

**CITY OF MONROE
PUBLIC ENTERPRISE COMMITTEE
300 W. CROWELL STREET, MONROE, NC 28112
MONDAY, APRIL 3, 2023 - 3:00 PM
AGENDA
www.monroenc.org**

1. Public Enterprise Committee Meeting Minutes of March 7, 2023
2. Information Regarding a Noise Ordinance Item
3. Downtown Electric Upgrade Project
4. Purchase of Two DH50 Digger Derrick Trucks
5. Airport Substation T1 Load Tap Changer
6. Budget Amendment for Collections System Monitoring Technology
7. Union County/City of Monroe Agreement Information
8. Contract Award - 2023 Sanitary Sewer CIPP Rehabilitation
9. DOE Grid Resilience Grant Application with Electricities

Public Enterprise Committee Minutes
March 7, 2023
City Hall Conference Room
4:00 p.m.

Members Present: Council Member Freddie Gordon (Chair), Council Member James Kerr,
Council Member Julie Thompson

Staff: Scott Clark, Robert Miller, Sarah McAllister, Md Kamrul Huda, Richard
Riser, Lisa Strickland, Cathy Nance, Veronica Dario

Guest: Ashley Shiwarski from HomeServe

Council Member Freddie Gordon called the March 7, 2023 Public Enterprise Committee meeting to order at 4 p.m.

Item #1: Adoption of Minutes of the Meeting

Recommendation:

Council Member Freddie Gordon asked if anyone would like to make a motion that the minutes of the February 7, 2023 Public Enterprise Committee be approved.

Motion: Adopt February 7, 2023 PEC Meeting Minutes

Motion made by: Council Member Julie Thompson

Second: Council Member James Kerr

Voting: **In Favor** - Council Member James Kerr, Council Member Freddie Gordon,
Council Member Julie Thompson

Opposed – None

Action: Motion adopted

Item #2. National League of Cities Service Line Warranty Program

Recommendation:

Informational only. No recommendation required.

Presentation and Discussion:

Scott Clark, Director of Water Resources, offered a presentation given by Ashley Shiwarski of HomeServe regarding their Service Line Warranty Program (slides were provided on PowerPoint presentation) for informational purposes only. She explained that HomeServe is the only service line program endorsed by the National League of Cities and it partners with over 1100 cities and/or utilities throughout the United States, including twenty-three (23) in North Carolina. She said HomeServe is a warranty program that offers homeowner various coverage repair protection programs for Interior Electric, Gas Line, Water Heater, Heating System and Cooling and explained the different programs and rates offered to the City residents for the coverage. They will provide a free Public Awareness Campaign to educate homeowners on their lateral line responsibilities. She also explained that this would be at no cost to the municipality/utility to participate and the City receives 10% of the premiums collected back in form of a royalty each January in return for the partnership.

Item #3: Stormwater Plan Review Services

Recommendation:

Staff recommends the Public Enterprise Committee provide a positive recommendation to City Council for (1) additional services required for stormwater plan review and (2) authorization of the City Manager to execute the change order. If the Public Enterprise Committee is in agreement, this item will be placed on the consent agenda for consideration by City Council at the next meeting on March 14, 2023.

Presentation and Discussion:

Sarah McAllister, Director of Engineering, indicated that Engineering entered into a contract with LaBella Associates in October 2022 for construction plan review for new commercial and residential development plans to ensure compliance with the Stormwater Management Ordinance (Chapter 159) and the City of Monroe's Standard Specifications and Detail Manual. The contract was for review of services to be provided over the next four years at \$20,000.00 per year. LaBella's services were used to supplement Stormwater Staff's review function while a few key positions were trying to be filled. She pointed out that the Stormwater Engineering Supervisor position was vacant for over eight months and the Stormwater Civil Engineer I position has been vacant for over a year. In addition, the volume of plan reviews has increased during that time. In January 2023, a change order was issued to LaBella to increase this fiscal year's amount by \$19,000.00. However, due to the vacancies and amount of reviews needed, there is currently a backlog of plan reviews needed. Staff would like to provide LaBelle with an additional change order for this fiscal year in the amount of \$21,000.00 so that they can continue to assist with plan reviews. With the multi-year contract and the previous change order, this would bring the total contract amount to \$120,000.00. Therefore, Council's authorization is needed.

Chairman Gordon deferred to Lisa Strickland, Finance Director, who indicated there were adequate funds in the Stormwater's budget to cover this expenditure. He also asked Lisa Strickland if a motion was needed to place on Consent agenda and she said yes.

Motion: Motion to accept this item for approval of the LaBella change order for additional engineering services to be placed on the next meeting on March 14, 2023.

Motion made by: Committee Member James Kerr

Second: Council Member Julie Thompson

Voting: **In Favor** - Council Member James Kerr, Council Member Freddie Gordon and Council Member Julie Thompson

Opposed - None

Action: Motion adopted

Item #4: 120 Water Software for Upcoming Lead and Copper Rule Revisions

Recommendation:

Informational only. No recommendation required.

Presentation and Discussion:

Scott Clark, Director of Water Resources, provided information on a new software that will be utilized to ensure compliance with the EPA's upcoming Lead and Copper Rule Revisions. He explained that the Environmental Protection Agency (EPA) is requiring water systems to identify and make public the locations of lead service lines. Water systems are required to conduct a thorough audit of all service lines to our customers. The audit must be completed and submitted to the EPA by October 16, 2024. The software will enhance the efficiency and reduce the amount of service lines staff will have to physically

verify. The EPA requires water systems to communicate with customers on the necessary steps for the audit and plan to place them if a lead service line is identified. He showed a PowerPoint presentation of the 120 Water Monroe Plan for Compliance.

Chairman Gordon asked if there were any questions. There were none.

Item #5: Old Charlotte Ave and Williams Rd Utility Relocation/Adjustment Agreement with NCDOT

Recommendation:

Staff recommends that the Public Enterprise Committee makes a motion to recommend the agreement with NCDOT for cost sharing of the utility relocation associated with the Old Charlotte Avenue and Williams Road intersection improvements for an estimated cost of \$8,600.00 be brought before City Council for approval.

Presentation and Discussion:

Scott Clark, Director of Water Resources, indicated that NCDOT is in the process of completing design and construction effort for turn lanes and signalization of the Old Charlotte Avenue and Williams Road intersection. As part of this project, the NCDOT will be installing storm water drainage facilities and paving activities that will impact existing City of Monroe water and sewer facilities. The impact requires that these water and sewer facilities be moved or adjusted to allow for the NCDOT construction. The present State of North Carolina law provides for cost sharing of construction cost for municipalities and based upon population. At this time the population of Monroe is below 50,000, so that provides for a 25% cost share for the City of Monroe. He noted that Staff has coordinated review of design for the utility relocation and adjustments and are agreeable with the units and unit prices used to establish the estimated cost of construction. The total estimated cost to the City of Monroe has been established at \$8,600.00. Actual cost will be based upon completed cost of construction. Staff feels this is reasonable based upon the estimated cost of the project.

Chairman Gordon asked if there were any questions. There were none.

Motion:

Motion to recommend the agreement with the NCDOT for cost sharing of the utility relocation associated with the Old Charlotte Ave. and Williams Rd. intersection improvements for an estimated cost of \$8,600.00 be brought before the full council for approval.

Motion made by:

Council Member Julie Thompson

Second:

Council Member James Kerr

Voting:

In Favor - Council Member James Kerr, Council Member Freddie Gordon and Council Member Julie Thompson

Opposed – None

Action:

Motion adopted

Item #6: John Glenn WTP Taste and Odor Study

Recommendation:

Water Resources staff request the Public Enterprise Committee approve the budget amendment and that the taste and odor study contract in the amount of \$155,000.00 be placed on the consent agenda for the March 14, 2023 Council Meeting, and authorize the City Manager to execute all documents.

Presentation and Discussion:

Scott Clark, Director of Water Resources, indicated that in order to combat taste and odor issues in the City of Monroe water system, a taste and odor study is being proposed to determine probable causes, provide for immediate actions that can be taken to overcome these issues in the short term, and define long term fixes. The taste and odor study will include sampling of Lake Twitty, the source water for the John Glenn WTP, as well as sampling and testing of the WTP processes and materials used in those treatment processes. This is time sensitive due to the natural cycle of Lake Twitty. Black & Veatch has previously conducted taste and odor studies for the City of Monroe. They have also completed many upgrade project designs for the City. They perhaps have the most thorough knowledge of the workings of the City of Monroe WTP and are leader in the industry when it comes to water treatment process designs. Staff has negotiated with Black & Veatch to perform the required services. The total not-to-exceed costs has been established as \$149,980.00. Staff feels this is reasonable based upon the uniqueness and complexity of the undertaking.

