



Utility Committee Meeting

AGENDA

March 2, 2010

I. CALL TO ORDER

II. MATTERS BEFORE COMMITTEE

1. [Discussion / Approval - Install Variable Frequency Drive on High Service Pump](#)
2. [Discussion / Approval - Municipal Competitive Trust Voluntary Deposits](#)
3. [Discussion / Approval - Lowside Sale at #2 and #3 Substations](#)

III. ADJOURN



Utility Committee Meeting

AGENDA

March 2, 2010

Item:

Discussion / Approval - Install Variable Frequency Drive on High Service Pump

Department:**Additional Information:****Financial Impact:****Budgeted Item:****Recommendation / Request:**

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download

 [Variable Frequency Drive Quotes](#)

Emerson Industrial Automation
Control Techniques Americas LLC
5580 Enterprise Parkway
Fort Myers, FL 33905
Phone: (800) 533-0031
Fax: (239) 693-2431
www.emersonct.com

Quotation

Customer: Rome Electric Motor Works
0
0
Rome, GA
Attn: Bill Bowling
0

Quote# 100217-MAA-01A-Rome-150hp-ND-N12 **Email Address**

Valid For: 30 days

Date: 2/19/2010

Distributor: Direct

Quoted By: Mike Allenbach

Phone: 0

Project: NEMA12 ND/VT - 150hp



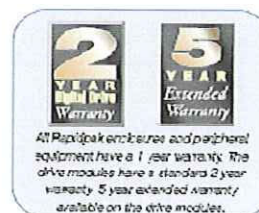
Quantity	Part #	Net Price Each	Extended NET
1	RSSKN41505E1-4	\$12,663.30	\$12,663.30

Drive & Enclosure Description

- Commander SK Series AC Variable Frequency Drive
- Normal Duty Rated - 110% Current for 1 Minute
- Nominal Input Line Voltage: 460VAC
- 150 HP; Output Current: 202 Amps Continuous
- Slimline Type, Nema 12 Ventilated Enclosure; UL508A Approved
- Dimensions (HxWxD) (inches) : 90x36x20
- Free CTSoft Configuration Software

Power & Control Options

- Drive Input Line Fusing
- 120VAC Control Power Transformer, Fused Primary & Secondary
- Input Power Connection: Circuit Breaker Disconnect
- Keypad Location: Keypad on Door (LED for SK)
- No Input Line Reactor
- No Output Reactor
- Auto 3-Contactor Bypass
- Option#5 - HOA SS Plus Bypass



ELECTRICAL / MECHANICAL**MAINTENANCE / CONSTRUCTION SERVICES**

PMC Enterprises, Inc.
240 Industrial Park Drive
P.O. Box 1276
Forsyth, GA 31029
USA
Phone: 478-994-2848
Fax: 478-994-6857

Quote

Number: P10561E

Date: 12/2/2009

To

City of Monroe
P.O. Box 1249
Monroe, GA 30655

Quote To

Harry Kibe
City of Monroe
215 North Broad Street
Monroe, GA 30655

Ph: (770) 267-7536

Fax: (770) 267-2319

Ph: (770) 266-5402 Ext:

Fax: (770) 266-5403

Terms	Ship Via	Quote Expiration Date	Quoted By	Salesperson
Net 30	Our Truck	Wednesday, December 30, 2009	Pete Regula	
Quantity	Description		Unit Price	Amount
	Reference Install VFD on "Old No.1 Constant Speed High Service Pump IN REPLY TO YOUR INQUIRY, WE ARE PLEASED TO QUOTE AS FOLLOWS.			

Provide labor and materials to install one 150 Horsepower Variable Frequency Drive on the "Old No.1 Constant Speed Split Case High Service Pump."

Note:

1. Contractor to install VFD at the existing motor control station MCCB2 / HSPA-1.
2. Contractor to install conduit from MCC to adjacent SCADA cabinet and provide control or alarm points to be terminated by J.K.Durden Inc. To existing Scada system.
3. Existing replaced materials (softstart / contactors / fuse block) to be retained by customer.

Materials: \$11,047.50

Labor: \$2,240.00

Services: \$0.00

Additional Charges: \$240.00

Tax Rate: 0.00%

Material Tax: \$0.00

Labor Tax: \$0.00

1 Each \$13,527.5000 Each

THANK YOU FOR THE OPPORTUNITY TO QUOTE, PLEASE CALL 1-800-727-1762 IF YOU HAVE ANY QUESTIONS.

