

#### **REQUEST FOR PROPOSALS** For **Advanced Metering Infrastructure (AMI) Solutions** RFP # 2025-002

Sealed proposals will be accepted until 2:00 PM CT, January 10, 2025, and then publicly opened and read aloud thereafter.

### Metron

Legal Name of Proposing Firm

### Collin Baxter

Contact Person for This Proposal

720-490-1847

Contact Person Telephone Number

### 5665 Airport B

Street Address of Principal Pl

### 5665 Airport B

Mailing Address of Principal

### **Collin Baxter**

Point of Contact for Contract Negotiations

### 720-490-1847

Point of Contact Telephone Number

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Point of Contact Person E-Mail Address

 Acknowledgment of Addenda (initial): #1 \_\_\_\_\_ #2 \_\_\_\_ #3 \_\_\_\_ #4 #5

NOTE: Any confidential/proprietary information must be clearly labeled as "confidential/proprietary". All proposals are subject to the Texas Public Information Act.

COVER SHEET

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### Regional Sales Manager

Title

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lvd	Boulder, CO	80301		
ace of Business	City/State	Zip		
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Place of Business	City/State	Zip		

### **Regional Sales Manager**

Title



The Business of Water. Simplified.

## NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG)

Metron-Farnier, LLC 5665 Airport Blvd, Boulder, CO 80301

Collin Baxter 720-490-1847 collinb@metronfarnier.com 01/10/2025







North Central Texas Council of Governments (NCTCOG) Project RFP # 2025-002 Proposal for AMI/AMR Water Meter System

Submitted By: Metron-Farnier, LLC Bidding for Advanced Metering Infrastructure (AMI) Project

Project Scope:

Replacement of existing water meters with AMI/AMR meters in the North Central Texas Council of Governments (NCTCOG)'s distribution system.

Prepared For: North Central Texas Council of Governments (NCTCOG) Issued By: Rye Engineering PLC 4210 West Main Street Erin, TN 37061

> Sales Contact: Collin Baxter Metron-Farnier, LLC Email: collinb@metronfarnier.com Phone: 720-490-1847



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#### 1. CERTIFICATE OF OFFEROR AND STATEMENT OF UNDERSTANDING

#### 1.1. COVER LETTER

SUBMITTED WITH ORIGINAL RFP DOCUMENT "ADVANCED METERING INFRASTRUCTURE (AMI) SOLUTIONS-FINAL -METRON"

#### **1.2. LETTER OF INTENT**

Metron-Farnier, LLC is pleased to submit this proposal in response to the North Central Texas Council of Governments (NCTCOG)'s Request for Proposals (RFP) to provide Water Meter Advanced Metering Infrastructure (AMI) to its members in the Great State of Texas. We fully understand the scope and importance of the services requested and are confident that our solution will meet and exceed the expectations of anyone involved in this Cooperative Purchasing Program.

#### **Understanding of Services**

Metron-Farnier understands the RFP's requirements to deploy a modern, reliable, and efficient Advanced Metering Infrastructure (AMI) solution. Metron will use this proposal to demonstrate that we are the world leaders in transmission technology and data. We show that Metron's meters and cellular AMI are the best option for utilities of any size, whether they are condensed municipalities or rural utilities that are extremely spread out. Metron's customers range in size from small, rural utilities with 8 total meters, to the county's largest utilities like New York City, Los Angeles DWP, Detroit, and (more locally) the City of Arlington, TX. Metron's proposal will discuss our supply chain, seamless billing integration, industry-evolving water meters, and most importantly, our award-winning Waterscope Software (featuring 1-minute data leak detection) and cellular AMI. Metron offers an expansive catalog of meters for any application a utility could imagine. Metron meters range from a true 5/8th's meter, to UL/FM Approved Fire Service 6" & 8" metered assemblies. Metron is excited to announce the addition of an Ultrasonic meter, the Spectrum Wave, to its meter catalog. The Spectrum Wave joins Metron's industry leading PD (Altair Ultra Low-Low) and Single-Jet meters to round out the exceptional catalog with the latest technology.

Metron's Prism Register, equipped with 1-minute data and cellular transmission, can retrofit onto almost any mechanical meter in use today. This means that utilities operating under this Cooperative Agreement can transition to a smarter system without the cost or interruption of a full meter replacement. This means that not only can Metron provide a full cellular AMI system, we can fill holes in existing AMI systems, as well as provide an easy transition to a smarter water metering system.

We recognize that the successful execution of this contract will involve delivering any interested parties all necessary equipment, software, integration, training, documentation, maintenance procedures, and specialized services required to:

- 1. Successfully procure and deploy a fully scalable Cellular AMI meter system. Metron's Cellular AMI will scale from 1 100,000+ requiring no utility installed (or paid for) infrastructure. Metron will provide details on our company architecture and leadership team that will leave customers with no doubt that we are the best solution.
- 2. Ensure seamless integration into any billing system (API, Web-Hook, or FTP) and interoperability (3-wire available) or retrofit with any existing infrastructure, if needed.
- 3. Provide a system that exceeds all minimum solution requirements in Section 5.3, while best addressing the 4 goals presented in Section 5.1. Metron will handle the challenges presented in Section 5.2, and allow the utility to overcome them or achieve them in the most efficient way possible.

#### **Proposed Solution and Technical Approach**

Metron proposes a fully integrated AMI system that includes advanced Metron smart meters, a real-time data management platform via our WaterScope software, and comprehensive installation and support services. This solution is designed to provide the Co-OP member with **accurate** and reliable data on water consumption, enabling operational efficiencies, enhanced leak detection, and optimized resource management.



Our technical approach emphasizes proactive project management and close coordination with our customers to ensure a smooth transition to the new AMI system with minimal disruption. Metron's proven methodologies and experienced team will work closely with member cities on every project phase, aligning with their requirements and deployment objectives to ensure measurable and sustained benefits long term.

#### **Authorized Representatives**

The following individuals are authorized to make representations on behalf of Metron for this project:

- Collin Baxter , Metron Regional Sales Manager 5665 Airport Blvd, Boulder, CO 80301 720-490-1847 collinb@metronfarnier.com
- Matt Kosorok, Metron VP of Enterprise 5665 Airport Blvd, Boulder, CO 80301 303.449.8833 mkosorok@metronfarnier.com

This proposal has been signed by the undersigned, a corporate officer with the authority to bind Metron-Farnier, LLC.

Sincerely,

Matt, Kosorok

Matt Kosorok VP, Enterprise Metron-Farnier, LLC

#### 2. KEY PERSONNEL

Company Address: Metron-Farnier, LLC 5665 Airport Blvd. Boulder, CO 80301 Phone Number: 303.449.8833 Email: support@metron-us.com Website: http://metron-us.com/

#### **Key Personnel Overview**

For the proposed project, Metron's team brings together a wealth of experience and expertise in water management, project execution, and customer excellence. Below is a summary of key resources who will be involved in the planning, execution, and ongoing support of this project.



#### Matt Kosorok VP of Enterprise Solutions Years with Metron: 20+

With over 20 years at Metron, Matt Kosorok has played a pivotal role in the company's growth and evolution. Starting his career at Metron in various positions—including project management, product management, and customer service—Matt's extensive experience across departments has given him a deep understanding of both the technical and client-facing aspects of the business. His journey through these roles eventually led him to his current position as Vice President of Enterprise Solutions.

In his current role, Matt is responsible for driving synergy across Metron's diverse vertical markets, ensuring that the company's AI-enabled water management solutions are tailored to meet the unique needs of each client. His expertise in both sales and project execution has been instrumental in expanding Metron's customer base and delivering successful Advanced Metering Infrastructure (AMI) projects across the U.S.

Matt holds a degree in business management and is passionate about leveraging data-driven insights to optimize water usage, reduce operational costs, and enhance system reliability for communities. His leadership, combined with Metron's industry-leading solutions, ensures that clients receive best-in-class service and innovative water management strategies and service, which makes him a key driver of Metron's mission to optimize water consumption through smart technology.

#### **Amy Mustoe**

#### **Vice President of Customer Excellence**

Amy Mustoe is Metron's Vice President of Customer Excellence, dedicated to ensuring that customers achieve maximum value from Metron's advanced water intelligence solutions. Leading a team focused on Customer Success, Amy champions a holistic approach that integrates Support, Account Management, and Professional Services to deliver a seamless and exceptional customer experience.

With a proven track record in building scalable frameworks for customer engagement, Amy empowers her team to exceed client expectations and inspire company-wide excellence at every interaction. Her leadership reflects Metron's commitment to long-term customer success and excellence at every interaction, reinforcing the company's dedication to providing unmatched support in water intelligence solutions and fostering long-term customer success.

#### **Charlie Prosch**

#### **Project Manager, Key Accounts**

#### Years with Metron: 8

Charlie Prosch has been with Metron Farnier for eight years, serving as the Regional Manager for the Pacific Northwest, including Oregon, Washington, Idaho, and Canada. He has successfully cultivated and maintained relationships with notable clients, including several major cities, government agencies, and key distributors such as the City of Seattle Public Utilities, Washington State Ecology, Cancoppas (Canada), Rain Bird, and HD Fowler.

Recently, Charlie transitioned to the Metron Customer Excellence team, where he now supports key utility accounts. In his current role, he assists Regional Managers with project planning and oversees the implementation and onboarding process for Metron's WaterScope<sup>™</sup> Web Portal. His work focuses on ensuring a smooth installation process for Metron's water meters and fostering successful long-term client partnerships.

#### Jim Brown

#### **Solutions Engineer Manager**

#### Years with Metron: 15

Jim Brown joined Metron Farnier 15 years ago, starting as a Project Manager for an AMR installation in Mansville, OH. Following the successful completion of that project, he became Metron's Customer Service Manager. Jim has deep expertise in Metron's complete product range, spanning both hardware and software in AMR and AMI solutions. He has successfully overseen the design and implementation of billing integration projects for various utility customers and is actively involved in training clients on these systems.



Most recently, Jim transitioned to the Metron Customer Excellence team, where he leads a second-tier support group. In this role, he focuses on delivering advanced insights into water usage, resolving previously unidentified issues, and developing creative solutions to complex problems.

#### Tristen Williams Field Services Program Manager

#### Years with Metron: 3

Tristan Williams has been with Metron for over three years, bringing extensive hands-on experience in residential and commercial water meter installation as part of Metron's Customer Excellence team. As Field Services Program Manager, Tristan leads a skilled team of 12 technicians, overseeing installation and service operations across utility, real estate, and commercial sectors nationwide.

Tristan is well-versed in Advanced Metering Infrastructure (AMI) projects, with advanced skills in deploying and maintaining Metron's smart metering technologies to improve water usage efficiency and data accuracy. His strong technical background allows him to streamline installation processes, implement best practices, and troubleshoot complex installation challenges, ensuring smooth project execution and superior customer satisfaction.





#### **3. REFERENCES**

Metron References for this project will reflect NCTCOG membership and range in size from small, rural utilities to the large municipalities with over 100,000 connections.

REFERENCE 1	
Client: <b>City of Buffalo Gap, TX</b>	Client Project Name: Replace/Retrofit 20+ Year Old Meters with Metron Cellular
Client Reference Name & Title: Derek White	
Client Phone Number: <b>325-660-5215</b>	Client Email: buffalogap@taylortel.net
Location of Work: <b>Buffalo Gap, TX</b>	Total Endpoints: 686
Initial Timeframe for Duration and Completion	of Work: <b>2.5 Months</b>
Scope of Work/Description of Work Performed a water utility with 215 upgraded drive-by m about 450 meters of the city's meters that ha completed at NO COST to the city.	(including systems integrated): The City of Buffalo Gap had purchased eters within the year of this project. Those meters were added to d been in the ground for over 20 years. Full billing integration was
Comments: Buffalo Gap was able to replace t	their aged meters with the latest in ultra-low flow PD technology.

Comments: Buffalo Gap was able to replace their aged meters with the latest in ultra-low flow PD technology, drastically reducing water loss and increasing revenue. The City was able to retrofit Metron's cellular registers to their recently purchased meters, which had a significant amount of remaining life. This put their newly installed meters and recently purchased meters onto the same industry-leading cellular system.

#### **REFERENCE 2**

79562

Client: Steamboat Mountain Water Supply

Client Project Name: AMI Upgrade

Client Reference Name & Title: Billy Lodermeier

Client Phone Number: 325-554-7454	ClientEmail: blsteamboatmt@taylortel.net
Location of Work: 429 Graham St Tuscola, TX	Total Endpoints: <b>2950</b>

Initial Timeframe for Duration and Completion of Works June 2022. Completed in 6 Manth

Initial Timeframe for Duration and Completion of Work: June 2022, Completed in 6 Months

Scope of Work/Description of Work Performed (including systems integrated): Steamboat Mountain upgraded its relatively new drive-by AMR system to a Metron Cellular AMI system via retrofit of our Prism- VN cellular registers. Steamboat has since added ~500 Metron Single-Jet meters on new installs and defunct meters. Full billing integration was performed at no cost to the utility.

Comments: Steamboat Mountain Water Supply was able to transition to a smarter, cellular system without the added cost or inconvenience of a full meter replacement. Steamboat's existing meters were less than 5 years old at the time of the retrofit, meaning they had plenty of useable life remaining. Metron S30DB meters are used for new installs and replacing broken meters.



REFERENCE 3	3
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Client: Cityof Gainesville, TX

Client Project Name: Cellular AMI Deployment

Client Reference Name & Title: Kevin Kelcey, IT Director

Client Phone Number: 817-368-8213Client Email: kkelcey@gvps.orgLocation of Work: 200 S Rusk St Gainesville, TX 76240Total Endpoints: 4,000 and counting

Initial Timeframe for Duration and Completion of Work: October 1st 2022- Present. This is an ongoing project that is proceeding as the City's budget and resources allow.

Scope of Work/Description of Work Performed (including systems integrated): Metron has deployed cellular AMI meters ranging in size from residential to 8" through the City of Gainesville. The ultimate goal is to complete their change out with ~7,500 Metron Cellular AMI meters. Metron integrated into Gainesville's billing and customer management system at NO COST to the City.

Comments: The City of Gainesville began a fixed-base AMI deployment that covered the core of their city, about 4,000 out of 11,000 total meters. It soon became clear that fixed-base AMI did not make logistic or fiscal sense as they expanded to the edges of their city. Metron could provide the clear answer with our cellular AMI, which can easily scale and cover the remaining meters with no any additional infrastructure.

REFERENCE 4				
Client: City of Arlington, TX	Client Project Name: AMI Upgrade, Fixed Base Replacement			
Client Reference Name & Title: Jacob Stephenson, Meter Services Supervisor				
Client Phone Number: 817-657-7347 Client Email: Jacob.Stephenson@Arlingtontx.gov				
Location of Work: Total Endpoints: <b>7,500 and counting</b> L100 SW Green Oaks Blvd Arlington, TX 76004				
Initial Timeframe for Duration and Comple	tion of Work: Ongoing project that started in 2023			
Coope of Morely Description of Morely Doute	(including surfaces integrated). Antisetter is nonlesing you wording			

Scope of Work/Description of Work Performed (including systems integrated): Arlington is replacing non-reading meters within an aging, fixed-base AMI system with Metron cellular endpoints atop Metron Single-Jet meters. Metron has also provided Prism Cellular registers to retrofit to recently purchased meters that are not compatible with the current AMI. Full FTP and API integration was performed at NO COST to the City.

Comments: Arlington, TX has over 140,000 endpoints and has evaluated every meter manufacturer on the Market. Over 6 years, Arlington has evaluated Metron meters and determined that our solution is the best option for scalability, sustainability and future proofing their utility.

\*These references highlight Metron's successful deployments and proven capabilities in AMI/MDMS solutions for large-scale clients. Please feel free to call any of these references, or request more to learn more about how Metron has improved life for our utility customers and their end-users.

#### 4. PROJECT-RELATED EXPERIENCE AND QUALIFICATIONS

4.1. APPROACH TO SCOPE OF WORK



The North Central Texas Council of Governments (NCTCOG) has outlined a transformative initiative aimed at providing its members with multiple options/contracts to upgrade their water metering infrastructure through the deployment of an Advanced Metering Infrastructure (AMI) system. This contract will allow NCTCOG members with the ability to modernize their water utility, supporting North Central Texas Council of Governments (NCTCOG) commitment to enhanced operational efficiency, billing accuracy, and customer service.

The existing water metering infrastructure, size of the project, and ultimate choice of solution will vary from member-to-member. Metron promises to provide an upgraded, cellular AMI that will offer a seamless integration of hardware and software to provide real-time water usage data, streamline operations, and support the city's sustainability goals by reducing water loss. Our proposal addresses the unique aspects of this project, delivering a full-scope Cellular AMI solution that will achieve North Central Texas Council of Governments (NCTCOG) and its member's objectives while minimizing disruption and maximizing long-term value for the utility.