Chairman Gordon asked if a motion was required and Lisa Strickland said yes. She indicated she needed a combined motion to take the money from the water fund and for authorization to sign the contract.

Motion: Motion to approve the budget amendment in the amount of \$155,000.00 and the contract to be placed on the consent agenda for the March 14, 2023 Council meeting, and to authorize the City Manager to execute all documents.

Motion made by: Council Member Julie Thompson

Second: Council Member James Kerr

Voting: **In Favor** - Council Member James Kerr, Council Member Freddie Gordon and Council Member Julie Thompson

Action: **Opposed – None**
Motion adopted

Item #7: Water Treatment Plant Generator

Recommendation:
Water Resources staff request the Public Enterprise Committee approve the item to purchase a new generator for the water treatment plant to be placed on the consent agenda of the March 14, 2023 Council Meeting, and authorize the City Manager to execute all documents.

Presentation and Discussion:
Scott Clark, Director of Water Resources, indicated that a 750 kW diesel generator is needed in the John Glenn Water Treatment Plant to enhance the overall system resiliency and reliability for customers in the event of a lengthy power outage. A sum of \$250,000 was budgeted in the current fiscal year for a 500kW generator, but upon research it was determined that a 750kW generator is needed. Three quotes were received and Cummings Sales and Services came back as the lowest at \$247,691.08 for a 750kW generator.

Motion: Motion to approve the item to be placed on the consent agenda for the March 14, 2023 Council meeting in the amount of \$247,691.08 and to authorize the City Manager to execute all documents.

Motion made by: Council Member James Kerr

Second: Council Member Julie Thompson

Voting: **In Favor** - Council Member James Kerr, Council Member Freddie Gordon and Council Member Julie Thompson

Action: **Opposed – None**
Motion adopted

Item #8: Other

Council Member Gordon asked if there was any other business to discuss. There was none.

Council member Julie Thompson made the motion to adjourn. Council Member James Kerr seconded the motion.

Recommendation: Adjourn the meeting at 4:56 p.m.

Motion: Adjourn the Public Enterprise Committee meeting

Motion made by: Council Member Julie Thompson

Second: Council Member James Kerr

Voting: **In Favor:** Council Member Julie Thompson, Council Member James Kerr,
Council Member Freddie Gordon.

Opposed – None

Action: Motion adopted

There being no further business, the meeting adjourned at 4:56 p.m.

Freddie Gordon, Chair

Next Meeting- April 4, 2023 at 4:00 p.m.



STAFF REPORT

TO: Public Enterprise Committee
VIA: Mark Watson, City Manager
DATE: April 3, 2023
FROM: Robert Miller, Director of Energy Services
PREPARED BY: Robert Miller, Director of Energy Services
SUBJECT: Noise Ordinance Item

SUMMARY STATEMENT

Energy Services staff will share information to educate committee members about an issue.

REVIEW

Staff will provide the background and actions taken to review this issue.

RECOMMENDATION

No action is required. The presentation is for information purposes.



STAFF REPORT

TO: Public Enterprise Committee
VIA: Mark Watson, City Manager
DATE: April 3, 2023
FROM: Robert Miller, Director of Energy Services
PREPARED BY: Robert Miller, Director of Energy Services
SUBJECT: Downtown Electric System Upgrade Project

SUMMARY STATEMENT

Energy Services staff will share information to educate committee members about the project.

REVIEW

Staff will provide the background, work completed, remaining work, and the project schedule with committee members.

RECOMMENDATION

No action is required. The presentation is for information purposes.

Attachment: 2023-04-03 PEC – Downtown Electric System Upgrade.pdf

Downtown Electric System Upgrade



Rob Miller, Director of Energy Services

March 23, 2023

AGENDA

- Background
- Project History
- Risk Factors
- Completed Work
- Remaining Work to be Completed
- Results

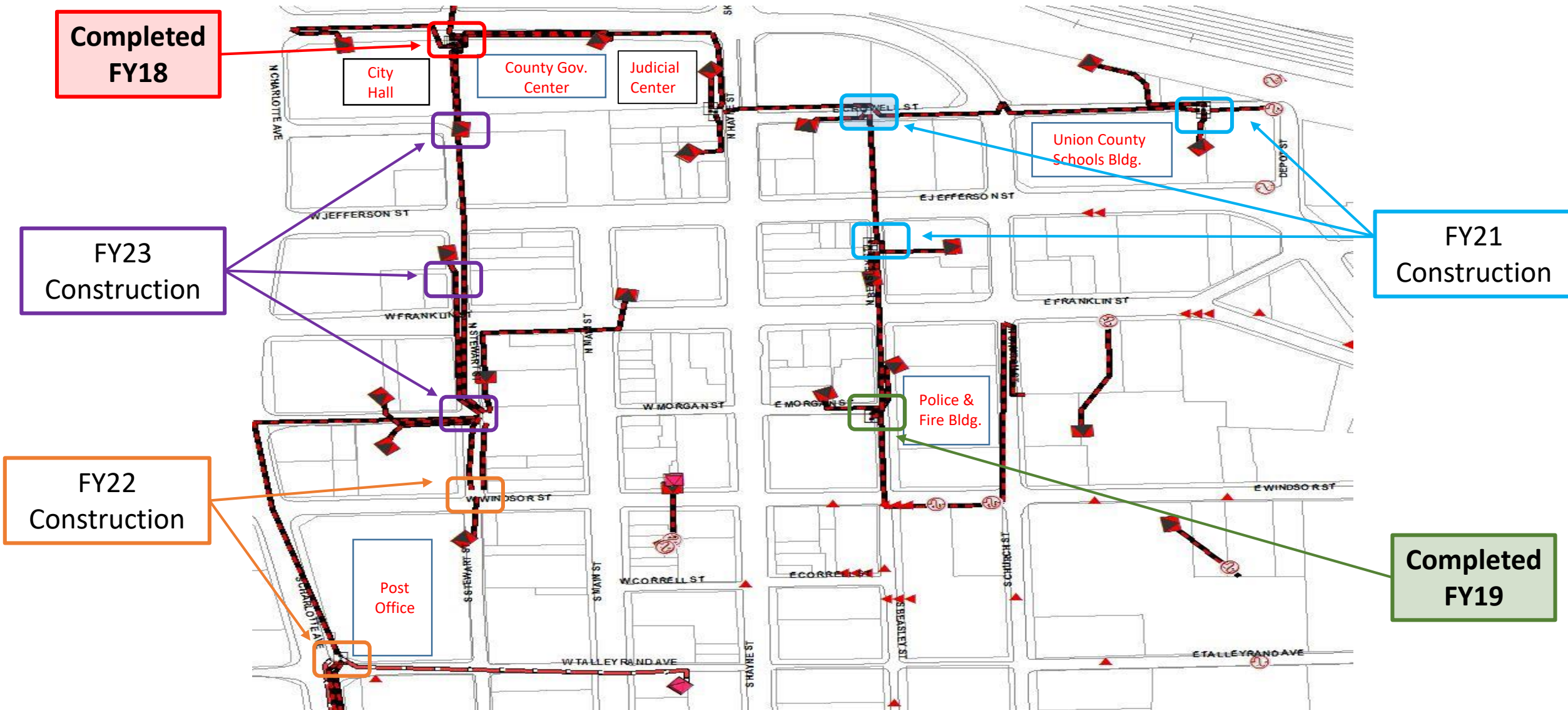
BACKGROUND

The City's downtown electric system was installed in the 1970's.

- The age and environment the equipment is located in cause equipment failures.
- The work conditions of the environment cause safety concerns and impact the speed work can be completed in.
- The original design caused individual issues to impact most, if not all of downtown.

The City began to design, procure materials, and work on the system upgrade in FY 2018.

PROJECT HISTORY



RISK FACTORS

Original Underground Cables Manufactured in 1971



RISK FACTORS (cont.)

Vault and switch conditions prior to the project



RISK FACTORS (cont.)

Vault conditions and work environment



RISK FACTORS

Cable failure on July 2, 2021



COMPLETED WORK

Switch Replacements

Church St. and Stewart St.



Beasley St. and Morgan St.



COMPLETED WORK

Switch Replacements Crowell St. between Hayne and Church St.



2023 COMMUNICATIONS

All businesses impacted by an outage were visited and the following items were discussed:

- Purpose of the project
- Projected schedule
- Potential impacts to business operations
- Concerns

All impacted customers are contacted 7 to 10 business days prior to the outage and again the Friday prior to the outage by phone.

REMAINING WORK TO BE COMPLETED

Outage 5 of 6 – April 16, 2023
8 Hours
22 Customers Affected

Transformer #	Customers	Size	Location
9A	11	1000 kVA, 120/208 V	300 block N. Stewart St.
9C	4	150 kVA, 120/208 V	300 block W. Morgan St.
9C1	7	300 kVA, 120/208 V	300 block W. Morgan St.

