries, the utility prefers that OCR (Optical Character Recognition) technology is utilized in the absolute encoders.

To insure best balance between lowest resolution and largest rollover registration, the meters shall have the resolution and totalize capacity shown in the following table:

Meter Type	Size	6 Digit Resolution (USG)	Capacity (USG)	6 Digit Resolution (Ft <sup>3</sup> )	Capacity (Ft <sup>3</sup> )
PD	5/8"	10	10,000,000	1	1,000,000
PD	3/4"	10	10,000,000	1	1,000,000
PD	1"	10	10,000,000	1	1,000,000
PD	1 1/2"	100	100,000,000	10	10,000,000
Turbine	1 1/2"	100	100,000,000	10	10,000,000
PD	2"	100	100,000,000	10	10,000,000
Turbine	2"	100	100,000,000	10	10,000,000
Turbine	3"	100	1,000,000,000	10	10,000,000
Turbine	4"	100	1,000,000,000	10	10,000,000
Turbine	6"	1,000	1,000,000,000	1,000	100,000,000
Turbine	8"	1,000	1,000,000,000	1,000	100,000,000
Turbine	10"	1,000	1,000,000,000	1,000	100,000,000
Turbine	12"	1,000	1,000,000,000	1,000	100,000,000

All registers shall be easily upgraded to Automatic Meter Reading (AMR) that includes, Telephone, Radio, Cable, etc. with the substitution of the remote receptacle with a Meter Interface Unit (MIU).

- AMR: Automatic Meter Reading Systems shall be covered further in the specification. Data transmission shall be instantaneous and supplied in an ASCII format without conversion or modification. The register must operate reliably down to at least 3.0 volts.

Color-coded wire terminals (red, green and black) shall be provided. A suitable wire terminal cover shall be provided and be factory potted when ordered for underground pit installations.

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All registers must be removable without disassembly of meter or depressurizing the service line. Register must be free of openings to protect the internal electronics of the register.

Lens covers shall be made of polycarbonate or other suitable engineering polymer for indoor installations and mineral glass for underground pit installations. All other register assembly and material requirements stated herein shall also apply

4. Warranties: All encoded registers and pads supplied with the meters shall be free from defects in materials and workmanship for a period of eighteen (18) months from the date of shipment, or twelve (12) months after installation, whichever occurs first. In addition, the functionality of registers supplied with the meters shall be guaranteed for 10 years form date of manufacture.

**D. METER READING SYSTEM**

**1. Meter Module**

These units must comply with FCC Part 15 regulations.

Transmit frequency for these units must be 910-920 MHz (spread spectrum) at 10 milliwatts of power

Data integrity must be verified in every data message.

The meter module must last in the field for a minimum of 20 years.

The entire module must be warranted for a period of 20 years.

They shall be able to operate within the range of -40°F and 158°F.

A unit capable of withstanding 100% humidity (submersible) without suffering any damage shall be available (for Pits). Waterproof connections to the water meter must be provided.

Pit type units may be installed in pit lids or beneath the lid. Maximum size of hole to be drilled on lid shall not exceed 2". Height above the pit must not exceed 0.75". Overall height shall not exceed 5". Means shall be provided to install these units in lids of up to 2.75" in thickness. For under the lid installation purposes the radio module must have mounting brackets for conduit, rebar, and tie wraps integrated into the radio module housing.

Units shall be compatible with the following water meters:

<i>Manufacturer</i>	<i>Register</i>
Elster	InVision, Digital, AquaMaster, evoQ4
Badger	RTR®, ADE
Hersey®	ER, Translator
Neptune	ARB V® Pro Read™
Sensus	ECR, ICE

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The meter module must be factory installable at the meter manufacturer.

The radio module must be offered in an integral configuration with no exposed wires to prevent tampering.

The radio module must offer leak detection.

The meter module must utilize an accurate and reliable encoding technology to capture readings.

Radio Modules shall have the capability of detecting if connection to meter has been lost. It must then send a tamper code to reading equipment with last known reading.

The meter module must have flexibility to be read by varying reading technologies to allow for future migration to a fixed network technology.

Units shall operate in bubble up mode with no FCC license required.

**2. Handheld Computer**

a. These devices will be used in the field by meter readers to input customer meter data, including readings and conditions at the customer meter site.