Total: \$13,527.50


<http://www.jmbaker.com>

	Baker Technical Services 450 Satellite Blvd., NE Suite M Suwanee, GA 30024 Phone: 770-904-2870 Fax: 770-904-2873		Quote #: 100123
	David Adkinson City of Monroe - Water Plant P.O Box 725 Monroe, GA 30655	Phone: (770) 266-5350 Fax: 770-266-5403 Email: ✓ dwadkinson@monroega.gov Location: HSPA-1	Date: 2/1/2010 Rep.: Kathy Baker Quote Expires 30 days from issue date above

Item	Qty.	Description	Total
1	1 ea.	150 HP Teco Westinghouse VFD, 480 VAC, with Manual bypass, electronic speed signal, NEMA 12 Enclosure. Includes installation, parts, labor, start-up, 3 year factory warranty.	\$26,268 .00
Shipping & Handling Taxes			Ground Included N/A
TOTAL			\$26,268 .00

Approval: _____ PO #: _____

Start, stop, and speed signal by Scada provider.

Service/Delivery to be completed ASAP based on factory delivery and availability at time of order – approx. 4-6 weeks. All work to be completed during normal business hours. After hours labor to be scheduled and billed separately. On-site work delays/waiting may incur additional charges for labor. Control system diagnostics and repairs not included.

Terms: Net 30 days with approved credit and written Purchase Order – or use VISA/ Mastercard/ American Express/ Discover.

Terms of Sale: All prices are f.o.b. Seller's shipping point unless otherwise stated. Buyer shall pay all expenses from time of shipment including, but not limited to freight, trucking, handling, storage, and insurance. The Buyer will reimburse Seller for any of such expenses beyond the shipping point. Labor and diagnostics not included in warranty claims unless otherwise specified. Claims of warranty that are not approved by manufacturer are not supported by Baker Technical Services. Warranty of parts by manufacturer. Electrical surges, lightning or any other externally generated damage or misuse not included in warranty. Seller may pay all sales, use and excise taxes, custom duties, and other taxes levied on Seller or Buyer in connection with this sale are Buyer's obligation. Special order items and equipment placed into service cannot be returned. A restocking fee will apply. See return policy for complete details. Accounts that are not paid within terms are subject to interest charges.

Thank you for the opportunity to provide this quote.

Jim Baker



Utility Committee Meeting

AGENDA

March 2, 2010

Item:

Discussion / Approval - Municipal Competitive Trust Voluntary Deposits

Department:

Additional Information:

Financial Impact:

Budgeted Item:

Recommendation / Request:

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Attachments / click to download

 [Municipal Competitive Trust Voluntary Deposits Info](#)



To: **Brian Thompson**
Director of Communications
City of Monroe

From: **Mary G. Jackson**

Date: **December 8, 2009**

Subject: **Voluntary Deposits into the Municipal Competitive Trust**

On an annual basis, and more frequently if desired, each Participant has the opportunity to voluntarily deposit funds into the Municipal Competitive Trust. For your convenience, MEAG Power will include an amount as a line item on your monthly Power Supply bill and then deposit same amount into the Trust account(s) and investment option(s) that you have selected.

The authorization for these actions must be in writing and requires two authorized signatures.

Enclosed with this letter is the election form to designate the amount of the deposits and the Trust account(s) selected to receive the funds.

In addition, each year you have the opportunity to designate the disposition of your off-system energy sales margins. We have an "evergreen election" on file for your off-system sales. Your off-systems sales margins will be **deposited into the short term portfolio of your flexible operating account in the Municipal Competitive Trust**. If you wish to change this election, please contact me at the phone number below.

Please return the attached election form by January 30, 2010 if you wish to exercise the voluntary payment option beginning with the Power Supply billings for January 2010.

If you have any questions, please call me at (770) 563-0510 or contact your Regional Manager.

Enclosure

c: w/enclosures

Scott Jones
John Giles
Stuart Jones
Paul Warfel

Municipal Electric Authority of Georgia
1470 Riveredge Parkway, NW
Atlanta, Georgia 30328-4686

1-800-333-MEAG
Fax 770-953-3141

Item # 2

City of Monroe

ELECTION FOR PARTICIPANT DIRECTED VOLUNTARY DEPOSITS INTO THE MUNICIPAL COMPETITIVE TRUST FOR THE YEAR 2010

Please add \$_____ per month to my MEAG Power 2010 Power Supply billings and deposit such amount to the following accounts beginning the month of_____, 2010.