#### **Project Goals**

Our approach aligns with North Central Texas Council of Governments (NCTCOG)'s primary goals for this initiative, focusing on the following objectives:

- Enhancing Billing Accuracy and Reducing Water Loss: The AMI system will enable precise metering, minimizing discrepancies in billing and supporting proactive water conservation efforts. The system will allow for early leak detection, helping the member utility identify and address water losses efficiently. Metron provides an industry-leading line of water meters that ranges in technology from Ultra-Low Flow Positive Displacement; to wide-ranging and long-lasting single-Jets; all the way to Ultra-Sonic.
- 2. Delivering Accurate Water Consumption Data: With Metron's cellular AMI, the member utility will have access to accurate, timely data on water usage, which can be shared transparently with customers via a no cost portal and iOS/Android app. Access to this data enables customers to make informed decisions about their water use, supporting community engagement in conservation efforts.
- 3. Improving Customer Service: By providing daily, 1-minute interval meter readings and enhancing billing accuracy, Metron's Cellular AMI system will reduce manual intervention and customer complaints related to billing discrepancies. The near, real-time data from the new metering system will empower North Central Texas Council of Governments (NCTCOG) members to address customer inquiries more effectively and efficiently. Metron's 1-minute analytics, paired with AI and Machine learning, provide unparalleled insights and put the most useful information directly into the hands of customer service.
- 4. Enabling Cellular Reading and Management: Our proposal includes implementing a system capable of cellular connectivity, allowing the city to read and manage meters remotely. This functionality will improve operational efficiency, reduce labor costs, and eliminate the need for physical access to meters, which is especially advantageous in remote or hard-to-access locations. Metron's Cellular AMI requires no additional infrastructure and uses existing cellular networks to provide a completely scalable system with unmatched coverage. It also puts management of the network in the hands of those most capable, the cellular giants like Verizon and AT&T. NTCOG members will not have to waste time or manpower managing a network. Metron's cellular endpoints can also be retrofit onto almost any existing mechanical meter, meaning a member may migrate to a smarter system without the need to fully replace an existing meter.
- 5. Replacement and Installation of All Meters: Should it be necessary, our team will oversee the installation of all customer and production meters, including the careful inspection of each meter pit. During this process, we will document the type of pipe material present on both the utility and customer sides of each meter. This comprehensive documentation will provide North Central Texas Council of Governments (NCTCOG) with a valuable dataset for future asset management and maintenance planning.

Conclusion



Implementing an AMI system for North Central Texas Council of Governments (NCTCOG) members will be transformative, yielding operational and customer service benefits that align with the member's goals. Our team is prepared to deliver a solution that not only meets but exceeds the outlined objectives, ensuring the member and its residents realize substantial value from this strategic infrastructure upgrade.

Metron understands that the North Central Texas Council of Governments (NCTCOG)requires a robust Advanced Metering Infrastructure (AMI) solution designed to enhance water management, improve operational efficiency, and deliver accurate, real-time data. We recognize that the member's goals include reducing water waste, optimizing consumption, and enhancing operational efficiency while providing customers with access to real-time data to promote conservation. Additionally, there is a need for a scalable system that integrates seamlessly with existing infrastructure.

Our approach to the North Central Texas Council of Governments (NCTCOG) member's AMI projects is centered on collaboration, innovation, and a structured methodology. We begin with a comprehensive needs assessment to understand the current infrastructure and specific requirements. This initial phase involves developing a detailed project plan that outlines timelines, milestones, and resource allocation. Following this, we focus on the design and customization of the AMI solution to meet the City's unique needs, ensuring that the selected metering technology and integration protocols align with the existing systems and goals.

The implementation phase involves a phased deployment strategy to minimize disruption to city operations. This includes the installation and testing of hardware, configuration of software, and training of city personnel. Post-implementation, we provide ongoing support and maintenance, monitoring system performance, addressing issues promptly, and implementing enhancements to ensure optimal functionality.

In summary, Metron is committed to delivering a state-of-the-art AMI system that aligns with the North Central Texas Council of Governments (NCTCOG)'s goals. Our tailored solutions are designed to fit the City's specific requirements and challenges, with a focus on continuous improvement and leveraging emerging technologies. Through this comprehensive approach, we aim to support the City's objectives and lay a solid foundation for future advancements in water management.

#### 4.2. COMPANY IDENTITY

Metron-Farnier, LLC, a limited liability company established in 1991, headquartered in Boulder, Colorado, is a prominent provider of advanced metering solutions for the U.S. utility sector with extremely successful deployments in all 50 states, Canada, Guam and Turks and Caicos. Our firm is distinguished by its extensive experience and robust capabilities, with a dedicated team that includes over 200 professionals. This team comprises experienced management, skilled technical staff, and dedicated support personnel, all working collaboratively to deliver high-quality metering solutions.

Metron has been supplying high-quality water meters to major clients, including the New York City Water Department, since the late 1990s. Our offerings, which include our in house manufactured, C712 compliant Single-Jet Water Meters have consistently demonstrated superior performance and reliability, as evidenced by a commissioned study by Veolia, which highlighted their enduring "New Meter Performance" even after extended use over 10+ years.

Metron has a presence in all 50 states and operates through a well-structured network of offices and facilities while still providing all products manufacturer direct. Metron also maintains a subsidiary in Paris, France, which specializes in the production of meter measuring elements. All end-point hardware and firmware are engineered and manufactured in Boulder, Colorado. Additionally, our award-winning WaterScope cloud platform is developed and maintained by teams based in Boulder, Colorado, and Pune, India.

Metron is a leading provider of AI enabled smart water management solutions that provide our customers with best-inclass, high-resolution, and real-time water use intelligence. Metron offers both the hardware required to monitor water usage and identify costly leaks as well as WaterScope, our advanced water data software that evaluates water usage and allow our customers to quickly and easily identify risks, reduce consumption, and ultimately, increase property values. With over 30 years providing smart water solutions, Metron now has over 8,000 networked customers and 500,000 installed network devices that have saved over one billion gallons of water through enhanced efficiencies, usage reductions and leak mitigation.



Our firm's size and structure reflect our commitment to excellence and our capacity to manage small and large-scale projects effectively. We hold the necessary licenses and possess the technical expertise required to deliver high-performance metering solutions tailored to the needs of diverse utility projects.

In 2019, Metron partnered with XPV Water Partners, the world's leading water investor. XPV has extended the investment horizon based on their conviction in Metron's growth potential. Metron has the technology in place to execute on the next phase of the growth plan.

Metron is committed to sustainability, focusing on water conservation and minimizing environmental impact. Our smart water meters enable utilities and customers to monitor and reduce water usage, directly contributing to conservation efforts. The company employs energy-efficient technologies and promotes cloud-based solutions to reduce the

With a track record of successful AMI implementations across municipalities such as Arlington, TX; Springfield, MA; North Las Vegas, NV; and New York City, NY. Metron has demonstrated its capability to seamlessly transition utilities from legacy systems to advanced, real-time AMI infrastructures. Leveraging existing cellular networks like Verizon and AT&T, our AMI solution provides synchronized minute-by-minute consumption data without requiring additional infrastructure investment. This not only reduces operational costs but also enables utilities of all sizes to gain critical insights into water usage trends and optimize resource management.

Key features of our WaterScope VN system include:

- WaterScope Platform: A cloud-based platform that offers utilities comprehensive usage analytics and conservation tools. The platform is accessible to both utility managers and consumers, without incurring additional fees, empowering end users to track and manage water consumption efficiently.
- **1-Minute Data Analytics**: Metron's endpoints capture consumption data in 1-minute intervals, giving utilities unprecedented visibility into consumption patterns, enabling early leak detection, peak flow management, and more granular resource control.
- **Retrofitting Flexibility**: Our VN system endpoints are designed to retrofit onto existing mechanical meter bodies, ensuring compatibility with current infrastructure and reducing overall deployment costs.

Metron remains committed to providing innovative, scalable, and cost-effective AMI solutions that support the evolving needs of water utilities, offering a system that is as reliable as it is transformative.

Metron's project management approach emphasizes comprehensive planning, clear communication, and meticulous execution. We deploy dedicated field service teams equipped with advanced tools and technology to ensure successful project delivery. Metron's AMI solutions provide utilities with a robust, scalable, and cost-effective approach to water metering and management. By integrating high-resolution data capabilities with user-friendly management platforms, Metron empowers utilities to enhance operational efficiency, improve customer service, and achieve greater water conservation.

Metron has a strong leadership team and skilled professionals who will be directly involved in this project. The key officers include Carolyn Parent, CEO, and Jay Glover, VP of Sales, both based at the Boulder, Colorado headquarters. In terms of project management and execution, Matt Kosorok, VP of Enterprise, will oversee the overall project, while Michael Drake, Director of Engineering, will manage the technical aspects. Collin Baxter will be your main point of contact for North Central Texas Council of Governments (NCTCOG).



#### 4.3. RELEVANT PAST PROJECTS

Include examples of 3 three relevant past projects that demonstrate your experience and success in delivering AMI solutions, particularly those involving local government or similar entities. For each project, provide the following details:

Project 1: (Small, Rural Utility) Steamboat Mountain Water Supply Tuscola, TX

1. **Project Description**: Initial Project: Retrofitting 2500 existing Master Meter BL-05 residential meters with a Metron Prism Register

Project since: installation of 1000+ Metron S30DB Single-Jet residential Meters

- 2. Client: Steamboat Mountain Water Supply
- 3. Technologies Used: Cellular AMI, Register Retrofit to existing mechanical meters, Billing Integration to RVS

4. **Results**: Steamboat Mountain covers a massive area south of Abilene, TX. They had purchased a drive-by AMR system 4 years prior to finding Metron, but the operation inefficiencies quickly became clear. Steamboat wanted to move to a more advanced system to gather data more regularly and without having to drive around to obtain the information. They also wanted to provide their customers with a customer portal. The existing meter bodies had plenty of life left on them. Metron was able to provide a Prism register to retrofit their existing meters. Steamboat then experienced a period of rapid growth and added almost 600 connections in one year. Metron provided and continues to provide industry-leading Single-Jet Meters to Steamboat mountain moving forward. Metron Single-Jet meters record on average 15% more water than the other meters in Steamboat's system because of their extended low-flow capabilities.

Steamboat Mountain WSC sees a huge reduction in operational costs and unaccounted for water because of Metron. They have also reduced customer service load by providing Metron's portal to all customers at no cost. Steamboat has more time to focus on the important issues like leak mitigation and system maintenance, while providing their customers with an enhanced system that enables them to take ownership of water usage.

#### Project 2: (Medium Sized Rural City) Bryant, Arkansas

1. **Project Description**: Bryant, AK went through a rigorous pilot programming involving Metron, Badger, Sensus, Neptune and Master Meter. After extensive analysis, Metron was announced the obvious winner. Metron, working with a 3rd party installer, replaced ~9,500 meters. Metron was able to deliver all 9,500 meters within 9 weeks and the project was completed ahead of schedule.

2. Client: The City of Bryant, Arkansas

3. Technologies Used: Metron Cellular AMI, Waterscope, Billing Integration

4. **Results**: The City of Bryant revolutionized their water utility with Metron's cellular AMI. The City's utility covers a very large area, covering the City all the way out to its many rural suburbs. Metron's system provided the City of Bryant with 97% DAILY reads following initial install. Metron and Bryant are currently undergoing the final trouble shooting to get this number up to 99%. The City of Bryant went from a drive-by AMR providing monthly reads and over 700 re-reads/month to a system providing them all but ~200 reads each day. Metron provides Bryant with 99.9% billing reads/month, all with no additional infrastructure or work from a utility employee (aside from initial setup). Bryant, AK has drastically reduced unaccounted for water and is generating an EXCELLENT ROI from the project. Please ask to see the video of the head of Bryant's Water department speaking on the success of Metron's system within his utility at a company sponsored event.

#### Project 3: (Large Utility) City of Arlington, TX

1. **Project Description**: The City of Arlington made the decision to begin migration to a cellular system from their 15 year old, fixed-base system. It had been failing more regularly and as they expanded, made less and less sense for coverage in new areas. After piloting Metron products for almost 6 years, they made the decision to award a contract to Metron that has resulted in >\$2.8 million in spending over the last three months (started Oct 1st, 2025). 2. **Client**: The City of Arlington, TX

3. **Technologies Used**: Metron cellular AMI, Metron Single-Jet Meters, and full FTP integration into Metersense their current MDMS/customer portal.



4. **Results**: Arlington evaluated many, many options for metering beyond their current fixed-base system. After extensive analysis, they decided Metron cellular was an excellent path forward. Arlington can retrofit newer meters with Metron's cellular endpoint, while replacing nonreading or non-smart meters with a Metron meter equipped with the same endpoint. Metron immediately integrated our Waterscope software via FTP into Metersense and Inquesta billing, meaning that our data flows seamlessly into their systems and it does not matter if they place an existing meter or a Metron, the data all ends up in the same place. Arlington reports that they are able to install 5 Metron meters in the same amount of time that a SINGLE meter install would take with their previous company. Arlington has realized better than 99% read rates in areas that were previously unreachable without a serious expenditure. Metron will continue to fill holes, replacing nonreading/dead meters, and retrofit existing meters within the City of Arlington for years to come.

#### 5. TECHNICAL PROPOSAL

#### 5.1. PROJECT GOALS AND DESIRED OUTCOMES

• Goal 1: Provide a Versatile Water Metering Solution Challenge: Develop a metering system that can be customized to suit different environments, infrastructure types, and pipe configurations across TXShare's member entities, ensuring compatibility with residential, commercial, and industrial areas.

Metron's meters and cellular AMI system is highly customizable to suit various utility types, infrastructure types, and pipe configurations across North Central Texas Council of Governments (NCTCOG)'s member utilities. Metron can directly provide a wide range of meter sizes from 5/8" to 8", ensuring compatibility with residential, commercial, and industrial areas. Metron has also established strong relationships with companies like McCrometer and Siemens to ensure that we can bring even the largest meters onto our system.

The Metron Prism register endpoint and its built in cell chip, offers significant advantages such as a 20+ year battery life and high data resolution, capturing usage intervals down to a single minute. The Prism register uses a unique and configurable magnetic sensor to track water consumption in mechanical meters. The Prism cellular register can be retrofit onto almost any existing mechanical meter, allowing for a utility to transition to a smarter system with no need for a full meter replacement. The Prism registers can function using of several cellular networks, allowing for near 100% coverage in cities and the most rural of areas. Metron's Prism registers can be equipped with a myriad of different antennae, allowing for reads from even the hardest to reach locations.

Metron's Waterscope WaterScope web portal provides comprehensive analytics and remote configuration capabilities, ensuring optimal performance and ease of use across different settings. The system also supports over-theair programming and firmware updates, further enhancing its adaptability and efficiency. Waterscope comes with an included customer portal for all accounts at NO COST to the utility or its customers. Waterscope can be integrated with any existing billing system and provides full API/FTP access, allowing our data to flow freely through any utility system.

# • Goal 2: Implement Advanced Data Management and Integration Challenge: Propose a system that enables real-time, secure data access and integrates seamlessly with a variety of billing and customer service platforms used by TXShare members. The system must provide automated meter reading (AMR) and advanced metering infrastructure (AMI) capabilities tailored to each entity's operational needs.

Our proposed system leverages Metron's WaterScope<sup>™</sup> platform, which provides real-time, secure data access and integrates seamlessly with various billing and customer service platforms. WaterScope<sup>™</sup> can ingest multiple AMI/AMR data, allowing utilities to view data from multiple meter types. It supports automated meter reading (AMR) and advanced metering infrastructure (AMI) capabilities tailored to each entity's operational needs. Waterscope is even capable of providing a hybrid AMR/AMI solution while keeping all of the data in one place. The system ensures accurate, timely data on water usage, which can be shared transparently with customers, enabling informed decisions about water use. Additionally, WaterScope<sup>™</sup> supports integration with billing software such as BS&A through flat file transfers, ensuring seamless data exchange for billing purposes. The platform also offers robust analytics, customizable configurations, and user-defined alerts, enhancing operational efficiency and customer service.

• Goal 3: Achieve Cost-Effective and Scalable Implementation Challenge: Provide a pricing model that supports phased implementation across the cooperative and offers flexibility for entities of different sizes and financial capacities. The



### solution should accommodate both immediate needs and future scalability as more TXShare members choose to participate in the program.

Metron's "market basket pricing" provides scaled pricing for utilities of any size. This approach ensures that both small and large entities can benefit from cost-effective solutions tailored to their specific needs and financial capacities. As a cellular solution, Metron's system does not require any additional infrastructure. Unlike our competition, who rely on relays, base stations and other "fixed-base" infrastructure, Metron uses only the existing cellular networks. Metron customers can leave the network maintenance in the hands of the experts like Verizon and AT&T, removing a large weight off of operation's shoulders. Metron is more than happy to discuss financing options and to relay grant opportunities available to North Central Texas Council of Governments (NCTCOG) members.

• Goal 4: Ensure Efficient Maintenance, Repair, and Meter Replacement Support for Member Entities Challenge: Create a comprehensive support program that provides training, resources, and responsive service for maintaining and repairing metering systems. This program should facilitate timely meter replacements and repairs, minimizing service disruptions. Additionally, propose a proactive maintenance schedule and a streamlined issue-reporting process that can adapt to the varying needs and capacities of TXShare member entities.

5.2. KEY CHALLENGES

• Challenge 1: Multi-Environment Compatibility Develop an advanced water metering infrastructure solution that supports diverse installation conditions found among TXShare members, including varying pipe materials, meters, sizes, and locations (e.g., underground, indoor, outdoor). The meters should be compliant with regional regulatory standards and adaptable to both urban and rural environments.