**b. Collection Characteristics and Memory**

All devices must be completely self-contained and have adequate memory and internal power sources to perform meter reading or field service activities for an eight (8) hour shift.

- Memory for application and data used in the data capture devices must be Flash Technology, a non-volatile memory that improves data integrity and security. EPROM memory is not acceptable.
- The handheld computer must provide data security in the event of loss of power from the main battery supply. This protection is required even if the main battery supply is removed while the handheld computer is turned on.
- The device must allow the memory to be easily removed and installed in another identical unit to retrieve data in case a reading device is damaged.
- The device must be capable of storing and updating information for approximately 8,000 manually entered readings.
- The device must be capable of allowing reading of meters using ERT technology.
- The device must be able to have upgrades installed that allow for Wireless Probing and bar coding.
- Device must be able to program radio modules being read by the proposed system.
- Device must operate on a Windows Platform
- Device must be able to perform manual entry, touch probe entry, and radio entry all within the same route.

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- Route data displayed on the handheld must indicate what type of meter is being read (water, gas, electric), account status (active/inactive), and meter read type (manual, touch, radio), along with standard account and meter information needed by the meter reader.
- Handheld must be able to be upgraded to full mobile drive-by

c. Keyboard

- Environmental protection without the need for special covers or cases.
- Alphanumeric data entry without need for a Shift key.
- New Service/Meter key.
- Change Meter Information key
- Common meter operation keys must be able to be used without the need for the shift key, i.e. locate, skip codes, next missed

d. Display

- The devices must use Liquid Crystal Display (LCD) technology.
- Display information must be user configurable.
- Backlighting is required.
- Color
- Display must be a touch screen with a stylus provided

e. Power Supply

- Removable, rechargeable batteries.
- Back-up battery supply.
- Low power indicator.
- Lithium ion Batteries

f. Physical Characteristics

The unit must be completely weatherproof and capable of operating in bad weather conditions such as rain or snow.

The unit must be capable of operating with ambient temperatures ranging from -4°F to +140°F without use of cases, plastic coverings, etc.

Must be IP67 rated.

The unit's weight shall not exceed 35 ounces (including antenna and battery).

The unit must have audible acknowledgement of data entry and audible signaling of errors. Beep volume shall be adjustable.

g. Internal Time Clock

The data capture devices must have internal clocking to establish the read times for each account.

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**h. Interface Devices**

These devices must be provided to allow the transfer of data between the handheld data capture devices and the utility mainframe, via a personal computer.

The remote hand-held device must communicate with the personal computer via local connection, leased lines or dial-up communications facilities at a rate of 2400 bits per second to 115,200 bits per second. The recommended system configuration must meet Madison County Utilities District operational requirements of Microsoft Windows 95 or higher.

The system must support dial-in and dial-out remote communications between the communications PC and the remote hand-held device.

The system must be capable of transferring data in either an attended or unattended operation.

The interface to the modem must be RS-232C compatible.

The device, when interfaced with a PC, must provide the operator with the capability to monitor data transmission.

**i. Battery Chargers**

The proposed System must provide battery chargers to sustain a day of use without having to change batteries. Emergency battery changing, such as in the field, must also be supported without losing route data. Chargers must be integrated into the device that handles the communication interface between the handheld and the PC and they shall allow simultaneous charging of the battery and communications with the host computer.

The chargers must be capable of recharging the batteries used by the handheld computer in five hours or less.

These devices must be capable of simultaneously charging the unit's battery and a backup battery. Charging time for both shall not exceed 12 hours.

**j. Handheld Computer Software**

The proposed system must provide a software system for the handheld computers. The software used in the handheld shall run under Windows CE.

The handheld computer software must provide the following meter reading procedures and functions.

- .Route number and meter reader identification
- Special route instructions
- Data entry of meter readings for each type of meter read must be selectable to be right to left or left to right by the meter reader
- Vehicle number and odometer reading
- Sign-on and Sign-off procedures
- Meter read entry displays, customized by the utility

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- Customer address
- Customer name or business name
- Meter location
- Meter number
- Skip/No access meters
- Special messages/instructions to the meter reader
- Special messages from the meter reader
- Trouble/Meter Condition codes & messages from the meter reader
- Search (by number, sequence number, account number, name, address, missed readings, meters with skip codes, must read meters, all meters forward or backward.
- Scroll and Review (Name, Address, Meter Number, backward and forward)
- Survey functions, both forced and optional
- Meter change
- Add Meter
- Total & Partial/Split Route resequencing
- Status of reading/route
- Missed meters
- Ability to update meter information
- Display of Skip and Trouble code tables
- Read Electric, Gas, and Water meters within same route
- Security / password protection for re-sequencing, reset demand, reset time and date and delete route functions. Describe any additional security provided with the handheld.
- Free-form comments
- New Service/Meter
- Capability for reading the route in reverse.
- Meter notes and instruction/location information
- Current time by HH:MM:SS, and current month, day and year.