Flexible Operating Account, Short Term Portfolio \$_____

Flexible Operating Account, Intermediate Term Portfolio \$_____

New Generation and Capacity Funding Account, Short Term Portfolio ⁽¹⁾ \$_____

New Generation and Capacity Funding Account, Intermediate Term Portfolio ⁽¹⁾ \$_____

⁽¹⁾ **As defined in the Second Replacement Amendment to the Municipal Competitive Trust**

By: _____
The Honorable Greg Thompson
Mayor of Monroe

By: _____
Julian Jackson
City Administrator

Date: _____ Date: _____

Please return this election form by January 30, 2010 to:

MEAG Power
c/o Mary G. Jackson
Senior Vice President and Chief Accounting Officer
1470 Riveredge Parkway NW
Atlanta, GA 30328
Phone: 770-563-0510
Fax: 770-563-0014



Utility Committee Meeting

AGENDA

March 2, 2010

Item:

Discussion / Approval - Lowside Sale at #2 and #3 Substations

Department:

Additional Information:

Financial Impact:

Budgeted Item:

Recommendation / Request:

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 [Lowside Proposal](#)

February 22, 2010

Mr. Brian Thompson
Electric, CATV & Internet Ops.
City of Monroe
215 North Broad Street,
Monroe, Georgia 30655

RE: LOWSIDE PURCHASE OF MONROE #2 AND MONROE #3 SUBSTATIONS

Dear Brian:

Per your request, I am writing to clarify the conditions for MEAG Power to purchase your low side facilities at Monroe #2 and Monroe #3 substations. The proposed purchase price is \$221,346 for the low sides at Monroe # 2 (not including substation land), and \$169,551 for the low sides at Monroe #3. Please see Attachment A & B for your information. The City of Monroe has decided to quit-claim the Monroe #2 substation land to MEAG at zero cost. Note that if MEAG ever sells the land back to the city, it would transfer back at zero cost also.

Please let us know if you would prefer to sell any of the equipment listed in Attachment A & B to another utility or private company. It is possible you may receive potentially more value than the depreciated value that is shown, especially for much older equipment since it is depreciated on a 30-year straight line basis. If you decide to do such, and therefore would replace these items with newer items (either used, rebuilt, or brand new), MEAG will purchase the newer items once they are installed providing that they meet the general requirements for low side purchase. Please let us know if you decide to go this route so we can make sure the equipment that you are using is based on our standards if possible. If not, MEAG will evaluate the existing equipment for upgrade or replacement and schedule in accordance with other existing projects or available resources

The current attached proposal assumes that the purchase will be completed by **March 31, 2010**. If we miss this date significantly, the estimate may need to be adjusted accordingly. If everything goes as expected, MEAG will formally own Monroe #2 and Monroe #3 low sides starting from **April 1, 2010**.

Other requirements for MEAG Power to purchase the low sides include all oil-filled equipment to be certified as non-PCB (Attachment C). The vintage of newer equipment may be such that it is labeled as "PCB-Free" at time of manufacture. Equipment that does not have this designation must be tested with a gas chromatograph test by a recognized laboratory and certified as Non-PCB on a test sheet with the equipment's serial number. PCB content must be less than **45 ppm** to be considered Non-PCB by MEAG because the test has an accuracy of plus or minus 10 %. After receiving appropriate test results for a "Non-PCB" classification, the equipment should be labeled as such.

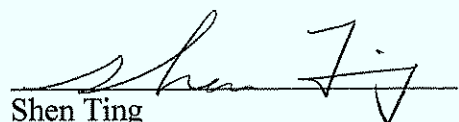
If a piece of equipment has test results that exceed this designation, it must be retro-filled, energized for 90 days, and re-tested. This process must be repeated until the desired results are achieved. If you choose to replace the PCB-Contaminated equipment prior to the sale, it would be in the City's best interest to hire only a contractor qualified for this type of work. The purchase price will be adjusted according to the equipment you install as replacements, and labor associated with these replacements within reasonable limits.