Metron has been the industry leader in AMI technology and data for over 15 years. Metron, always being always forward thinking, skipped the "fixed-base" era and pursued partnerships with the largest communication networks in the country in Verizon & AT&T. Metron's Prism registers can incorporate a multitude of antennae for any application. Metron's commitment to innovation ensures that our solutions are not only cutting-edge but also highly adaptable to meet the diverse needs of our clients. Metron's customers range from the smallest rural utilities to the largest cities in the country, including New York City, Detroit, and the Los Angeles Public Water Department, who are all active Metron customers.

Metron's meter offering is extremely wide ranging. We offer a line of in-house manufactured, industry-leading Single-Jet meters that are capable of capturing 15-20% MORE water than a brand new mechanical meter from the competition. We recently produced a state-of-the-art ultrasonic meter capable of detecting water usage with no moving parts. Metron is also the exclusive supplier of the Altair Ultra Low-Flow Positive Displacement meter, which can accurately register flows (within AWWA specs) at 1/50th of GPM. Metron offers a UL and FM approved 6" and 8" Fire Service assembly, as well as provides the world's ONLY Hydrant/Construction meter (the Voyager) equipped with cellular reads and a GPS that updates hourly.

All Metron meters meet and, most often, exceed any regulatory standards (regional and national) in both urban and rural environments. Metron matches or exceeds any warranty provided by the competition for comparative products.

• Challenge 2: Standardized Yet Customizable Data Integration Provide a data management system offering standardized core functionalities while allowing customization to meet the unique integration requirements of each member entity's billing, data management, and customer service platforms. The system must facilitate accurate real-time data transmission, secure data handling, and customer access to water usage information.



Our comprehensive support program for maintaining and repairing metering systems includes the following components:

#### 1. Training and Resources:

- We provide comprehensive training to utility staff to ensure they are proficient in using the system and managing the endpoints. This includes hands-on training sessions and access to detailed user manuals and online resources, all at NO COST to the utility.
- Our WaterScope web portal allows for remote configuration and programming of endpoints, ensuring that utility staff can manage the system efficiently. OTA commands and firmware updates mean that changes can be made without a utility employee lifting a finger.

#### 2. Responsive Service:

- We offer a Maintenance-as-a-Service (MaaS) program that ensures the system is maintained to a minimum of 98.5% of all hourly data for the system over a 7-day period and provides 99.5% of all billing reads within a 72-hour billing window. We have a 30-day window to maintain these percentages and provide alternate means of acquiring billing reads if necessary.
- Our support team is available to respond to any issues promptly, ensuring minimal service disruptions.
- Metron is happy to discuss MaaS with any TXShare members.

#### 3. Proactive Maintenance Schedule:

- We implement a proactive maintenance schedule that includes regular system checks and updates to ensure optimal performance. This schedule is tailored to the specific needs and capacities of TXShare member entities.
- Our electronic work order system, available in the Metron Utility App collects data regarding all types of installation complaints and responses, allowing us to address issues proactively.

#### 4. Streamlined Issue-Reporting Process:

- We have a streamlined issue-reporting process that allows utility staff to report problems quickly and efficiently. Issues can be reported through our WaterScope platform, which provides real-time data synchronization and installation verification.
- Our process includes three verifications of 100% of all meter installations within 48 hours of the install, ensuring that any issues are identified and addressed promptly.
- Metron does daily scans of our software and partner networks to detect problems immediately. Unlike our comeptitors who use 3rd party aggregators, Metron works directly with the cellular companies to identify issues, track them, and resolve them.

By combining comprehensive training, responsive service, proactive maintenance, and a streamlined issue-reporting process, we ensure that TXShare member entities can maintain and repair their metering systems efficiently, minimizing service disruptions and ensuring optimal performance.

Metron's Waterscope MDMS has been nominated for multiple international technology awards for its ability to offer standardized core functionalities while allowing customization to meet unique integration requirements, ensuring accurate near real-time data transmission, secure data handling, and customer access to water usage information. Metron provides a customer portal with each meter, at NO COST to the utility. The WaterScope customer portal provides utility customers with access to machine learning trained usage data (see AMI overview), water budgets, leak/emergency leak and many other important alerts that allow them to take control of their own usage. Utilities can set irrigation schedules that can be tracked and reported on via the Metron system. Metron's system makes customer service and water conservation a top priority and provides our customers with a solution that allows them to do the same.

Metron's utility app, Metron Utility, provides basic work order and meter management functions. Customers can gather GPS data for meters, place/complete work orders, gather reads, and map out the quickest route through any relevant flag (like severe leaks) all via the app. Metron's utility app offers a game-changing experience for our customers that most of our competition relies heavily on 3rd parties for.



Metron's data is stored in a completely open and configurable format, resulting in 100% success in billing integration over the last 30 years. Our WaterScope software also offers API, FTP, and Webhook integrations (made easier by our open data) at NO COST to the customer. WaterScope can provide or accept data for almost any application, making it a true unicorn in a world where companies try to be exclusive.

• Challenge 3: Phased Implementation for Cooperative Scalability Propose a flexible implementation plan that allows for phased rollouts across multiple TXShare members with varying readiness levels. This plan should include strategies for minimizing disruption during installation, clear communication with residents, and efficient onboarding processes for new members joining the program in the future.

#### Metron Response:

To propose a flexible implementation plan that allows for phased rollouts across multiple TXShare members with varying readiness levels, we recommend the following approach:

- 1. Phased Rollout Strategy:
  - Initial Assessment: Conduct a comprehensive needs assessment for each TXShare member to understand their current infrastructure, readiness levels, and specific requirements.
  - **Pilot Phase**: Begin with a pilot phase involving a small subset of meters to minimize risks and ensure readiness for full deployment. This phase will help refine installation workflows, field quality checks, and other processes.
  - Staggered Deployment: Implement a staggered deployment schedule based on the readiness levels of each member. This allows for flexibility and ensures that members can join the program at their own pace.
- 2. Minimizing Disruption During Installation:
  - **Pre-Installation Communication**: Notify residents in advance about the impending meter exchange through mail, phone calls, and door hangers. Provide clear instructions and contact information for any queries.
  - Efficient Installation Procedures: Follow a standardized installation procedure to ensure accuracy and efficiency. This includes confirming service locations, inspecting meter pits, and verifying data collection.
  - **Post-Installation Follow-Up**: Leave door hangers or business cards with contact information, installer name, time of install, and service performed. Ensure that any issues are promptly addressed.
- 3. Clear Communication with Residents:
  - **Notification Process**: Send a mail letter two weeks prior to starting in a new area. If no response, attempt phone calls and leave door hangers to schedule appointments.
  - Installer Identification: Ensure all installers carry ID cards, wear company uniforms, and use vehicles identified with the company logo. This helps build trust and ensures residents can easily identify authorized personnel.
- 4. Efficient Onboarding Processes for New Members:
  - **Training and Support**: Provide comprehensive training for field, administration, and customer service personnel. This includes initial brief training and full training towards the end of the project.
  - **Ongoing Support**: Offer ongoing support and maintenance post-implementation, including monitoring system performance, addressing issues promptly, and implementing enhancements.
  - **Scalability and Flexibility**: Ensure the system is scalable and can accommodate new members joining the program in the future. This includes expanding infrastructure vertically and horizontally as needed.

By following this phased implementation plan, we aim to ensure a smooth and efficient rollout across multiple TXShare members, minimizing disruption and providing clear communication and support throughout the process.

• Challenge 4: Cost Efficiency Develop a cooperative pricing and financing model that offers cost savings through economies of scale. The model should support tiered pricing to accommodate different implementation scales and provide options for financing.



Metron is a completely cellular company, meaning that we do not need to add infrastructure in order to get reads from even the most remote areas. Metron's "Market Basket" Pricing will provide a scaled pricing format that will apply from the smallest to the largest utilities. If a truly large or truly small project wants to consider alternate pricing, financing or other purchasing options, we are 100% open to discussion. Metron's customer excellence program is actively seeking grants, loans or other funds to help support our customers in their water conservation goals.

Metron's pricing in unique in another way. The pricing displayed in our "Market Basket" pricing includes 10 YEARS of cellular service. This cost includes ALL software, customer portal, connectivity, service, support and training. Metron's cost might look higher up front but they are much, much less expensive than our competitors. Contracts can easily be negotiated to include 1 year w/ yearly payments (to Metron) for cellular service of \$8-9/year.

Please see our tiered "Exhibit 2- Metron Market Basket Pricing" and do not hesitate to contact your Regional Sales Manager , Collin Baxter, [720-490-1847] <u>collinb@metronfarnier.com</u> with any questions.

• Challenge 5: AI-Driven Analytics and Predictive Insights Develop an AI-based analytics platform that enhances decision-making for TXShare members by providing predictive insights into water usage patterns, potential leaks, and maintenance needs. The solution should incorporate machine learning algorithms to analyze historical and real-time data, enabling proactive management of water resources. Respondents should address how the AI system can: • Identify anomalies in water consumption that may indicate leaks or inefficiencies. • Provide predictive maintenance recommendations to minimize downtime and repair costs. • Enhance customer engagement by offering personalized usage reports and alerts based on individual consumption trends. The AI-driven platform should be scalable, allowing for continuous improvement as more data is collected and analyzed over time.

Metron collects over a half billion data points each day of water consumption at one-minute intervals across the US. Our water meters log high-resolution water-use for residential, commercial, and utility customers. This data and our advanced analytics allows our system to learn what "normal" consumption looks like for each customer and identify when there are changes. These changes in consumption patterns, as identified by our anomaly detection system, can be classified as leaks, overuse, under-use (or abnormally low usage), or seasonal changes. Near-real-time notifications, driven by these alerts, can then be customized by each end user to ensure they receive the information they need to know when there are issues that need to be addressed.

For instance, a property management company or utility needs to know not only which of its properties has ongoing leaks, potential infrastructure issues, and overuse—they need to know which properties to prioritize. How much will each issue cost if left unfixed? Which issues drive them over budget, in gallons, dollars, or sustainability metrics? Likewise, an individual homeowner under that utility will see the status of their own property. They'll know if there's a spike in usage on a non-irrigation day, or a small ongoing leak that started yesterday when the dishwasher ran. Because our analyses start at the single meter level, we generate consumption reports for every tier of customer.

Using historical data, we perform localized time-weighted regressions to create dynamic thresholds. Meter reads collected every minute and analyzed daily, or reads that trigger emergency reporting thresholds in near-real-time are compared against the historical baseline for the meter; gallons-per-minute must stay above the threshold for a minimum period to trigger an anomaly. We then pass any anomalies forward into an alert classifier, where we label the severity, duration, and gallons lost because of the issue. This allows us to (a) report where customers stand against last month's behavior, (b) report where customers stand in relation to their cohort, and (c) predict whether they'll be under, on, or over budget. This metrics can be in gallons, carbon, or dollars to help the customer prioritize. Our event classification algorithm identifies usage for indoor and outdoor applications, whether showers or irrigation,

Our event classification algorithm identifies usage for indoor and outdoor applications, whether showers or irrigation, providing highly detailed analysis to drive a better understanding of usage patterns and classify anomalies at high resolution, providing information that can directly act upon by end users.



Through consumption reports, customers can also see how their water habits compare to others like them. Our customers include universities, cities, prisons, school districts, large retailers, and thousands of small businesses. Using industry, region, size, and consumption data, we can implement categorical or mixed-type clustering, such as k-modes or k-medoids with Gower's Distance. This analysis provides a similarity metric with which to rank customers. Clustering allows us to answer questions such as, "how do you compare to other large retailers in the Southwest?" Cohort comparison is a competitive sustainability and commercial tool for incentivizing adding value to water customers from individual residents to commercial facilities and utility managers themselves.

#### **5.3. SOLUTION REQUIREMENTS**

Compatibility: Support a variety of communication technologies (e.g., AMI, AMR, fixed, cellular) to accommodate different technical and infrastructure conditions across TXShare members.

Metron offers an industry leading cellular AMI system, as well as a Drive-By AMR system that can be fully integrated into WaterScope allowing for a fully hybrid system. Metron's cellular system is a better alternative to a fixed-base system for both large utilities and small rural utilities.

### Pricing Structure: Offer a cooperative percentage (%) discount pricing model with tiered pricing and flexible financing options, tailored to the size and scope of each member's implementation phase.

Please See "Exhibit 2 - Metron Market Basket Pricing" for tiered pricing suitable for all utilities.

### Data System and Security: Ensure robust data security measures that comply with varying regulations across multiple jurisdictions, protecting consumer information and facilitating secure data transmission.

Metron works with both Verizon and Microsoft Azure to ensure robust data security measures that comply with varying regulations across multiple jurisdictions, protecting consumer information and facilitating secure data transmission. Metron's security meets or exceeds all requirements within the state of Texas. Additionally, Metron continuously monitors regulatory changes to ensure ongoing compliance and adapts its security protocols accordingly.

# • Maintenance and Support: Ensure system efficiency and reliability by offering key maintenance and support offerings to include but not limited to: • System Monitoring and Management • Software Updates and Upgrades • Hardware Maintenance • Technical Support Performance Reporting

System Monitoring and Management: We offer a cloud-based software-as-a-service (SaaS) model for our proposed solutions, which includes comprehensive monitoring. Ask about Water Masters, it will NOT be included in the price sheet as it is a program completely on each utility's needs. Continuous monitoring of the system is performed to ensure optimal performance, including real-time analytics and alerts for various conditions such as leaks, high usage, and unauthorized use.

Software Updates and Upgrades: Regular maintenance is conducted by our internal software engineering team, including updates and patches to the WaterScope platform, ensuring no interruption to day-to-day operations. The system is constantly evolving with updates occurring every three weeks, including security enhancements, scalability improvements, and new features based on customer feedback. Firmware upgrades for endpoints are also supported and can be performed remotely. All software enhancements, upgrades, updates, and patches are included in the pricing structure with no additional annual cost.

Hardware Maintenance: Metron will be responsible for any faulty meters, endpoints, or products covered by warranty. The utility is responsible for replacing damaged antennas and day-to-day chirping of non-reading meters. We also provide preventive and corrective maintenance support for all software. ALL Metron cellular devices are capable of twoway communication, allowing for OTA firmware updates and fixes.

Technical Support Performance Reporting: Unlimited technical support and training are available throughout the life of the contract. There is an escalation process depending on the severity of the issue, with expected response times ranging from immediate for critical issues to within 24 hours for less severe problems. Our support services operate Monday through Friday, from 8:00 a.m. to 5:00 p.m. U.S. Mountain Time, with emergency support available through the Metron Regional Account Manager.



Performance Guarantee and Warranty: Ensure long-term reliability, accuracy and support by providing comprehensive coverage covering all major components of the AMI system, including smart meters, communication devices, data collectors, and software.

Metron Response:

Metron offers an industry standard 20 Year Warranty on meters and electronics for residential use. Please see attached warranty certificates for more information.

Customer Engagement: Offer a customer portal that allows customers to view their daily, monthly, and historical water usage volumes, leak alerts, high consumption alerts, and account information. Include tools and features that enhance customer engagement, such as mobile apps, SMS alerts, and personalized usage reports. Metron Response:

Our customer portal, WaterScope, allows customers to view their daily, monthly, and historical water usage volumes through interactive charts and graphs. Customers can also receive leak alerts, high consumption alerts, and access their account information. The portal includes tools and features that enhance customer engagement, such as:

- Mobile apps available for both iOS and Android devices, allowing customers to access their usage information on the go.
- SMS alerts, email, and automated phone messages for real-time notifications, including emergency leak alerts and high consumption alerts.
- Personalized usage reports and the ability to set up a water budget based on household characteristics, comparing actual usage to the budget.
- The capability for customers to configure individual alerts, including leak notifications, and set monthly and yearly budget goals.
- The option for customers to opt in for various notifications and alerts through the portal or smartphone application.

These features ensure that customers are well-informed about their water usage and can take proactive steps to manage their consumption effectively.

#### Training: Offer a comprehensive training and support plan to ensure smooth implementation and ongoing operation.

We offer a comprehensive training and support plan to ensure smooth implementation and ongoing operation. Our training program is phased and tailored to meet the specific needs of the utility, covering various groups such as field personnel, administration staff, customer service representatives, and billing staff. The training includes: **Field Training**: Covers topics such as Meters, Registers, Antennas, Local Communication, and Configuration. **Administration Training**: Introduction to the WaterScope platform, providing initial login credentials and familiarizing

users with essential functionalities. **Customer Service Training**: Similar to administration training, it includes an introduction to the WaterScope platform,

initial login credentials, and focuses on customer service-related functionalities.

**Billing Training**: Includes WaterScope platform introduction, initial login credentials, and discussions on system interface for billing purposes.

Towards the end of the project, we schedule comprehensive training sessions tailored to each category mentioned above, ensuring utility personnel are proficient in utilizing Metron's technology to its fullest extent. The training schedule and content are customized to meet the specific needs and preferences of the utility.

Our support services operate Monday through Friday, from 8:00 a.m. to 5:00 p.m. U.S. Mountain Time, with emergency support available via the Metron Regional Account Manager. We have an escalation process involving a team of over 20 people, with support tiered based on the severity of the issue. Our customer response policy ensures that we respond to a customer call within one hour and aim to arrive on site within three hours, if necessary. Issues are categorized into five severity levels with corresponding maximum response times, ranging from 24 hours to three weeks.