**3. Mobile Laptop Computer**

a. This device will be used in the field for the collection of readings, tamper and leak detection information.

b. Collection Characteristics and Memory

- Memory for application and data used in the data capture devices must be, a non-volatile memory that improves data integrity and security.
- The laptop computer must provide data security in the event of loss of power from the main power supply. This protection is required even if the main power supply is removed while the laptop computer is turned on.
- The device must be capable of storing and updating information for approximately 50,000 readings.



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- The device must be capable of allowing reading of meters using ERT technology.
- Device must operate on a Windows Platform
- Route data displayed must indicate what type of meter is being read (water, gas, electric), along with standard account and meter information needed by the meter reader.
- Provide visual GPS location information for each meter, and current vehicle location.
- Read multiple routes at once.

c. Keyboard

- Environmental protection without the need for special covers or cases.
- Full 87 key keyboard.

d. Display

- The devices must use Liquid Crystal Display TFT-LCD technology.
- Viewable in sunlight.
- Adjustable screen brightness.
- Color
- Display must be a touch screen with a stylus provided

e. Power Supply

- Removable, rechargeable, back-up battery pack.
- Low power indicator.
- Lithium ion type batteries.
- Operate from cigarette lighter and hard wired configurations.

f. Physical Characteristics

- The unit must be weather resistant.
- The unit must be capable of operating with ambient temperatures ranging from -4°F to +122°F without use of cases, plastic coverings, etc.
- Must be portable and easily moved from one vehicle to another.
- The unit must have audible acknowledgement of successful reads and audible signaling of errors. Beep volume shall be adjustable.

g. Internal Time Clock

The data capture devices must have internal clocking to establish the read times for each account.

h. Interface Devices

Route data transfer must be available via WiFi, USB Storage Drive, and Compact Flash.

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**4. Meter Reading Software for the PC**

**a. The proposed system must provide:**

- Communications facilities between the Personal Computer and Madison County Utilities District host data processing facilities will be provided by the utility. The vendor will work with Madison County Utilities District to recommend an appropriate file transfer method.
- A software system for the personal computer that provides functions for interface to the Host mainframe computer.
- Storage and processing of meter reading routes
- Interface to the handheld computers
- Interface to the mobile data collection systems
- Management reports
- Monthly statistical processing
- Graphical user interface
- Automatic Scheduled Processing

**b. Host Mainframe Interface**

A Utility-supplied file transfer program will handle data transfer to and from the CIS system to the proposed system. This file transfer program shall be obtained by the Utility from the Utility Billing Software Provider. If a network drive is accessible to the Personal Computer, the proposed system must be able to transfer the data files to minimize the processing requirements for the Host computer. Vendor's software must be confirmed compatible with the Utility Provided File Transfer Package which is (name of Host File Transfer Package) All communication to and from the utility Host computer must be able to be performed in an automated/unattended mode. Describe the systems support for user scripts that are used for controlling file transfers, error detection, support notification, data investigation and manipulation. The proposed system should support the use and interface to user scripts.

**c. Meter Reading Route Storage and Processing**

The proposed software must format appropriate data files into routes to be read by the communications system. The proposed system must provide the ability to store at least five days of meter reading routes. The system must provide the ability to process these routes and allow for operator decisions for completeness or re-reading of missed meters. Complete operator information must be provided regarding the status of routes, i.e., complete, downloaded, uploaded, partially complete, etc. Complete data backup and restore capabilities are required.

The software must have the capacity to store 10,000 meters per route. Indicate the number of readings that can be stored in a route.

**d. Handheld/Laptop Computer Interface**

The proposed system must provide for complete interface to the reading equipment. Route unloading and loading must be provided either by manual operation or with pre-assigned reading activity. Reading assignments must provide the option for

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assignment by meter reader/reading device for permanent equipment assignments. The communications interface must provide complete status information and provide complete transmission error detection/correction.

