BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of the Application of a Rate) File No. WR-2023-0344 Tracking No. JW-2024-0039

NOTICE OF LATE-FILED EXHIBIT 402

Issue Date: November 29, 2023

During the evidentiary hearing in the above captioned matter, the presiding officer undertook the submission of late-filed Exhibit 402. Exhibit 402 is the Suez Presentation from Raytown Water Company's application filed in File No. WF-2021-0427.

Pursuant to the *Notice of Orders Issued During Evidentiary Hearing*, the presiding officer files Exhibit 402, attached.

BY THE COMMISSION

Nancy Dippell Secretary

Dated at Jefferson City, Missouri, On the 29th day of November, 2023

Charles Hatcher, Senior Regulatory Law Judge, by delegation of authority pursuant to Section 386.240, RSMo 2016.

ready for the resource revolution

Raytown Water Co Presentation with Pricing Proposal

Tom Stechmann Water System Consultant

December 10th, 2020

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EXHIBIT \mathcal{A}

AMI Metering Asset Management Enhance Revenues & Deliver Superior Customer Service

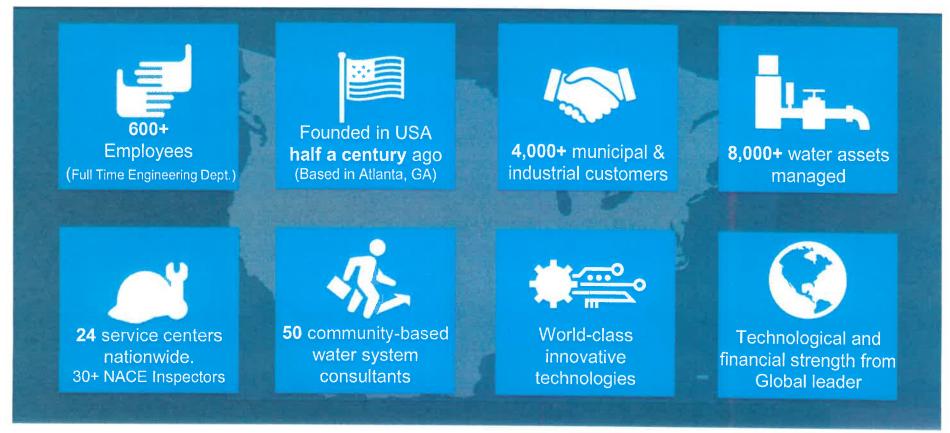
Contents

- I SUEZ (USCI) Company Overview
- I Our Value Proposition Asset Management & Maintenance Program
- I Benefits of AMI
- I AMI System Selection with Propagation Study
- I Proposal with Cost Justification
- I Asset Management with Maintenance Program
- I Case Studies
- I Next Steps and Conclusion



SUEZ Advanced Solutions

North American Leader in Water Asset Management Solutions





SUEZ Advanced Solutions Offerings & Asset Management / Maintenance Programs

Network assets & Meters



with AMI
Advanced Network
management
(Aquadvanced)
Network condition
assessment and

rehabilitation

Maintenance program

Steel Water Tanks



- Condition assessmentMaintenance programExterior and Interior Rehabilitation
- Emergency repairs (MP Programs)
- Drone inspections

Water Quality



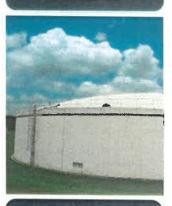
- Asset chemical cleaning
- Mixers
- THM removal
- lce Pigging
- Filter media replacement

SIPP (Spray-In-Place Pipelining)



- Cost Effective Pipe Rehabilitation
- Structural Enhancement of Pipelines
- Reduces Risks of Future Leaks and Failures