- Vault #12 and Switch Gear #12 are located at Northeast Corner of S. Charlotte Avenue and W. Talleyrand Avenue.
- Vault #9 and Switch Gear #9 are located in the City Parking Lot at 109 N. Main Street.

Outage 5: Sunday, April 16, 2023 (12:00 AM – 8:00 AM)

Estimated Outage = 8 hours

Customers affected = 22

Replace UG primary cable from Switch Gear #9 to Transformers #9C and #9C1.

Customers being fed from Transformers 9A, 9C, 9C1 will be affected by this outage.

Transformer 9A

Customer Name	Service Location
AMERICAN BANK OF THE CAROLINAS	N CHARLOTTE AVE 312
HARRINGTON, LARRY	N MAIN ST #A 315
CROW, HARRY B	N MAIN ST #B 315
NORVILLE & UNDERWOOD ATTORNEY	N MAIN ST #C 315
HARRINGTON, LARRY	N MAIN ST #D 315
HORTON & CO	W JEFFERSON ST 211
RENTSCHLER, JOYCE ANN	N MAIN ST #202 313
HELMS INVESTMENTS	N MAIN ST #D 313
HELMS INVESTMENTS	N MAIN ST #C 313
GLOBAL SOFTWARE LABS	W FRANKLIN ST 304
DOWNTOWN MONROE INC	N STEWART ST #ELBTL 370

Transformer 9C

Customer Name	Service Location
FISHER, LEWIS	W FRANKLIN ST #A 305
INVESTORS TITLE INSURANCE CO	W FRANKLIN ST #B 305
FISHER, LEWIS	W MORGAN ST 304
FAMILY VIDEO	N CHARLOTTE AVE 216

Transformer 9C1

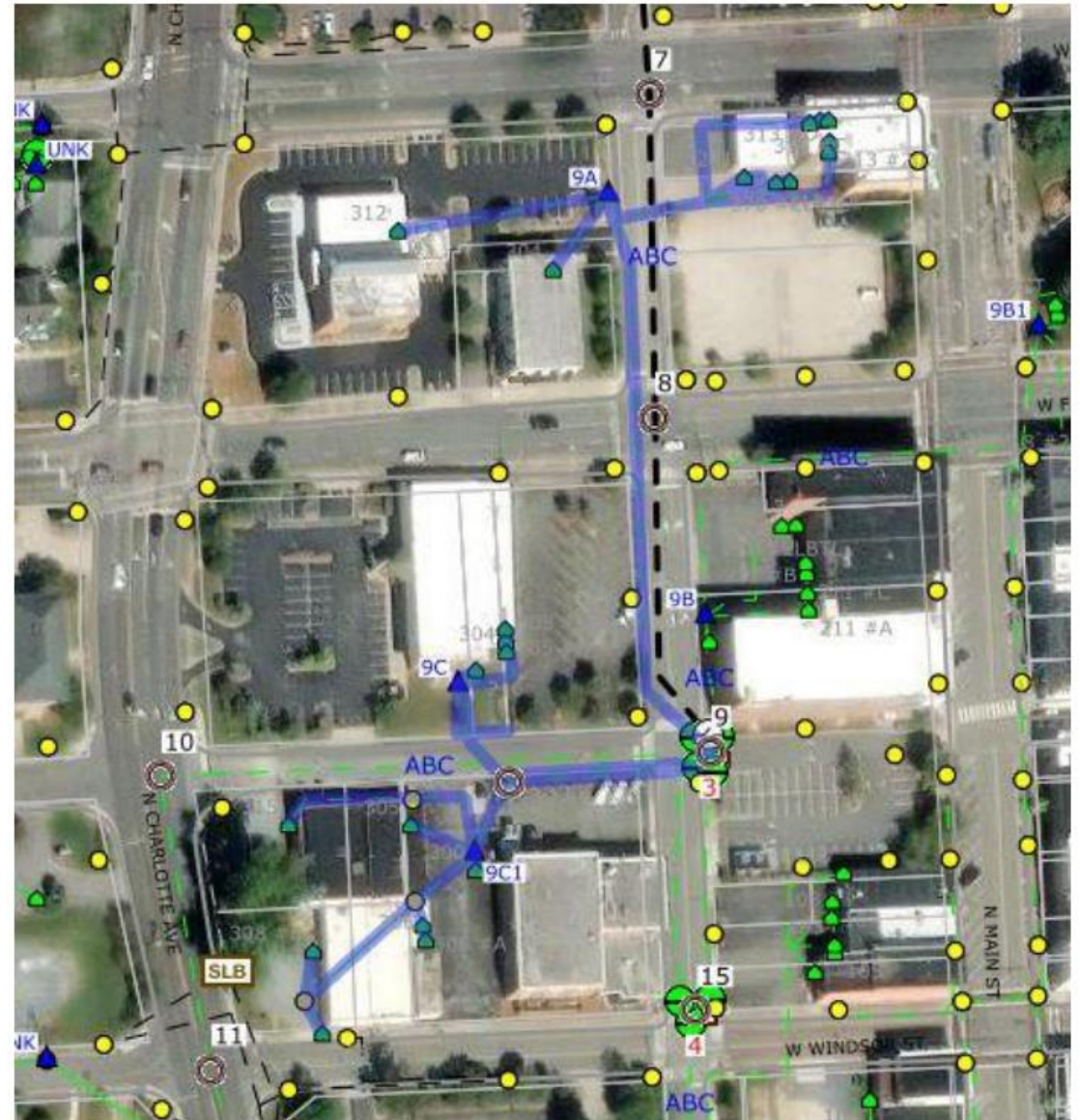
Customer Name	Service Location
CHARO, MARTHA SHAW	W WINDSOR ST #A 306
CHARO, MARTHA SHAW	W WINDSOR ST #A 308
CHARO, MARTHA SHAW	W WINDSOR ST #B 308
AMERICAN PARTS	W MORGAN ST 305
CHARO, MARTHA SHAW	W WINDSOR ST 306
AMERICAN PARTS	W MORGAN ST 315
FRONTIER COMMUNICATIONS	W WINDSOR ST 300

REMAINING WORK TO BE COMPLETED

Outage 5 of 6 – April 16, 2023

8 Hours

22 Customers Affected



REMAINING WORK TO BE COMPLETED

Outage 6 of 6 – April 30, 2023

8 Hours

11 Customers Affected

Transformer #	Customers	Size	Location
9A	11	1000 kVA, 120/208 V	300 block N. Stewart St.

- Vault #12 and Switch Gear #12 are located at Northeast Corner of S. Charlotte Avenue and W. Talleyrand Avenue.
- Vault #9 and Switch Gear #9 are located in the City Parking Lot at 109 N. Main Street.

Outage 6: Sunday, April 30, 2023 (6:00 AM – 2:00 PM)

Estimated Outage = 8 Hours

Customers affected = 11

Replace UG primary cable from Switch Gear #9 to Transformer #9A. Replace Transformer #9A due to live front construction.

Customers being fed from Transformer 9A will be affected by this outage.

Transformer 9A

Customer Name	Service Location
AMERICAN BANK OF THE CAROLINAS	N CHARLOTTE AVE 312
HARRINGTON, LARRY	N MAIN ST #A 315
CROW, HARRY B	N MAIN ST #B 315
NORVILLE & UNDERWOOD ATTORNEY	N MAIN ST #C 315
HARRINGTON, LARRY	N MAIN ST #D 315
HORTON & CO	W JEFFERSON ST 211
RENTSCHLER, JOYCE ANN	N MAIN ST #202 313
HELMS INVESTMENTS	N MAIN ST #D 313
HELMS INVESTMENTS	N MAIN ST #C 313
GLOBAL SOFTWARE LABS	W FRANKLIN ST 304
DOWNTOWN MONROE INC	N STEWART ST #ELBTL 370

REMAINING WORK TO BE COMPLETED

Outage 6 of 6 – April 30, 2023

8 Hours

11 Customers Affected



REMAINING WORK TO BE COMPLETED

May 1 through June 30, 2023

Additional Pulling and Terminating Wire - Vault 12 to Vault 9

No customer outages required



RESULTS

- Provide Reliable power to customers downtown.
- Minimizes impact of individual issues.
- Safer work environment for employees.



STAFF REPORT

TO: Public Enterprise Committee

VIA: Mark Watson, City Manager

DATE: April 3, 2023

FROM: Robert Miller, Director of Energy Services

PREPARED BY: Eric R. Howell, Electric Operations Manager

SUBJECT: Award of Purchase of Two (2) DH50 Digger Derrick Trucks

SUMMARY STATEMENT

The Public Enterprise Committee is requested to consider approving the purchase of two (2) DH50 Digger Derrick trucks for the Energy Services Department – Electric Division.