**e. Management Reports**

The system must provide management reports to user locations. Specify the management reports available with your system and provide examples. Explain your system's capability to customize existing reports and create new reports.

Specify whether the following reports are available:

- Skip Read Report
- Reading Audit Report
- Trouble Codes/Text Report
- Detailed Route Report
- New Service / Change Meter Report
- Change Information Report
- Special / Meter Reader Message Report
- Survey Report
- Route Status Report
- Route Times Report
- Off-Site Reading Report
- Remote Reading Report
- Optical Probe Summary Report
- Optical Probe Detail Report
- Register Data Report
- Meter Reader Statistics
- Meter Reader Summary
- Mileage Report
- Host Download File Control Totals Report
- Host Upload File Control Totals Report

And for mobile reading:

- Performance summary report
- Missed meter report
- Tamper exception report
- Detailed in-route report
- Detailed out-of-route report
- Communication system maintenance report

**f. Monthly Statistics**

The proposed system must be capable of month-end processing and must keep statistics for meter reading activity of up to twelve months. Monthly reports must be provided to show meter reading activity.

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**g. Graphical User Interface**

The system should utilize a modern user interface, similar to most popular PC office software packages. Help functions should be available. All programs must operate within a multi-level security system that limits access by users for browse and/or update mode.

**h. Automatic Scheduled Processing:**

The proposed system must support appropriate functions for automated processing (no operator required) to allow operations to be scheduled in an unattended mode. Describe this option and the functions supported in this way.

**5. Coverage of Meters**

Madison County Utilities District is interested in providing service to all of its residential, commercial and industrial customers within its service territory, with potential to serve future customers both inside and outside the service territory. The system must be able to remotely read water meters.

The meter modules must also be capable of migrating from reading by handheld computer to Mobile AMR to Fixed Network AMR.

**6. High/Low Range Verification**

The system must have the capability to perform two ranges of HI/LO check functions prior to the reading being accepted. The narrow HI/LO range must require only visual verification of the reading; the wider HI/LO range must require re-entry of the meter number for reading verification.

**E. FCC LICENSES**

The successful bidder will assist Madison County Utilities District toward obtaining licenses and/or permits it needs from the FCC.

**F. PROJECT MANAGEMENT**

The vendor, and its representatives, shall have a proven program of professional project management to ensure successful system installation. Project managers shall be experienced in managing the design, installation and optimization of systems. Project management experience shall include system integration and training support.

Describe your experience in managing systems such as those proposed here. Please include experience in managing systems that include water, gas and electric service.

**G. REFERENCES**

Proposals shall include five references of utilities currently using the proposed AMR system.

END OF SECTION - 220519

# Utility Guarantee for Absolute Encoder Registers for C700, C3000, T3000, T4000, TS4000, F4000 and S2000 Water Meters

## *Scope of Guarantee*

This guarantee applies exclusively to Elster AMCO Water Absolute Encoder Registers manufactured for C700 Positive Displacement Meters, C3000 Compound Meters, T3000/T4000/TS4000 Turbine Meters, F4000 Fire Service Meters and S2000 Single Jet Meters manufactured after February 1, 2008, when used in potable water below 120° F in accordance with Elster AMCO's published Technical Specifications and when installed in accordance with Elster AMCO's published installation instructions, both as in effect as of the date of Elster AMCO's shipment of the product. This guarantee applies exclusively to the original utility purchaser when product is purchased from either Elster AMCO Water or an Elster AMCO Water-authorized distributor ("Business Partner").

## *Materials and Workmanship*

If used and installed as described above, Elster AMCO Water guarantees product covered by this guarantee to be free from defects in materials and workmanship for a period of 12 months after installation or 18 months after shipment by Elster AMCO Water or its authorized Business Partner, whichever occurs first.

## *Register Functionality*

If used and installed as described above, Elster AMCO Water guarantees that Absolute Encoder Registers for C700, C3000, T3000/T4000/TS4000 and S2000 meters will function for 10 years from date of manufacture by Elster AMCO Water, provided register model is appropriate to installation environment as specified by Elster AMCO Water.