For problem resolution, we follow a systematic problem diagnosis and decision-making model, including root cause analysis and long-term preventive measures to prevent reoccurrence. Immediate corrective measures are prioritized, especially for service interruptions. We also offer various communication methods, including email, ticketing tools, telephone calls, and face-to-face meetings, to ensure comprehensive and reliable support for all products.



### Scalability: Ensure proposed solution can scale to accommodate future growth in the number of meters and data volume. This includes both hardware and software scalability.

Metron's cellular AMI solution ensures scalability without the need for additional infrastructure, making it easier and less expensive to accommodate future growth in the number of meters and data volume. The WaterScope app is cloudnative, allowing for vertical and horizontal expansion of our underlying infrastructure. This is achieved automatically via AKS (Azure Kubernetes Services) HPA (horizontal pod scaler). Additionally, the system can be separated into separate instances or even into a single tenant instance if required. Our cellular solution leverages existing networks like Verizon and AT&T, eliminating the need for costly infrastructure investments such as propagation studies, property lease agreements, and maintenance of reading equipment. This approach ensures that scalability is possible and costeffective, whether in a 200-meter rural environment or a 100,000+ meter high-density distribution system. **Data Analytics and Reporting: Advanced analytics capabilities to provide actionable insights from the collected data to aid in demand forecasting, load management, and identifying patterns in energy or water usage.** 

#### Metron Response:

At Metron, we leverage industry-leading 1-minute analytics and advanced AI and machine learning techniques to provide actionable insights from collected data. Our WaterScope platform offers a comprehensive suite of analytics capabilities that aid in demand forecasting, load management, and identifying patterns in water usage. WaterScope's features include:

- **Demand Forecasting**: The water budget feature projects usage over a specified date range, helping utilities and customers anticipate future water needs.
- Load Management: WaterScope's macro-level analytics, such as District Metering, Time of Use, and Flow Rate Analytics, enable utilities to manage water distribution efficiently and effectively.
- **Pattern Identification**: The platform provides detailed consumption insights, including monitoring for leaks, high consumption events, unauthorized use, and backflow situations. These insights help utilities and customers understand water usage patterns and take corrective actions.

### Disaster Recovery and Business Continuity: Include robust disaster recovery plans and business continuity strategies to ensure the system remains operational during emergencies.

Our disaster recovery and business continuity strategies are designed to ensure the system remains operational during emergencies. We leverage the high-security, high-reliability features of Microsoft Azure, deployed as a Platform-as-a-Service (PaaS), and utilize the Verizon Cellular Network. Our Meter Data Management System (MDMS) offers full redundancy, daily backups of data, and automatic backfill of missing data. Additionally, we have a comprehensive disaster recovery plan that includes regular backups of all critical data, redundant communication paths, and quick deployment of replacement equipment in case of catastrophic failures. Verizon will place emergency cell towers in disaster-affected areas, ensuring immediate relief and the ability to get reads. This approach ensures that the utility does not need to manage its own network, allowing them to focus solely on the meters.

### Pilot Testing: Before full deployment, conduct pilot testing to identify any potential issues to ensure the system meets all requirements in a real-world environment.

Metron boasts an 80%+ success rate in transitioning pilots to projects. We are happy to provide a pilot program to any utility and demonstrate our ability to meet and exceed all requirements in a real-world environment. Our approach to scheduling for the AMI project will focus on delivering a structured and flexible deployment plan that aligns with the city's timeline while ensuring adaptability. The project will be executed in two primary phases, each consisting of key stages designed to facilitate integration, performance validation, and final system acceptance.

Phase 1 – Initial Deployment and Validation: The first phase of the project will focus on the Proof of Concept (POC) and system acceptance testing. This will allow the city to evaluate the performance and reliability of the AMI system on a smaller scale before proceeding with full deployment. Key tasks in this phase include:

Pilot Meter Installation: Testing and validating system performance with a select number of meters.

System Acceptance Testing: Conducting tests on the POC to confirm the system meets the city's performance and operational standards.

City Feedback and Adjustments: Gathering insights from the city to address any immediate concerns or required adjustments.



We are happy to share success stories and provide references upon request.

#### 6. PRICING PROPOSAL

Please see Exhibit 2- Metron Basket Pricing for details

#### 7. PROPOSED VALUE-ADD

#### 7.1. AMI OVERVIEW

#### 7.2. AMI INFORMATION AND REQUIREMENTS

The Metron AMI system utilizes the existing cellular (Verizon and/or AT&T) network to backhaul 1-minute, time synchronized, consumption data. By utilizing these existing cellular networks, scalability and ease of deployment are evident. Whether you are in a 200-meter rural environment or 100,000+ meter high density distribution system the results are the same, AMI capability with no infrastructure costs. There is no need for municipalities to pay for propagation studies, trouble themselves with property lease agreements, pay contractors to scale water towers or buildings to install reading equipment or endure the long-term cost of maintenance for this equipment. It really is as simple as installing a Prism register or meter today and reading it on our WaterScope web portal tomorrow. Consumption data is stored in the Microsoft Azure storage cloud which eliminates any onsite server needs. The storage capacity is essentially unlimited and can easily accommodate millions of endpoints. The call-in schedule for the endpoints themselves is also randomized as to not 'weigh down' the system in any way.

Our high-resolution consumption data is accessed via Metron's own WaterScope web portal, which was nominated as a finalist for the 2022 IoT "Best Utility and Energy Solution" worldwide. Access to WaterScope is available to the utility, business owners, homeowners, etc. at no additional cost to the utility or the homeowner. We also offer a utility phone app and homeowner phone app. Metron understands that recurring costs can be frustrating to water utilities, so we've taken the approach that the product is an 'All In' bundle. The cost of the meter includes unlimited software access, cellular coverage, and training/support. All software innovation falls under the Metron umbrella that includes the endpoint, head end system, consumer portal, mobile apps, and support. No third parties are involved with our technology, which offers our customers a single phone number to call for any and all support needs.



#### 7.3. METRON SYSTEM ARCHITECTURE









#### 7.4. ENDPOINTS

The Metron system is constructed in a very different way than other AMI systems. The Metron Prism register endpoint has the communications built into the register. There are several advantages to this design, with battery life (20+ years) and data resolution being the most significant. Typical AMI systems have an endpoint that wakes up every hour, or sometimes 15-minutes, to communicate with the meter to obtain updated usage information. That is a very battery intensive operation and is the limiting factor in data resolution. Because the Metron Prism register has eliminated that constant communication (i.e. battery drain), we can capture and store the usage intervals down to a single minute. This gives the utility true GPM calculation and unrivaled water usage analytics never before available. The most unique design feature of the Prism cellular register is its universal compatibility. The Prism register can be retrofitted to the utility's existing mechanical meters. No need to replace your meter to gain access to what the Prism cellular register offers.

#### Prism Register Operation

The register stores the 1-minute intervals throughout the course of the day while the communications aspect is essentially in sleep mode. Then, one time per day, the register will wake up and send the equivalent of a text message over the existing cellular network with time-synchronized midnight-to-midnight consumption data. The data is time-synced so the utility can do macro level analytics such as water loss, time of use, peak flow, etc. on a system wide basis. No more apples to oranges comparison.

The Prism register stores up to 45 days of 1-minute interval data for residential applications and 227 days of 5-minute interval for commercial applications. Should a daily transmission fail, the actual missing data will be backfilled upon the next successful connection. This data may also be retrieved locally via an IrDA communication. The Prism offers full two-way functionality, which allows for over-the-air programming and over-the-air firmware updates. (IrDA as well)

The Prism can be installed in pits or indoors and there are multiple antenna options to ensure connectivity. The pit mount antenna secures through a pre-drilled 2 ¼" hole for deeper meter sets. The paddle antenna (recommended) can be mounted to the underside of the lid. Each option comes in 5', 12', or 20' cable lengths. Our 2-part design allows for cut cables to be remedied without having to replace the entire register, saving the utility in cost/repair.

The Prism is fully submersible (IP68) and operates between -0 to 140 degrees Fahrenheit. Storage is between -20 to 140 degrees. The industry standard warranty is for 20yrs; a full 10-year, as well as an additional 10 years prorated.



WaterScope Dashboard – 1-minute

7.5. HEAD END SYSTEM INFORMATION AND REQUIREMENTS



The Metron head end system, WaterScope, is a web-based platform that is accessed via an internet connection, username, and password. WaterScope is maintained by a group of internal software engineers, which means there are no third-party licensing requirements. Metron gladly takes customer feedback and suggestions to continue to make WaterScope as useful to a water utility as possible. The platform is constantly improving, but the improvements occur with no interruption of day-to-day operations and at no cost to the utility. There are also no recurring charges for the first ten years incurred by the utility for access and no limitations to the number of users. Anybody and everybody within the City can have login access and all users can be logged in simultaneously.

#### **Conditions - Notifications**

As the endpoint transmissions are delivered in the middle of the night the 1-minute analytics are analyzed for several utility defined conditions. The conditions are configurable, and the utility has the option to opt in for auto generated notifications. Those conditions are:

**Leak** – A leak flag is triggered if there were 1440 1-minute intervals that had consumption above 0. Metron feels that if the meter can't register 0 gallons for at least 1-minute in a 24-hour period there is no question there is a leak.

**Threshold Leak** – The Metron residential meter is accurate below 1/50<sup>th</sup> of a gallon per minute. Because of this, the program detects a lot of trickle leaks. To not overwhelm utility personnel with leak notifications, we've established this condition so the utility can filter notifications by a true GPM flow. For example, if 0.25 gpm is considered an 'actionable' leak rate from a utility perspective, WaterScope will only notify utility personnel of leaks greater than 0.25 gpm. The threshold can then be lowered or raised as needed.

**Intermittent Leak** – The intermittent leak is designed to identify leaking toilets, or any other fixture in a home that runs intermittently for extended periods of time. The utility can configure the trigger as to not have irrigation events and/or constant leaks trigger the flag.

**High Usage** – The high usage flag is a configurable daily consumption value. If usage exceeds the daily value, an alert is generated.

**Backflow** – The backflow alert will trigger if a configurable amount of water runs in reverse over a specified period of time. It is also a useful flag for meters that were mistakenly installed backwards.

**Zero Use** – The zero-use condition will trigger if NO water is used over a configurable period. This flag is useful for rental/vacant properties at the homeowner level, but for the utility can be used as a revenue protection alarm for the larger size meters. 30 days seems like a long period of time, especially for larger meters. The user can configure this alarm by meter size.

**High Meter Flow** – This alert will notify the utility if flow rates exceed the high-end capacity of the meter. Can be helpful for right sizing an application.

**High/Low Temperature** – The Metron Prism measures the daily high and low ambient temperature. The sensor is built into the register, so the temperature reflects the meter level as opposed to the temperature at the pit lid level. **Unauthorized Use** – The utility can upload a list of meters that have been shut-off for non-payment and WaterScope will alert to cases where the homeowner has turned the water back on.

**Unexpected Use** – This condition is designed for the homeowner so they may receive alerts if water is used unexpectedly. Use cases would be rental/vacant properties, snowbirds, and vacations.

**Watering Event** – If the City intends to implement watering restrictions now or in the future the Watering Event condition can help monitor those restrictions. Restrictions can be mandatory/voluntary, based on time of day, and the days in a week. The Metron VN system is the only one that offer this as the Prism is the only device that can identify indoor vs outdoor use based on the flow rate.

**Emergency Transmit** – The emergency transmit feature is meant to catch real time leaks. The condition is configurable by meter, and triggers if a configurable amount of flow occurs over a configurable amount of time. In that event the Prism will wake up off schedule and send an emergency text to the homeowner.

NOTE – Some insurance companies will provide a rebate to the homeowner if they opt in for the emergency leak option. This only occurs because of the 1-minute data intervals Metron provides and the real time call in.

#### **Billing Integration & Reports**



The WaterScope program is very flexible with regard to integrating with utility billing vendors. Typically, the integration occurs without the utility having to make any changes. There are also no resolution or multiplier requirements that need to be sent to the WaterScope program.

The most common integration method is a file transfer (text or csv). This file is used to populate the WaterScope site with pertinent information such as the Account Number, Customer Name, and Customer Address. Below is a screenshot of the file transfer screen within WaterScope.

Billing & Reports	Last updated Tue Jul 25	5 2023 09:06:39 📿 ?
Import/Export Generate Reports		
Billing Profile: 311 •		
Billing Import           Select file         Choose File         No file chosen	Billing Export Select date 7/25/2023	
✓ Ignore first line in csv Import		
Click here to download CSV template.		Export

WaterScope supports API integrations and FTP and VPN file transfers. *webapi.waterscope.us/Help* Metron has integrated WaterScope and MUNIS several times in the past using a variety of different file types. WaterScope offers several integrated reports. There are no third-party requirements to generate the reports, and the user may export unlimited numbers of them. The following outlines currently available reports:

Billing Usage – This report returns a consumption value between a configurable date range.

**Read Report** – Provides the current read on selected meters. The user has the option to view the full LCD read, or the scaled billing read.

**Consumption by Meter Size** – Returns a report for aggregated consumption by meter size for the selected range of meters.

**Comparative Report** – Returns comparative usage for a single meter, group of meters, or all meters for a configurable number of years.

**Single Meter Consumption** – Returns interval data for a single meter over a configurable date range. The intervals can also be configured by the minute, hourly, daily, or monthly. This same report can be generated by the homeowner per consumer user access.

**Historic Read Report** – Allows the user to view either the full LCD read or scaled billing read for a configurable date range. The report can be generated by a single meter, group of meters, or all meters.

**Endpoint Configuration Report** – Displays current programming values of the Prism for a single meter, group of meters, or all meters.

Account Daily Consumption – Returns daily consumption values for a single meter, group of meters, or all meters over a configurable date range.

**Consumption Report** – Similar to the account daily report, but this one lets the user view consumption in interval data. Intervals can view hourly, daily, or monthly for a single meter, group of meters, or all meters for a specified date range.

#### **Macro Level Analytics**

WaterScope offers several macro level analytics. The more prominent ones being District Metering, time of use, flow rate analytics, and comparative analytics.

**District Metering** – The district metering groups can be configured regionally as well as systemwide. The utility can easily identify the supply meter(s) and then subsequently assign the demand meters downstream. Adding/removing meters from a DMA group is also very user friendly. Below is a screenshot of the analytic page:



**NOTE:** WaterScope also can monitor cooling towers. Should the City have any downstream cooling towers, the building maintenance group could can monitor for cycles of concentration, faulty valves, etc.

**Analytics Dashboard** – The analytics dashboard gives the utility a customized view of how the water is being consumed within the utility. The breakdown is indoor vs outdoor vs leak. This is a system-wide total. The timeframe can easily be edited to reflect a month or a past week's usage:



**Flowrate Analytics** – The flowrate analytics page allows the utility to view total consumption by flow rate, either system-wide, by a group of meters (i.e., irrigation meters), by meter size, meter type, etc.





**Comparative Analytics** – View consumption differences from week to week, month to month, or by a custom date range for system-wide consumption or by a utility defined group.



**Time Based Analytics** – The utility can utilize time-based analytics to see at what times per day the majority of water is being used. This could be especially useful during summer months to ensure that water supplied is keeping up with demand during irrigation.





#### **Micro Level Analytics**

Aside from the different flag conditions mentioned prior, there are several consumption-based analytical options for the single meter. The Account Lookup screen is the utility bridge to each individual meter. On the account lookup screen, the utility can view the Account Number, Name, Address, Size, 24-Hour consumption, minimum leak rate, maximum leak rate, and low temperature. The user has the option to configure this screen to only display columns of importance to that user.

Users can easily filter by condition, size, type, group, etc. It is also very easy to lookup a particular meter via the Search option. Users can also view single meter configuration, signal strength values, current read, as well as enter notes for specific accounts. Notes are accessible to all users within the utility.