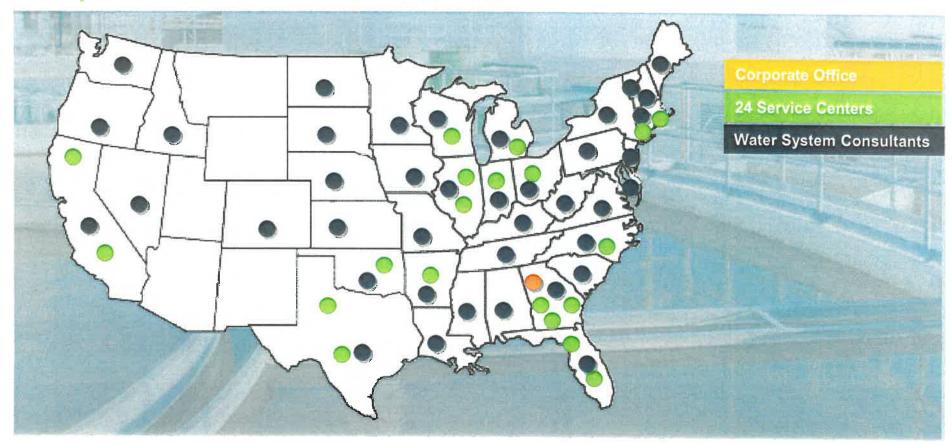
Concrete Structures



- Condition assessment
- Maintenance program
- Rehabilitation
- Water, wastewater and storm water assets

SUEZ Water Advanced Solutions

Experienced Problem Solvers Nationwide





AMI Metering Asset Management & Maintenance Program:

Value Proposition - Asset Management & Maintenance Program



AMI Metering Asset Management - Value Proposition

What is SUEZ (USCI) Sole Service Offering?

A Full Comprehensive Asset Management AMI/Metering Program with Preventative and Corrective Maintenance.

Who Is The Program Designed For?

This program is specially designed for Small to Mid-Size Utilities.

Why Such A Program for Small to Mid-Size Utilities?

Small to Mid-size Utilities want all of the benefits an AMI system has to offer, but lack the funds, project management resources, and most importantly the ability to Take Care of an AMI System over its Lifetime.



Challenges



Asset Management with Metering Maintenance Program

What's Included?

Initial Assessment

- Metering Questionnaire
- Efficiency Improvements
- Accuracy Gain Projection
- Business Case
- Financial Benefits
- Workshops
- Site Visits
- Technology Selection
- Project Design
- Pricing

Financial Solution

- Investment Spread
 Over Five Years
- One Year Delayed First Payment
- Annual Operation & Maintenance Service
- Scope of Work

Deployment

- Propagation Study
- Project Management
- Supply Water Meters
 - Local Distributors
- Supply Metering Technology
 - Hardware
 - Backhaul Communications
 - Software
- IT Implementation
 - Includes Transfer file MDM to Billing
- Installation Services
 - Network
 - Meters/Endpoints



Maintenance & Supervision

- Continuous Condition Assessment
- AMI Network Preventive & Corrective Maintenance
- Meter Corrective Maintenance
- Transmitter Corrective Maintenance
- Software Support and Upgrades
- Monitoring, Hosting Services & IT Support
- Backhaul Communications
- System Training



Quarterly Reporting





AMI Metering Asset Management & Maintenance Program:

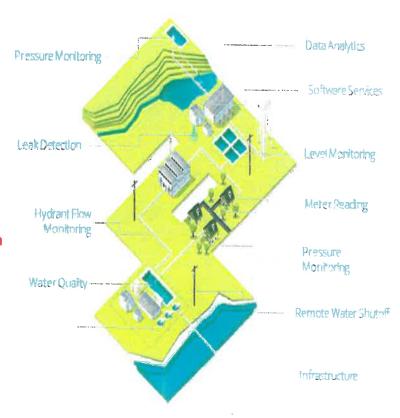
Benefits of AMI



Today's Solution – Benefits of AMI

Benefits of AMI

- O Data Resolution
 - Hourly Water Meter Readings
- Revenue Enhancement
 - Reduce Billing Adjustments, Theft Detection, Revenue Forecasting
- Operating Cost Savings
 - Meter Reading Cost Savings, Customer Service Call Savings
- Improved Customer Service
 - Reactive to Proactive, Anticipate Notifications, More Detailed Information to Customer, Resolve Inquiries with First Call. Flexible Billing
- Operational Tools
 - Conservation, Right Sizing, Water Accountability
- Better Asset Management
 - Asset Accountability
- Responsible Resource Management
 - Reduce Non-Revenue Water