## *Claims*

Any meter or register covered by this guarantee that fails to meet the terms of the stated guarantee will be repaired or replaced, at the option of Elster AMCO, without additional charge to the customer. The customer is responsible for removing the meter or register from service, returning it to the factory service center designated by Elster AMCO, providing a written or electronic (facsimile or e-mail) claim notice, and for freight costs to and from the service center. Customer is also responsible for reinstalling repaired or replaced product.

## *Limits of liability*

This guarantee does not apply to meters or registers damaged by aggressive water conditions, foreign matter in water, vandalism, negligence, installation not in accordance with Elster AMCO's installation instructions, mis-application or other use not as described above, acts of God or other conditions beyond the control of Elster AMCO. This guarantee is null and void if a meter is altered by the addition of any register not manufactured by or on behalf of Elster AMCO for its specific model and size.

Any description of product, whether in writing or made orally by Elster AMCO or its agents, specifications, samples, literature, models, bulletins, drawings, diagrams, engineering sheets or similar materials used in connection with any customer's order are for the sole purpose of identifying product and shall not be construed as an express or implied guarantee. Any suggestions by Elster AMCO or its agents regarding use, application or suitability of product shall not be construed as an express or implied guarantee unless confirmed to be such in writing by Elster AMCO.

The laws of the State of Florida, excluding its conflicts of law rules shall exclusively govern this guarantee. If any provision hereof, partly or completely, shall be held invalid or unenforceable, such invalidity or unenforceability shall not affect any other provision or portion hereof and these terms shall be construed as if such invalid or unenforceable provision or portion thereof had never existed.

THE FOREGOING EXPRESS GUARANTEE IS IN LIEU OF ALL OTHER GUARANTEES OR WARRANTIES WHATSOEVER, WHETHER EXPRESS, IMPLIED OR STATUTORY (EXCEPT FOR WARRANTY OF TITLE), INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



CUSTOMER'S EXCLUSIVE REMEDY AND ELSTER AMCO'S AND ITS BUSINESS PARTNERS' SOLE LIABILITY ON ANY CLAIM, WHETHER IN TORT (INCLUDING STRICT LIABILITY), NEGLIGENCE, CONTRACT, WARRANTY OR OTHERWISE, FOR ANY METER OR REGISTER WHICH FAILS TO MEET THE TERMS OF THE GUARANTEE STATED ABOVE, SHALL BE LIMITED TO REPAIR OR REPLACEMENT AS DESCRIBED ABOVE. IN NO EVENT SHALL ELSTER AMCO AND/OR ITS BUSINESS PARTNERS BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS OR REVENUE, LOSS OF USE, COST OF CAPITAL, COST OF SUBSTITUTE EQUIPMENT, FACILITIES OR SERVICES, DOWNTIME COSTS, DELAYS AND CLAIMS OF CUSTOMERS OF THE CUSTOMER OR OTHER THIRD PARTIES.

Elster AMCO Water, Inc.  
PO Box 1852  
Ocala, Florida 34478-1852

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# Utility Guarantee for Itron Water Products

## Scope of Guarantee

This guarantee applies exclusively to Itron's Water Products manufactured for Elster AMCO Water when the products are installed in accordance with Itron's published installation instructions in effect as of the date of Elster AMCO's shipment of the product. This guarantee applies exclusively to the original utility purchaser when product is purchased from either Elster AMCO or an Elster AMCO-authorized distributor ("Business Partner").

## Materials and Workmanship

If used and installed as described above, Elster AMCO guarantees the products covered by this guarantee to be free from defects in materials and workmanship for a period of 14 months after shipment from Itron for the MC2, MC2.5, MC3.0 G5, G5R, FC200, FC200R, FC200SR, CCU5 collector and all associated equipment; radio endpoints for a period of 10 years after shipment from Itron for the integral, remote and pit ERTs and the ERT module battery; and for a period of 5 years after shipment from Itron for the 200W endpoint and endpoint battery.

## Extended Guarantee

Subject to the limitations set forth below, Elster AMCO, will replace any 50-Series or 60-Series ERT module that, after expiration of the full warranty period but before the expiration of the twentieth (20<sup>th</sup>) full year after the date of original product shipment (the "extended warranty period"): fails to perform in accordance with the specifications in effect at the time of original product shipment. The cost of replacement will be pro-rated in accordance with the following table based on the number years of service before failure:

Years of Service	Replacement Cost Percentage
15-Nov	50%
16-20	75%

The cost of replacement will be calculated by multiplying the applicable replacement cost percentage by the 50-Series/60-Series ERT module price in effect at the time of replacement. The defective ERT must be returned to Elster AMCO by the purchaser, freight prepaid; Elster AMCO will pay the freight charges for the return of the replacement to the purchaser.