Selec	t All Installed M	eters	* Status All	* C	ondition	NI			* Size All	* Me	ter Usage 🛛 🗛	ll Meters 🔻	Search Search	Reset
Rep	ort *	Total Meters 376	Columns Hi	de/Show										
4														•
(H)	<li>1 2 3</li>	4 5 🕨	F 50 T	tems per page										1 - 50 of 3760 items 💍 🖒
☆	Id	Consumer Name	Address	VN ID	Size (")	Billing Read		24Hr	Min Flow Rate (GPM)	Max Flow Rate (GPM)	Min Temp. (°F)	Read Date	Conditions	
☆	365-3112.03		1499 N Benson	3149299	R	6118		3386.99	15.47	18.14	69	07-25-2023	<b>% 🔨 🔛 唑</b>	£3 👁 差 😡
☆	622-1302.40		1350 San Berna	3149261	4	8144		3745.42	11.97	20.02	69	07-25-2023	💧 % 🕑 🐴	£3 👁 🗲 🕢
☆	676-6190.04	Teitgen, Annette	303 Canterbury	3243962	R	307		1986.75	8.62	32.12	71	07-25-2023	💧 🔀 🔨 🛊 🔛 💆	£3 👁 差 😡
☆	521-1004.17		730 Emerson St	3219546	R	209		1571.6	6.87	22.54	71	07-25-2023	🚫 🔀 🐴 🔛 唑 📀	£3 👁 🔑 😡
☆	591-0540.21		1808 W Foothill	3243778	R	2183		749.66	3.77	5.57	82	07-25-2023	🚫 1 🕐 🔁	£3 👁 差 😔
☆	638-1246.02		1869 N Campus	3149800	2	6935		2005.58	3.45	50.52	68	07-25-2023	🚫 % 🎯 🐴 🔛	£3 👁 🔑 😡
☆	676-0850.40		2052 N Euclid Ave	3194022	R	784		878.39	2.92	16.06	73	07-25-2023	💧 🔀 🕐 🐂 🔛 坐	£3 👁 差 🕢
☆	531-1428.17		2073 N Albright	3217925	R	398		634.31	2.85	15.86	71	07-25-2023	💧 🔀 🕑 🐂 🔛 👱 🛽	£3 👁 🔑 😡
☆	638-1264.01		1902 N Campus	3149776	2	6968		1603.49	2.55	22.64	69	07-25-2023	🚫 % 🎯 🐴	£3 👁 🔑 😔
☆	638-1202.02		1401 E 19th St L	1135677	2	7821	=	2999.05	2.35	89.1	73	07-25-2023	🚫 🖾 C 🕇 🔛 1	B @ 🔑 🕢
☆	351-0346.56		859 N Mountain	3237991	3	4961		3848.5	2.25	93.62	71	07-25-2023	💧 % 🕑 🏊	£3 @ & @
☆	660-0600.01		1816 N Campus	3149274	R	2120		787.1	2.08	10.61	69	07-25-2023	💧 🔀 🕑 🐴 🔛 💆	£3 @ 🗲 😔

To access the consumption details for an individual meter, click the dashboard icon.

There are several different single meter analytics pages available to both the utility and the end user. The utility can ultimately determine what access and what analytical screens are made available to the end users by a simple configuration:



Consumer User	Menu Name	Action
	Consumer Dashboard	<b>~</b>
Utility Admin/Owner	Consumption History	
Group (BillingProfile/Utility/Commercial)	Usage Analysis	
Consumer Group	Water Budget	
	Flowrate Analysis	<b>~</b>
Utility User	Environmental	
Utility User 1	Notifications	
,	Watering	<b>V</b>
Utility Tech	Consumption Comparison	
	Settings	<b>~</b>

**Consumer Dashboard** – The consumer dashboard gives a quick summary of things like the current billing read, the past 24 hours consumption, month to date consumption, daily average, as well as a graphical representation of the past 24 hours consumption.

Rece	ent Summary: 07/25/2023	₩ Water Budget	⊒ Usage Analysis     →	☑* Irrigation Analysis	÷
	LCD Read 0044963.4 G 07/55/023 03:53:54 M Billing Read 44963 Water Consumption	Consumption         22 / 31 Days	- Residential - Insidential - Leak	Consumption 479.56 G Cycles 2	Duration           78 Min           Zones         Drip           3         45.49 G
ø	878.59 G 07/24 to 07/25				
<b>#</b>	So far this Month 15111.72 G	Daily Usage     Flow Rate(GPM)		<ul> <li>Residential Analysis</li> <li>139.</li> </ul>	⇒ ∍g Toilet
<b>x</b> ¢	Daily Average 629.65 G	9.0 8.0 7.0		13	3 G Sink 6 G Kitchen Use
8	Water Budget Tier 4 Rates	6.0 5.0 4.0 3.0		96	7 g Shower
%	Percent Use Set on 7/24/2023	2.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0	14.00 16.00 18.00 20.00 22.00		o G Bath Tub O G Washing Machine
:	Leak Set on 7/24/2023	Consumption History		→  Meter Information	
*	Watering Event Set on 7/24/2023	Consumption(G) 250		Meter Type innov8-VN LTE Altair 5/8 x 3/4"	
			2:00 14:00 16:00 18:00 22:00	-	

**Consumption History** – The consumption history allows the user to view the past day, week, month, year, or a custom time period (i.e., start-stop actual billing dates). The WaterScope program analyzes the data in 1-minute intervals and, based on the flow rate and duration of time, designates the usage for things such as irrigation, toilet flushes, sink use, etc.





This page is very useful for the utility, and end user to view leaks. In the example below, the red line outlines a leak running at 0.09 gpm.



**Usage Overview** – The usage overview page presents the different types of consumption (indoor, outdoor, leak) so both the utility and end user can see how much water is being used in the different categories. When an end user can quantify how much water is potentially being wasted on a leak, or potential over-irrigating, it helps them understand the bill and adjust as necessary.



70% of the monthly usage for this account is either irrigation or leak.

**Water Budget** – The water budget feature allows the end user to track monthly usage compared to a goal they have set themselves, or that has been set by the utility. That monthly usage goal can reflect billing tiers, average use within the utility, or seasonal expectations. The tiers within the budget are ultimately controlled by the utility. The screen displays total use per day, indoor vs outdoor, as well as a trend graph for month to date. The data is displayed statistically and graphically.

Statistically:

Daily Budget	225.81 G
Cycle Daily Average	351.77 G
Last 24 Hr	375.14 G
Cycle Budget	7000 G
You are 25 days into this cycle	
which is 80.00% into the month	
You have used $909.56~G$ for Irrigation	
You have used $8794.21~G$ so far this cycle	
which is 125.63% of your water budget	
Your Water Budget is	
Wasteful	

Graphically:



**Consumption Comparison** – The user may view comparative consumptions year over year either by a total monthly volume, or average usage per day over a given month for a single meter.



**Environmental** – The user can view daily maximum ambient temperature, as well as daily minimum ambient temperature. Alerts may be setup for both. Monitoring this is particularly beneficial in the winter months.



**Watering** – Should the City decide to implement Watering Restrictions, the Watering calendar lets the homeowner know what days are available for them to irrigate.



#### **Consumer Configuration**

**Verification** – The consumer can opt in for email, text, or both to receive alerts. They may also add additional emails and phone numbers to the account.




**Set Notifications** – Allows the homeowner to choose which flag conditions to receive notifications for. There is a brief explanation to the homeowner on what will trigger each condition.

otification Settings								
Verification Set Notification	Alert Schedule Unexpected Usage	Consumption	Per Day					
		Format						
	Condition	Email						
Water Budget								
Cycle Summary								
Other Conditions			One-Time Only					
Leak (A drip or trickle leak is evident)								
Intermittent Leak (Water is being used at a high flow for hours at a time)								
🗌 🐴 High Usage (A high daily	consumption of water is evident, Set limit is 1000 Gallor	ns )						
Unexpected Use (Unex	pected water usage)							
Threshold Leak (Water is being us	Threshold Leak (Water is being used continuously above threshold, Set limit is 0.25 GPM )							
Watering Violations								
Save								
<ul> <li>Emails will be sent during normal</li> </ul>	business hours. Time is subject to your time zone.							

Alert Schedule – The consumer can define what days alerts will come in. 7 days a week is the default.

otification Settin	igs		
Verification	Set Notification	Alert Schedule	Unexpected Usage Consumption Per Day
Manage Da	aily Alert Schedule		
Sunday	Monday	<b>V</b> Tuesday	Vednesday Vednesday Vednesday
Save			
Quick Actions	O Enable notifications	s for all days   🖉 Disab	le notifications for all days
Notifications	will be sent on all day	s in every week.	

**Unexpected Usage** – The consumer can set an unexpected usage date range, or per the days of the week. This is designed to detect unexpected usage for things like rental properties, snowbirds, or when a consumer goes on vacation. It is also beneficial for businesses that may be closed on certain days of the week.



Verification	Set Notification	Alert Schedule	Unexpected Usage	Consumption Per Day				
Settings								
From Date	9/27/2016	To Date 9/27/201	6					
Monday	/ 🗌 Tuesday 🗌 Wedn	esday 🗌 Thursday 🗌	Friday 🗌 Saturday 🗌 Sun	day				

**Consumption Per Day** – The consumer can set daily consumption alerts, as well as low temperature alerts. The notification is only sent if daily usage exceeds the consumer defined threshold, or the temperature falls below the consumer defined value.

Notification Settin	igs			
Verification	Set Notification	Alert Schedule	Unexpected Usage	Consumption Per Day
Consumption:				
200		G		
Minimum Temper	ature:			
28		°F		
Temperature Notifications	<			
Consumption Notifications				
Save				

#### Head End System Information and Requirements (Summary)

The WaterScope web portal seems to not only meet, but exceed the expectations of what the City expects in a head end system. With numerous different conservation tools both at a micro and macro level, WaterScope will provide the tools to the City to help manage the system efficiently, effectively, and transparently.

With no additional costs after the purchase of the meter, the City will not have to budget for ongoing costs for 10 years. Starting year 11, the City will have the option to prepay another fully loaded 10 year bundle, or pay a yearly, per meter bundle fee.

#### 7.6. CONSUMER PORTAL INFORMATION AND REQUIREMENTS

The WaterScope package includes a fully incorporated consumer portal. The consumers can access their usage information either via the web portal or the mobile app. The mobile app is available for both Apple (iOS) and Android. Both the app and the web portal are maintained by Metron so there will be interruption to either the City or the homeowner when enhancements and patches are made to the program.

Signup for the consumer portal is very simple. The homeowner simply enters their Prism serial number along with the matching account number and as long as the two match WaterScope will allow the signup. The authentication between the Prism and account number is to prevent a homeowner from inadvertently signing up for another meter.

#### **Consumer Portal Web Version**



The web version of the consumer portal reflects the exact same screens that were discussed on the Micro level of the head end system. This is very beneficial when the City customer support staff engages with a homeowner as it allows both sides to view the same exact information. The City has the ability to customize what screens the consumer has access to. The homeowner then has the option to decide which alerts they would like to receive. The following will cover the consumer web version with signup process and available analytics.

#### Sign-up

To signup, a consumer user must have the Prism's VN ID as well as the account number. The account number will be the City account number maintained within the billing software. They will begin by clicking 'Register', the next screen will prompt for the VN ID and Account number:

Assuming the VN ID and Account Number match, the homeowner will receive a welcome email with instructions on how to complete the signup.

#### **Consumer Portal Mobile Version**

WaterScope offers many of the same benefits in the web version in both an iOS and Android app version. The signup process is the same, enter a VN ID with matching account number and the consumer may continue along the registration process. Upon registration completion, the user will access to the following:



**Dashboard** – The dashboard screen will show the consumer the prior day's usage, current leak status, an up-to-date water budget, and the usage breakdown.

**Usage Overview** – The usage overview slide allows the consumer to view more granular data. They have the ability to analyze the usage monthly, weekly, daily, and hourly (1-minute view). The consumer can also view the same time intervals but for indoor, outdoor, and leak, respectively.



Notifications – The consumer can choose which notifications to opt in for, much like in the web version. They may also view a notification history.

#### **Training Information and Requirements**

#### **Initial Training**

We are committed to providing as much training as the utility needs/wants. Trying to learn a new system in just a day or two can be overwhelming so we typically phase in the training from the simplest form to the more advanced over time.

#### **Ongoing Training and Support**

The entire training and support costs are included in the up-front bundle so there will be no additional fees for training current users on new features, or for new utility staff that start employment after the project is completed.

Training documents are online and can be easily downloaded and printed into paper form.

Should the utility request assistance from Metron in training third party groups, i.e., parks department, group meter users, installation groups, etc., a simple request to your sales representative will suffice.



#### 7.7. METRON METERING

#### **Metron Metering**

Metron offers a full line of water meters ranging from 5/8" to 8" and prides itself on the low-flow capability of our meter line. The Spectrum Jet single-jet family is the widest ranged, single-measuring element meter available to U.S. utilities. With its simplistic design coupled with minimal accuracy degradation, revenue stays steady throughout the life of the meter and eliminates the testing and maintenance normally required for commercial meters that offer this type of performance. Set it and forget.



#### **Single-Jet Operation**

The Spectrum Jet meters are velocity-type meters that incorporate a *single tangential jet* which flows across the impeller. The impeller is offset from the water flowing through the tangential jet such that the water travels perpendicular to the rotational axis of the impeller. Using an exclusive twin pivot design the meter combines excellent sensitivity at low flow rates and *friction free* operation at high flow.

Incoming water rotates a suspended impeller that is magnetically linked to the register. A low friction tungsten carbide bearing supports the impeller at low flow rates while a tungsten carbide thrust bearing provides support at high flow rates. This unique "dual bearing" design provides unparalleled accuracy and durability at both high and low flows.



#### Low Flow Accuracy



For comparative context, a typical 1.5"-2" PD meter has a new meter accuracy low flow listed as 1-1.5 gpm. The Metron 1.5" and 2" Single-Jets offer a low flow accuracy of ¼ gpm. The difference in captured usage between ¼ gpm to 1.5gpm generates a rapid ROI, additional revenue and higher accountability for the customer. Please refer to product spec sheets for specifics on all meter sizes.

Our Spectrum PD 5/8x3/4" rotary piston PD meter provides high-level accuracy down to 1/50<sup>th</sup>+ of a gpm making it the most accurate mechanical residential meter in the industry and matches or surpasses most solid-state meters. The same holds true for the larger Spectrum Jet commercial meters.

**Note:** Unlike most static meters, the top-load design allows for quick in line OEM chamber replacement for end of life or repair which restores low flow accuracy back to new meter specification and can be done at considerably less cost than having to buy a new meter. This is **not** a "throw away" meter and can provide the utility *decades* of reliable and accurate consumption data.

Metron's single-jet meter line paired with high resolution **1-minute or 5-minute data analytics**, and the WaterScope web portal gives water utilities a system with the unrivaled ability to not only monitor and manage a distribution system from a supply aspect but also provide transparency and extensive customer service analytics previously unavailable to the U.S. water utility industry. A win-win for both the customer and utility.

#### Spectrum Wave Ultrasonic Meter

The Spectrum Wave ultrasonic meter is an advanced water metering instrument. Its measuring unit is based on a "See Through" ultrasonic technology. With this concept, the two sensors, used alternatively for the transmission and the reception of the ultrasonic signal into the water pipe, are installed on each end of a straight section of the water pipe. With such a mechanical configuration, the water flow remains free of any mechanical structure that would increase the drop of pressure inside the meter. The meter provides a very wide range with low flow accuracy to 0.05 gpm which will capture the highest levels of revenue.

The Spectrum Wave meter is equipped with a built-in cellular module and internal antenna which provides seamless inte-gration into the WaterScope water management system. The meter does have an external antenna port for challenging environments, but in most residential applications, the utility will not need to deal with any external cables. An industry standard 3-wire encoder output can also be optionally ordered.



Spectrum Wave Ultrasonic Meter

\*For more in-depth information, please refer to **Metron Meter Datasheets**.

#### 7.8. PROJECT MANAGEMENT Overview



Metron's dedicated field service division specializes in meter replacement contracts, serving as a core function. With a full-time staff of specialists exclusively focused on meter replacement projects, we ensure efficient and seamless execution. This document outlines our qualifications, team structure, project methodology, and methods of delivering exceptional service.

#### Qualifications

Metron's field service division is equipped with a robust team comprising a dedicated project manager, coordinator, scheduler, and multiple technical leads. Our expertise spans across residential and commercial meter replacements, covering both indoor and outdoor locations. Additionally, we excel in register retrofits for competitor meters. We maintain well-trained crews for meter replacements, supported by dedicated vehicles and tools to facilitate smooth operations. Leveraging a cloud-based software, we create project books for scheduling and logging all field work, ensuring transparency and collaboration with the utility throughout the project's duration.

#### **Field Services team**



Metron adheres to a well-defined project team structure to ensure seamless coordination and efficient execution: Field Services Manager: The Field Services Manager at Metron assumes overall responsibility for the project. Their role encompasses arranging site surveys, assembling the project team, leading the kickoff, overseeing project execution, conducting training sessions, and performing commissioning duties.

Field Services Coordinator: Serving as the central communication hub, the Field Services Coordinator liaises between the on-site project lead, installers, and utility contacts. They issue weekly progress reports and being readily available to address any queries from the utility, ensuring smooth communication and project progress.

On-site Project Lead: The On-site Project Lead plays a pivotal role in supervising field technicians and ensuring the quality of work. They are tasked with maintaining complete and accurate field data, ensuring adherence to project standards, and resolving any on-site challenges promptly.

Field Technicians: Field Technicians are responsible for executing meter replacements efficiently and accurately. Their expertise and precision contribute to the successful completion of the project, ensuring that all tasks are carried out with the utmost professionalism and attention to detail.



Subcontractors: In cases where subcontractors are necessary, Metron ensures that they are licensed and insured. Subcontractors are primarily engaged for specialized tasks such as digging or excavation on non-standard work. This ensures that all aspects of the project meet regulatory requirements and maintain the highest quality standards. Utility Contacts: Clear communication with utility contacts is essential for project success. Typically, utilities designate three primary contacts: a project lead, billing/customer service representative, and a field contact. Metron prioritizes establishing clear interfaces with these contacts to minimize confusion or frustration, ensuring smooth collaboration throughout the project lifecycle.

#### **PROJECT METHODOLOGY**

Metron's project methodology delineates our processes and methods before, during, and after the project lifecycle. The following diagram illustrates the methodology from inception to completion. Each phase of the methodology is elaborated upon below:



#### **Project Review**

The project review serves as a pre-sale's effort aimed at gaining a thorough understanding of the scope of work and the utility's requirements. It involves collaboration among sales, field service, and utility personnel. In many instances, Metron Field Service may conduct a brief site survey at the utility's location to ensure accurate assessment.