Benefits of AMI: Real World Experience

Real-World Experience

- Reductions is number of field investigations by utility personnel
- Reductions in volume of inquiries at call center (After an initial increase)
- Oldentification of significant theft
- Non-revenue water reduction
- Extremely high performance 99%+ expected read rate

Benefits



AMI Metering Asset Management & Maintenance Program:

AMI System Selection with Propagation Study



Recommendation

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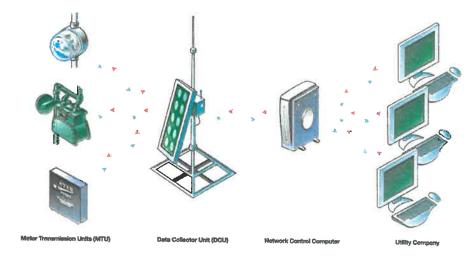
SELECTION

ACLARA STAR AMI SYSTEM

- O Benefits:
 - Open System, Customer Portal Option
 - Water, Gas and Electric, Leak Detection, Pressure
 - Powerful Analytics
 - User Friendly Software
 - Expandable
 - Low Cost Infrastructure with a Level of Redundancy

Positive Displacement

- O Benefits:
 - Solid Manufacturer
 - Mechanical
 - Local Distribution

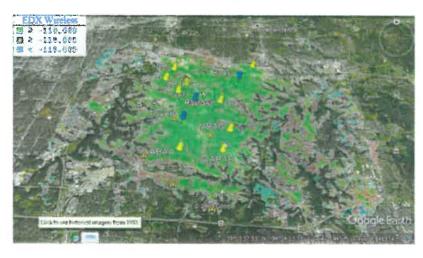








Propagation Study



DCU Location Name	Latitude	Longitude	Antenna Height	Туре
ABAA	38,97319662	-94.47686667	30	Aciara Site
ABAD	39.02886562	-94.49232075	30	Aclara Site
ABAH	39.0404579	-94.42587671	30	Aclara Site
ABAF	39.02379412	-94.47707345	30	Aclara Site
ABAG	38.98608096	-94.44576183	30	Aclara Site
ABAI	39.03850855	-94.48724427	30	Aciara Site
Tower2	38.994531	-94.476738	80	Tower
ABAE	39.01637121	-94.48203459	30	Aclara Site
Tower3	39.029526	-94,437294	60	Tower
ABAC	39.00820306	-94.45174387	30	Adara Site
ABAB	38.97200884	-94.45065667	30	Adara Site
Tower1	39.009821	-94.469472	100	Tower

Raytown, MO Water Full Deployment Propagation Study. Extended Pit Endpoints

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Produted Coverage			
Predicted Redundancy	MTU Coverage %	Overall Coverage %	
Single	1.3%	99.9%	
Double	17.2%	98.6%	
Triple	81.4%	81.4%	

DCU Count	برورية بجراناته وسالات	A CONTRACTOR OF THE PARTY OF TH
OCU Site Type	DCU Count	
Customer Sites	3	
Aclara Proposed	9	
Total DOUs	12	

DCU Site Type	DCU Count	Antenna Height (ft)
Electric Pole	N/A	N/A
Non-Transmission Pole	N/A	N/A
Roof Mount	N/A	N/A
Tank / Tower	3	varied
Lattice Tower	N/A	N/A
Actera Proposed Pole	9	30
Total DCUs	12	

Contomer Data			
Туре	Provided Count	Modeled Count®	
Meters	5,157	5,157	
Customer Assets (Non-Poles)	5	3	
Customer Poles	n/a	n/a	