All costs associated with the removal and/or reinstallation of a defective 50-Series/60-Series module shall be the responsibility of the purchaser. Replacement ERT modules shall be covered for the warranty period remaining on the ERT modules that are replaced.

## Claims

Any meter or register covered by this guarantee that fails to meet the terms of the stated guarantee will be repaired or replaced, at the option of Elster AMCO, without additional charge to the customer. The customer is responsible for removing the meter or register from service, returning it to the factory service center designated by Elster AMCO, providing a written or electronic (facsimile or e-mail) claim notice, and for freight costs to and from the service center. Customer is also responsible for reinstalling repaired or replaced product.

## Limits of Liability

This guarantee does not apply to meters or registers damaged by aggressive water conditions, foreign matter in water, vandalism, negligence, installation not in accordance with Elster AMCO'S installation instructions, mis-application or other use not as described above, acts of God or other conditions beyond the control of Elster AMCO. If a meter is claimed to breach the accuracy guarantees as stated herein, the customer shall submit a certified copy of the test results at the time the meter is returned to Elster AMCO. The guarantees as to accuracy shall be void if an examination of the customer's water supply shows an unusually adverse effect on metering equipment.

Any description of product, whether in writing or made orally by Elster AMCO or its agents, specifications, samples, literature, models, bulletins, drawings, diagrams, engineering sheets or similar materials used in connection with any customer's order are for the sole purpose of identifying product and shall not be construed as an express or implied guarantee. Any suggestions by Elster AMCO or its agents regarding use, application or suitability of product shall not be construed as an express or implied guarantee unless confirmed to be such in writing by Elster AMCO.



The laws of the State of Florida, excluding its conflicts of law rules shall exclusively govern this guarantee. If any provision hereof, partly or completely, shall be held invalid or unenforceable, such invalidity or unenforceability shall not affect any other provision or portion hereof and these terms shall be construed as if such invalid or unenforceable provision or portion thereof had never existed.

THE FOREGOING EXPRESS GUARANTEE IS IN LIEU OF ALL OTHER GUARANTEES OR WARRANTIES WHATSOEVER, WHETHER EXPRESS, IMPLIED OR STATUTORY (EXCEPT FOR WARRANTY OF TITLE), INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

CUSTOMER'S EXCLUSIVE REMEDY AND ELSTER AMCO'S AND ITS BUSINESS PARTNERS' SOLE LIABILITY ON ANY CLAIM, WHETHER IN TORT (INCLUDING STRICT LIABILITY), NEGLIGENCE, CONTRACT, WARRANTY OR OTHERWISE, FOR ANY METER OR REGISTER WHICH FAILS TO MEET THE TERMS OF THE GUARANTEE STATED ABOVE, SHALL BE LIMITED TO REPAIR OR REPLACEMENT AS DESCRIBED ABOVE. IN NO EVENT SHALL ELSTER AMCO AND/OR ITS BUSINESS PARTNERS BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS OR REVENUE, LOSS OF USE, COST OF CAPITAL, COST OF SUBSTITUTE EQUIPMENT, FACILITIES OR SERVICES, DOWNTIME COSTS, DELAYS AND CLAIMS OF CUSTOMERS OF THE CUSTOMER OR OTHER THIRD PARTIES.



## Utility Guarantee for Waterworks or Low-Lead Bronze Case C700 Water Meters

### Scope of Guarantee

This guarantee applies exclusively to Elster AMCO Water waterworks or low-lead bronze case C700 water meters and direct read or generator registers purchased therewith shipped on or after July 1, 2007, when used in potable water below 120° F in accordance with Elster AMCO'S published Technical Specifications and when installed in accordance with ELSTER AMCO'S published installation instructions, both as in effect as of the date of Elster AMCO'S shipment of the product. This guarantee applies exclusively to the original utility purchaser when product is purchased from either Elster AMCO or an Elster AMCO authorized distributor ("Business Partner").

### Materials and Workmanship

If used and installed as described above, Elster AMCO guarantees product covered by this guarantee to be free from defects in materials and workmanship for a period of 12 months after installation or 18 months after shipment by Elster AMCO or its authorized Business Partner, whichever occurs first.