#### **Kickoff Meeting**

The kickoff meeting is an essential component of the project, establishing all working parameters. During this session, Metron will address utility requirements, including but not limited to:

- Project Team Composition
- Certificate of Insurance with the utility listed as a co-insured party
- Availability of Vehicles and Tools
- Comprehensive Project List
- Specifications for Residential/Commercial Meters
- Personnel Requirements
- End-Customer Interaction Protocol
- Appointment Scheduling Procedures
- Installation Schedule Overview
- Data Collection Protocols
- Progress Reporting Mechanisms
- Integration with the Utility's Billing System
- Training Requirements
- Differentiating Standard vs. Non-Standard Work
- Implementation of Project Advertisement, Mailings, or Door Hangers

Subsequent to the kickoff meeting, Metron Field Service will furnish a detailed report to the utility encompassing all discussed parameters, along with any additional requirements stipulated by the utility.

The field services contract incorporates clauses pertaining to two crucial topics:

- Accessibility: Metron is committed to making three attempts to access the site, either through on-site visits or scheduled appointments. Should access not be obtained after three attempts, the responsibility for those sites will shift to the utility.
- Standard vs. Non-Standard Work: While Metron contracts primarily focus on meter replacement, it's not uncommon for associated tasks such as digging or excavation to arise. To ensure transparency, these non-standard tasks are segregated and typically delegated to local subcontractors. Prior approval from the utility is sought for non-standard work, which is then invoiced at a reasonable rate. This approach prevents inaccuracies in pricing and maintains clarity in project execution.

#### **Project Execution**

Following an initial kick-off meeting to ensure alignment between the utility and Metron, the meter replacement process commences in sections of the service district delineated by the City. Typically, these sections are defined based on routes, books, or geographic segments of the service district.

Residential and commercial meter replacements are typically treated as separate engagements due to the intricacies involved, especially with larger commercial meters that may necessitate shutdowns and appointments. Similarly, indoor installations often require scheduled appointments. During intervals between indoor appointments, installers make efforts to visit neighboring homes, offering ad-hoc replacements. In the event homeowners are unavailable, door hangers are left to facilitate rescheduling.

For outdoor pits, installers notify homeowners of the impending meter replacement by knocking on the door. If inconvenient, efforts are made to schedule a more suitable time. In the absence of a response, installers proceed with the replacement.

In the event of "blackout" areas during meter reading, Metron accommodates by waiting for completion unless prior appointments have been made.

Within the project framework, field technicians adhere to the prescribed methods outlined in the subsequent section. These methods ensure standardized procedures and efficient execution of tasks throughout the project lifecycle.

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#### **Billing System Interface**

Metron's WaterScope software offers a highly adaptable interface for seamless integration with billing/CIS (Customer Information System) systems. At the project's onset, a dedicated Metron IT representative initiates contact with the utility to facilitate the interface process between the utility's system and WaterScope through efficient file transfers. This interface not only serves to update the utility's system during the project but also facilitates streamlined billing processes.

The WaterScope system provides an API (Application Programming Interface) option for utilities seeking a programmatic approach to system integration. This API empowers utilities with the flexibility to customize and optimize the interface according to their specific requirements and operational preferences.

#### Training

Metron prioritizes comprehensive training sessions tailored to different groups within the utility, including field personnel, administration staff, and customer service representatives. While these are the standard groups, additional training can be arranged upon the utility's request.

At the project's outset, a brief training session is conducted to provide utility personnel with a fundamental understanding of Metron's meters and systems:

- Field Training: Covers topics such as Meters, Registers, Antennas, Local Communication, and Configuration.
- Administration Training: Introduces users to the WaterScope platform, providing initial login credentials and familiarizing them with essential functionalities.
- Customer Service Training: Similar to administration training, it includes an introduction to the WaterScope platform, initial login credentials, and focuses on customer service-related functionalities.
- Billing Training: Includes WaterScope platform introduction, initial login credentials, and discussions on system interface for billing purposes.

As the project nears completion, Metron collaborates with the utility to schedule comprehensive training sessions tailored to each category mentioned above. These sessions delve deeper into meter functionalities and system operations, ensuring utility personnel are proficient in utilizing Metron's technology to its fullest extent. Additionally, the training schedule and content are customized to meet the specific needs and preferences of the utility, ensuring optimal knowledge transfer and skill acquisition.

#### Commissioning

Commissioning marks the final phase of the project, encompassing the completion and transfer of all essential documentation. This critical stage ensures that the project is officially concluded and all necessary materials are provided to the utility for ongoing operations and maintenance.

#### METHODS

#### **Project Book**

The project book, housed within Microsoft Teams, serves as the centralized repository for all essential project details:

- Meter List: This indispensable component contains vital information sourced from the utility, including a comprehensive list of all meters. It includes addresses, locations (if available), existing meter numbers, and any accounts requiring installation appointments. For accounts needing appointments (e.g., indoor meters, commercial meters at businesses), contact names and phone numbers are also provided.
- Schedule: The project schedule, meticulously crafted in alignment with our established methodology, guides the progress of the utility project. The percentage completion per schedule milestone is diligently tracked throughout the project duration, ensuring adherence to timelines.
- % Complete: This metric represents the project's progress expressed as a percentage, calculated based on the number of meters completed relative to the total meter quantity.



- Appointments: In instances where appointments are necessary, Metron's dedicated scheduler orchestrates the coordination of dates and times with stakeholders. An appointment sheet is meticulously curated for installers, streamlining the appointment process and ensuring efficient scheduling.
- Installation Sheet: This crucial document serves as the record for installers, capturing vital information pertaining to meter replacement. Details such as the old meter number, final read, and new meter/register number are meticulously recorded to maintain accurate project records.

The project book, shared with the utility in a read-only format, facilitates seamless collaboration and ensures transparency throughout the project lifecycle.

#### **Data Recording**

Besides the detailed install sheet within the project book, Metron's field installers are equipped to capture photographic evidence of both the old and new meters at the site. These images are securely stored in a designated folder accessible to the utility, ensuring transparency and facilitating verification of work completed. Meticulous data recording is conducted daily, with thorough reviews to detect any discrepancies. Should any data recording issues arise, the specific installer responsible revisits the site promptly to rectify the issue, reaffirming our commitment to accuracy and completeness of project records.

#### **Progress Reporting**

While the utility is granted access to the comprehensive project book for real-time updates, Metron understands the significance of regular communication. Thus, the on-site lead and/or project coordinator remain available to meet with the utility as required. These meetings provide an opportunity for in-depth progress reporting, fostering open dialogue, and addressing any queries or concerns in a timely manner. This proactive approach underscores our commitment to transparency and collaboration throughout the project lifecycle.

#### **Personnel Standards**

Maintaining the highest standards of professionalism and credibility is paramount for Metron. As such, all Metron personnel are required to prominently display a badge featuring their photograph alongside the Metron Field Service logo. We strongly recommend that the utility showcases the project on their website and issues a letter affirming Metron Field Service's legitimacy in the area. These measures not only enhance transparency but also instill confidence in the community regarding the project's integrity and authenticity.

#### **Customer Interaction**

Metron places great importance on adhering to customer interaction requirements outlined by the utility during the kickoff meeting. Our field personnel diligently follow these guidelines to ensure seamless communication and customer satisfaction. Any issues encountered during interactions are promptly conveyed to the utility for immediate resolution, demonstrating our unwavering commitment to excellence in service delivery.

Project book examples:



#### Schedule XXXX

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#### 8. REQUIRED ATTACHMENTS

#### 9. APPENDICES

9.1. PROPAGATION STUDIES

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VZW Map



ATT Map

9.2. PARTNERSHIPS AND ALLIANCES



Metron takes pride in its strategic alliances and formalized partnerships, which enable us to deliver best-in-class solutions across all aspects of AMI-EPI technologies, IT platforms, system integration, support services, and total program management. Our relationships with industry-leading partners are key to ensuring the success of every project, driving innovation, and setting new standards in utility management.

#### **AMI-EPI Technologies:**

Metron has built long-standing partnerships with some of the most reputable names in the industry, providing cuttingedge technologies that enhance our clients' Advanced Metering Infrastructure (AMI) and Endpoint Integration (EPI) capabilities. These include:

- Verizon Wireless: A trusted partner for over 10 years, enabling robust and reliable connectivity solutions.
- **AT&T:** With 5+ years of collaboration, AT&T's communication networks are integral to our service offering.
- Microsoft Azure: A core partner for over 10 years, powering our cloud-based platform with the highest levels of security and scalability.
- Vanguard Utility Services: Delivering expertise in large-scale deployment projects across the United States.
- Sagemcom: Provides advanced communication technologies and smart meter solutions that integrate with Metron AMI projects.

#### **IT Platforms & Support Services:**

Metron leverages industry-leading IT platforms to ensure seamless operations and high levels of support:

- Microsoft Azure: The backbone of our IT infrastructure, offering unmatched scalability and security.
- AutoDesk and SolidWorks: Crucial tools for managing project design and infrastructure.
- Verizon Solutions Architects: Providing technical expertise to optimize and integrate our systems with communication networks.

#### System Integration:

Our platform has been built to integrate effortlessly with a wide range of systems. Metron's integration capabilities are second to none, and we have yet to encounter a system we cannot connect to via FTP, API, or generated files. We have successfully integrated with:

- Itron Enterprise and Northstar Billing
- Harris Computers (Owner of Northstar)
- Tyler Technologies

With a library of over 200+ CIS and billing system integrations, we can provide a comprehensive list upon request. **Standards Organizations:** 

Metron is fully compliant with industry standards, ensuring our technology meets the highest benchmarks for safety, reliability, and efficiency:

- **ISO** (International Organization for Standardization)
- AWWA (American Water Works Association)
- Underwriter Labs (UL)
- FM (Factory Mutual)
- ANSI (American National Standards Institute)

#### Total Program Management / Primes:

Through our strong financial and management partnerships, Metron is supported by some of the most prominent investment groups, ensuring the resources and expertise to manage projects of any scale:

- XPV Water Partners
- Goldman-Sachs (via XPV)
- Blackrock (via XPV)

These alliances enable Metron to deliver a comprehensive, innovative, and future-proof solution, backed by industryleading partners that ensure long-term success for our clients.

#### **10. EXCEPTIONS**



#### **EXCEPTIONS**

### North Central Texas Council of Governments (NCTCOG) - TXShare Project: Advanced Metering Infrastructure (AMI) Solutions Subject: Amendment to the NCTCOG Master Services Agreement for the Advanced Metering Infrastructure (AMI) Solutions Project Date:01/10/2025 Prepared by: Metron-Farnier, LLC

#### 1. Overview

Metron-Farnier, LLC has reviewed the terms of the NCTCOG Sample Master Services Agreement the NCTCOG Master Services Agreement for the Advanced Metering Infrastructure (AMI) Solutions Project. While Metron is committed to fulfilling the contractual requirements, we are submitting this Amendment to clarify the Ownership and Data Rights associated with Consultant Software, Software as a Service, and Data as a Service as defined in the Agreement Scope of Work. This Amendment takes precedence over any conflicting terms in the Agreement related to ownership and data use.

2. Exception – Amendment to clarify the Ownership and Data Rights

RFP Requirement: The Agreement mandates clarification of Ownership and Data Rights associated with the Software as a Service (SaaS) and Data as a Service (DaaS) to be provided as part of the Master Services Agreement for the Advanced Metering Infrastructure (AMI) Solutions Project.

Metron's Position: Metron-Farnier, LLC ("Contractor") proposes an amendment to the Master Services Agreement for the Advanced Metering Infrastructure (AMI) Solutions Project Agreement Between NCTCOG and Consultant for Ownership and Data Rights to further define the ownership and usage rights of data and software as outlined in the project scope.

#### 3. Justification

Metron-Farnier, LLC has a robust history of managing projects similar in size and scope to the NCTCOG Advanced Metering Infrastructure (AMI) Solutions Project. Our proposed amendment for Ownership and Data Rights has successfully met the needs of our past clients without issue.

#### 4. Request

We respectfully request that NCTCOG accept Metron-Farnier, LLC's Amendment as documented.

**5. Supporting Documentation:** Amendment for Ownership and Data Rights (see Addendum below– Metron-Farnier, LLC)

#### **Amendment**

This Amendment ("Amendment") modifies the NCTCOG Master Services Agreement ("Agreement") for the Advanced Metering Infrastructure (AMI) Solutions Project (the "Project") between the North Central Texas Council of Governments ("NCTCOG") and Metron Farnier, LLC ("Consultant") to clarify the Ownership and Data Rights associated with the Consultant Software, Software as a Service, and Data as a Service to be provided as part of the Project. This Amendment controls over any missing or conflicting terms in the Agreement with respect to ownership and data use and applies to NCTCOG and any "Participating Entities" as defined in the Agreement. Ownership and Data Use.



- 1. NCTCOG or a Participating Entity (collectively, the "Customer") owns all rights to the "Customer Data") and is responsible for obtaining any necessary consents for disclosure and transmission of its personal information and any consequences or results of any transmission or publication of any private information that is not intended for public availability. Customer grants Consultant the right to access, copy, transmit, reformat, and display Customer Data to create and provide the Data Services which may include personal information as necessary for Customer to bill its end-users. Customer agrees that Consultant may analyze Customer Data for the purpose of improving its Data Services, or to provide generalized data on the use or attributes of content types and may provide additional Data Services analytics. Customer also agrees that Consultant may also create generalized examples of types of Customer Data to demonstrate the Data Services analytics capabilities. Customer's subscription to access and use the Data Services through Consultant software does not include ownership rights to any Data Services. Consultant will utilize reasonable, currently available measures to remove end-user personal information from the generalized data.
- 2. Customer may not modify or create derivative works from Consultant's Data Services, reverse engineer, decompile, or disassemble Consultant's Data Services; or otherwise use the Data Services except as expressly described in this Agreement.
- 3. Consultant and Customer may correspond and convey information and documentation, including Intellectual Property such as Customer Data and Data Services via cellular data transmission and the Internet. Neither party has control over the performance, reliability, availability or security of cellular or Internet communications and therefore neither party shall be liable for any loss, damage, expense, harm or inconvenience resulting from the loss, delay, interception, corruption, or alteration of any Internet data transmissions due to any reason beyond that party's reasonable control.
- 4. <u>Drawings</u>. Notwithstanding anything to the contrary in the Agreement, Consultant retains all rights to and may reuse portions of Drawings containing Consultant's pre-existing proprietary or licensed tools, templates, or methodologies without Customer's consent, subject to Consultant's confidentiality obligations to Customer.
- 5. <u>Consultant Rights</u>. Consultant reserves all right, title and interest in and to any Consultant intellectual property rights, trademarks or service marks, Consultant's confidential information and any other property or proprietary rights relating to any Consultant products, information or materials made available to Customer under this Agreement.



Visit us at <u>www.metron-us.com</u> for more information.

#### 1. REFERENCES

Metron References for this project will reflect NCTCOG membership and range in size from small, rural utilities to the large municipalities with over 100,000 connections.

REFERENCE 1	
Client: City of Buffalo Gap, TX	Client Project Name: Replace/Retrofit 20+ Year Old
	Meters with Metron Cellular
Client Reference Name & Title: Derek W	/hite
Client Phone Number: <b>325-660-5215</b>	Client Email: buffalogap@taylortel.net
Location of Work: Buffalo Gap, TX	Total Endpoints: 686
Initial Timeframe for Duration and Comp	letion of Work: <b>2.5 Months</b>

Scope of Work/Description of Work Performed (including systems integrated): **The City of Buffalo Gap had purchased a water utility with 215 upgraded drive-by meters within the year of this project. Those meters were added to about 450 meters of the city's meters that had been in the ground for over 20 years. Full billing integration was completed at NO COST to the city.** 

Comments: Buffalo Gap was able to replace their aged meters with the latest in ultra-low flow PD technology, drastically reducing water loss and increasing revenue. The City was able to retrofit Metron's cellular registers to their recently purchased meters, which had a significant amount of remaining life. This put their newly installed meters and recently purchased meters onto the same industry-leading cellular system.

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Client: Steamboat Mountain Water	Client Project Name: AMI Upgrade							
Supply								
Client Reference Name & Title: Billy Lodermeier								
Client Phone Number: <b>325-554-7454</b>	ClientEmail: blsteamboatmt@taylortel.net							
Location of Work: 429 Graham St	Total Endpoints: <b>2950</b>							
Tuscola, TX 79562								

Initial Timeframe for Duration and Completion of Work: **June 2022, Completed in 6 Months** 

Scope of Work/Description of Work Performed (including systems integrated): Steamboat Mountain upgraded its relatively new drive-by AMR system to a Metron Cellular AMI system via retrofit of our Prism- VN cellular registers. Steamboat has since added ~500 Metron Single-Jet meters on new installs and defunct meters. Full billing integration was performed at no cost to the utility.

Comments: Steamboat Mountain Water Supply was able to transition to a smarter, cellular system without the added cost or inconvenience of a full meter replacement. Steamboat's existing meters were less than 5 years old at the time of the retrofit, meaning they had plenty of useable life remaining. Metron S30DB meters are used for new installs and replacing broken meters.