REVIEW

The Purchasing Department has identified two (2) DH50 Digger Derrick truck that meets all the needs and specifications for the Electric Division through Sourcewell. Sourcewell is a purchasing cooperative that collectively bids specified vehicles and equipment providing competitive pricing as well as meeting statutory requirements. Municipalities and various educational institutions are allowed to utilize through membership to the cooperative. The City has been a member since 2010 and utilizing these contracts saves the time and expense of processing formal bids.

The vendor (Altec Industries, Inc.) and Sourcewell have entered into an agreement (Contract #12418-ALT) for the procurement of two (2) Digger Derrick trucks. Altec Industries, Inc. has provided a quote to the City for the Digger Derrick trucks in the amount of \$340,321 per truck that meets the requirements of the Sourcewell Contract. Therefore, it is recommended to purchase the two (2) Digger Derrick trucks through Sourcewell's Cooperative Purchasing program from Altec Industries, Inc. in the amount of \$340,321 per truck for a combined purchase price of \$680,642. Sufficient funds are budgeted for the purchase in account 5408220 424010. Staff seeks the Public Enterprise Committee's approval for the purchase of both Digger Derrick trucks.

RECOMMENDATION

Staff requests the Public Enterprise Committee approve sending this request to City Council for approval to award the purchase of two (2) DH50 Digger Derricks to Altec Industries, Inc. in the amount of \$680,642 through Sourcewell's Cooperative Purchasing program. The purchase for these two (2) trucks was budgeted in FY 22 and FY 23, due to lead times the one (1) truck was not purchased in FY 22 and funds were rolled to FY 23. Sufficient funds are budgeted for the acquisition in account number 5408220 424010. Staff requests that this item is placed on the City Council consent agenda to authorize the City Manager to execute the necessary documents.



STAFF REPORT

TO: Public Enterprise Committee

VIA: Mark Watson, City Manager

DATE: April 3, 2023

FROM: Robert Miller, Director of Energy Services

PREPARED BY: Eric Howell, Electric Operations Manager

SUBJECT: Contract Award for replacement of Airport T1 Load Tap Changer

SUMMARY STATEMENT

Energy Services staff requests the Public Enterprise Committee to consider approving a contract for Reinhausen Manufacturing, Inc. to provide, install, and test the Load Tap Changer.

REVIEW

The Energy Services department has identified the need to replace the load tap changer (LTC) on the Airport T1 transformer, which is critical for safe, reliable power to the City of Monroe's electric customers.

City staff seeks the Public Enterprise Committee approval of the contract in the amount of \$282,439.00 with Reinhausen Manufacturing, Inc. to provide, install, and test the LTC. Reinhausen was the sole source to match all other LTCs on the electric system. This provides efficiency for spare parts, workforce training, and maintenance. This will be funded from capital project EL 2303.

RECOMMENDATION

Staff requests the Public Enterprise Committee approve sending this request to City Council for approval to award the contract for the LTC replacement at Airport Substation to Reinhausen Manufacturing, Inc. in the amount of \$282,439.00. Sufficient funds are available in capital project EL 2303. Staff requests that this item is placed on the City Council consent agenda.



STAFF REPORT

TO: City Council

VIA: Mark Watson, City Manager

DATE: April 3, 2023

FROM: Scott Clark, Water Resources Director

PREPARED BY: Scott Clark, Water Resources Director

SUBJECT: Budget Amendment for Collections System Monitoring Technology

SUMMARY STATEMENT

The Public Enterprise Committee is requested to consider a Budget Amendment in the amount of \$46,000.00 from Water Resources Fund Balance. The funds will be utilized to purchase nine (9) additional Smart Cover manhole sensors. The sensors will allow staff to quickly identify significant sources of inflow during torrential rainfall events.

REVIEW

The Water Resources Department received a Notice of Violation with Intent to Issue Civil Penalty on February 23, 2023, from the North Carolina Department of Environmental Quality. The Notice of Violation is for a sanitary sewer overflow (SSO) that occurred on January 25, 2023, at 1920 Wolf Pond Road. Our area received nearly six (6) inches of rain within a 24-hour period.

The volume spilled was 4,240-gallons and was caused by a significant rainfall event (severe natural condition), that entered the sewer collection system through runoff, cracks/voids in the pipes, and other contributing factors. According to our data, there have been eight (8) sanitary sewer overflows and a combined total of 211,390-gallons spilled since 2010 in the immediate area.

To ensure our pipeline rehabilitation efforts are utilized most efficiently, the Smart Cover sensors will help staff quickly identify the sewers requiring immediate rehabilitation. Furthermore, the

additional Smart Cover sensors will help demonstrate our commitment to protecting the environment, to the North Carolina Department of Environmental Quality.

RECOMMENDATION

It is the recommendation of Staff that the Public Enterprise Committee take the following action:

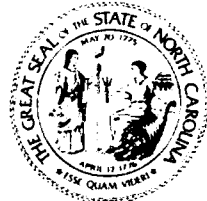
Motion to approve the Budget Amendment 2023-08 and forward to City Council for consideration on the April 11, 2023 Regular Council Meeting Consent Agenda.

cc: Scott Chalk

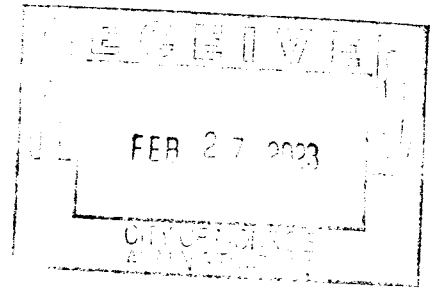
ROY COOPER
Governor

ELIZABETH S. BISER
Secretary

RICHARD E. ROGERS, JR.
Director



NORTH CAROLINA
Environmental Quality



Certified Mail # 7022 0410 0000 7789 4469
Return Receipt Requested

February 23, 2023

Brian J Borne, City Manager
City of Monroe
PO Box 69
Monroe, NC 28111-0069

SUBJECT: NOTICE OF VIOLATION & INTENT TO ISSUE CIVIL PENALTY
Tracking No.: NOV-2023-DV-0110
Sanitary Sewer Overflows - January 2023
Collection System Permit No. WQCS00026
Monroe Collection System
Union County

Dear Mr. Borne:

A review has been conducted of the self-reported Sanitary Sewer Overflows (SSO's) 5-Day Report/s submitted by City of Monroe. The Division's Mooresville Regional Office concludes that the City of Monroe violated Permit Condition I (2) of Permit No. WQCS00026 by failing to effectively manage, maintain, and operate their collection system so that there is no SSO (Sanitary Sewer Overflow) to the land or surface waters and the SSO constituted making an outlet to waters of the State for purposes of G.S. 143-215.1(a)(1), for which a permit is required by G.S. 143-215.1.

The Mooresville Regional Office is providing the City of Monroe an opportunity to provide evidence and justification as to why the City of Monroe should not be assessed a civil penalty for the violation(s) that are summarized below:

Incident Number	Start Date	Duration (Mins)	Location	Cause	Total Vol (Gals)	Total Vol Surface Water (Gals)	DWR Action
202300131	1/25/2023	425	1920 Wolf Pond Rd, Monroe, NC, 28112	Severe Natural Condition	4,240	4,240	Notice of Violation Intent to Enforce
202300132	1/25/2023	40	522 W Park Dr, Monroe, NC, 28112	Grease	200	200	Deficiency, No Further Action



North Carolina Department of Environmental Quality - Division of Water Resources
Mooresville Regional Office - 610 East Center Avenue, Suite 301 - Mooresville, North Carolina 28115
704.663.1699

This Notice of Violation / Notice of Intent to Enforce (NOV/NOI) is being issued for the noted violation. Pursuant to G.S. 143-215.6A, a civil penalty of not more than twenty-five thousand dollars (\$25,000.00) may be assessed against any person who violates or fails to act in accordance with the terms, conditions, or requirements of any permit issued pursuant to G.S. 143-215.1.

This office requests that you respond to this Notice, in writing, within 10 business days of its receipt. In your response, you should address the causes of non-compliance, remedial actions, and all other actions taken to prevent the recurrence of similar situations. The response to this correspondence will be considered in this process. Enforcement decisions will also be based on volume spilled, volume reaching surface waters, duration and gravity, impacts to public health, fish kills or recreational area closures. Other factors considered in determining the amount of the civil penalty are the violator's history of non-compliance, the cost of rectifying the damage, whether the spill was intentional and whether money was saved by non-compliance.

If you have any questions, please do not hesitate to contact Joanna Harbison with the Water Quality Section in the Mooresville Regional Office at 704-663-1699 or via email at joanna.harbison@ncdenr.gov.