### Case Integrity

If used and installed as described above, Elster AMCO guarantees that the waterworks or low lead bronze main cases of C700 meters will retain their structural integrity for a period of 25 years from date of Elster AMCO'S shipment.

### Register Functionality

If used and installed as described above, Elster AMCO guarantees that its direct read registers will function for 25 years from date of manufacture by Elster AMCO, and guarantees that its pulse generator registers will function for 15 years from date of manufacture by Elster AMCO, provided they are installed indoors and not subjected to flooding during the guarantee term. Encoder and Digital register warranties are specified separately, in Elster AMCO's documents Enc-UG-200 and Dig-UG-200, respectively.

### New Meter Accuracy

If used and installed as described above, Elster AMCO guarantees that C700 meters covered by this guarantee will meet or exceed AWWA new meter accuracy standards, per AWWA specification C700-02, until the first occurring event as specified below:

- 5/8" 5 years from date of Elster AMCO shipment or registered usage of 750,000 U.S. gallons;
- 3/4" 5 years from date of Elster AMCO shipment or registered usage of 750,000 U.S. gallons;
- 1" 5 years from date of Elster AMCO shipment or registered usage of 1,100,000 U.S. gallons;
- 1 1/2" 5 years from date of Elster AMCO shipment or registered usage of 1,600,000 U.S. gallons;
- 2" 5 years from date of Elster AMCO shipment or registered usage of 2,100,000 U.S. gallons;

### Repaired Meter Accuracy

If used and installed as described above, Elster AMCO further guarantees that C700 meters covered by this guarantee will meet or exceed repaired meter accuracy standards, as published in AWWA Manual M-6 Fourth Edition (1999), Chapter 5, Table 5.3, until the first occurring event as specified below:

- 5/8" 15 years from date of Elster AMCO shipment or registered usage of 2,500,000 U.S. gallons;
- 3/4" 15 years from date of Elster AMCO shipment or registered usage of 2,500,000 U.S. gallons;
- 1" 15 years from date of Elster AMCO shipment or registered usage of 3,250,000 U.S. gallons;
- 1 1/2" 15 years from date of Elster AMCO shipment or registered usage of 5,600,000 U.S. gallons;
- 2" 15 years from date of Elster AMCO shipment or registered usage of 10,400,000 U.S. gallons.

### Extended Low Flow Accuracy

If used and installed as described above, Elster AMCO further guarantees that C700 meters covered by this guarantee will meet or exceed low flow accuracy, as specified in AWWA Specification C700-02, until the first occurring event as specified below:

- 5/8" 5 years from date of Elster AMCO shipment or registered usage of 675,000 U.S. gallon;
- 3/4" 5 years from date of Elster AMCO shipment or registered usage of 675,000 U.S. gallons;
- 1" 5 years from date of Elster AMCO shipment or registered usage of 1,100,000 U.S. gallons;
- 1 1/2" 5 years from date of Elster AMCO shipment or registered usage of 1,440,000 U.S. gallons;
- 2" 5 years from date of Elster AMCO shipment or registered usage of 1,890,000 U.S. gallons.



#### Claims

Any meter or register covered by this guarantee that fails to meet the terms of the stated guarantee will be repaired or replaced, at the option of Elster AMCO, without additional charge to the customer. The customer is responsible for removing the meter or register from service, returning it to the factory service center designated by Elster AMCO, providing a written or electronic (facsimile or e-mail) claim notice, and for freight costs to and from the service center. Customer is also responsible for reinstalling repaired or replaced product.

#### Limits of Liability

This guarantee does not apply to meters or registers damaged by aggressive water conditions, foreign matter in water, vandalism, negligence, installation not in accordance with Elster AMCO'S installation instructions, mis-application or other use not as described above, acts of God or other conditions beyond the control of Elster AMCO. This guarantee is null and void if a meter is altered by the addition of any register not manufactured by or on behalf of Elster AMCO for its specific model and size. If a meter is claimed to breach the accuracy guarantees as stated herein, the customer shall submit a certified copy of the test results at the time the meter is returned to Elster AMCO. The guarantees as to accuracy shall be void if an examination of the customer's water supply shows an unusually adverse effect on metering equipment.

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Elster AMCO Water, Inc  
PO Box 1852  
Ocala, Florida 34478-1852

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