**REFERENCE 3** 

Client: Cityof Gainesville, TX Client Project Name: Cellular AMI Deployment

Client Reference Name & Title: Kevin Kelcey, IT Director

Client Phone Number: 817-368-8213Client Email: kkelcey@gvps.orgLocation of Work: 200 S Rusk St<br/>Gainesville, TX 76240Total Endpoints: 4,000 and counting

Initial Timeframe for Duration and Completion of Work: October 1st 2022- Present. This is an ongoing project that is proceeding as the City's budget and resources allow.

Scope of Work/Description of Work Performed (including systems integrated): Metron has deployed cellular AMI meters ranging in size from residential to 8" through the City of Gainesville. The ultimate goal is to complete their change out with ~7,500 Metron Cellular AMI meters. Metron integrated into Gainesville's billing and customer management system at NO COST to the City.

Comments: The City of Gainesville began a fixed-base AMI deployment that covered the core of their city, about 4,000 out of 11,000 total meters. It soon became clear that fixed-base AMI did not make logistic or fiscal sense as they expanded to the edges of their city. Metron could provide the clear answer with our cellular AMI, which can easily scale and cover the remaining meters with no any additional infrastructure.

REFERENCE 4										
Client: City of Arlington, TX	Client <b>Replac</b>	Project ement	Name: <b>AMI</b>	Upgrade,	Fixed	Base				
Client Reference Name & Title: Jacob Stephenson, Meter Services Supervisor										
Client Phone Number: <b>817-657-</b> <b>7347</b>	7- Client Email: Jacob.Stephenson@Arlingtontx.gov									
Location of Work: 1100 SW Green Oaks Blvd Arlington, TX 76004	Total Er	ndpoints:	7,500 and cou	unting						
		()								

Initial Timeframe for Duration and Completion of Work: **Ongoing project that started in 2023** 

Scope of Work/Description of Work Performed (including systems integrated): Arlington is replacing non-reading meters within an aging, fixed-base AMI system with Metron cellular endpoints atop Metron Single-Jet meters. Metron has also provided Prism Cellular registers to retrofit to recently purchased meters that are not compatible with the current AMI. Full FTP and API integration was performed at NO COST to the City.

Comments: Arlington, TX has over 140,000 endpoints and has evaluated every meter manufacturer on the Market. Over 6 years, Arlington has evaluated Metron meters and determined that our solution is the best option for scalability, sustainability and future proofing their utility.

\*These references highlight Metron's successful deployments and proven capabilities in AMI/MDMS solutions for large-scale clients. Please feel free to call any of these references, or request more to learn more about how Metron has improved life for our utility customers and their end-users.

#### EXHIBIT 1: CATEGORIES OFFERED AND PRICING PROPOSAL

Place a checkmark next to each category you are offering in your proposal:



Service Category #1: Water Utility Equipment, Products, and Supplies

Service Category #2: Installation and Repair Services



Service Category #3: Professional Services



Service Category #4: Ancillary Goods and/or Services (List Below)



### **Pricing Proposal**

Respondents are required to submit a comprehensive pricing proposal that outlines their approach to addressing the project goals, key challenges, and minimum solution requirements outlined below. The proposal should not only reflect the costs associated with the proposed water metering solutions but also demonstrate flexibility and innovation in addressing the diverse needs of TXShare's member entities.

### Project Goals and Desired Outcomes:

The water meter replacement project is designed to achieve the following key goals shared by TXShare members. Vendors are encouraged to propose solutions that effectively tackle these goals:

#### 1. Versatile Water Metering Solution:

Propose a customizable metering system compatible with various environments and infrastructure types across TXShare's member entities.

#### 2. Advanced Data Management and Integration:

Provide a system that supports real-time data access and integrates seamlessly with various billing and customer service platforms, including AMR and AMI capabilities. Please include the names of the billing and customer service platforms your system is compatible with.

#### 3. Cost-Effective and Scalable Implementation:

Present a pricing model that supports phased implementation, allowing flexibility for entities of different sizes and financial capacities.

#### Key Challenges to Address:

Respondents should directly address the following challenges in their proposals:

#### 1. Multi-Environment Compatibility:

Detail how your proposed solution will function across diverse installation conditions, ensuring compliance with regional standards.

#### 2. Standardized Yet Customizable Data Integration:

Describe how your data management system will provide standard functionalities while allowing for the unique integration needs of each member entity.

#### 3. Phased Implementation for Cooperative Scalability:

Outline a flexible implementation plan that facilitates phased rollouts, minimizes disruption, and includes strategies for communication and onboarding.

#### 4. Cost Efficiency and Shared Resource Management:

Explain your cooperative pricing discount and financing model, emphasizing cost savings and tiered pricing for varying implementation scales.

5. Al-Driven Analytics and Predictive Insights:

Discuss the capabilities of your AI-based analytics platform in enhancing decision-making, identifying anomalies, and improving customer engagement.

#### Minimum Solution Requirements:

Proposals must also meet the following minimum requirements:

**1. Compatibility:** Support various communication technologies to accommodate different technical conditions across TXShare members.

**2. Pricing Structure:** Offer a cooperative discount pricing model with tiered pricing and flexible financing options tailored to implementation phases.

3. Data System and Security: Ensure robust security measures for data protection and compliance across jurisdictions.

**4. Maintenance and Support:** Provide comprehensive maintenance and support services, including system monitoring and technical support.

**5. Performance Guarantee and Warranty:** Offer warranties that cover all major components of the AMI system for long-term reliability.

6. Customer Engagement: Include a customer portal with tools for usage monitoring, alerts, and engagement features.

7. Training: Present a training and support plan for smooth implementation and ongoing operation.

8. Scalability: Ensure the solution can scale for future growth in meters and data volume.

9. Data Analytics and Reporting: Incorporate advanced analytics capabilities for actionable insights.

**10. Disaster Recovery and Business Continuity:** Include robust plans to maintain operational continuity during emergencies.

#### **Catalog Pricing for Products & Services:**

Responding Offerors are requested to submit a proposal that will contain a schedule of products and / or service lines that would qualify under Section 5.0 of these specifications. This schedule is commonly referred to as a "catalog".

Catalogs contain a range of items that are published in either an electronic or hard copy form and are modified from time to time to reflect internal and external changes in the vendor's marketplace. It is at the vendor's discretion to propose any limitations of the goods or services offered. A good or service offered must be listed in the catalog to be eligible for sale through the awarded contract.

Catalogs are to be submitted with the proposal and may be provided electronically using either a PDF document or web link. Use a spreadsheet or a searchable document containing the pricing information. A physically delivered hard copy of the catalog is NOT acceptable.

Catalogs may be priced with a percentage discount or a fixed unit price. Pricing may be one or multiple tiers of varying discounts based on purchase quantity. The discount should be applicable to both the initial purchase and any subsequent orders under the terms of this agreement.

The Respondent should clearly outline:

- 1. The percentage discount off the catalog list price for each category of products and / or services.
- 2. Any pricing tiers or volume-based discount thresholds.

**Refer to Exhibit 1 – Proposal Price Excel Worksheet Attachment for completion.** 

This form will be utilized to assess each Respondent's 'best value' beyond simple percentage discounts and will play a key role in scoring your proposed pricing.

Please refer to Exhibit 2: Sample Market Basket Form Attachment for completion.

Attached to portal

	Texas Service Area Designation or Identification			
Proposing Firm Name:	Metron			
Notes:	Indicate in the appropriate box whether you are proposing to service the entire state of Texas			
	Will service the entire state of T	exas Will not service the entire	Will not service the entire state of Texas	
	If you are not proposing to service the entire state of Texas, designate on the form below the regions that you are proposing to provide goods and/or services to. By designating a region or regions, you are certifying that you are willing and able to provide the proposed goods and services.			
Item	Region	Metropolitan Statistical Areas	Designated Service Area	
1.	North Central Texas	16 counties in the Dallas-Fort Worth Metropolitan area		
2.	High Plains	Amarillo Lubbock		
3.	Northwest	Abilene Wichita Falls		
4.	Upper East	Longview Texarkana, TX-AR Metro Area Tyler		
5.	Southeast	Beaumont-Port Arthur		
6.	Gulf Coast	Houston-The Woodlands- Sugar Land		
7.	Central Texas	College Station-Bryan Killeen-Temple Waco		
8.	Capital Texas	Austin-Round Rock	Austin-Round Rock	
9.	Alamo	San Antonio-New Braunfels Victoria		
10.	South Texas	Brownsville-Harlingen Corpus Christi Laredo McAllen-Edinburg-Mission		
11.	West Texas	Midland Odessa San Angelo		
12.	Upper Rio Grande	El Paso		

(Exhibit 3 continued on next page)

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	Nationwide Service Area Designation or Identification Form				
Proposing Firm Name:	Meta	$\sim$			
Notes:	Indicate in the appropriate box whether you are proposing to provide service to all Fifty (50) States				(50) States.
	Will service all fift	ty (50) states	Will not service fifty (5	0) states	
		_X			
	If you are not proposing to service to all fifty (50) states, then designate on the form below the states that you will provide service to. By designating a state or states, you are certifying that you are willing and able to provide the proposed goods and services in those states. If you are only proposing to service a specific region, metropolitan statistical area (MSA), or City in a State, then indicate as such in the appropriate column box.				
Item	State	Re	gion/MSA/City		Designated
		(write "ALL" if pi	oposing to service entir	e state)	as a Service A rea
1.	Alabama				Alta
2.	Alaska				
3.	Arizona				
4.	Arkansas				
5.	California				
6.	Colorado				
7.	Connecticut				
8.	Delaware				
9.	Florida				
10.	Georgia				
11.	Hawaii				
12.	Idaho				
13.	Illinois				
14.	Indiana				
15.	Iowa				
16.	Kansas				
17.	Kentucky	e			
18.	Louisiana				
19.	Maine				
20.	Maryland				

21.	Massachusetts	
22.	Michigan	
23.	Minnesota	
24.	Mississippi	· · · · · ·
25.	Missouri	
26.	Montana	
27.	Nebraska	
28.	Nevada	
29.	New Hampshire	
30.	New Jersey	
31.	New Mexico	
32.	New York	
33.	North Carolina	
34.	North Dakota	
35.	Ohio	
36.	Oregon	
37.	Oklahoma	
38.	Pennsylvania	
39.	Rhode Island	
40.	South Carolina	
41.	South Dakota	
42.	Tennessee	
43.	Texas	
44.	Utah	
45.	Vermont	
46.	Virginia	
47.	Washington	
48.	West Virginia	
49.	Wisconsin	·
50.	Wyoming	

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End of Exhibit 3

### **REQUIRED ATTACHMENT CHECKLIST**

Please utilize this checklist to ensure that all required attachments are included with your proposal. IF AN ATTACHMENT DOES NOT APPLY, PLEASE MARK AS " <u>NOT APPLICABLE</u> " AND SUBMIT WITH THE PROPOSAL. FAILURE TO SUBMIT <u>ALL REQUIRED DOCUMENTS</u> MAY NEGATIVELY IMPACT YOUR EVALUATION SCORE.
Page 1 - Cover Sheet
Page 21 - Attachment I: Instructions for Proposals Compliance and Submittal
Page 22 - Attachment II: Certification of Offeror
Page 23 - Attachment III: Certification Regarding Debarment
Page 24 - Attachment IV: Restrictions on Lobbying
Page 26 - Attachment V: Drug-Free Workplace Certification
Page 27 - Attachment VI: Certification Regarding Disclosure of Conflict of Interest (Attachmed Seperatuly, biled w) of file of TX ethics Page 30 - Attachment VII: Certification of Fair Business Practices
Page 31 - Attachment VIII: Certification of Good Standing Texas Corporate Franchise Tax Certification
Page 32 - Attachment IX: Historically Underutilized Businesses
Page 33 - Attachment X: Federal and State of Texas Required Procurement Provisions
Page 36 - Exhibit 1: Pricing Proposal
Page 38 - Exhibit 2: Sample Market Basket Form المراجع المراجع
Page 39 – Exhibit 3: Service Area Designation Forms

Respondent recognizes that all proposals must be submitted electronically through <u>Public Purchase</u> by the RFP due date and time. All other forms of submissions will be deemed nonresponsive and will not be opened or considered.



### REQUEST FOR PROPOSALS For Advanced Metering Infrastructure (AMI) Solutions RFP # 2025-002

Sealed proposals will be accepted until 2:00 PM CT, January 10, 2025, and then publicly opened and read aloud thereafter.

### Metron

Legal Name of Proposing Firm

# **Collin Baxter**

Contact Person for This Proposal

720-490-1847

Contact Person Telephone Number

# 5665 Airport Blvd

Street Address of Principal Place of Business

# 5665 Airport Blvd

Mailing Address of Principal Place of Business

### **Collin Baxter**

Point of Contact for Contract Negotiations

### 720-490-1847

Point of Contact Telephone Number

## collinb@metron-us.com

Point of Contact Person E-Mail Address

Acknowledgment of Addenda (initial): #1\_\_\_\_\_ #2 \_\_\_\_\_ #3 \_\_\_\_\_ #4 \_\_\_\_\_ #5 \_\_\_\_

NOTE: Any confidential/proprietary information must be clearly labeled as "confidential/proprietary". All proposals are subject to the Texas Public Information Act.

COVER SHEET

**Regional Sales Manager** 

**Regional Sales Manager** 

Title

### collinb@metron-us.com

Contact Person E-Mail Address

Blvd	Boulder, CO	80301
Place of Business	City/State	Zip
Blvd	Boulder, CO	80301
l Place of Business	City/State	Zip

Title

### ATTACHMENT I: INSTRUCTIONS FOR PROPOSALS COMPLIANCE AND SUBMITTAL

#### **Compliance with the Solicitation**

Submissions must be in strict compliance with this solicitation. Failure to comply with all provisions of the solicitation may result in disqualification.

#### Compliance with the NCTCOG Standard Terms and Conditions

By signing its submission, Offeror acknowledges that it has read, understands and agrees to comply with the NCTCOG standard terms and conditions.

#### Acknowledgment of Insurance Requirements

By signing its submission, Offeror acknowledges that it has read and understands the insurance requirements for the submission. Offeror also understands that the evidence of required insurance must be submitted within ten (10) working days following notification of its offer being accepted; otherwise, NCTCOG may rescind its acceptance of the Offeror's proposals. The insurance requirements are outlined in the <u>NCTCOG Procurement Standard Terms and Conditions</u>.

Name of Organization/Contractor(s):

Metron

Signature of Authorized Representative:

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Date: 12/8/24

#### ATTACHMENT II: CERTIFICATIONS OF OFFEROR

I hereby certify that the information contained in this proposal and any attachments is true and correct and may be viewed as an accurate representation of proposed services to be provided by this organization. I certify that no employee, board member, or agent of the North Central Texas Council of Governments has assisted in the preparation of this proposal. I acknowledge that I have read and understand the requirements and provisions of the solicitation and that the organization will comply with the regulations and other applicable local, state, and federal regulations and directives in the implementation of this contract.

I also certify that I have read and understood all sections of this solicitation and will comply with all the terms and conditions as stated; and furthermore that I,  $\underline{Colling Rext}$  (typed or printed name) certify that I am the  $\underline{Re_{12}}$  (title) of the corporation, partnership, or sole proprietorship, or other eligible entity named as offeror and respondent herein and that I am legally authorized to sign this offer and to submit it to the North Central Texas Council of Governments, on behalf of said offeror by authority of its governing body.

Name of Organization/Contractor(s):

Signature of Authorized Representative:

Date: 12/2/24

#### ATTACHMENT III: CERTIFICATION REGARDING DEBARMENT, SUSPENSION AND OTHER RESPONSIBILITY MATTERS

This certification is required by the Federal Regulations Implementing Executive Order 12549, Debarment and Suspension, 45 CFR Part 93, Government-wide Debarment and Suspension, for the Department of Agriculture (7 CFR Part 3017), Department of Labor (29 CFR Part 98), Department of Education (34 CFR Parts 85, 668, 682), Department of Health and Human Services (45 CFR Part 76).

The undersigned certifies, to the best of his or her knowledge and belief, that both it and its principals:

- 1. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency;
- 2. Have not within a three-year period preceding this contract been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or Local) transaction or contract under a public transaction, violation of federal or State antitrust statues or commission of embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false Proposals, or receiving stolen property;

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- 3. Are not presently indicated for or otherwise criminally or civilly charged by a government entity with commission of any of the offense enumerated in Paragraph (2) of this certification; and,
- 4. Have not within a three-year period preceding this contract had one or more public transactions terminated for cause or default.

Where the prospective recipient of federal assistance funds is unable to certify to any of the qualifications in this certification, such prospective recipient shall attach an explanation to this certification form.

Name of Organization/Contractor(s):

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Signature of Authorized Representative:

Date: 12/8/24

Page 23 of 41

#### ATTACHMENT IV: RESTRICTIONS ON LOBBYING

Section 319 of Public Law 101-121 prohibits recipients of federal contracts, grants, and loans exceeding \$100,000 at any tier under a federal contract from using appropriated funds for lobbying the Executive or Legislative Branches of the federal government in connection with a specific contract, grant, or loan. Section 319 also requires each person who requests or receives a federal contract or grant in excess of \$100,000 to disclose lobbying.