Sincerely,

DocuSigned by:
Andrew H Pitner
F161FB69A2D84A3...

Andrew H. Pitner, P.G., Assistant Regional Supervisor
Water Quality Regional Operations Section
Mooresville Regional Office
Division of Water Resources, NCDEQ

Cc: Mooresville Regional Office - WQS File
Central Files, Water Quality Section

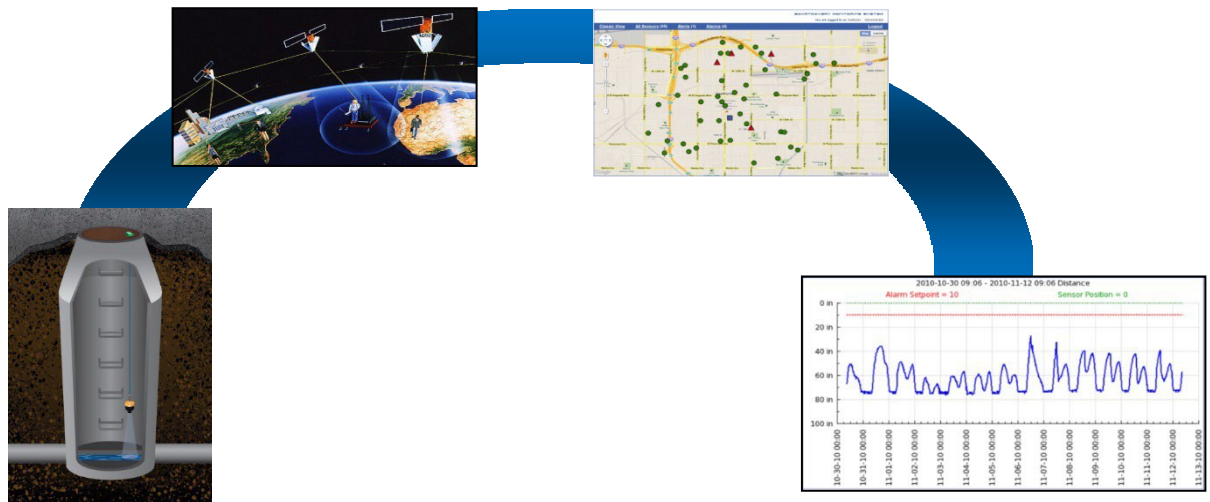


North Carolina Department of Environmental Quality • Division of Water Resources
Mooresville Regional Office • 610 East Center Avenue, Suite 301 • Mooresville, North Carolina 28115
704.663.1699

QUOTATION
Scott Clark
City of Monroe, NC

Offered by WC Equipment

SmartCover[®]



Quotation Date: March 22, 2023
Quote Validity: 30 days.

Section I: Pricing

WC Equipment is pleased to provide the following Proposal for the SmartCover® Systems™ (SCS) level monitoring system with Pricing as shown in Section 1 below. Additionally, you will find a complete System Description in Section 2 and Warranty statement in Section 6.

Pricing Summary

Part Number	Description	Unit Qty.	Unit Price (Each)	Extended
SC-Q-SB-15-CUST	SmartCover® System Components E-Box System Control with onboard computer, modem, digital radio; fully potted and IP-68 rated. Dual Sensor(Ultrasonic & Pressure) Sensing 15' cable. connecting cable. PowerPack® - lithium thionyl chloride battery with high power density. Extended length E-Square™ antenna , including antenna and installation kit. (15 feet of cable) Mounting bracket kit - three-part amounting bracket set made of heavy gauge, hard-anodized aluminum; includes all mounting hardware.	9	\$4,617	\$41,553
Parts Warranty	One (1) Year, Parts-Only Warranty Limited Parts-Only Warranty on all system SmartCover® hardware. See Warranty Statement for complete details.	6	Included	Included
ASM-SC1	Active Site Management (ASM), One-Year: Comprehensive support services including: • Software subscription with <i>unlimited number of users</i> accessed with secure user name and password • Complete maintenance of all cloud based software • Regular feature updates and upgrades including the all new <i>SmartTrend™</i>. • Hosting of data storage – unlimited data storage • Iridium Satellite connectivity service with bi-directional communication. • Advisories, Maintenance Alerts and Alarms issued to customer defined personnel via email and/or text message • Ongoing technical support via phone or online.	9	\$405	\$3,645
IST-1	Dedicated Customer Website: Initial Set-up & Training (IST) • Dedicated Customer Website set-up and training • Browser-based, secure user access • Includes map view, site-specific data and information • Alarm and Advisories set-up • Virtual comprehensive training for login, website features and website function • ONE TIME CHARGE- No Charge	0	\$1000	\$1,000
	•			
	•			
	• Freight-PPA to final invoice as incurred	9	\$50	\$450
	• Total			\$45,648

Delivery

Standard: Ten (10) to Twelve (12) weeks upon receipt of a Purchase Order and with receipt of complete engineering and site information. All customers will be notified of the shipment date upon Order Acknowledgement.

These are good faith estimates based on current demands. It is strongly recommended that order be placed as early as possible. Every reasonable effort will be made to provide earlier delivery if requested.

End Section 1, proceed to Section 2, next page.

SECTION 2: PRODUCT DESCRIPTION

Overview

Each SmartCover® System includes the following components which comprise the hardware delivered with each system:

- One (1) E-Box system control
- One (1) Dual (ultrasonic and pressure) Sensing Module (DSM) with connecting cable.
- One (1) communications antenna for direct connection to the Iridium Satellite System.
- One (1) PowerPack™, a proprietary high power density lithium thionyl chloride battery
- One (1) bracket kit for either mounting flat to the underside of the manhole cover or for mounting to the manhole cover vein.
- One installation kit containing all hardware and accessories necessary to mount a single system

Item Descriptions:

E-Box System Control

The E-Box is the system control containing the digital satellite radio, computer and signal processing components. It is fully potted and can be completely submerged in water (IP-68 rated) It is housed in an, ABS enclosure and shock tested to 10 G's.



SmartCover® E Box Control

PowerPack™

The PowerPack™ is a high power-density battery system designed for reliable, consistent delivery of power in the harsh wastewater environment. It housed in a urethane coated pack containing Lithium Thionyl Chloride primary batteries. Typically the PowerPack™ provides at least a TWO year of life and generally longer under normal operating conditions. PowerPacks™ have a 10 year shelf life prior to use.



SmartCover® PowerPack™

Distance Sensing Module (DSM)

The distance sensing module is an ultrasonic distance sensor. It is enclosed and sealed in an ABS housing. It is fully potted and completely water-proof, meeting IP-68 standards. The crystal controlled oscillator sensor is self-calibrating.

There are two [distance] ranges available.

- 0-30 PSI pressure range, up to 34.5' submersion depth, 0.5" resolution
- Dead zone: appx 8-9" between sensors
- Absolute pressure sensor eliminates need for vent – no maintenance
- Atmospheric pressure does affect pressure readings
- Typical atmospheric variation is +/- 4"
- Pressure sensor is calibrated during installation
- The standard range senses between 3" and 81"
- The long-range sensor's range is 11" to 240".
- Ultrasonic DSM with integrated 30 PSI absolute pressure sensor
- 4-79" ultrasonic range, 0.1" resolution



E-Series™ Antennae

The E-Series™ antennae include the “E-Square” and the “E-Dot” types. Both are traffic rated and designed to mount directly to the manhole cover or vault lid. They communicate directly to the Iridium Satellite System and do not require any intermediary devices for boosting signals. The antennae are secured to the top of the manhole cover using a high strength, two-part acrylic adhesive specifically designed for high stress, structural applications.

The E-Square antenna is a road-reflector type used in areas where there is no opportunity for dislocation from such hazards as snow plows.

The E-Dot antenna is for cold-weather climates where snow plow operation occurs and are designed to be mounted below the manhole profile.



E-Square™ Antenna



E-Dot™ Antenna



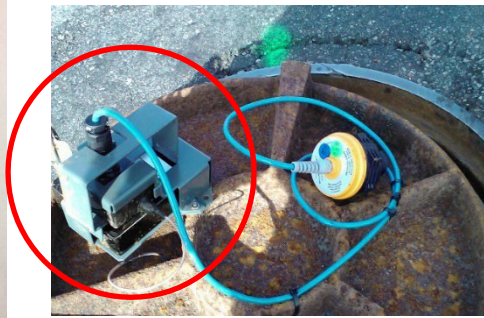
Mounting Bracket Kit

The mounting bracket is a ruggedized, corrosion resistant assembly designed to protect and secure system components. The bracket is secured with two stainless steel bolts whereby the installer drills two ¼” holes into the cover. The bracket is designed in such a manner such that **NO CONFINED SPACE ENTRY IS REQUIRED FOR INSTALLATION**. Its hard-anodized aluminum housing encloses the PowerPack and the E-Box control. The DSM (distance sensing module) is connected to the E-Box and suspended via a cable, typically over the invert.