Once the ownership of the lowside equipment has been transferred to MEAG, there are a few things to note. You will be responsible for selecting an O & M contractor from a list of MEAG approved contractors to maintain the lowside equipment to MEAG's specifications. The default contractor if you do not make a choice is Georgia Power Company. This choice of lowside maintenance contractor must be made every year. The required work to maintain the equipment is competitively bid every year. MEAG will call you with the results of these bids to allow you to choose from the list of contractors. This is important because it impacts your lowside charge for each feeder. The maintenance is only one of the components that make up your lowside charge. The current maintenance portion tends to be between \$125 and \$250/feeder/month depending on the contractor you select. Other components of the monthly charge include Investment and Operation. Attachment D describes each of the components. We can discuss this in further detail at any time. **The current total cost per feeder per month is approximately \$500 to \$700.**

Another significant change is that you must follow all Red Book procedures when operating both the lowside and highside equipment. It is MEAG's intention that you must be a MEAG Power Substation Lowside Qualified Operator to operate any MEAG owned lowside equipment effective 2010. You must be an ITS Qualified Operator and contact the Georgia Control Center (GCC) for switching orders when operating highside or the first lowside device below the power transformer. Georgia Power is MEAG's contractor to maintain the highside and the first lowside disconnect devices. .

Please call if you have any questions, or wish to discuss further. **If you wish to proceed with this proposal, we generally would need a copy of The City Council meeting minutes authorizing the sale as described, and certified by The City clerk. The City Council also needs to pass a resolution to authorize a person for representing your city to execute any and all documents necessary to complete the sale.**

Sincerely,



Shen Ting
Sr. Engineer, Transmission Area Planning

MEAG PROPOSAL TO BUY LOWSIDE EQUIPMENT AT THE MONROE #2 SUBSTATION

ATTACHMENT A

Proposed date to complete:

31-Mar-10

QTY	DESCRIPTION	VINTAGE	ORIG. COST EACH	ENGINEERING, OVERHEAD, LABOR, ETC.	TOTAL ITEM COST	TOTAL ITEM DEPRECIATED VALUE
Feeder # 1						
1	SIEMENS SDV6 Type 1200 A 15.5 kV VCB & Relays	01-Jul-07	\$21,972	\$14,648	\$36,620	\$33,262
3	SIEMENS 333 kVA Voltage Regulators	01-May-93	\$8,350	\$5,567	\$41,750	\$18,195
Feeder # 2						
1	SIEMENS VS-2006 Type 1200 A 15.5 kV VCB & Relays	01-Jul-93	\$19,000	\$12,667	\$31,667	\$13,977
3	SIEMENS 333 kVA Voltage Regulators	01-Jul-93	\$8,350	\$5,567	\$41,750	\$18,427
Feeder # 3						
1	SIEMENS VS-2006 Type 1200 A 15.5 kV VCB & Relays	01-Jul-93	\$19,000	\$12,667	\$31,667	\$13,977
3	SIEMENS 333 kVA Voltage Regulators	01-Jul-93	\$8,350	\$5,567	\$41,750	\$18,427
Feeder # 4						
1	SIEMENS VS-2006 Type 1200 A 15.5 kV VCB & Relays	01-Jul-93	\$19,000	\$12,667	\$31,667	\$13,977
3	SIEMENS 333 kVA Voltage Regulators	01-Jul-93	\$8,350	\$5,567	\$41,750	\$18,427
Feeder # 5						
1	SIEMENS VS-2006 Type 1200 A 15.5 kV VCB & Relays	01-Jul-93	\$19,000	\$12,667	\$31,667	\$13,977
3	SIEMENS 333 kVA Voltage Regulators	01-Jul-93	\$8,350	\$5,567	\$41,750	\$18,427
1	Feeder structure, bus, steel, foundation, switches, insulators, station service transformer, etc.				\$40,273	\$40,273
1	Land (Quit-claim to MEAG at zero cost)				\$0	\$0
TOTAL FOR # 2					\$412,310	\$221,346

MEAG PROPOSAL TO BUY LOWSIDE EQUIPMENT AT THE MONROE #3 SUBSTATION

ATTACHMENT B

Proposed date to complete:

31-Mar-10

QTY	DESCRIPTION	VINTAGE	ORIG. COST EACH	ENGINEERING, OVERHEAD, LABOR, ETC.	TOTAL ITEM COST	TOTAL ITEM DEPRECIATED VALUE
Feeder # M1812						
1	SIEMENS SDV4A Type 1200 A 15.5 kV VCB & Relays	01-Jul-06	\$21,039	\$14,026	\$35,065	\$30,681
3	SIEMENS 333 kVA Voltage Regulators	01-Mar-06	\$9,968	\$6,645	\$49,840	\$43,054
Feeder # M1822						
1	SIEMENS VS-2006 Type 1200 A 15.5 kV VCB & Relays	01-Jul-93	\$19,000	\$12,667	\$31,667	\$13,977
3	SIEMENS 333 kVA Voltage Regulators	01-Mar-93	\$8,350	\$5,567	\$41,750	\$17,962
Feeder # M1832						
1	SIEMENS VS-2006 Type 1200 A 15.5 kV VCB & Relays	01-Jul-93	\$19,000	\$12,667	\$31,667	\$13,977
3	SIEMENS 333 kVA Voltage Regulators	01-Mar-93	\$8,350	\$5,567	\$41,750	\$17,962
Feeder # M1842						
1	SIEMENS VS-2006 Type 1200 A 15.5 kV VCB & Relays	01-Jul-93	\$19,000	\$12,667	\$31,667	\$13,977
3	SIEMENS 333 kVA Voltage Regulators	01-Mar-93	\$8,350	\$5,567	\$41,750	\$17,962
TOTAL FOR # 3					\$305,155	\$169,551

ATTACHMENT C

Lowside Purchase Requirements

All lowside oil-filled equipment must be certified Non-PCB by a gas chromatograph test through a certified lab.

Certain vintage equipment was manufactured without PCB's, and usually will be included with a sticker indicating "PCB-free at time of manufacture". If the equipment has this sticker, or the factory can verify by serial number that it was manufactured without PCB's, it may not require testing. Due to contamination by filter presses, addition of PCB oil, etc. it is usually safer to test the equipment.

PCB content must be less than 45 ppm to be considered Non-PCB because test has an accuracy of plus or minus 10 %.

Test results will include equipment's serial number, usually stamped into the metal of the base or another part of the equipment. The serial number for regulators should not be taken from the control panel because many times control panels are swapped.

After satisfactory test results, the equipment should be labeled with stickers indicating that it was tested and was found to be "Non-PCB". Records of this testing and the results should be kept by the owner of the equipment.

If equipment is found to be "PCB-Contaminated", meaning its PCB concentration fell between 45 and 499 ppm, the owner may choose to retrofit the equipment. A well done retrofit should reduce the PCB concentration to at least 10 % of the original test value. Additional retrofits may further reduce the PCB concentration, but not as significantly, if the desired results are not obtained with a single retrofit.

A retrofitted piece of equipment is required to be energized for a period of 90 days before it can be retested and reclassified.

Original cost data for the equipment is useful for making a lowside purchase proposal, but is not necessary. MEAG will estimate the original cost based on the serial number, and include a figure for the engineering, overhead, labor to install, etc.

A minimum five year maintenance history is useful, but is not required.

The cost of the lowsides is based on a 30 year straight line method of depreciation. If the maintenance history is poor, MEAG will usually discount the proposed price by a percentage to reflect this.

A lowside purchase includes the breaker, regulators (if applicable), and switches.

MEAG will purchase the land from the Participant at its original cost only. The Participant must document actual dollars paid for the property for us to pay them. If unable to provide documentation they can choose to "quit claim" the property to MEAG.

ATTACHMENT D

OPTIONS FOR OWNERSHIP OF LOWSIDE EQUIPMENT

Lowside equipment is defined as regulators, breakers, and lowside switches. All other facilities such as the highside and lowside bus, fence, ground grid, etc. are allocated to all of the Participants in their Monthly Transmission Charge.

OWNERSHIP

- Either City or MEAG owned
- MEAG policy is to change ownership when the City desires a change
- Price of purchase/sale based on original cost depreciated over 30 years - straight line method. Equipment may be further depreciated based on condition, lack of maintenance, etc.

MAINTENANCE

- MEAG-owned - must be maintained to MEAG specifications effective 1/1/93 regardless of who does the maintenance.
- Default contractor for MEAG equipment is Georgia Power. The City may choose another maintenance contractor from MEAG's approved contractor list.
- Current maintenance cost is approximately \$125 to \$250/feeder/month. This may be avoided if the City does the maintenance themselves.
- If the City does the maintenance, the City must assume all lowside operation and maintenance responsibilities - including emergency services - because Georgia Power is not obligated to operate what they do not maintain.
- Replacement equipment/parts available from ITS stocks.

INVESTMENT

- Approximately \$325/feeder/month for MEAG-owned lowsides. Based on MEAG's average cost to own a breaker, set of regulators and switches.

OPERATION

- Routine or emergency operation by GPC invoiced on a per occurrence basis.
- GPC not required by contract to operate lowsides they do not maintain.
- City required to follow all Red Book procedures when operating lowsides, except contacting the System Operator for switching instructions.