Etralcommental Factors	
Solar Panels Required:	1
Solar Panel Tilt:	49
Area Wind Rating > 120 MPH:	No
Antenna Type:	EM Wave

Metric	Value
Total Area (SqMI)	20
Avg. MTU per SqMi	258
Avg. MTU per DCU	430
Highest DCU Elevation	1,055
Lowest DCU Elevation	880



WATER MTU FEATURES AND FUNCTIONALITY

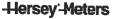


- Hourly reads (configurable)
- Transmits to head-end four times per day (configurable)
- Time synchronized for system-wide snapshot
- · On-demand readings
- Over-the-air firmware and configuration updates
- · Stores 96 days of hourly reads
- AES 256 encryption: NIST compliant security
- Remote shutoff valve control
- Compatible with all major water meters
- Under or through-the-lid install
- Multiple industry-standard connectors
- 20-year battery life
- IP68 rated
- Single and Dual-port

















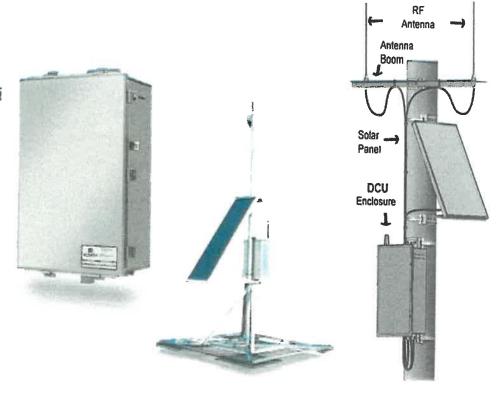






DATA COLLECTOR UNIT

- Solar or AC powered
- Cellular (LTE), fiber optic, Ethernet, Wi-Fi and Wi-MAX WAN backhaul options
- Minimum antenna height (30')
- Flexible installation options:
 - Roof
 - Water tank
 - Street light
 - Utility pole
- No repeaters required
 - The redundancy designed into the network makes repeaters unnecessary



AMI Metering Asset Management & Maintenance Program:

Proposal with Cost Justification



Project Equipment

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Equipment:	Quantity
Aclara Technologies Network STAR® Data Collecting Units (DCU) & Ancillary	
Components	12
Aclara Technologies Model 3450 STAR® Single Port Endpoints for Water Meters	6,811
Software as a Service (SaaS) - Application Support Service	Included
Billing Interface	Included
Consumer Engagement	Included
Project Management w/Project Manager	Included
Annual Training	Included

Meters

Water Meters 5/8" to 6" Sizes	6,811
Composite Pit Lids for Residential Meter Boxes	Included
Water Meter Installations (with GPS locating)	Included



Cost Justification - Water Meters

Assumptions

Number of Water Meters	6,811	meters
Population Served	28,993	
Average consumption	40	gpcd

Water Rates	\$7.11	kgal
Sewer Rates	\$0.00	kgal
Age of Meters	12	years
Non-Revenue Water	9.2%	

Meter Reading Cost	\$3.00	per read
Number of Customer Service Calls	300	
Cost for Customer Service Call	\$65.00	per call

Cost Savings

Total Cost Savings	\$39,933	per month
Customer Service Calls	\$19,500	per month
Meter Reading Cost	\$20,433	per month

Revenue Enhancement - 5%

Annual Financial Benefit	\$626,820	
Total Revenue Enhancement	\$12,302	per month
Sewer underbilling	\$0	per month
Water underbilling	\$12,302	per month

Firm Pricing*

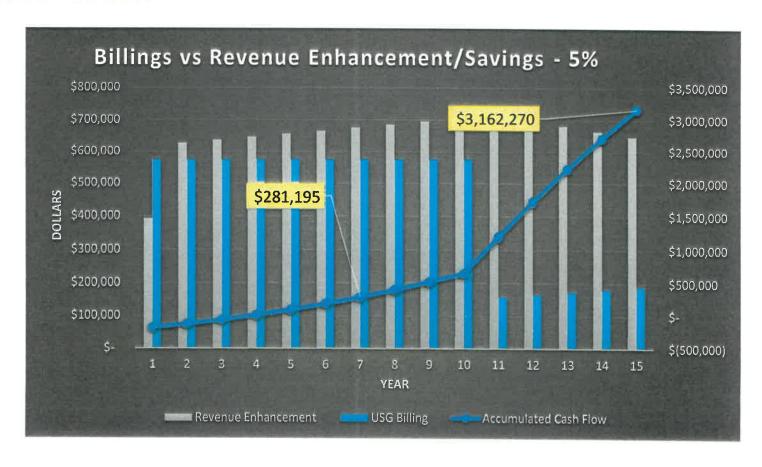
Annual Fee Year 1 (Paid in Full)	\$3,870,050	
Annual Fee Year 1-7 (Spread)	Refer to GC Document	
Annual Fee Year 1-10 (Spread)	Refer to GC Document	
Annual Fee Year 1-15 (Spread)	Refer to GC Document	
Maintenance Fee: Years 1-15	\$98,975	

*Municipal Lease *Firm Pricing *Subject to Mutual Standard Terms and Conditions and Annual Cost of Service Proprietary and Confidential



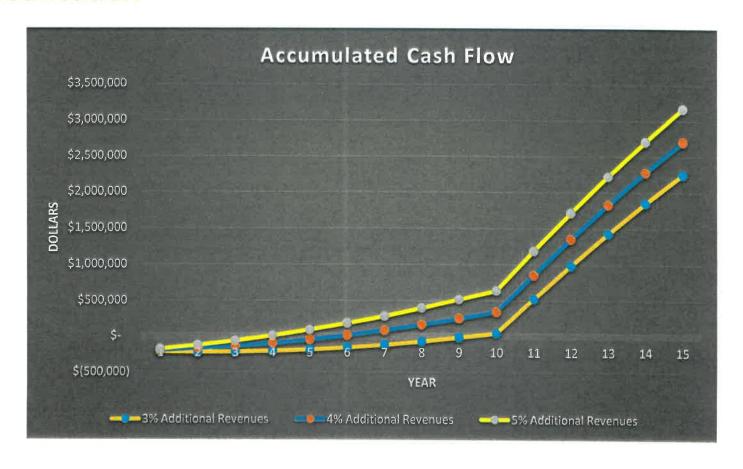
Justification

Cost Justification





Cost Justification





AMI Metering Asset Management & Maintenance Program:

Asset Management with Maintenance Program



Operation Support & Maintenance What's Included?

Annual Support & Maintenance with Asset Management Program	
NCLUDES:	
Full Comprehensive Asset Management Program	Included
Preventative and Corrective Maintenance	Included
AMI System Monitoring Service	Included
Labor (Travel and Expenses) and Batteries	Included
DCU Backhaul Costs	Included
DCU Maintenance	Included
Hosting Fees (SaaS)	Included
Hosted Software License and Maintenance Fees	Included
Application Support	Included
Guaranteed AMI System Performance	Included
All Firmware Updates	Included
Manufacturers Guarantees	Included
Training	Included



AMI Metering Asset Management & Maintenance Program:

Case Studies



References - Case Studies

Case Study - Concordia. MO

CASE STUDY
METERING SERVICES

Project Summary

Customer: City of Concordia, MO

Type of Project:

Metering Maintenance Programincluding installation of a new AMI system and new maters - Actera® AMI System with Sensus® water maters.

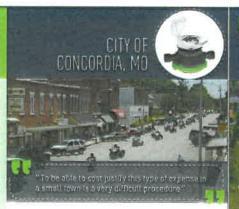
Date: 2016

Results:

- Increased meter reading efficiency (100% reading)
- Increased revenue generated by more accurate readings and more efficient process
- · Improved cash flow
- Improved Customer Service
- Increased availability of Utility Staff resources for other activities

Saletions

The Innovative metering services gleanam from SUE2 Water Advanced Solutions which altern the AM infrastructure cross se he spread over made years helped the City of Concerdia successfully sobres the project to the Board of Alderman.

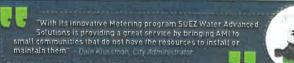


"Hearts in Harmony Since 1860" wall describes the City of Concordia, MO. This small community is located between Kamasa City and Columbia and offers residents a great place to live and a rural lifestyle to its 2340 residents. Concordia Lake supplies the surface water to the city

Small communities often find it a challenge to have funds on-hand for yearly maintenance and major capital expenditures without an emergency event taking place. Concordia was no different.

One of the major projects the City considered was replacing the aging moter population and a 15 year-old touch read system - which required a lot of labor-intensive maintenance - with a new Advanced Metering Infrastructure (AMI) system that would allow them to bill directly from City Hall instead of using manepower and resources to go out, bring back, and process data for the City treasurer to issue water bills.

To be able to cost justify this type of expense in a small town is a very difficult procedure" says City Administrator - Dale Klussman. However, the innovative metering services program from SUEZ Water Advanced Solutions which allows the AMI intrastructure costs to be spread over many years helped the City of Concordia successfully submit the project to the Board of Alderman. After reviewing the specifics of the project, the Board agreed that the new AMI system would yield considerable benefits and pay for itself



More efficiency, increased revenue

Est: 6%; Actual: 12-18%

Not only do the newly installed AMI system and meters spare the Utility staff the laborious task of manually reading and collecting data from thousands of meters but they also provide much mere accurate data compared to the provious aging meters. The increased accuracy of the system has already allowed the Utility to capture significantly more revenue. The infliat installation of the metaring infrastructure was done by SUEZ, allowing Utility staff to focus their attention on other important projects. All future maintenance of the automated system with also be performed by SUEZ which should further increase tabor efficiencies. "The ability to tep more than four employees - running a small community that is an avail powerful statement in my opinion" says Date Klussman.

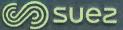
Better Customer Service

The new AMI system provides near realtime usage data on all oustomers which allows the Utility to be more proactive, quickly alerting customers of potential water leaks for example, More accurate data atoo means less bitting disputes and better customer service overall. "Our Customer Service has improved dramatically with the availability of hourly data on any given account at our finger tips allowing us to communicate with our customers about any problem they are experiencing' confirms Date Riussman.





Utiling Service Co., Inc. 1210 Co.; Introduction of Co., Inc. 1210 Co.; Introduce England America Co. 12100





References - Case Studies

Case Study - Greensboro, MD

CASE STUDY METERING SERVICES

Project Summary

Customer:

Town of Greensboro, MD

Type of Project:

Metering Maintenance Programincluding installation of a new AMI system and new Meters - Aclara® AMI System with Noptune E-Coder® water meters

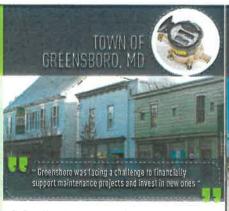
Date: 2016

Results:

- Increased meter reading efficiency (180% reading)
- Increased revenue generated by more accurate readings and more efficient process
- · Improved cash flow
- . Improved Customer Service
- Increased availability of Utility
 Staff resources for other
 sethities.

Solutions

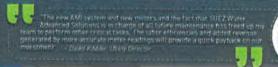
The new AMI system combines radio frequency branchisters with ever 2011 feature. Except the water energies and an easy to see eatherer to provide the atting with near rand-firme data. The new eater maters use state-of-the-art technology to accurately display readings on concumption ratio of flow, and indicate direction of flow and possible teaks.



The Town of Greensboro is located on the North banks of the Choptank River in Caroline County, Maryland, in this small community of 1931 people, (whing is at its best. Residents, business owners, city officials, all know each other. With its quaint downtown retail are a end broad spectrum of recreational activities, Greensboro is the perfect place to spend a relaxing weekend or a lifetime. Greensboro's potable water is provided by three wells that pump water from the Pine Point underground aquifur. Water is then the rested and seat to the distribution system.

As other small communities, Greensborowes facing a challenge to inhancially support maintenance projects and invest in new ones. Disof the major projects being considered was the replacement of an aging 13 year-old touch-read metering system. On average, it took 4 days to hamausity read and collect the information in the town. However, due to the heavy workload on the town resources, meter reading could only be done on a quarterly basis. In addition to the litter it took to read the meters, the city also knew it was collecting readings from old meters with decreasing accuracy.

Realting that it needed to increase the efficiency of its misraing infrastructure, Greensborn's water system contacted its long-time service partner, SUEZ Water Advanced Solutions (Utility Service Co., Inc.). For the past it years, SUEZ has successfully maintained that town's tank assets under a maintenance program agreement, providing excellent customer service and building a high level of trust. After carefully reviewing the town's requirements, SUEZ recommended the installation of a new Advanced Metering System (AMI) and new water meters. The company installed the new metering infrastructure without putting any burden on the Utility staff and handles all future maintenance so the Utility can focus on its ore competency.



Capturing more revenue

Since their installation, the new and more accurate meters have altowed the Utility to depture more revenue. In addition, the new automated sight can the prevenue in a dictangular than the case of t

The new AMI system and new meters and the fact that SUEZ Water Advanced Solutions is in charge of all future maintenance has freed up my team to perform other critical tasks. The labor efficiencies and added revenue generated by more accurate meter readings will provide a goick payback on our investment asys Utility Director-David Kitoler. With its innovative Metering maintenance program - which allows the Initial AMI infrastructure costs to he spread over time and guarantees a timely preventative maintenance of all equipment for the duration of the contract, SUEZ Water Advanced Solutions is bringing AMI to small utilities, that couldn't afford to install or maintenia AMI interastructure.

Improved Customer Service

The new AM system, provides hourly date on any customer which helps the Utility be more proactive by pinpointing and quickly alarting customers of potential leaks. Thanks to the accurate date collected continuously and available online, the Utility can respond more dispently and efficiently to any customer inquiry or complaint. For example, the enelysis of a customer utility bill over time helps identify recurrent patterns and allows the Utility to understand if and when a true discrepancy occurred, thus reducing billing disputes.







Unity Service Chally: 1250 Deservices Street VIE State 1150 (2) However Bellions #250 Per On 10000





Next Steps and Conclusion:

With the increase in non-revenue water projected for 2020, Suez (USCI) will:

- Replace Raytown Water Co. meters and deploy an AMI Metering system under the Suez Asset Management and Maintenance Program.
- With our financial partners minimize the impact by spreading the costs over 5 to 15 years (municipal lease).
- With our financial partners provide the option to delay billing for 12 months from date of contract. This will allow you to maximize the increased revenue from new water meters, improved customer service, meter reading operation benefits and savings from the AMI system.

Suez (USCI) has been a partner to Raytown Water Co. for many years.

We look forward to being your partner for many more.

Summary



AMI Metering Asset Management: Enhance Revenues and Deliver Superior Customer Service for Raytown Water Co, MO

Raytown Water Co Presentation with Pricing Proposal

Tom Stechmann Water System Consultant

December 10th, 2020



STATE OF MISSOURI

OFFICE OF THE PUBLIC SERVICE COMMISSION

I have compared the preceding copy with the original on file in this office and I do hereby certify the same to be a true copy therefrom and the whole thereof.

WITNESS my hand and seal of the Public Service Commission, at Jefferson City, Missouri, this 29th day of November 2023.

SION OF THE OF T

Nancy Dippell Secretary

MISSOURI PUBLIC SERVICE COMMISSION November 29, 2023

File/Case No. WR-2023-0344

MO PSC Staff

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Raytown Water Company, The

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Enclosed find a certified copy of an Order or Notice issued in the above-referenced matter(s).

Sincerely,

Secretary

Recipients listed above with a valid e-mail address will receive electronic service. Recipients without a valid e-mail address will receive paper service.