The bracket is supplied as a three-piece kit for mounting directly to the underside “flat” of the manhole or, alternately, to the manhole cover vein.



Bracket with kit



Mounted Bracket

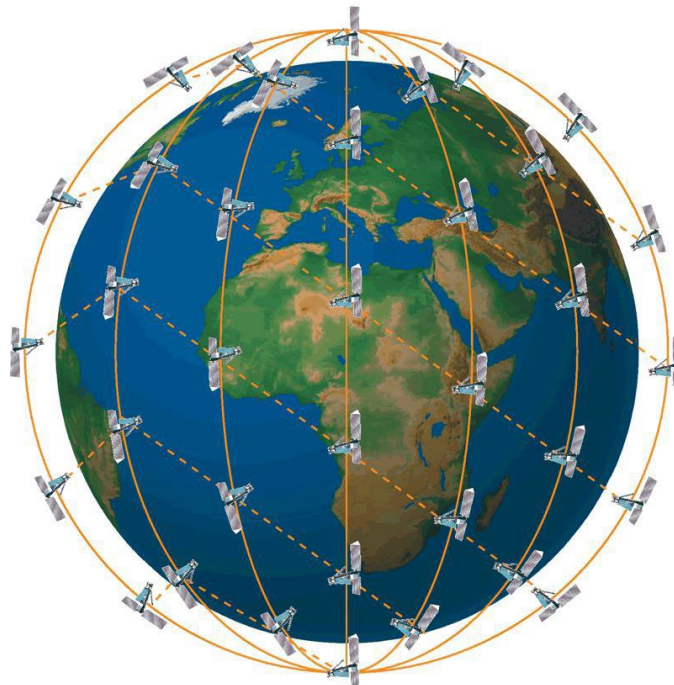
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SECTION 3. DESCRIPTION OF THE SATELLITE COMMUNICATION SYSTEM

The SmartCover® system uses the high reliability, highly secure **Iridium Satellite System** as its communications backbone. Iridium is a state-of-the-art communications system consisting of 66 Low Earth Orbiting (LEO) satellites. It has global, redundant coverage and is known to provide highly superior connectivity to that of terrestrial systems such as GSM, GPRS and other cell phone based systems. Iridium has a very strong record of performance and reliability. It is used by the US DOD for its reliability.

Iridium Satellites are in orbit across the globe and assured connectivity is achieved requiring but a small fraction of the available horizon. SmartCover® systems are able to communicate in challenging locations with such impediments as tree canopies, overpasses or buildings.

SmartCover® data is highly secure with servers using 2048 bit encryption. These are redundant servers located in a climate controlled, secure facility with emergency power to prevent any interruptions. Servers store Historical Communication, Data, and Data Access information. Being a web or “cloud” based system; data is available at all times through a browser from a computer, tablet or phone. Users can access data through any web browser to the server via encrypted data and send notifications directly to the user.



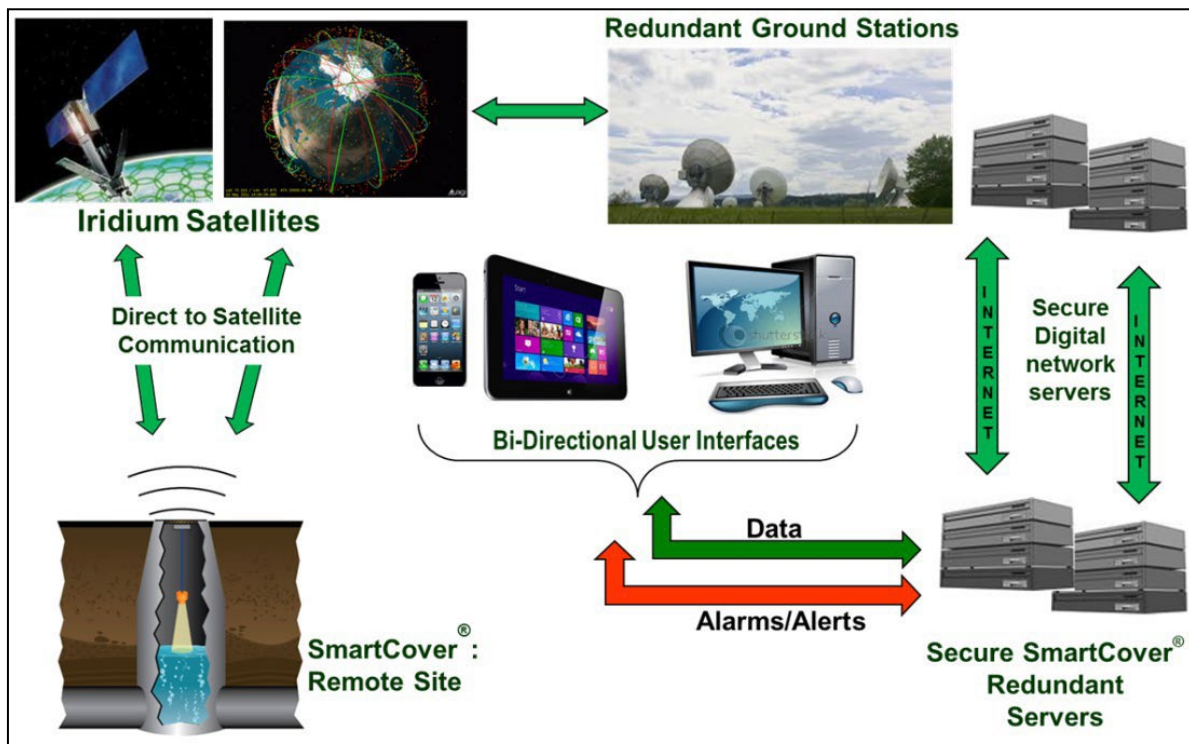
Iridium Satellite Constellation

The Communication Process

As per the diagram below, the SmartCover[®] system communicates directly to an orbiting satellite. The communication signal is then sent to Iridium earth link stations and then to SCS secure servers.

For alarm signals, they are subsequently sent to the Customer via cell phone, Smart Phone, digital pager and/or to computers via the internet. It is possible to have alarms sent to a central control room as well.

SmartCover[®] communication is *bi-directional* and the user has control over the remote sites. A major benefit of the SCS system is that data acquisition, alarms and system setting changes are enabled *remote from the installation* site saving time and resources. For example, the alarm level [distance] setting can be accessed via the Dedicated User Website to be changed or disabled. Changes to these settings are communicated from the SCS servers through the Iridium system and to the SmartCover[®] system at the designated site.



SmartCover[®] communications system diagram

SmartCover®: Measurement, Data Acquisition, Transmission and Process Overview

The SmartCover® system monitors continuously 24 hours per day, seven (7) days per week. SCS has cumulatively acquired thousands of years of data and experience with this basic measurement protocol to assure users that this methodology is extremely sound and reliable for ongoing data acquisition and alarming functions.

Measurement Frequency

The SmartCover® system takes a measurement every six (6) minutes. If the measured level is below the pre-set alarm level then the cycle begins again.

Data Acquisition Frequency

The SmartCover® logs alternate readings of the six (6) minute measurement cycle. In other words it log a measurement every 12 minutes, five (5) times per hour. These readings are “batched” and sent once per hour via satellite to the server and stored for user access such as trending and analysis.

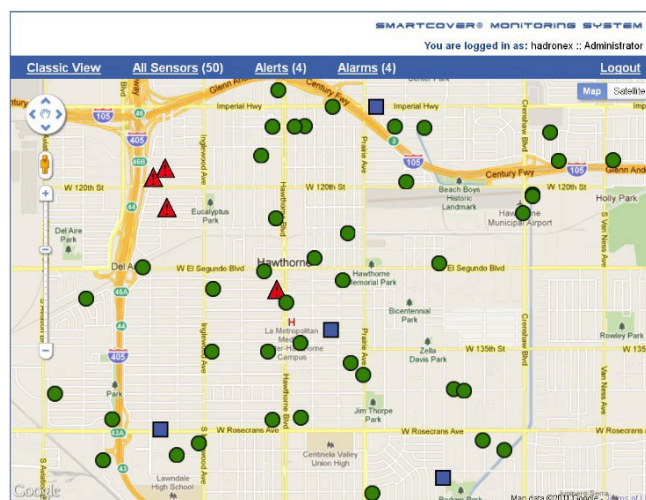
Alarming

If the SmartCover® system measures and senses that the water it is *above* the alarm level, an alarm notification is sent to the designated users and by a pre-established communication protocol i.e., text message to a mobile device or an email message to a computer. Alarms through cell phones or pagers are via Short Message Service (SMS), or Smart Phones and emails via email messaging. Alarms will continue to be sent until acknowledged. The system will continue to monitor, even though the alarm has been acknowledged. Note: a dedicated direct-from-satellite handheld system is available option for highly critical communications. Contact SCS for more information.

A LEVEL MEASUREMENT IS TAKEN EVERY 6 MINUTES AND DATA IS UPDATED ON THE SERVER EVERY HOUR. IN THE EVENT OF A HIGH WATER EVENT, THE ALARM IS SENT THE NEXT TIME A LEVEL MEASUREMENT IS MADE. THE LONGEST TIME BETWEEN THE TIME THE WATER REACHES THE ALARM LEVEL AND WHEN THE ALARM SOUNDS IS 5 MINUTES AND 59 SECONDS.

Graphical Data

The website is accessed by designated users through a secure portal and using a user name and password. Upon login a map of the system appears as shown below.



System Map

System Map

The system map has five, colored-coded symbols for ease of viewing and management where:

GREEN (circle) – Indicates that the SmartCover® system is functioning properly and that the site does not have any alarms or maintenance alerts.

GRAY (circle) – Indicates that the SmartCover® system was previously located at this site but has been moved. The data for this site is archived and accessible.

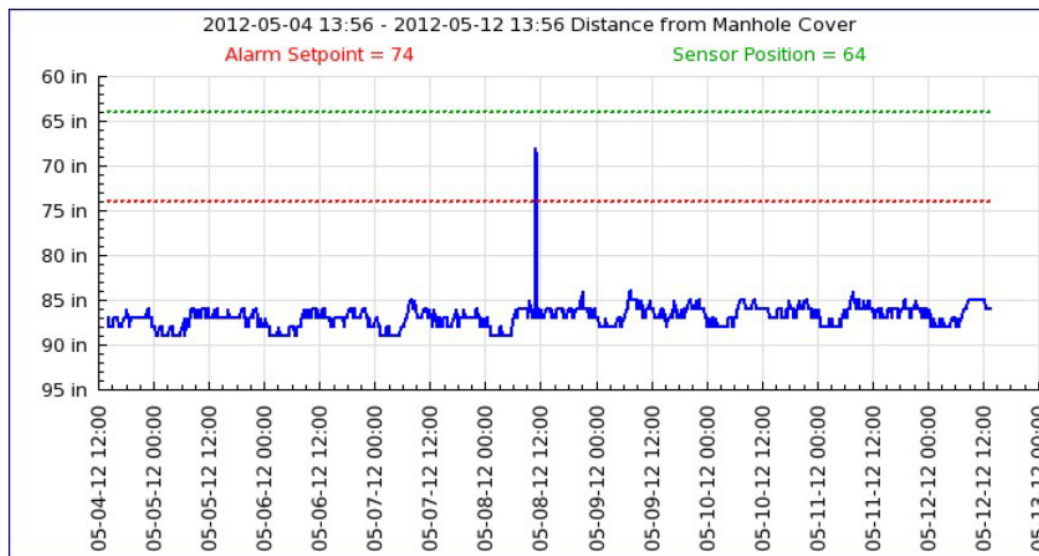
ORANGE (circle) – Indicates that the SmartCover® system, while not in an Alert or Alert state, has issued an “Advisory”. The Advisory is an email message has been sent because the site data trend indicates that an anomaly is occurring. It advises users to view this site’s data and determine what, if any, remedial action should be taken.

BLUE (square) – Indicates an “alert” and that a SmartCover® maintenance action is required. For example, it could mean the battery has low voltage and needs to be replaced or that a unit has not communicated within the expected interval.

RED (triangle) – Indicates that an “alarm” condition exists at this location. It could be high water event (surcharge) or an intrusion. Action is required.

Site Graph

A user may access any remote site by clicking on the map or on the address location. As an example, the graph below illustrates level in inches (y-axis), date/time (x-axis), flow levels (blue line), and the alarm setting (red line). We see in this case flow levels are below the alarm and then followed by a surcharge. The surcharge would have triggered an alarm. Note that the alarm is set well below the level where a spill may occur (green line) and allows for sufficient time to respond. In this case the bottom of the sensor is 64 inches from the manhole cover and the alarm is set for 74 inches below the manhole cover.



SECTION 4. INSTALLATION AND ACTIVATION

Installation

It is most important to note that the SmartCover installation never requires confined space entry. With this, a typical installation is inexpensive and takes much less than one hour for physically attaching of the SmartCover® system. The antenna is mounted to the top of the cover or lid and the mounting bracket, housing the PowerPack and E-Box with the DSM connected to the E-Box, to the bottom.

The antenna is mounted and secured with a high strength, MIL-Spec grade, two part adhesive and a hole is drilled to feed the antenna wire to the underside where the E-Box control is located.

The bracket is mounted to the underside by drilling to two holes into the cover or lid. Two stainless steel screws secure the bracket. The DSM is connected to the E-Box control and it is suspended and aligned to the flow target area i.e., the invert.

On-site testing of the communication link is performed to ensure that the unit is operational.

- **Standard Installation:** The SmartCover® system (hardware) is installed in the field at the designated site.
- **Offsite Installation:** The SmartCover® system is installed on the selected cover at an offsite facility and transported to the designated location. This method can minimize onsite time to a few minutes reducing the need for traffic control and disruption.
- Typically, the Customer will provide personnel and equipment, as appropriate for traffic control as required by local regulations and safety of field personnel.

Activation

After the physical installation of the SmartCover® system(s), the following actions are taken to bring full functionality to the SmartCover® system. SCS technicians will assist with all installation activation as part of our standard service protocol.

- ***SmartCover® Activation: Customer Actions***
 - Upon receipt of a Purchase Order, SCS the user will receive a questionnaire to obtain the information necessary to perform the SmartCover® service Set-Up. Proper system operation is dependent upon receipt of required information.
 - This information is used as part of installation where communication will be tested to verify functionality.
- ***SmartCover® Activation: SCS Actions***
 - At the SCS technical Support offices, the secure Customer Web Site is set up including a private account and database on the SCS secure server.
 - Web site is configured for the Customer Web Site with SmartCover® system locations and users.
 - Initial population of the Customer SmartCover® database.
 - Registration of the SmartCover® system wireless radios with the network and setting the Customer default system operational parameters.

Training

Training is provided after completion of the installation process. Once on-site personnel are trained, SCS will be available to provide additional web site training remotely after the SmartCover® system has been installed and operational.

SECTION 5. ACTIVE SITE MONITORING

Active Site Monitoring (ASM) is a **compressive support service** for the SmartCover® system. It includes software support, satellite connectivity and ongoing technical support with these three elements described below.

It is an annual, per site service provided by SCS. ASM includes but is not limited to:

- **Website hosting-** initial set-up and ongoing hosting of all software and customer data. Note that all data is owned by the customer.
- **Website / Software Upgrades-** from time to time SCS provides new features and tools at no charge including such features supporting improved analytical tools, improved graphical tools and new reports.
- **Website maintenance** – maintaining the secure servers on which your web site resides, and providing free upgrades to the web sites as they become available.
- **Standard Reports** - SCS will support Customer in the preparation of these reports for management or regulators **Technical Telephone Support** - This service is offered by the SCS Technical Services team from 7am to 5 pm Pacific time and with additional support from local representatives.
- **Management Oversight**
 - SCS Technical Services team monitors the proper operation of all installed systems including battery voltage, the radio signal strength and the communication to/from the systems.
 - SCS coordinates the appropriate service to repair any components in the field with you or the local dealer
- **Alarm Processing** – maintaining the infrastructure of the alarm contact system.
- **After Hours Support** – on an as-needed basis. Contact SCS for details
- **Wireless Communications Connectivity** – Access to the two-way, wireless satellite network.

Product Improvements

The SmartCover® is continuously improving, adding new features and functions. SCS often uses customer input to add new features. Product improvements are backwards compatible to existing satellite systems with 0.10" resolution. There is no charge for these improvements as they are part of the annual ASM.

SmartTrend™

SmartTrend™ is an all-new addition to **SmartCover®** that enables notifies and enable users to anticipate events at remote monitoring sites. **SmartTrend™** automatically scans each remote site to assess data trends. Should it see an "anomaly", it provides users an Advisory email message. This important addition to the **SmartCover®** system means that users now have the most advanced predictive method available identifying future issues such as SSO days or even weeks *before they occur*.

SECTION 6. ADDITIONAL TERMS & CONDITIONS, LIMITED WARRANTY

Mutual Hold Harmless

SCS hereby holds Customer harmless from any and all claims that may arise, or damages that may result, to SCS or SCS staff during the performance of this contract. Customer hereby holds harmless SCS, its founders, owners and staff, from any and all claims that may arise, of any kind or from any cause whatsoever, due to or as a result of the installation, operation, or use of the SmartCover® system.

Loss of Communications

Customer acknowledges that SCS is not responsible for the loss of wireless communication or internet communications or any communications used in the operation of this system.

Advisory Only

The SmartCover® System is an advisory service only. As such, SCS and its founders, owners, or staff are not responsible for any damage of any kind or from any cause whatsoever that may result from, in relation to, in connection with, due to, or as a result of the installation or operation of the system, including without limitation, equipment failure, or any consequential damages caused by, or resulting from, the use or installation of the SmartCover® system.

Limited Warranty

The equipment components of the SmartCover® system are warranted free from material defects of material and workmanship for a period of one year from the date of installation. Unless otherwise stated, the SCS warranty herein is a parts-only warranty.

Should the Customer discover any condition that might invoke a warranty claim, they are to expeditiously and without delay notify the SCS Technical Services group.

Upon notification, SCS will assess and instruct the user on follow-on actions.

Should a component fail as a result of a defect in material or workmanship, SCS will replace the component or repair it at the SCS location.

For all valid warranty claims, as determined by SCS, reasonable freight charges to and from Customer shall be paid by SCS. In all cases, SCS shall determine the shipping method and/or carrier unless otherwise agreed to in writing by Customer and SCS.

Upon approval of a warranty failure by SCS, SCS will either repair or replace the defective component at SCS' sole discretion.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE). REPAIR OR REPLACEMENT IN THE MANNER PROVIDED ABOVE SHALL BE THE SOLE AND EXCLUSIVE REMEDY FOR BREACH OF WARRANTY AND SHALL CONSTITUTE FULFILLMENT OF ALL LIABILITIES OF SCS WITH RESPECT TO THE QUALITY AND PERFORMANCE OF THE PRODUCTS.

THIS WARRANTY DOES NOT COVER DAMAGE OR REPAIRS OR REPLACEMENTS BY ANY CAUSE BEYOND THE CONTROL OF SCS, INCLUDING ACTS OF NATURE, IMPROPER USE, LACK OF PROPER MAINTENANCE OR UNAUTHORIZED REPAIR. REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY. SCS SHALL NOT BE LIABLE FOR ANY ACTUAL, EXEMPLARY, INDIRECT OR CONSEQUENTIAL DAMAGES, INCLUDING DAMAGES FOR LOSS OF GOODWILL OR PROFITS AND/OR LOSSES FROM ANY CAUSE WHATSOEVER, EVEN IF SCS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

In no event shall SCS's liability, whether in contract or in tort (including negligence and strict liability), exceed the price of the Product from which such liability arises.

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WC Equipment Sales| A member of Templeton and Associates| Representing Smart Cover Systems Inc.

4324 Brogdon Exchange, Suite 200, Suwanee, GA 30024

|+ 1 678.730.0997 O |+ 1 770.614.5992 F

<http://www.mysmartcover.com/products.html> www.wcequipment.com

Hadronex, Inc. is now doing business as SmartCover® Systems™

The undersigned have read and acknowledge their understanding of this offer.

Signatures

City of Monroe, NC

Signature

Date

**CITY OF MONROE
BUDGET AMENDMENT
BA-2023-08**

1. Amendment to appropriate funds for purchase of additional Collection System Monitoring Technology.

Water Resources Fund:

Revenue

Appropriation of Fund Balance	\$46,000
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Expenditures:

Collection System Monitoring Equipment	\$46,000
5108020 432306 Maintenance Division	

Adopted this the 11th day of April 2023.

Marion L. Holloway, Jr., Mayor

Attest:

Bridgette H. Robinson, City Clerk



STAFF REPORT

TO: Public Enterprise Committee

VIA: Mark Watson, City Manager

DATE: April 3, 2023

FROM: Scott Clark, Water Resources Director

PREPARED BY: Scott Clark, Water Resources Director

SUBJECT: Union County/City of Monroe Agreement Information

SUMMARY STATEMENT

Water Resources staff request direction from the Public Enterprise Committee on future water/sewer service agreements with Union County.

REVIEW

The City of Monroe and Union County have a current agreement for provision of capacity for sewer to the County and water to the City. In partnership with the County, it is prudent for us to collaboratively discuss our current challenges and develop an agreement to explore future options together, for the best interest of our communities.

The current agreement allows the City of Monroe to purchase water (up to 1.99 MGD) through a metered connection near our Airport. The agreement also provides an allocated sewer capacity (2.65 MGD) to Union County at our wastewater treatment plant.

Future discussions will focus on Union County providing additional water from their new treatment facility to the City of Monroe, and the City of Monroe providing additional sewer capacity to the County after the sewer plant expansion is completed.

RECOMMENDATION

It is the recommendation of Staff that the Public Enterprise Committee take the following action:
Motion to approve for Water Resources staff to proceed with discussions regarding future water and sewer partnerships with Union County.



STAFF REPORT

TO: Public Enterprise Committee
VIA: Mark Watson, City Manager
DATE: April 3, 2023
FROM: Scott E. Clark, Water Resources Director
PREPARED BY: Amy Cook, Water Resources Systems Engineer
SUBJECT: Contract Award – Contract for 2023 Sanitary Sewer CIPP Rehabilitation

SUMMARY STATEMENT

The Public Enterprise Committee is requested to consider and recommend a contract award for the completion of a sanitary sewer main ultraviolet light cured in place (UV-CIPP) lining project. This is part of the on-going City of Monroe, Sewer Asset Management Program.

REVIEW

The City sanitary sewer collection system consist of more than 1.5 million feet of pipe ranging in age from the 1930's to current. A key component of managing this infrastructure is replacing aging sewer main assets using various technologies, including cured in place liners. These sewer main replacements allow the city to ensure continuing quality service to city customers and maximize removal of rainfall inflow and infiltration from the city system, thereby protecting the City WWTP.

The Water Resources Department received informal bid proposals on March 23, 2023, for sanitary sewer main replacement using ultraviolet cured in place lining technology. The project consists of replacing approximately 4,920 lineal feet of 6", 8", 10", and 21" gravity sanitary sewer mains located in various areas of the City. The pipe segment selection was based on known pipe deficiencies, future ease of accessibility, and pipe age/material.

Proposals were received from the following contractors:

<u>Contractor</u>	<u>Amount</u>
Bio-Nomic Services, Inc.	\$798,410.92
CaJenn Construcion & Rehabilitation	\$475,211.12

Budget funds are available for this project. In the past, similar rehabilitation projects were submitted directly to City Council based on the Mayoral Committee Principals dated November 19, 2019. With new elected City Council members and Mayor since that time, as well as a new City Manager, Staff felt it prudent to seek the Public Enterprise Committee recommendation.

RECOMMENDATION

Staff recommends that the Public Enterprise Committee recommend to City Council to award the Contract for 2023 Sanitary Sewer CIPP Rehabilitation to CaJenn Construcion & Rehabilitation in the amount of \$475,211.12 as shown, which includes a 2.5% contingency, and to authorize the City Manager to execute all necessary documents.



STAFF REPORT

TO: Public Enterprise Committee

VIA: Mark Watson, City Manager

DATE: April 3, 2023

FROM: Robert Miller, Director of Energy Services

PREPARED BY: Robert Miller, Director of Energy Services

SUBJECT: DOE Grid Resilience Grant Application with Electricities.

SUMMARY STATEMENT

Energy Services staff will share information to educate about a joint application to the Department of Energy (DOE) Grid Resilience and Innovation Partnership (GRIP) program with other members of ElectriCities.

REVIEW

The City of Monroe will jointly apply for grant funding with twenty (20) other cities in North Carolina that are all members of ElectriCities. The grant funding will be used for the planning, engineering, materials, equipment, and labor to install Advanced Meter Infrastructure (AMI) for the Electric Division. This includes network that can be utilized by the Water Resources department and the Natural Gas division. This project will provide real time information to our utility personnel and customers. This will allow our utility to respond more appropriately and in real time to our customers' changing demands and unplanned outages due to the increasing extreme weather.

As part of the application, the City will be responsible for the following:

- Partner with ElectriCities through the remainder of the application and contracting processes;
- Procurement and installation of the meters proposed for our utility;
- Comply with the various U.S. Department of Energy requirements for expenditure of GRIP funds particularly with regard to community benefits and good quality jobs; and
- Provide the required \$1,171,121 cost share for the City's \$4,684,482 estimated project cost.

As part of the joint application, the City does not have any responsibilities for other applicants.

RECOMMENDATION

Staff requests that the Public Enterprise Committee approve the City Manager to execute the grant application documents per the requirements of City of Monroe policy FA-14.

If the grant is approved, Staff will request City Council approval for the receipt of funding.