No appropriated funds may be expended by the recipient of a federal contract, loan, or cooperative agreement to pay any person for influencing or attempting to influence an officer or employee of any federal executive department or agency as well as any independent regulatory commission or government corporation, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any of the following covered federal actions: the awarding of any federal contract, the making of any federal grant, the making of any federal loan the entering into of any cooperative agreement and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.

As a recipient of a federal grant exceeding \$100,000, NCTCOG requires its subcontractors of that grant to file a certification, set forth in Appendix B.1, that neither the agency nor its employees have made, or will make, any payment prohibited by the preceding paragraph.

Subcontractors are also required to file with NCTCOG a disclosure form, set forth in Appendix B.2, if the subcontractor or its employees have made or have agreed to make any payment using nonappropriated funds (to <u>include</u> profits from any federal action), which would be prohibited if paid for with appropriated funds.

#### LOBBYING CERTIFICATION FOR CONTRACTS, GRANTS, LOANS, AND COOPERATIVE AGREEMENTS

The undersigned certifies, to the best of his or her knowledge or belief, that:

- 1. No federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an officer or employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal loan, the entering into of any cooperative Contract, and the extension, continuation, renewal, amendment, or modification or any federal contract, grant, loan, or cooperative contract; and
- 2. If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant, loan, and or cooperative contract, the undersigned shall complete and submit Standard Form LLL, "Disclosure Form to Report Lobbying", in accordance with the instructions.
- 3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers and that all sub-recipients shall certify accordingly.

Name of Organization/Contractor(s):

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Signature of Authorized Representative:

Date: 12/8/24

# ATTACHMENT V: DRUG-FREE WORKPLACE CERTIFICATION

The <u>metric</u> (company name) will provide a Drug Free Work Place in compliance with the Drug Free Work Place Act of 1988. The unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited on the premises of the

 $\gamma$  (company name) or any of its facilities. Any employee who violates this prohibition will be subject to disciplinary action up to and including termination. All employees, as a condition of employment, will comply with this policy.

#### CERTIFICATION REGARDING DRUG-FREE WORKPLACE

This certification is required by the Federal Regulations Implementing Sections 5151-5160 of the Drug-Free Workplace Act, 41 U.S.C. 701, for the Department of Agriculture (7 CFR Part 3017), Department of Labor (29 CFR Part 98), Department of Education (34 CFR Parts 85, 668 and 682), Department of Health and Human Services (45 CFR Part 76).

The undersigned subcontractor certifies it will provide a drug-free workplace by:

Publishing a policy Proposal notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the workplace and specifying the consequences of any such action by an employee;

Establishing an ongoing drug-free awareness program to inform employees of the dangers of drug abuse in the workplace, the subcontractor's policy of maintaining a drug-free workplace, the availability of counseling, rehabilitation and employee assistance programs, and the penalties that may be imposed on employees for drug violations in the workplace;

Providing each employee with a copy of the subcontractor's policy Proposal;

Notifying the employees in the subcontractor's policy Proposal that as a condition of employment under this subcontract, employees shall abide by the terms of the policy Proposal and notifying the subcontractor in writing within five days after any conviction for a violation by the employee of a criminal drug abuse statue in the workplace;

Notifying the Board within ten (10) days of the subcontractor's receipt of a notice of a conviction of any employee; and,

Taking appropriate personnel action against an employee convicted of violating a criminal drug statue or requires such employee to participate in a drug abuse assistance or rehabilitation program.

Name of Organization/Contractor(s):

Signature of Authorized Representative:

Date: 212124

#### ATTACHMENT VI: DISCLOSURE OF CONFLICT OF INTEREST CERTIFICATION REGARDING DISCLOSURE OF CONFLICT OF INTEREST

The undersigned certifies that, to the best of his or her knowledge or belief, that:

"No employee of the contractor, no member of the contractor's governing board or body, and no person who exercises any functions or responsibilities in the review or approval of the undertaking or carrying out of this contract shall participate in any decision relating to this contract which affects his/her personal pecuniary interest.

Executives and employees of contractor shall be particularly aware of the varying degrees of influence that can be exerted by personal friends and associates and, in administering the contract, shall exercise due diligence to avoid situations which give rise to an assertion that favorable treatment is being granted to friends and associates. When it is in the public interest for the contractor to conduct business with a friend or associate of an executive or employee of the contractor, an elected official in the area or a member of the North Central Texas Council of Governments, a permanent record of the transaction shall be retained.

Any executive or employee of the contractor, an elected official in the area or a member of the NCTCOG, shall not solicit or accept money or any other consideration from a third person, for the performance of an act reimbursed in whole or part by contractor or Department. Supplies, tools, materials, equipment or services purchased with contract funds shall be used solely for purposes allowed under this contract. No member of the NCTCOG shall cast a vote on the provision of services by that member (or any organization which that member represents) or vote on any matter which would provide a direct or indirect financial benefit to the member or any business or organization which the member directly represents".

No officer, employee or paid consultant of the contractor is a member of the NCTCOG.

No officer, manager or paid consultant of the contractor is married to a member of the NCTCOG.

No member of NCTCOG directly owns, controls or has interest in the contractor.

The contractor has disclosed any interest, fact, or circumstance that does or may present a potential conflict of interest.

No member of the NCTCOG receives compensation from the contractor for lobbying activities as defined in Chapter 305 of the Texas Government Code.

Should the contractor fail to abide by the foregoing covenants and affirmations regarding conflict of interest, the contractor shall not be entitled to the recovery of any costs or expenses incurred in relation to the contract and shall immediately refund to the North Central Texas Council of Governments any fees or expenses that may have been paid under this contract and shall further be liable for any other costs incurred or damages sustained by the NCTCOG as it relates to this contract.

Name of Organization/Contractor(s):

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Signature of Authorized Representative:

Date: 1218/24

CONFLICT OF INTEREST QUESTIONNAIRE For vendor doing business with local governmental entity	FORM CIQ
This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.	OFFICE USE ONLY
This questionnaire is being lifed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a tocal governmental entity and the vendor meets requirements under Section 176.005(a).	Date Received
By tax this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a+1), Local Government Code.	
A vendor commis an otlense if the vandor knowingly violates Section 176.006, Local Government Code, An offense under this section is a misdemeanor.	
1 Name of vendor who has a business relationship with local governmental entity.	
<ul> <li>Check this box if you are filing an update to a previously filed questionnaire. (The law recompleted questionnaire with the appropriate filing authority not later than the 7th busines you became aware that the originally filed questionnaire was incomplete or inaccurate.)</li> <li>Name of local government officer about whom the information is being disclosed.</li> </ul>	equires that you file an updated is day after the date on which
Name of Officer	
A. Is the local government officer or a family member of the officer receiving or l other than investment income, from the vendor?	ikely to receive taxable income,
Yes No	
B. Is the vendor receiving or likely to receive taxable income, other than investmen of the local government officer or a family member of the officer AND the taxable local governmental entity?	t income, from or at the direction income is not received from the
5 Describe each employment or business relationship that the vendor named in Section 1 n other business entity with respect to which the local government officer serves as an o ownership interest of one percent or more.	naintains with a corporation or officer or director, or holds an
Check this box if the vendor has given the local government officer or a family member as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.	r of the officer one or more gifts .003(a-1).
Signature of vendor doing business with the governmental entity	Date
Form provided by Texas Ethios Commission www.ethios.state.tx.us	Revised 1/1/2021

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# CONFLICT OF INTEREST QUESTIONNAIRE For vendor doing business with local governmental entity

A complete copy of Chapter 176 of the Local Government Code may be found at http://www.statutes.legis.state.tx.us/ Docs/LG/htm/LG 176.htm. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

(A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity:

(B) a transaction conducted at a price and subject to terms available to the public; or

(C) a purchase or lease of goods or services from a person that is chartered by a state or iederal agency and that is subject to regular examination by, and reporting to, that agency.

#### Local Government Code § 176.003(a)(2)(A) and (B):

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

(2) the vendor:

(A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds \$2,500 during the 12-month period preceding the date that the officer becomes aware that

 $\langle \tilde{i}\rangle$  a contract between the local governmental entity and vendor has been executed; or

(ii) the local governmental entity is considering entering into a contract with the vendor;

(B) has given to the local government citicer or a family member of the officer one or more gifts that have an aggregate value of more than \$100 in the 12-month period preceding the date the officer becomes aware that:

(i) a contract between the local governmental entity and vendor has been executed; or

(ii) the local governmental entity is considering entering into a contract with the vendor.

#### Local Government Code § 176,006(a) and (a-1)

(a) Avendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

(1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);

(2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or

(3) has a tamily relationship with a local government officer of that local governmental entity.

(a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

(1) the date that the vendor:

(A) begins discussions or negotiations to enter into a contract with the local governmental entity; or

(B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

(2) the date the vendor becomes aware:

(A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);

(B) that the yendor has given one or more gifts described by Subsection (a); or

(C) of a family relationship with a local government officer.

Form provided by Texas Ethics Commission

# ATTACHMENT VII: CERTIFICATION OF FAIR BUSINESS PRACTICES

That the submitter has not been found guilty of unfair business practices in a judicial or state agency administrative proceeding during the preceding year. The submitter further affirms that no officer of the submitter has served as an officer of any company found guilty of unfair business practices in a judicial or state agency administrative during the preceding year.

Name of Organization/Contractor(s):

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Signature of Authorized Representative:

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Date: 12/8/24

# ATTACHMENT VIII: CERTIFICATION OF GOOD STANDING **TEXAS CORPORATE FRANCHISE TAX CERTIFICATION**

Pursuant to Article 2.45, Texas Business Corporation Act, state agencies may not contract with for profit corporations that are delinquent in making state franchise tax payments. The following certification that the corporation entering into this offer is current in its franchise taxes must be signed by the individual authorized on Form 2031, Corporate Board of Directors Resolution, to sign the contract for the corporation.

The undersigned authorized representative of the corporation making the offer herein certified that the following indicated Proposal is true and correct and that the undersigned understands that making a false Proposal is a material breach of contract and is grounds for contract cancellation.

Indicate the certification that applies to your corporation:



The Corporation is a for-profit corporation and certifies that it is not delinquent in its franchise tax payments to the State of Texas.



The Corporation is a non-profit corporation or is otherwise not subject to payment of franchise taxes to the State of Texas.



Pursuant to Article 2.45, Texas Business Corporation Act, the North Central Texas Council of Governments reserves the right to request information regarding state franchise tax payments.

(Printed/Typed Name and Title of Authorized Representative)

Signature

Date: 12/8/24

# الله محد ATTACHMENT IX: HISTORICALLY UNDERUTILIZED BUSINESSES, MINORITY OR WOMEN-OWNED OR DISADVANTAGED BUSINESS ENTERPRISES

Historically Underutilized Businesses (HUBs), minority or women-owned or disadvantaged businesses enterprises (M/W/DBE) are encouraged to participate in the solicitation process.

NCTCOG recognizes the certifications of most agencies. HUB vendors <u>must</u> submit a copy of their certification for consideration during the evaluation of their proposal. Please attach the copy to this form. This applies only to the Offeror and not a subcontractor.

Texas vendors who are not currently certified are encouraged to contact either the Texas United Certification Program, State of Texas HUB Program, or the North Central Texas Regional Certification Agency, among others. Contact:

State of Texas HUB Program Texas Comptroller of Public Accounts Lyndon B. Johnson State Office Building 111 East 17th Street Austin, Texas 78774 (512) 463-6958 http://www.window.state.tx.us/procurement/prog/hub/

North Central Texas Regional Certification Agency 624 Six Flags Drive, Suite 100 Arlington, TX 76011 (817) 640-0606 http://www.netrca.org/certification.html

Texas United Certification Program USDOT website at https://www.transportation.gov/DBE

Metronis Not a HUB or WODEr DBE

# You must include a copy of your certification document as part of this solicitation to receive points in the evaluation.

Vendor to Sign Below to Attest to Validity of Certification:

Vendor Name

Authorized Signature

Typed Name

Date



# ATTACHMENT X: NCTCOG FEDERAL AND STATE OF TEXAS REQUIRED PROCUREMENT PROVISIONS

# The following provisions are mandated by Federal and/or State of Texas law. Failure to certify to the following will result in disqualification of consideration for contract. Entities or agencies that are not able to comply with the following will be ineligible for consideration of contract award.

#### PROHIBITED TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT CERTIFICATION

This Contract is subject to the Public Law 115-232, Section 889, and 2 Code of Federal Regulations (CFR) Part 200, including §200.216 and §200.471, for prohibition on certain telecommunications and video surveillance or equipment. Public Law 115-232, Section 889, identifies that restricted telecommunications and video surveillance equipment or services (e.g., phones, internet, video surveillance, cloud servers) include the following:

- A) Telecommunications equipment that is produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliates of such entities).
- B) Video surveillance and telecommunications equipment produced by Hytera Communications Corporations, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliates of such entities).
- C) Telecommunications or video surveillance services used by such entities or using such equipment.
- D) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, Director of the National Intelligence, or the Director of the Federal Bureau of Investigation reasonably believes to be an entity owned or controlled by the government of a covered foreign country. The entity identified below, through its authorized representative, hereby certifies that no funds under this Contract will be obligated or expended to procure or obtain telecommunication or video surveillance services or equipment or systems that use covered telecommunications equipment or services as a substantial or essential component of any system, or as a critical technology as part of any system prohibited by 2 CFR §200.216 and §200.471, or applicable provisions in Public Law 115-232 Section 889.

The Contractor or Subrecipient hereby certifies that it does comply with the requirements of 2 CFR §200.216 and §200.471, or applicable regulations in Public Law 115-232 Section 889.

SIGNATURE OF AUTHORIZED PERSON:	Broth	
NAME OF AUTHORIZED PERSON:	Collin Boxton	
NAME OF COMPANY:	Maton	
DATE:	1218/24	
	-OR-	

The Contractor or Subrecipient hereby certifies that it cannot comply with the requirements of 2 CFR §200.216 and §200.471, or applicable regulations in Public Law 115-232 Section 889.

NAME OF AUTHORIZED PERSON:

NAME OF COMPANY:

DATE:

## DISCRIMINATION AGAINST FIREARMS ENTITIES OR FIREARMS TRADE ASSOCIATIONS

This contract is subject to the Texas Local Government Code chapter 2274, Subtitle F, Title 10, prohibiting contracts with companies who discriminate against firearm and ammunition industries.

TLGC chapter 2274, Subtitle F, Title 10, identifies that "discrimination against a firearm entity or firearm trade association" includes the following:

A) means, with respect to the entity or association, to:

- I. refuse to engage in the trade of any goods or services with the entity or association based solely on its status as a firearm entity or firearm trade association; and
- II. refrain from continuing an existing business relationship with the entity or association based solely on its status as a firearm entity or firearm trade association; or
- III. terminate an existing business relationship with the entity or association based solely on its status as a firearm entity or firearm trade association.

B) An exception to this provision excludes the following:

- I. contracts with a sole-source provider; or
- II. the government entity does not receive bids from companies who can provide written verification.

The entity identified below, through its authorized representative, hereby certifies that they have no practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association; and that they will not discriminate during the term of the contract against a firearm entity or firearm trade association as prohibited by Chapter 2274, Subtitle F, Title 10 of the Texas Local Government Code.

The Contractor or Subrecipient hereby certifies that it does comply with the requirements of Chapter 2274, Subtitle F, Title 10.

SIGNATURE OF AUTHORIZED PERSON:	Barto
NAME OF AUTHORIZED PERSON:	Collin Bask
NAME OF COMPANY:	Metron
DATE:	12/8/24

-OR-

The Contractor or Subrecipient hereby certifies that it cannot comply with the requirements of Chapter 2274, Subtitle F, Title 10.

SIGNATURE OF AUTHORIZED PERSON:

NAME OF AUTHORIZED PERSON:

NAME OF COMPANY:

DATE:

## **BOYCOTTING OF CERTAIN ENERGY COMPANIES**

This contract is subject to the Texas Local Government Code chapter 809, Subtitle A, Title 8, prohibiting contracts with companies who boycott certain energy companies.

TLGC chapter Code chapter 809, Subtitle A, Title 8, identifies that "boycott energy company" means, without an ordinary business purpose, refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations with a company because the company:

- I. engages in the exploration, production, utilization, transportation, sale, or manufacturing of fossil fuelbased energy and does not commit or pledge to meet environmental standards beyond applicable federal and state law; and
- II. does business with a company described by paragraph (I).

The entity identified below, through its authorized representative, hereby certifies that they do not boycott energy companies, and that they will not boycott energy companies during the term of the contract as prohibited by Chapter 809, Subtitle A, Title 8 of the Texas Local Government Code.

The Contractor or Subrecipient hereby certifies that it does comply with the requirements of Chapter 809, Subtitle A, Title 8.

SIGNATURE OF AUTHORIZED PERSON:	Brate
NAME OF AUTHORIZED PERSON:	Collin Baxter
NAME OF COMPANY:	Metro
DATE:	12/8/24
	<b>OD</b>

-OR-

The Contractor or Subrecipient hereby certifies that it cannot comply with the requirements of Chapter 809, Subtitle A, Title 8.

#### SIGNATURE OF AUTHORIZED PERSON:

NAME OF AUTHORIZED PERSON:

NAME OF COMPANY:

DATE: