

ELDRIDGE ELECTRIC AND WATER UTILITY BOARD

March 3rd, 2026 – 5:00 pm
City Hall, 305 N. 3rd Street

1. Call to Order
2. Public Comment
3. Approval of Agenda
4. **Approval of Utility Board Minutes from February 17th, 2026**

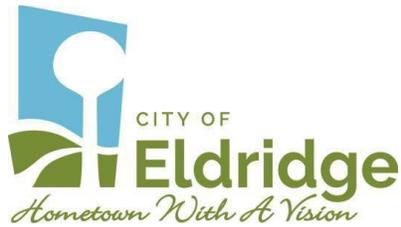
5. Financial & Administrative
 - A. **Consideration to Approve Bills Payable**
 - B. Appointment of Board Secretary
 - C. **Discussion and consideration to approve AMI metering**
 - D. Discussion and consideration to approve moving the March 17, 2026, meeting date to March 24, 2026.
 - E. **Consideration to approve the FY27 Budget for the Water and Electric funds**
 - F. Department Update

6. Electric Department
 - A. **Outages**
 - B. **Consideration to approve Resolution 2026-02 E&W Electric Reliability Plan**
 - C. **Discussion and consideration to approve Resolution 2026-01 E&W Approving Restated and Amended CMMPA Participant Agreement**
 - D. Department Update – Collin Wilson

7. Water Department
 - A. **Water Main Breaks**
 - B. **Water Test Results**
 - C. **Discussion and consideration to approve the amended Fellner's Addition Road Project**
 - D. **Revised language to Northway proposal to perform maintenance and repairs to Well #4**
 - E. **Discussion and consideration to approve KLM proposal to perform storage tank inspections at the Water Treatment Plant**
 - F. **Discussion and consideration to approve the maintenance agreement with Altorfer to service the generator at the S 16th Avenue Water Tower.**
 - G. **Discussion and consideration to approve bulk agreement from ACCO**
 - H. Department Update – Cegan Long

8. Adjournment

NEXT REGULAR MEETING: Tuesday, March 17th, 2026, at 5:00 pm



ELDRIDGE ELECTRIC AND WATER UTILITY BOARD

The regular meeting of the Board of Trustees of the Eldridge Electric and Water Utility Board was called to order at 5:00pm on 2/17/2026, at Eldridge City Hall.

The board members present were Abby Petersen, Jeff Hamilton, and Mark Goodding, Rachael Padavich, and Michael Bristley, was Absent. Also present were

Gage Lane, Nevada Lemke, Cegan Long, Zach Howell, and Jeff Hedrington.

Public Comment – None

Padavich Made motion to Approve the Agenda. Second By Goodding. All Ayes. Motion Carried.

Hamilton Made Motion to Approve Utility Board Minutes from January 27th, 2026. Second By Padavich. All Ayes. Motion Carried.

Financial & Administrative

Padavich Made Motion to Approve Bills Payable in the Amount of \$310,395.55. Second By Goodding. All Ayes. Motion Carried.

Discussion was held regarding meeting dates in March. The Utility meeting will remain scheduled for March 3rd. Further discussion will take place at the March 3rd meeting regarding the March 17th meeting.

Discussion of FY27 Budget for the Water and Electric funds was had. Motion Carried.

Hamilton made a motion to approve splitting the cost of installation for secure entry doors and a gate at the City Shop with Samson. Seconded by Padavich. All Ayes. Motion carried.

Department Update- It is currently compliance busy season, and Sadie has been working diligently to gather data and complete reports and tax forms due within the next few months. The ME-1 and EIA-861S have been completed, submitted, and are currently under review. The statewide property tax return has also been filed, and all necessary information for the attachment has been sent to Allen Bonderman.

Electric Department

Outages- One reported at 8:10am on 2/3/26 at 551 W. Price St. power was restored at 8:40am. 4 customers were affected.

Hamilton Made Motion to Table Resolution 2026-01 E&W Approving Restated and Amended CMMPA Participant Agreement. Second By Goodding. All Ayes. Motion Carried.

Department Update – Crew has completed new electric services and a pole replacement at 301 W. Donahue St. they are currently working on Ivy Acres.

Water Department

Water Main Breaks- None

Water Test Results- Samples have been sent in, and we are currently awaiting the results.

Goodding Made Motion to approve maintenance and repairs for Well #4. Second By Padavich. All Ayes. Motion Carried.

Padavich Made Motion to approve the generator rental quote. Second By Hamilton. All Ayes. Motion Carried.

Goodding Made Motion to approve adding water main work to the 25th and 26th Avenue project. Second Padavich. All Ayes. Motion Carried.

Discussion on ROV Inspections was had. No motion was made. Motion Carried.

Padavich Made Motion to approve KLM proposal to perform storage tank inspections at the Water Treatment Plant. Second By Hamilton. All Ayes. Motion Carried.

Department Update – Long informed the board that the chlorine room heater is scheduled to be

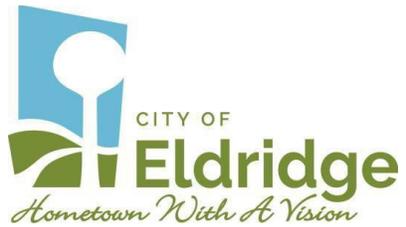
Abby Petersen

Mark Goodding

Rachael Padavich

Jeff Hamilton

Michael Bristley



delivered by February 24th through Petersen Plumbing. The chlorine cylinder scales are expected to be delivered within the next two weeks, with installation assistance from J&R Supply.

Cegan has successfully passed the Grade 4 Treatment and Distribution certification (congratulations to Cegan on this accomplishment) Lastly, the crew continues working on meter swaps and ensuring reliable water service throughout the system.

Motion by Padavich to adjourn the meeting at 6:21 pm. Second by Petersen. All Ayes.

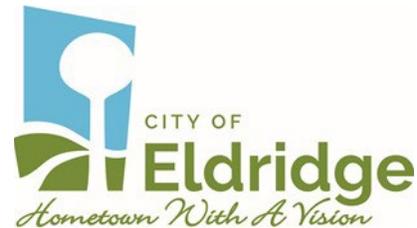
Sincerely,
Gage Lane
Utility Billing Clerk

BILLS PAYABLE					
CHECK #	DEPT	FUND	VENDOR	DESCRIPTION	AMOUNT
227357	ELECTRIC	630-5-820-6340	ACCESS SYSTEMS LEASING	COPIER LEASE	\$ 106.62
227357	ELECTRIC	630-5-820-6340	ACCESS SYSTEMS LEASING	COPIER LEASE	\$ 210.34
227358	WATER	600-5-810-6373	CENTRAL SCOTT TELEPHONE	TELEPHONE/WIFI SVCS	\$ 260.37
227358	ELECTRIC	630-5-820-6373	CENTRAL SCOTT TELEPHONE	TELEPHONE/WIFI SVCS	\$ 449.95
227359	ELECTRIC	630-5-820-6310	CINTAS CORPORATION	FLOOR MATS	\$ 67.33
227359	ELECTRIC	630-5-820-6310	CINTAS CORPORATION	FLOOR MATS	\$ 103.90
227360	ELECTRIC	630-5-820-6310	CINTAS FIRST AID & SAFETY D89	FIRST AID KIT	\$ 39.24
227361	WATER	600-5-810-6311	CLIMATE ENGINEERS-QC	TREATMENT PLANT HVAC MAINTENANCE	\$ 722.00
227362	ELECTRIC	630-5-820-6450	DSI MEDICAL SERVICES, INC.	DSI MEDICAL	\$ 99.00
227363	WATER	600-5-810-6501	HAWKINS INC.	CHLORINE CYLINDERS	\$ 1,619.73
227364	WATER	600-5-810-6310	HOMETOWN MECHANICAL, INC.	VALVE REPAIR	\$ 2,337.00
227365	WATER	600-5-810-6373	JOHNSON CONTROLS SECURITY SOLUTIONS	QUARTERLY BILLING	\$ 521.56
227366	ELECTRIC	630-5-820-6310	MENARDS	BATTERIES	\$ 59.88
227366	WATER	600-5-810-6723	MENARDS	TESTING FAUCET FOR WELL #2	\$ 209.98
227366	WATER	600-5-810-6723	MENARDS	STORAGE SHELF FOR WELL #2	\$ 334.91
227367	WATER	600-5-810-6331	MOLO PETROLEUM, LLC	BULK GREASE	\$ 54.87
227367	ELECTRIC	630-5-820-6332	MOLO PETROLEUM, LLC	BULK GREASE	\$ 54.87
227368	ELECTRIC	630-5-820-6416	NERC	26 2ND QUARTER ASSESSMENT	\$ 778.37
227369	ELECTRIC	630-5-820-6401	OFFICE OF AUDITOR OF STATE	FYE 25 FILING FEE	\$ 312.50
227370	ELECTRIC	630-5-820-6310	PREMIER PEST MANAGEMENT	PEST CONTROL-NOV	\$ 12.50
227370	ELECTRIC	630-5-820-6310	PREMIER PEST MANAGEMENT	PEST CONTROL-DEC	\$ 12.50
227370	ELECTRIC	630-5-820-6310	PREMIER PEST MANAGEMENT	PEST CONTROL-JAN	\$ 12.50
227370	ELECTRIC	630-5-820-6310	PREMIER PEST MANAGEMENT	PEST CONTROL-FEB	\$ 12.50
227371	WATER	600-5-810-6373	QUAD CITIES TAS	ANSWERING SERVICE	\$ 27.57
227371	ELECTRIC	630-5-820-6450	QUAD CITIES TAS	ANSWERING SERVICE	\$ 27.56
227372	ELECTRIC	630-5-820-6332	REXCO EQUIPMENT INC.	REPLACED DAMAGED DECALS UNIT #683	\$ 430.61
227372	ELECTRIC	630-5-820-6332	REXCO EQUIPMENT INC.	TOUCH UP PAINT UNIT #683	\$ 20.54
227373	ELECTRIC	630-5-820-6373	SHARED IT INC	SIT OVERAGE	\$ 230.00
227374	ELECTRIC	630-5-820-6319	TYLER TECHNOLOGIES	MASS METER SWAP CONFIG	\$ 72.50
227375	WATER	600-5-810-6560	VAN WERT INC	RILCO 1" METERS	\$ 1,010.29
227375	ELECTRIC	630-5-820-6560	VAN WERT INC	METERS	\$ 4,066.20
227376	WATER	600-5-810-6373	VERIZON WIRELESS	CELLULAR SERVICES	\$ 156.01
227376	ELECTRIC	630-5-820-6373	VERIZON WIRELESS	CELLULAR SERVICES	\$ 183.17
227377	ELECTRIC	630-5-820-6332	VERMEER SALES & SERVICE	REPLACEMENT OF BROKEN PARTS UNIT #665	\$ 829.56
DFT0000446	ELECTRIC	630-5-820-6503	CENTRAL MUNICIPAL POWER	JAN 26 ENERGY SUPPLY	\$ 411,321.57
ACH	SPLIT	SPLIT	PAYROLL 2/26	PAYROLL 2/26	\$ 41,678.49
TOTAL:					\$ 468,446.49

CREDIT CARD					
DEPT	EMPLOYEE	FUND	VENDOR	DESCRIPTION	AMOUNT
WATER	CEGAN LONG	600-5-810-6230	IA DNR FEES & PAYMENTS	GRADE IV WATER TREATMENT CERT EXAM FEE	\$ 63.04
ELECTRIC	DEVIN GHEER	630-5-820-6310	FARM & FLEET	14" BOLT CUTTER	\$ 49.21
WATER	NEVADA LEMKE	600-5-810-6601	YMCA OF THE IA MISS VALLEY	2 WATER - Y AT WORK	\$ 40.00
ELECTRIC	SADIE WAGNER	630-5-820-6230	IAMU	IAMU ENERGY CONF REG - WAGNER & WILSON	\$ 550.00
ELECTRIC	SADIE WAGNER	630-5-820-6506	DELL	NEW LAPTOP FOR ELECTRIC DEPT WORKSTATION	\$ 764.72
TOTAL CREDIT CARD:					\$ 1,466.97
TOTAL:					\$ 469,913.46

Eldridge Electric & Water

MEMORANDUM



To: Eldridge Electric & Water Utility Board of Trustees
From: Utility Administrative Manager, Sadie Wagner
Re: Recommendation to Consider Advanced Metering Infrastructure Metering Upgrade
Date: February 3rd, 2026

Utility Board of Trustees:

I am recommending that the Utility Board consider moving forward with Advanced Metering Infrastructure (AMI) metering as a potential upgrade to our current metering system. AMI metering represents a significant modernization of utility operations by allowing meters to be read remotely through secure communication technology, rather than through manual meter reading. This upgrade would improve efficiency, accuracy, and responsiveness for both staff and customers.

Key benefits of AMI metering include:

- **Operational Efficiency:** Eliminates the need for manual meter reading, reducing labor demands and associated costs.
- **Improved Billing Accuracy:** Provides real-time usage data, minimizing estimated reads and billing errors.
- **Enhanced System Monitoring:** Allows for quicker identification of leaks, abnormal usage, and potential system issues.
- **Customer Service Improvements:** Gives customers more timely and detailed usage information, helping them better understand and manage consumption.
- **Long-Term Cost Savings:** While there is an upfront investment, AMI systems can reduce operational costs and improve asset management over time.

As part of this evaluation, staff have requested and received a preliminary quote from our current meter vendor, Van Wert, outlining costs and options for implementing AMI metering within our existing system. This quote is included for the Board's review.

At this time, no action is being requested beyond review and discussion. Staff is requesting the Utility Board's direction regarding the potential implementation of AMI metering.

I believe this upgrade is worth careful consideration as part of the utility's long-term planning and commitment to efficient, modern service delivery.

AMI Proposal

Eldridge Municipal Utilities
Advanced Metering Infrastructure (AMI)
September 10, 2025





Tantalus Systems Inc.

1130 Situs Court,
Suite 230,
Raleigh, NC 27606
USA

P: 919.900.8970

F: 919.900.8978

tantalus.com

September 10, 2025

Eldridge Municipal Utilities
305 North 3rd St.
Eldridge, IA 52748

Proposal - Advanced Metering Infrastructure and Grid Modernization

Tantalus Systems Inc. is pleased to present our proposal for AMI and Grid Modernization. We appreciate the opportunity to provide you with this information.

Tantalus is dedicated to helping utilities modernize their distribution grids by harnessing the power of data across all their devices and systems deployed throughout the entire distribution grid – from the substation to the EV charger behind the meter. We offer smart grid solutions across multiple levels: intelligent connected devices, communications networks, data management, enterprise applications, and analytics.

Our proposed Tantalus Grid Modernization Platform (TGMP) offers your utility a differentiated approach that addresses each of your requirements, with the unique advantage of providing a technology architecture from one partner designed to deliver true data interoperability across new and existing devices, systems, and vendors. TGMP provides the devices and communications network to support day-to-day operations, such as activating and monitoring service connects and disconnects, while also enabling the specific grid modernization applications that your utility will need in the future.

Tantalus recognizes these are very important projects for every utility, and we look forward to discussing and demonstrating the details of our solution and how it supports all of your grid modernization goals.

Please do not hesitate to contact me at (325) 260-6717 or cchristensen@tantalus.com if you have any questions or require additional information.

We thank you for your consideration.

Best Regards,

Chris Christensen
Regional Sales Manager - Midwest



Executive Summary

Tantulus is a technology company dedicated to helping utilities modernize their distribution grids. We do this by harnessing the power of data across all devices and systems deployed throughout the entire distribution grid – from the substation to the EV charger behind the meter. We offer smart grid solutions across multiple levels: intelligent connected devices, communications networks, data management, enterprise applications, and analytics.

The Tantulus portfolio of solutions proposed meets all the requirements of both your AMI and Grid Modernization goals. We can deliver the unique capabilities needed to develop an AMI system and related Grid Modernization applications that will meet your needs today and decades into the future with the least possible risk of obsolescence.

In a recent survey, 93% of utilities said modernizing their distribution grids was an important priority. The real challenge, however, is that utilities cannot modernize the distribution grid without truly interoperable data. To modernize the grid, utilities need to harness the power of data across every device deployed throughout the entire distribution grid — which now extends from the substation to emerging devices located behind the meter.

The Tantulus Grid Modernization Platform (TGMP) is a technology architecture that provides a secure, flexible, affordable path to grid modernization by delivering true data interoperability across new and existing devices, systems, and vendors. By accessing data from devices deployed throughout the distribution grid, TGMP delivers unprecedented visibility, command, and control levels to improve a utility's operations.

Connected devices that deliver the right data at the right time to the right system. One of our most important devices, the TRUSense Gateway™, provides substation-level power quality measurement at the electric meter socket AND control of Distributed Energy Resources (DERs), such as electric vehicle chargers, solar and storage inverters and smart appliances located behind the meter. The TRUSense Gateway ensures that no existing asset is stranded while creating a foundation for the future.

Communications, such as the TRUConnect™ Network, deliver the necessary flexibility and compatibility to evolve as the edge of the grid expands to include DERs deployed behind the meter.

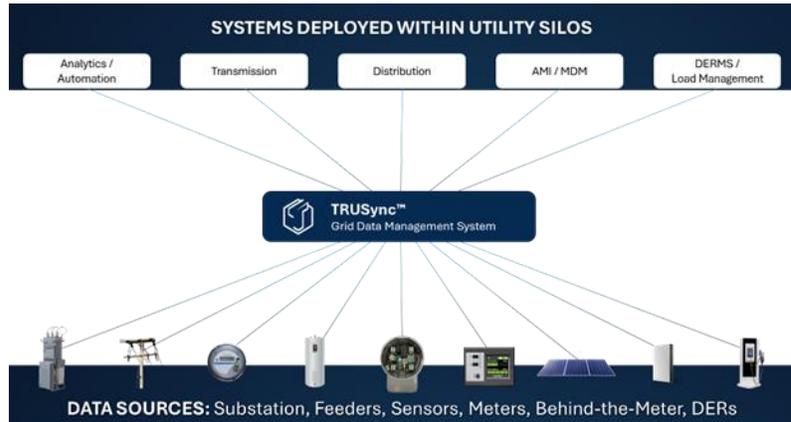




Grid data management, such as the TRUSync™ Grid Data Management system, is a revolutionary system that automates data integration across every device, system, and vendor.

Software applications, such as the Insight head end / intuitive user interface and TRUFlex™ Load+DER Management, take advantage of having all a utility's data in one place.

Data analytics, such as our TRUGrid™ Transformer and TRUGrid Reliability analytics offerings, leverage Artificial Intelligence (AI) to protect assets and prioritize investments, proactively anticipate critical issues before an event occurs, and respond to problems in real-time.





Why our firm is qualified to handle this project – differentiators and strengths.

We understand that a future-ready metering infrastructure (AMI) provides robust bi-directional communications and interval-capable meters, interfaces with multiple software applications, and accommodates innovative technologies such as distributed automation, electric vehicles/fleets, and managing voltage levels. We support your mission to promote safety, improve member satisfaction and system reliability, and develop a strategic electrification plan for your communities.

We are excited about the opportunity to assist you in achieving those goals.

Our customer retention rate currently stands at 99.4%. This key proof point shows how we work with and support our clients at every engagement stage. Overall, we listen carefully to what our customers seek from the TRUConnect AMI system and Tantalus as a vendor.

With that in mind, **key differentiators that our solution offers include:**

- **Backward compatibility:** As we develop new applications and deploy innovative technologies, Tantalus brings our customer community along, eliminating stranded assets. Each new innovative offering can be seamlessly integrated with previously deployed assets, enabling customers to enjoy new benefits without having to rip and replace.
- **Customer access to multiple meter platforms:** We want to provide you with the choice to implement a metrology platform that works best for you now and in the future. We are one of the only AMI vendors to support multiple meter manufacturers, including Itron, Landis+Gyr, and Aclara. This allows us the flexibility to seamlessly meet your needs from multiple vendors in the marketplace.
- **The TRUSense Gateway: A new, multi-purpose socket-based device that helps utilities to:**
 - Create a reliable and secure utility communications path into the premises using the same standards-based technologies that consumer-centric DERs need.
 - Monitor power quality at the socket, providing a high-resolution measurement of power delivery, transient power events, and local conditions such as sags, swells, outages, and even phase information.
 - Couple power quality monitoring with real-time communications, allowing utilities to avoid truck rolls while gaining a granular view of the distribution network.
 - Simplify the process of integrating behind-the-meter DERs onto the distribution system at scale through a translation layer to support the growing protocols and personalities involved.





The TRUSense Gateway is unique within the utility industry. It enables direct utility communications and coordination between DERs within the premises by linking with them using onboard, utility-secured Wi-Fi or HomePlug access. This enables scalable DER connectivity and management for the utility so they can be relied upon as assets for grid services. These connections allow the collection of revenue-grade metering data, operational status, configuration changes, and even active real-time control, depending on the applications chosen by your utility and the capabilities available in the DERs. Tantulus is the only vendor with the expertise and solutions to allow utilities to fully leverage their member's investment as the foundation of a modern grid.

Most importantly, TRUSense provides a dedicated communications channel to the DER that is not subject to the variability of the consumers' broadband connections. Utility programs see connectivity losses of 20% per year when customer broadband is relied upon to reach smart devices, usually due to router failure and Wi-Fi password changes. Further, not all electric service customers have home broadband or Wi-Fi, so such models are inequitable to the community. TRUSense's equitable and innovative industrial-grade security and connectivity approach for behind-the-meter communications avoids the pitfalls of alternative AMI 2.0 solutions. For behind-the-meter DER communications, these other solutions depend upon the hit-or-miss communications that a utility customer's broadband service and Wi-Fi router represent compared to TRUSense.

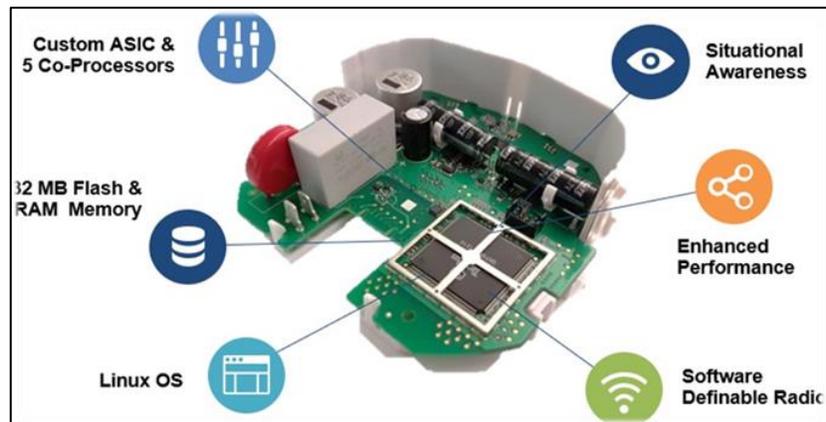
Given the complexities associated with utilities' traditional approach to integrating and managing data across multiple systems and the compounding nature of the amount of data available to build comprehensive system plans, utilities need a single platform that gives them visibility, command, and control. By leveraging TGMP, you can become a data-driven utility without all the expertise needed to manage the flow of raw data. That means your team can focus on putting the data to good use and on strategic priorities by leveraging the data from existing assets, including AMI systems, grid optimization tools and load management programs, connectivity, grid optimization, EV infrastructure, and behind-the-meter load and DER management.

In addition to the higher-level differentiators above, ***the TRUConnect AMI solution has multiple technical differentiators, including:***

1. **Insight** – A simple and easy-to-use interface for smart grid management. The intuitive interface lays out a clear path for users to get what they need quickly. Users can drill down from strategic macro displays to tactical component views in just three mouse clicks.
2. **TRUPush Data Delivery** - The TRUConnect AMI system utilizes a push method (TRUPush™), enabling the meters to deliver interval data as frequently as every five minutes for electric meters. Alerts, voltage events, and outages are pushed from the meters in near real-time. With TRUPush technology, data arrives sooner and will remain fresher than data provided in a batched method three or four times a day. Because of this, utilities can react faster to incoming information, and with the analytical tools available, they can preempt many undesirable situations, thus mitigating the negative impacts. Tantulus Closed Loop Voltage Reduction (CLVR) is an example of an application that utilizes TRUPush for real-time feedback across the grid edge to optimize voltage reduction.



3. **LAN Technology** - Tantulus designed TRUConnect AMI to accommodate smaller LANs to ensure effective command and control communications. Smaller LANs are more efficient, but they provide a more robust network. The frequency hopping channel management efficiency is achieved partly through the support of smaller LAN sizes,



which leads to processing fewer messages per controller, thus making command and control more robust and dependable. Using smaller LANs also allows TRUConnect A.M.I. field deployments to be designed with fewer hops than most mesh-based AMI systems. This results in a more robust network with lower latency because meters rely on fewer devices to relay messages to the head end, which is especially valuable in outage and restoration reporting. Intelligent network routing and self-healing ensure the fewest hops possible without sacrificing the quality of the links.

4. **Endpoint Power** - Tantulus was the first to introduce a high-resolution real-time data processing platform, the Tantulus TRUConnect Edge module. TRUConnect Edge supports distributed intelligence across the TRUConnect AMI system with a powerful ASIC, five co-processors, 32MB RAM + 32 MB flash, and powerful computing capacity. Since its initial deployment in 2013, we have continually added capabilities and applications.

Tantulus offers the most cost-effective, efficient, and future-proof path. It is a future in which your utility becomes a playbook for utilities nationwide.



Advanced Metering Infrastructure

Tantulus is pleased to present our TRUConnect AMI solution for your consideration. Our TRUConnect AMI head end application software is offered in version 5.0.

A narrative description of the proposed AMI, system components, and capabilities:

- **Electric meters**
- **Network collectors**
- **Repeaters or other network devices**
- **Backhaul communication system**
- **Meter head end**

TRUConnect AMI (formerly known as TUNet) is a unique AMI system that will provide complete visibility to your network. We are proposing a system capable of addressing the multiple challenges you face. Our base bid includes the TRUSense Cellular Gateway, which enables visibility past the meter, specifically to distributed energy resources. TRUSense is equipped with advanced power quality measurement capability, which provides greater insight into the distribution network. In concert with the TRUGrid Reliability analytics solution, our solution includes everything necessary for you to achieve complete visibility of your network – and beyond.

Our offer includes an option for the TRUGrid Transformer and TRUGrid Reliability analytics applications, which provide an enhanced view of general and transformer health on the grid, enabling you to work proactively in asset management. Optional applications include Closed-Loop Voltage Reduction (CLVR) and TRUFlex Load+DER Management, providing the ability to manage peak demand and a means to provide demand management. This system is purpose-built for the public power market and has been designed to meet your short- and long-term needs.

The system tailored for you includes:

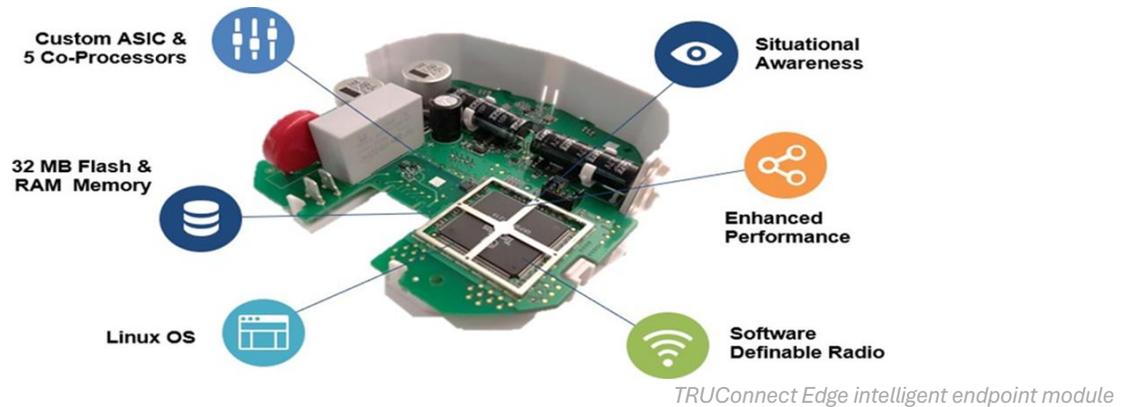
- AMI head end
- Fully integrated ITRON meters equipped with Tantulus TRUConnect Edge modules; single phase standard, single phase disconnect, polyphase
- TRUSense Fiber Gateways
- TRUGrid Reliability analytics
- TRUGrid Transformer analytics

Electric Meters - Future Proof Module Capability

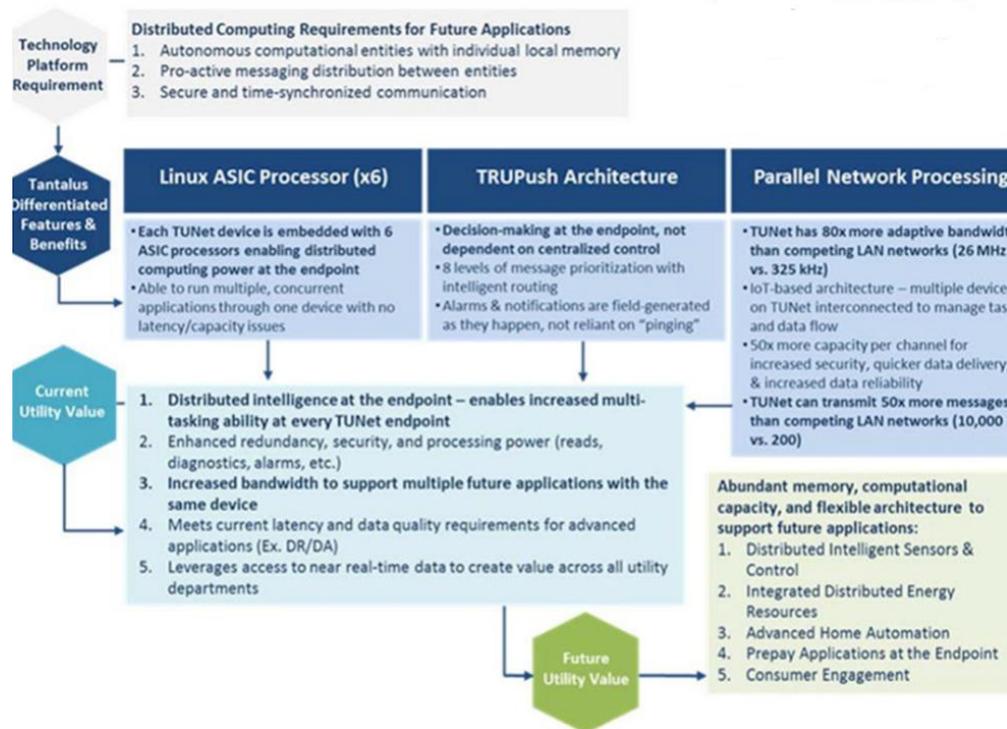
The TRUConnect Edge is an intelligent meter endpoint that supports edge applications and reports more granular data for your utility to leverage the power of this data in Tantulus Systems' advanced grid optimization operational and analytic applications. The resulting distributed intelligence allows your utility to analyze more granular data at the endpoint and make location-specific decisions faster without



transmitting all the data to a central server before acting. Tantalus has embedded highly parallel computing power into our Advanced Metering Infrastructure 2.0 (AMI 2.0) communication module, making smart meters and devices even smarter, which enables advanced communications and far higher-resolution data processing than other AMI systems. This platform was built in anticipation of tomorrow's bi-directional grid, predictive analytics, and applications that interact from the utility to the edge behind the meter to interact with consumer energy technologies within the premises.



Security-Enhanced Linux (SELinux) OS provides a secure application platform. It also provides for rapid software development on a standardized platform that can support third-party endpoint applications. Based on work by the National Security Agency (NSA), SELinux provides enhanced security over many other systems and is utilized by the Department of Defense for critical systems.



Architectural/Processing Overview



Network Collectors - TRUSense Gateways

TRUConnect AMI can leverage multiple transport methods for the WAN/backhaul infrastructure, including cellular, fiber, broadband, etc. Each transport method can be used individually throughout the service territory or with others to provide the infrastructure best suited to current and evolving needs. Tantulus offers a variety of gateways to provide coverage for all types of deployments and terrain while limiting the risks associated with a single point of failure.

The TRUSense Gateway is a unique communications gateway that is a dual-purpose device that fits in the meter socket and:

- Creates a secure utility communications path into the premises that uses the same standards-based technologies that consumer-centric DERs use
- Monitors electric service at the socket, acting as a sensor that provides cutting-edge power quality, reliability monitoring, and even phase identification and measures two-way power flow
- Greatly simplifies AMI deployment by eliminating the need for pole-mounted or tower-mounted infrastructure that is complex and more difficult to maintain
- It connects directly to your Fiber-to-the-Home (FTTH) network with a single fiber strand at each point.

With this device, the utility can manage connectivity with important devices like EV chargers, solar inverters, and smart appliances so that these important resources are not reliant on the customer's Wi-Fi password or sharing bandwidth with Netflix and "Call of Duty." The consumer continues to have access to a device without any responsibility or inconvenience relating to managing its connectivity. Virtually all smart devices use standard IP-based communications like Wi-Fi and HomePlug, which the TRUSense Gateway supports. Standard protocols such as OpenADR and IEEE 2030.5 can be directly managed from Tantulus applications.

Hybrid Architecture—Tantulus' system leverages a hybrid design that combines the benefits of a point-to-multipoint system and a mesh system. Our networks make direct connections from the endpoint to the network and are intentionally designed with fewer hops. As a result, our system can outperform a mesh but has the added benefit of a self-healing network, unlike a point-to-multipoint system.

The TRUConnect Network was developed specifically to meet the needs of utilities with varied service territories and offers the best characteristics of both point-to-multipoint and hierarchical network architectures, using the most appropriate combination of technologies for a given coverage and application needs.

The TRUConnect Network leverages such technologies as:

- 900MHz non-licensed band hierarchical Neighborhood/Local Area Network (NAN)/(LAN)
- Flexible backhaul options (Fiber, cellular, satellite, microwave)

The TRUConnect Network draws from the strengths of these technologies. It improves their use by allowing them to be combined for network coverage certainty regardless of the geographic characteristics of the distribution network. The flexible backhaul options work with an unlicensed hierarchical 900MHz LAN to provide efficient coverage in low and high-density areas and full system functionality to all endpoints regardless of location. The LAN connects directly to an IP-based backhaul, such as Fiber (including Fiber to the home), cellular, and broadband, allowing the most cost-effective and reliable communications



technology deployed in each part of the utility's territory. In addition, Tantalus always looks to leverage a utility's existing IP communication infrastructure, such as your FTTH network, for efficient backhaul.

The TRUConnect Edge module in every TRUConnect AMI device also acts as a repeater, extending LAN coverage if needed, providing economical coverage in more rural deployments, and providing network redundancy. Even though we offer Repeaters that can be used to extend the reach of the LAN when needed, these are not required for your deployment.

Communications System

TRUConnect Network LANs are self-initializing, self-healing, and self-optimizing. Upon initial power-up, the meters find an optimal path to the head end and several alternate paths, which are stored in the TRUConnect Edge module in the meter. If the primary path is not viable (loss of communication between the meter and the head end), the meter will utilize one of its alternate paths to push data to the head end. The meter will search for new paths to the head end if the alternate path is unavailable. During periods of self-healing, interval and alarm data continue to be recorded in non-volatile memory so that no data is lost. The self-healing feature does not require any manual intervention.

During the design process, the capacity of the TRUSense Gateways is evaluated to ensure path redundancy and reduced hop levels. While the system can support up to 15 hops, each utility's TRUConnect Network is purposefully designed with fewer hops. The design targets fewer than three hops on average across the system to ensure effective command and control communications. Smaller LANs are more efficient, and they provide a more robust network. Lower latency results because meters rely on fewer devices to relay messages to the head end, a feature especially valuable in outage and restoration reporting functions. Intelligent network routing and self-healing capability ensure the fewest hops possible without sacrificing the quality of the links.

Other AMI systems communicate to thousands of meters through a single data collection point controller. These systems also utilize polling to bring back meter data, with many meters pouring data into one controller collection point. This bottleneck makes it difficult for high-priority messages to get through. The inefficient use of network capacity means there is either limited capacity to support basic AMI such as remote disconnect, outage, and alarms, or additional infrastructure is needed to ensure support, limiting the ability to add applications beyond AMI.

The following points are critical to successfully implementing your wider Grid Modernization Solutions and goals.

TRUConnect AMI's data delivery method is unique and significantly benefits our customers. The network utilizes a predominantly push method (TRUPush™) for data delivery, which enables the meters to deliver interval data as frequently as every five minutes without needing to be queried by control software or wait for an allotted timeslot. Bellwether meters receive one-minute reads within several seconds. Alarms and exceptions, including sag/swell and outage/restoral messages, are pushed in real-time with high priority to the head end.

With TRUPush technology, data arrives sooner and will remain fresher, enhancing a utility's situational awareness. Alternatively, most other AMI systems continue to batch data that is polled between 1 and 6 times daily. Tantalus' distinct approach to push data rather than wait for batched data allows utilities to react



faster to the incoming information and leverage analytical tools available to preempt many situations, thus mitigating potential disruptions, outages, and other operational issues that can inconvenience customers. With TRUPush, the intelligent TRUConnect Edge modules act as a community to ensure the highest value data is delivered first, dynamically utilizing available network capacity to push the highest priority data to the head end (TRUConnect AMI supports eight levels of priority with DA and Outages prioritized over statistics and interval data).

Tantalus utility customers use TRUPush technology to enable applications where near-real-time data is required, such as voltage management, checking transformer/line loading before servicing, power factor management, grid optimization (e.g., Conservation Voltage Reduction, Volt/VAR Optimization) and faster response to exceptions such as consumption on inactive accounts. Tantalus also provides more timely and robust input to enhance the value of engineering and operational tools such as Milsoft's Windmill and advanced DMS and SCADA. The TRUConnect Network's real-time data delivery enhances customer portals and enables customer service calls to be resolved effectively.

All data, including outage notifications, sags, and swells, provide a timestamp and full-scale register read and are pushed to the head end in real-time. The TRUConnect Network's TRUPush design also enables utilities to provide consumers with more detailed and timely consumption data and alerts, such as outages and water leaks (when coupled with ERT/ORION/R900 technology).

AMI Head End

The TRUConnect AMI head end provides a seamless interface for smart grid management, leveraging an intuitive user experience that allows views from strategic macro displays to tactical components with only a few clicks. Reports and analytics are easily accessible, and the user interface is supported on smartphones and tablets, allowing authorized employees secure access on the go. We have eliminated the frustration of having to click and drill down endlessly to get where you need to be. The CSR landing page is user-configurable and supports robust search capabilities to help retrieve data quickly and better serve customers.

The dashboards provide a wealth of information at a glance. Users can evaluate the entire system and easily pinpoint and address critical issues. The user interface delivers a variety of methods (slide-out menus, drop-down boxes, and expanding widgets) for the next actions, which makes an enormous amount of information instantly accessible without cluttering the screen. Information and controls presented to the user are appropriate to their role within the utility, completely configurable, and password protected (e.g., a Customer Service Representative should not be bothered with or have access to network performance statistics).

The head end supports horizontal scaling by adding more CPU cores to support additional message-handling processes. Messages are received by the head end and put into queues. The SP process handles the single-phase messages, and the PP process takes polyphase messages. As more CPU cores are added, more processes are run to utilize the additional CPU cores. In addition to adding more cores, more memory is added to support the different methods, allowing the system to scale up and down. The other major message handlers are the OEM processes for Itron ERT, ORION, Neptune MIU, and DNP3 for SCADA messages.



The optional TRUGrid Reliability analytics solution enables your team to proactively find latent issues affecting system reliability. With this tool, engineering can identify portions of their feeders that frequently experience blinks and flickers that are not detected at the substation or reported by the OMS. They can see if disturbances are due to environmental effects such as lightning, high wind gusts, freezing rain or snow, or seasonal disturbances such as known migratory animal patterns. Dispatchers and supervisors are alerted to flickering locations typically indicative of failing transformers, splices, secondaries, underground micro faults, service lines, socket corrosion, and loose lugs through the alarming and reporting system before they become larger problems.

The optional TRUGrid Transformer analytics solution is included with our offer. For the first time, utilities can monitor, anticipate, and prioritize transformer issues in near real-time before they happen. This means they can avoid the costs, disruptions in service, and safety issues that transformer failures bring. Moreover, they can proactively plan how to manage and upgrade their assets to stay one step ahead of trouble.

With visualized real-time transformer data across the grid, you will be better equipped to prevent outages, explosions, meltdowns, and major associated costs to prevent needless capital expenditures. You will preserve existing transformer assets and prioritize which aspects of your system need attention next, allowing you to forecast transformer requirements and streamline the order process for new components.

Additional/Optional Network Applications

TRUSync Grid Data Management Applications

The TRUSync Grid Data Management platform from Tantalus enables the interoperability of a wide range of devices through an emerging Institute of Electrical and Electronics Engineers (IEEE) standard. By deploying TRUSync, a utility's smart grid deployment can operate as one intelligent, interoperable system with the necessary scalability and flexibility as more electric vehicles (EVs) and distributed energy resources (DERs) are deployed at the edge of the grid. Simplifying the acquisition, transport, and integration of data over energy networks, TRUSync gives utilities and renewable energy producers the technology they need to manage and control power distribution at every point on the grid. This suite of advanced software applications acquires, transports, and presents complex energy data for analysis, action, and automated control – so utilities can keep the energy flowing to customers effectively, efficiently, and safely.

TRUFlex Load+DER Management System

TRUFlex provides aggregated management of behind-the-meter loads and DERs. Modules include participant management, device and diagnostics, event scheduling, execution, and monitoring. Application Program Interfaces (APIs) support integration with an upstream Distributed Energy Management System (DERMS) or Advanced Distribution Management System (ADMS).

The LC-2300 load controller series features a TRUConnect Edge module and works with TRUFlex to independently manage up to four loads from each device: two directly with 30A 240VAC relays, the two by controlling lower-current control circuits such as central air conditioning. TRUFlex will be a key component of our Grid Modernization Proposal.



Closed Loop Voltage Reduction (CLVR)

The Tantalus CLVR application is designed to give real visibility of voltages at the grid edge so that the system can be truly optimized. CLVR turns any TRUConnect Network-connected smart meter and TRUSense Fiber Gateway anywhere in the grid into a bellwether voltage monitoring DA device. While all TRUConnect meters send alarms when voltages cross high and low thresholds, those meters chosen as CLVR bellwethers quickly send these alarms using DNP3 to the SCADA/DMS so the voltage controls can be adjusted accordingly to bring grid edge voltages back into line. Furthermore, CLVR bellwether devices provide one-minute streaming voltage data to the SCADA/DMS for trending and advanced control logic that completes the ideal voltage management solution.

To help choose appropriate devices to designate as CLVR bellwethers, TRUConnect AMI collects and stores more than 12 months of detailed interval voltage data. By analyzing this data, an optimal set of bellwethers can be chosen that covers all seasons, times of day, and load conditions so that the set truly represents all customers on the system.

CLVR optimized voltage optimization results, whether the goal is reducing peak demand with Demand Voltage Reduction, energy consumption with Conservation Voltage Reduction, or system losses with Voltage/VAR optimization.

Insight Overview

- Provides an intuitive visualization of the system and the AMI functionality
- Manages and monitors the network
- Displays meter interval data, alarms, and events
- Provides a platform for 3rd-party applications over TRUConnect™ AMI
- It interfaces with the utility's other applications, such as billing, MDM, CIS, OMS, Prepay, DA, LMS, and SCADA. The web-based interface provides easy access to a wealth of data and functionality to facilitate customer service and improve operational efficiency. Insight supports a variety of integration methods and formats, including MultiSpeak, DNP3, and flat-file.

Insight provides a central database designed to collect and accommodate large amounts of data. Insight accumulates and processes the data pushed from the LAN (e.g., meter read data, DA devices, events, alerts ...) in real-time. The data is stored in Insight for up to 14 months and can be exported to other systems (such as an MDM or billing system) for longer retention.

Network Analysis and Troubleshooting

Insight, the graphical user interface, includes many diagnostic and troubleshooting capabilities. Please see the Insight section below, which includes a detailed description and screenshots.

- System Dashboards provide read reliability reports, active event logs, the status of networking equipment, and performance.
- TRUView is a geolocation GIS tool that displays real-time events and system performance data in a graphical format.
- Insight provides the Network and System Status snapshot as a landing screen. It includes network and system statistics such as meter read rate and communication infrastructure health.

Insight

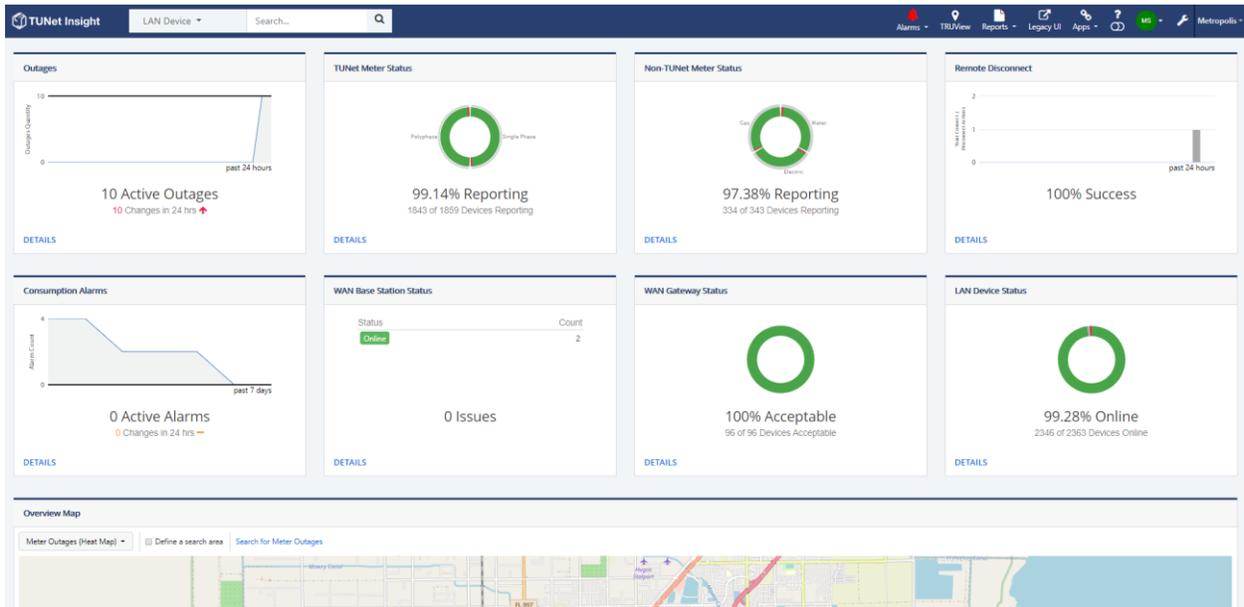
Working with a design consultant and receiving feedback from current customers, the Insight GUI is user-centric - providing more content at a glance with a configurable, intuitive design. Reports and analytics are easily accessible, and the GUI is supported on smartphones and tablets, allowing authorized employees secure access on the go.

Starting with a deep understanding of the tasks to be accomplished and the typical utility workflow, the GUI facilitates maximum productivity. For example, the initial screen differs depending on the User's login credentials. A System Administrator will be taken to one landing page, while a Customer Service Representative (CSR) will be taken to another. The information they need differs greatly because the Administrator and CSR perform different tasks. The CSR landing page is user-configurable and supports robust search capabilities to help retrieve data quickly and better serve customers.

The intuitive interface lays out a clear path for users to get what they need - quickly. Users can drill down from strategic macro displays to tactical component views in just three clicks. This ease of use reduces the learning curve and improves productivity for users at all levels of the organization.

The dashboard provides a wealth of information at a glance. Users can evaluate the entire system and easily pinpoint and address critical issues. Balancing the format of the data content with a combination of tables, text, and graphics improves comprehension. The Insight GUI provides a variety of methods for the next actions (slide-out menus, drop-down boxes, expanding widgets), which makes an enormous amount of information instantly accessible without cluttering the screen.

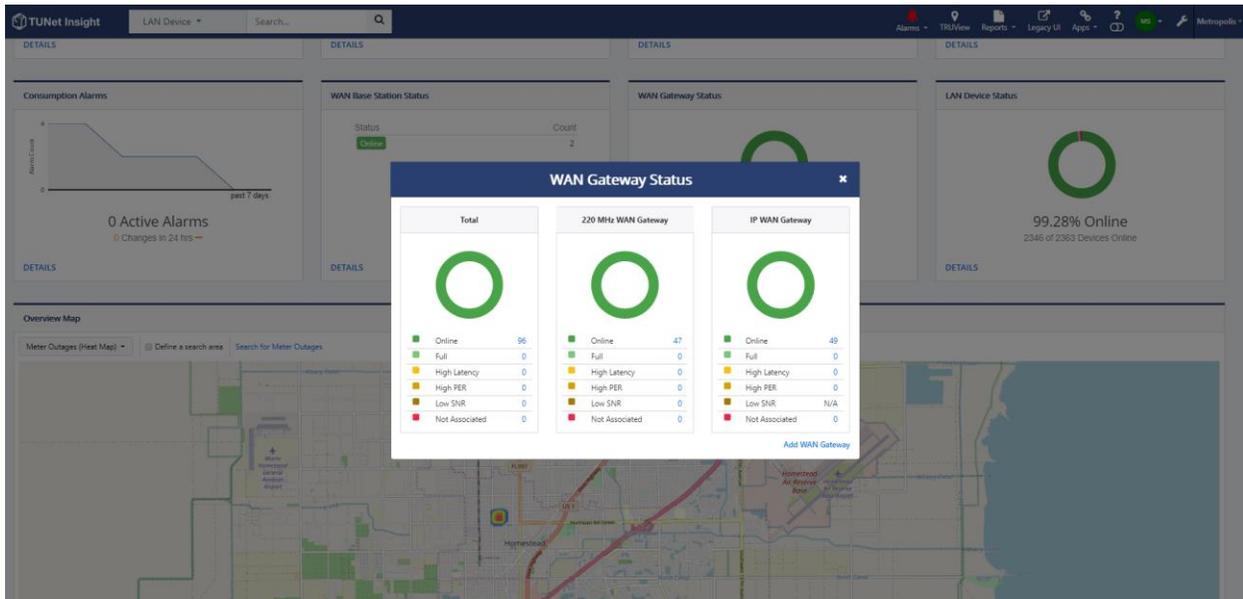
System Landing Screen for the Network Administrator



From this screen:

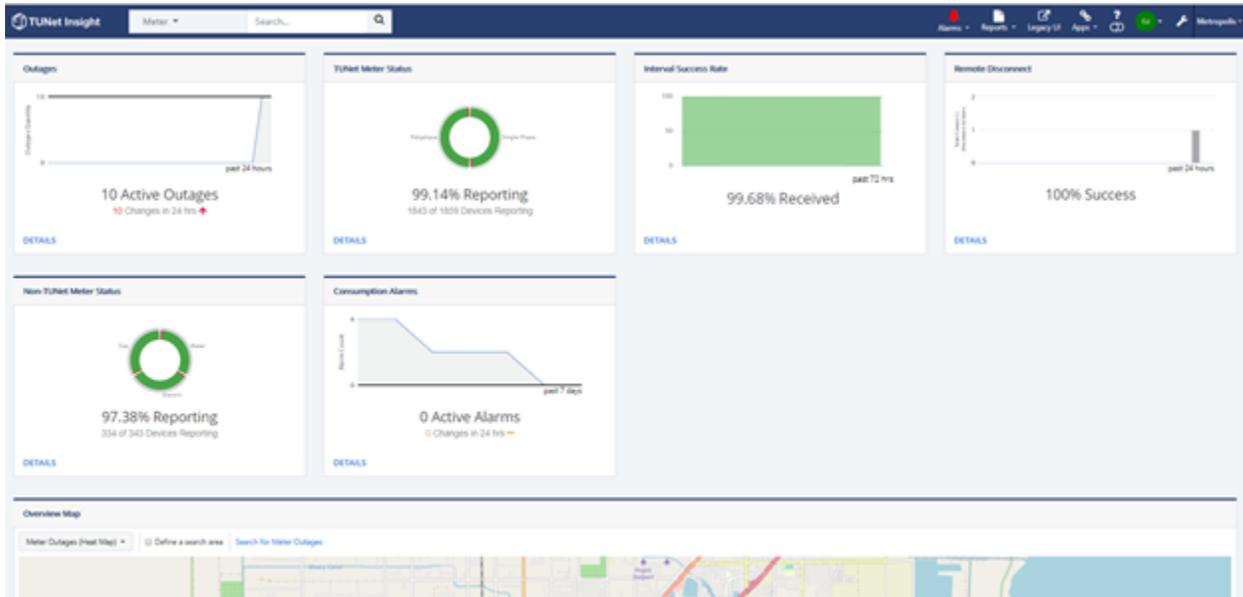
- The Network Administrator can manage User Accounts and assign privileges.
- System Dashboards provide read reliability reports, active event logs, and the status of networking equipment and performance.
- Access to system-wide meter outages
- Status of Remote Disconnect meters
- Status of Water and Gas meters and RF modules
- Access and manage specific applications for each utility and application on the headend.
- Additionally, TRUView GIS displays real-time events and system performance data in a geographical format.
- Access and notification of alarms

WAN Gateway Status Drop-down Details Screen for the Network Administrator

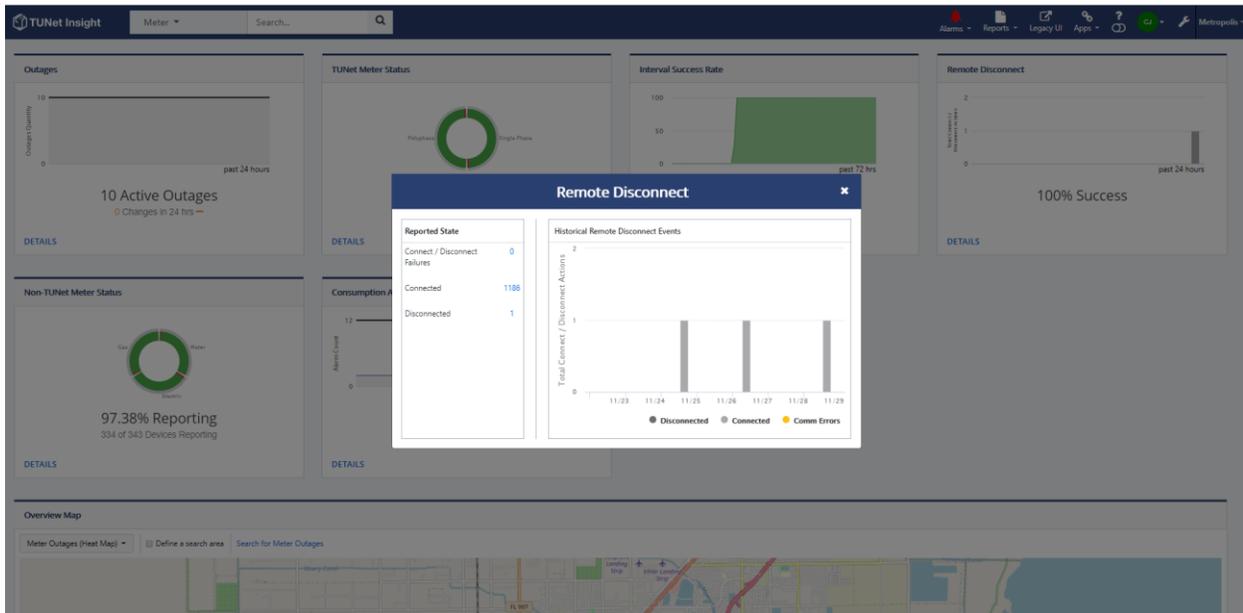


The above screen provides the status of your network infrastructure in one easy view.

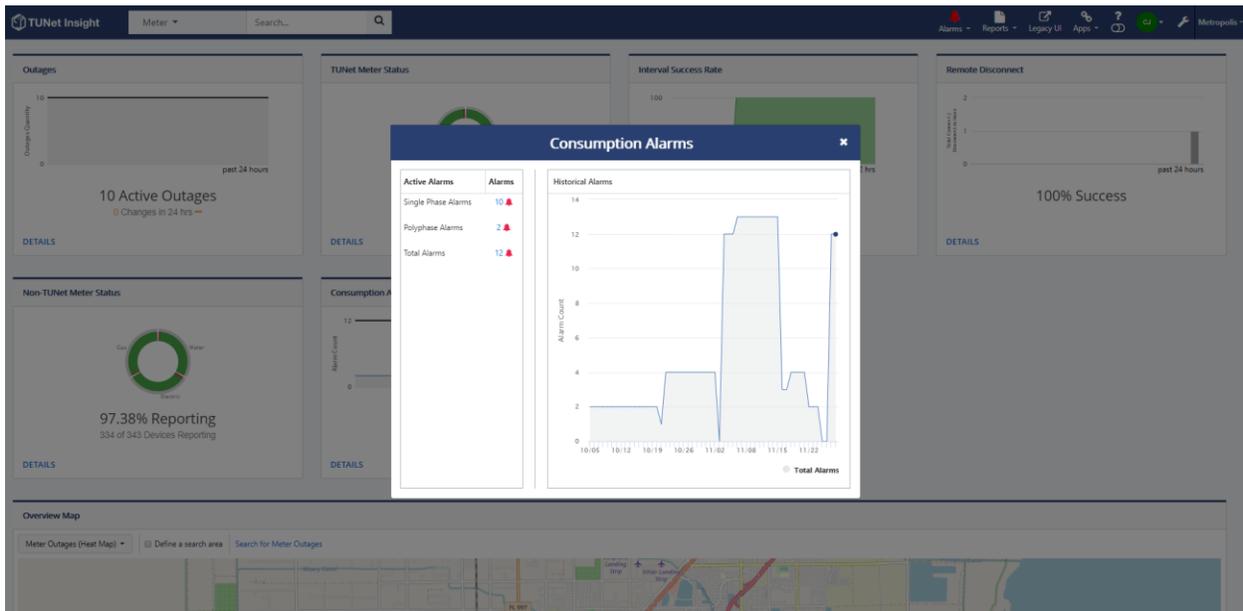
Landing Page for Customer Service Representative



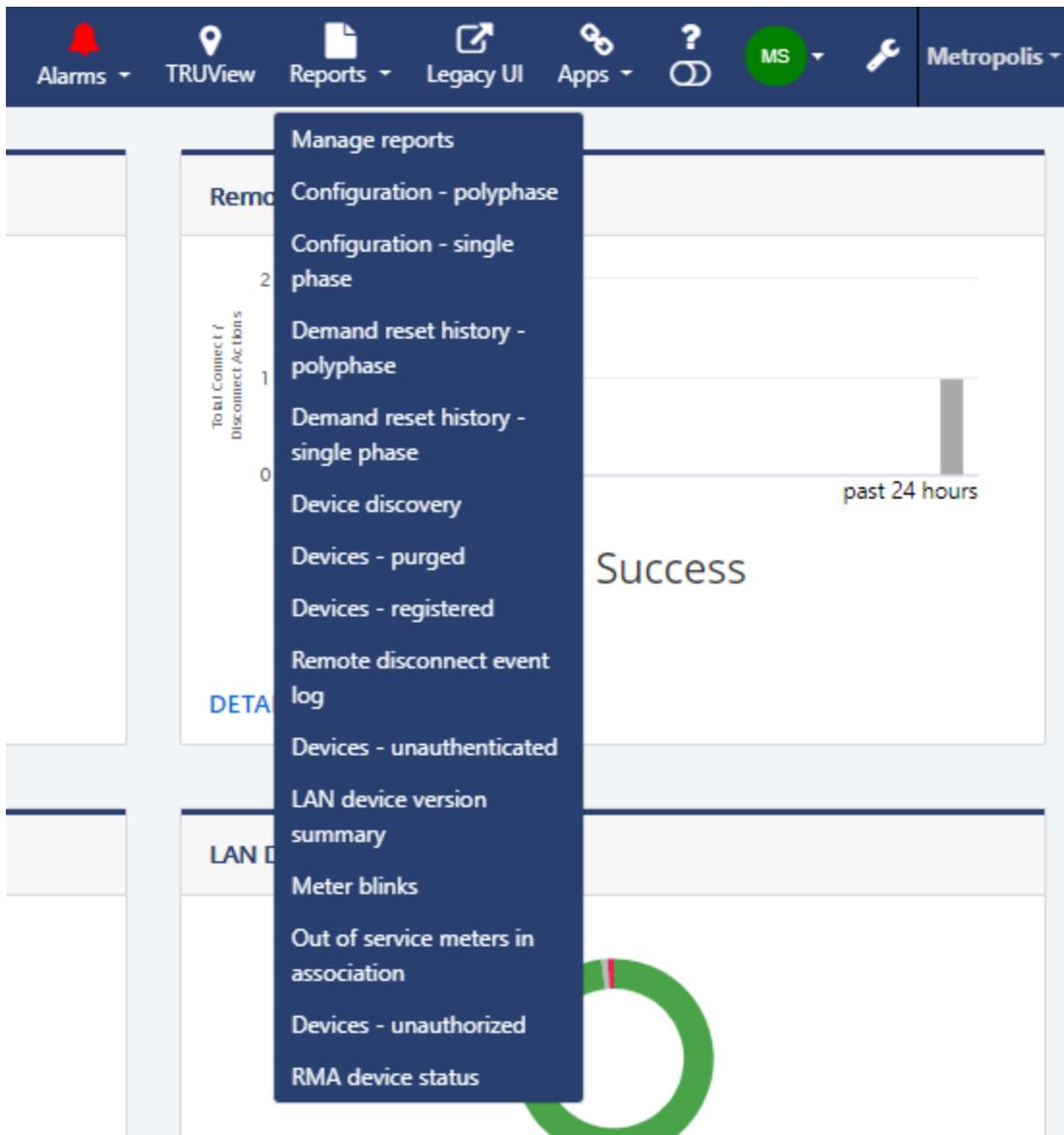
Pull Down Detail for Customer Service Representative



The above screen depicts the meters that are disconnected.



The above screen shows a detailed history of meters that violated consumption alarms for the past 60 days.



Sample of some pre-canned reports in Insight.

Utility Configuration Screen

The screenshot displays the Utility Configuration Screen with a blue header bar containing navigation icons for Utility Settings, Demand Reset, Notifications, SP AMI, PP AMI, and MultiSpeak. The main content area is divided into two panels: SP Scheduled Messages and SP Alarm Configuration.

SP Scheduled Messages

- AMI SETTINGS**
 - Interval Length: 1 hour
 - Requested Meter Measurements:
 - Delivered only - Delivered kWh
 - Anti-theft - Sum kWh (= delivered + received)*
 - Bi-directional metering - Delivered, received and net (= delivered - received)*
- PEAK DEMAND SETTINGS**
 - Enable

SP Alarm Configuration

- POWER QUALITY SETTINGS**
 - PQM Interval: 1 hour
 - Qualification Period: 2 mins, 30 secs
 - Voltage Threshold:
 - 120V Devices:
 - Sag Voltage: 113 V
 - Swell Voltage: 129 V
 - 240V Devices:
 - Sag Voltage: 226 V
 - Swell Voltage: 255 V
- OUTAGE SETTINGS**
 - Reporting:
 - Disable power outages
 - Qualification Period: 5 seconds

The Utility Configuration screen provides the utility to set system defaults such as:

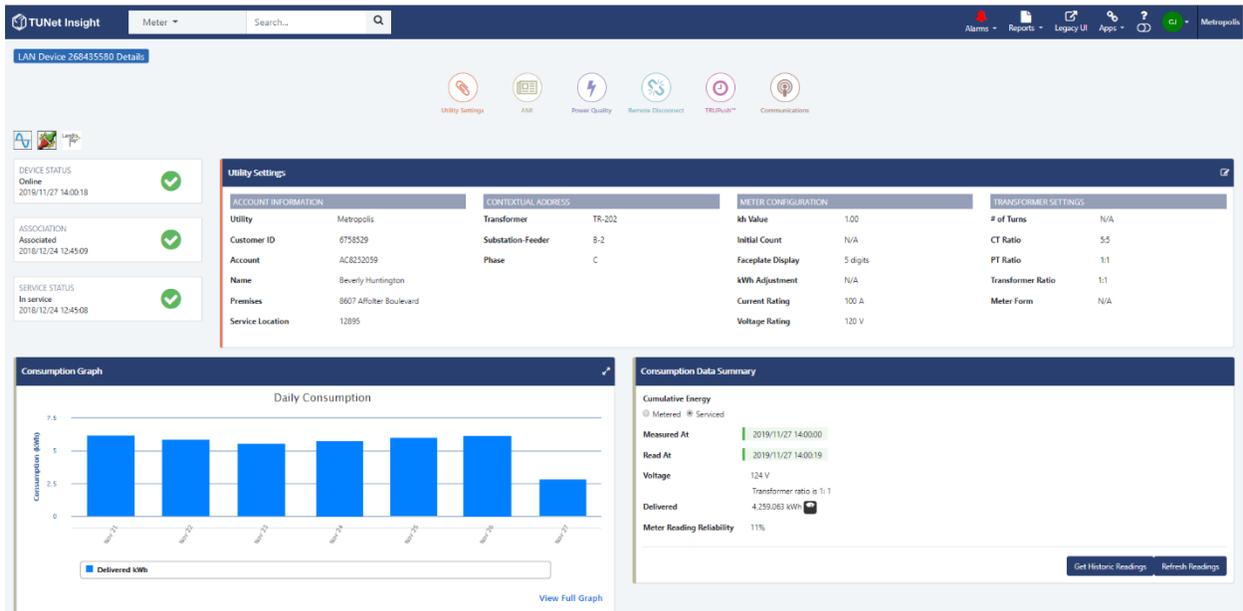
- Meter Read Interval
- Voltage Sag and Swell thresholds
- Define Contextual Address fields
- Outage and Restoration notification thresholds and alarms
- Demand Reset configuration

Meter Search Results

The meter search results page provides the ability to quickly search for information on specific meters based on certain criteria or groups based on contextual addressing (groupings). Access to detailed information is available from:

- Residential meter screen
- Commercial meter screen
- Net Meter screen
- PQM reports
- Interval consumption reports
- Meter group (multiple meters) data page
- Meter group (multiple meters) consumption report and PQM report

Residential Meter Data Screen



All device detail pages have the most important information at the top, and quick links to different sections allow users to see the information they are interested in quickly. The individual cards are shown or hidden depending on the User's privileges to give a constant UI experience for all users.

Remote Disconnect/ Reconnect

The screenshot displays the TUNet Insight interface for a LAN Device (268435479). The main section is the Remote Disconnect Manager, which shows the device status as 'Connected' and provides buttons for 'Limit Service' and 'Disconnect'. Below this is a Disconnection History table with columns for Time of Request, Reported State, Reported Status, Report Time, Command, and Operator. The table lists various events such as 'Connected', 'Disconnected', and 'Armed for Reconnect' with corresponding timestamps and operators. At the bottom, there are sections for Scheduled Messages and Alarm Configuration, including settings for AMI, Peak Demand, Power Quality, Outage, and Consumption Alarms.

Time of Request	Reported State	Reported Status	Report Time	Command	Operator
2019/11/21 12:56:57	Connected	Connect notification	2019/11/21 12:56:57	Connect	Gord Downie
2019/11/21 12:55:42	Disconnected	Disconnect notification	2019/11/21 12:55:42	Disconnect	Gord Downie
2019/11/15 13:50:50	Connected	Connect notification	2019/11/15 13:50:50	Connect	Gord Downie
2019/11/15 13:49:57	Disconnected	Disconnect notification	2019/11/15 13:49:57	Disconnect	Gord Downie
2019/11/13 12:35:03	Connected	Connect notification	2019/11/13 12:35:03	Connect	Gord Downie
2019/11/13 12:34:57	Disconnected	Disconnect notification	2019/11/13 12:34:57	Disconnect	Gord Downie
2019/11/12 22:44:09	Limited Service	Service Limiting (Cycle) notific...	2019/11/12 22:44:09	Status request	Gord Downie
2019/11/12 22:43:55	Limited Service	Service Limiting (Cycle) notific...	2019/11/12 22:43:55	Service Limiting (Cycle) request	Gord Downie
2019/11/17 18:51:40	Armed for Reconnect	Armed notification	2019/11/17 18:51:40	Arming request	Gord Downie

The Remote Disconnect is initiated from this screen and provides the ability to:

- Verify connectivity to the meter (ping)
- View switch status
- Disconnect and reconnect meters remotely
- Given appropriate credentials, this page enables the User to access an account for connect or disconnect functionality quickly. The screen provides a double-click process to allow the User to confirm the desired action and avoid accidental disconnect/reconnect. Upon execution of a disconnect or reconnect command, the system provides automatic verification of success. This tab also provides the ability to generate reports on individual or collective operations over time. The reconnect function queries the meter for load-side voltage before executing the command and notifies the User if voltage is present.

Residential Graphed Consumption Screen



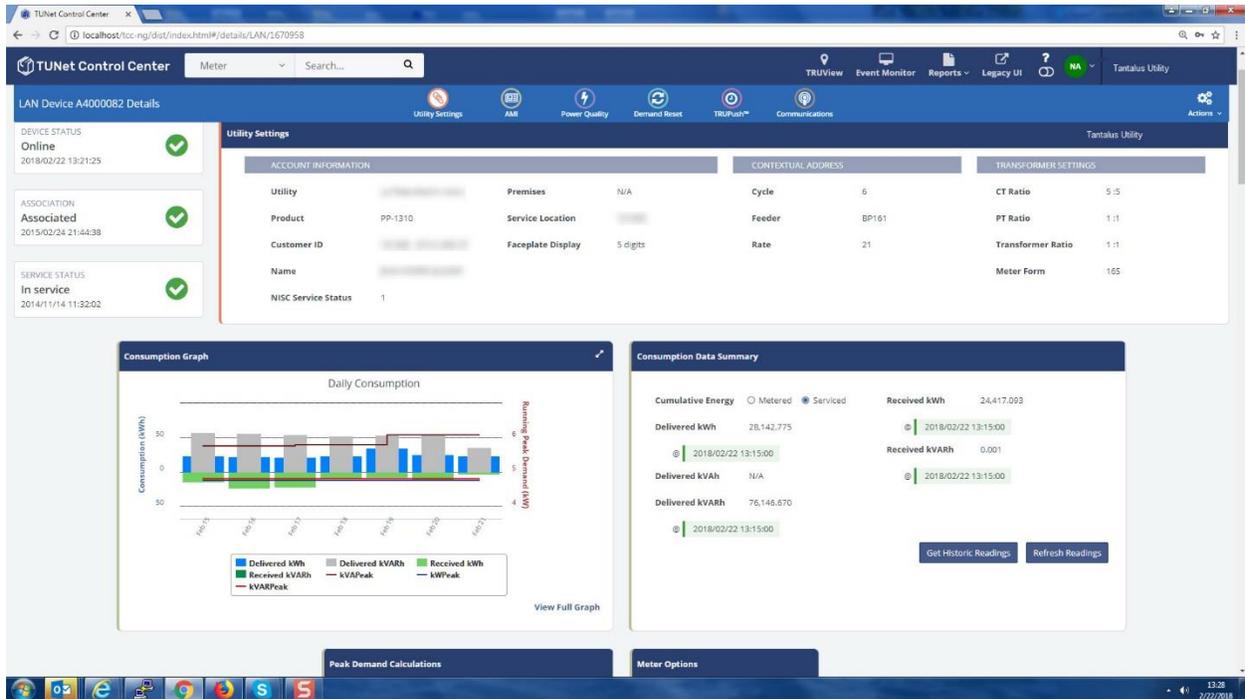
By hovering the cursor over any interval, more detailed data is provided. The detailed information associated with consumption at 7 PM is shown above. Additionally, the consumption graphs can display summary information of interval data. For example, 15-minute interval data can be displayed as a sum per hour, per day, per month. The combined interval consumption can be used to evaluate the consumption history associated with the account.

From the above pages, detailed reports and exports can be generated for:

- Power quality analysis
- Interval data reports
- Share image exports for customer distribution or interval review
- Account status and on-demand reading of measured values

TRUEdge meters support calculating TOU and Time Of Use in the meter. The TOU consumption can be displayed in a consumption graph in Insight or exported via a billing export.

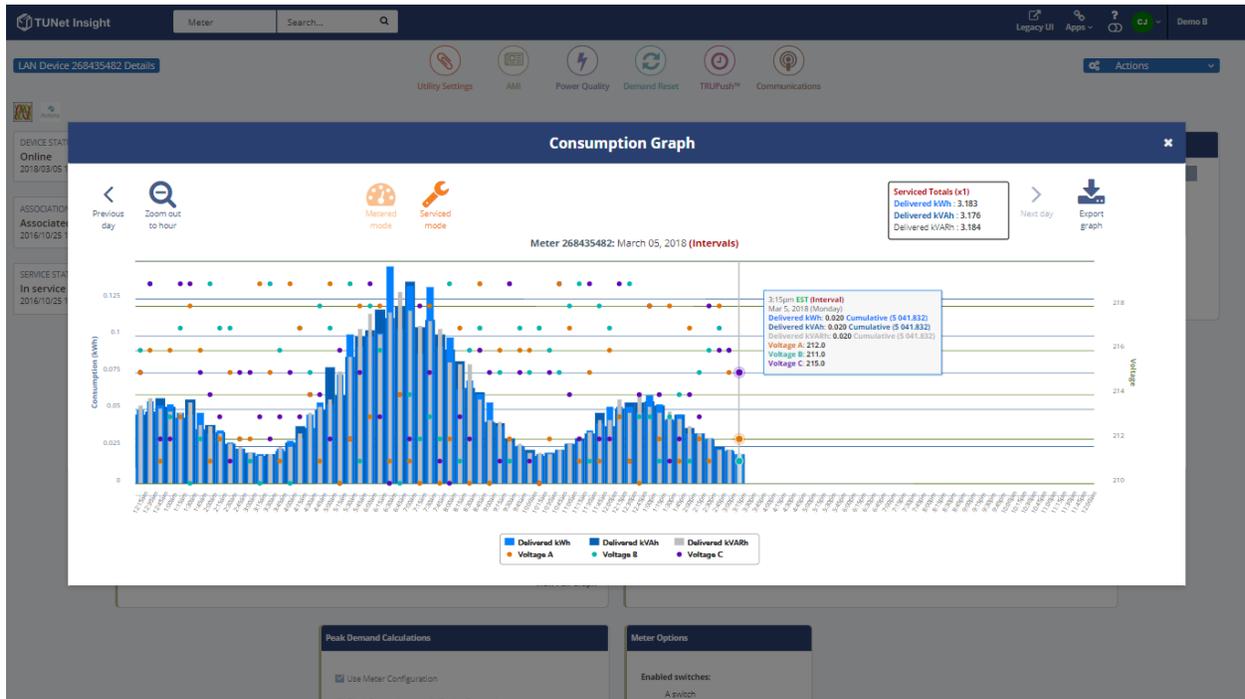
Commercial Meter Screen



The On-Request Reads are initiated and viewed from this screen.

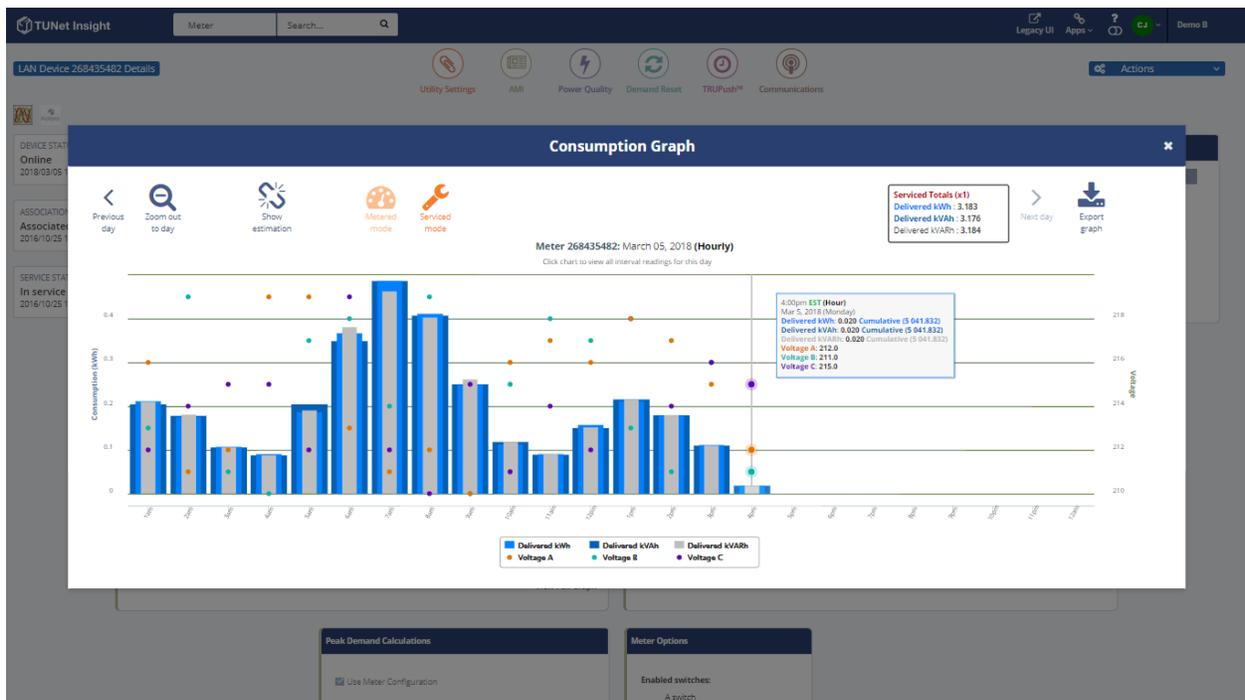
- For Users to perform On-request reads in support of move-in/move-out
- For Users to evaluate conditions in the field in real-time. Measurements include voltage, per-phase amps, KW, kVAh, kVARh, and PQM reports. (May require upgraded meters)

Commercial Meter Data Graph



The above graph displays 5-minute interval data.

The graph below displays the same account and period with 5-minute interval data per hour.



PQM Report Screen

The PQM Report can be exported in various formats to facilitate analysis.

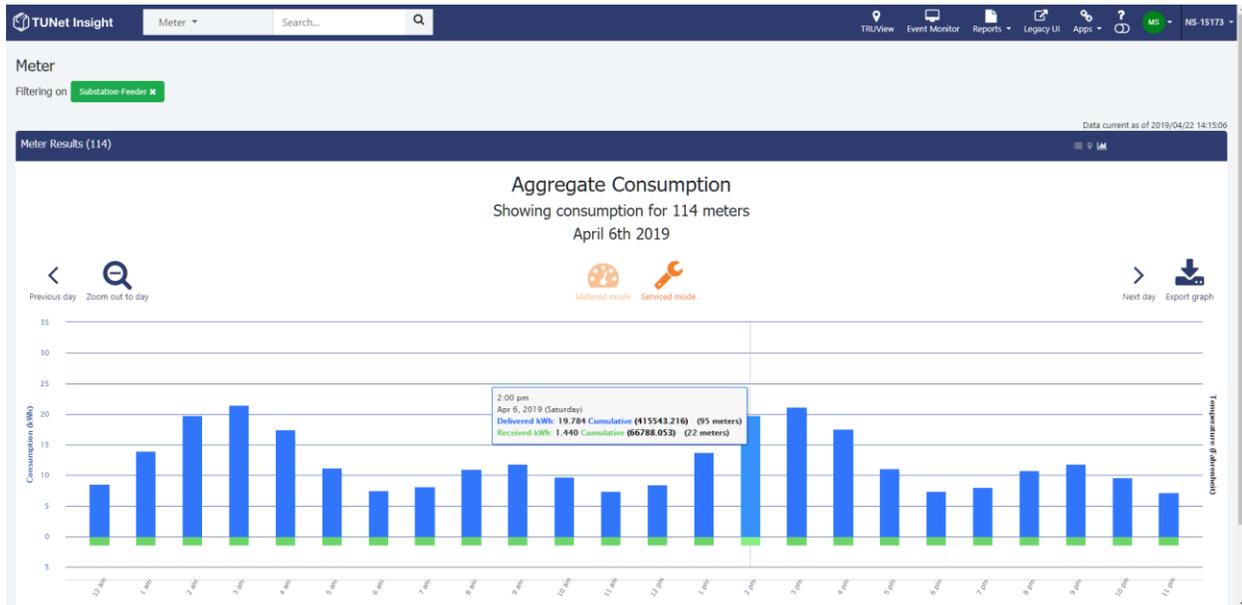
Showing Blink History (2019/04/22 - 2019/04/22) for single phase meters matching:
 'Substation-Feeder' INCLUDES (Any) and 'Transformer' INCLUDES (Any) and 'Phase' INCLUDES (Any)
 Showing blinks per PQM period per meter in date range

Meter ID	Customer ID	Substation-Feeder	Transformer	Phase	# Blinks in Date Range	Min Voltage	Max Voltage
268435463	4890633	B-1	TR221	A	13	232	248
268435464	9581719	A-2	TR250	C	11	116	124
268435465	9831738	C-2	TR274	A	12	232	248
268435466	9656457	B-1	TR177	A	11	232	248
268435467	9883545	B-1	TR175	C	7	116	124
268435468	9667275	A-2	TR390	B	0	116	124
268435469	6357682	C-1	TR179	C	14	116	124
268435470	4780076	B-1	TR201	B	13	232	248
268435471	6400123	A-1	TR153	B	7	116	124
268435472	5767232	C-2	TR128	A	12	232	248
268435473	5973930	C-1	TR266	B	13	232	248
268435474	9898432	C-2	TR209	B	12	232	248
268435475	7875322	A-2	TR184	C	13	232	248
268435477	2698315	C-1	TR191	C	13	232	248
268435478	3591760	B-1	TR396	C	12	232	248
268435479	6740659	C-2	TR107	C	7	116	124
268435480	2961606	B-1	TR143	C	13	116	124
268435482	4803766	C-2	TR175	C	11	116	124
268435483	8581755	B-2	TR380	C	12	116	124
268435484	9146442	B-2	TR259	C	14	232	248
268435486	4587014	A-2	TR268	B	12	232	248

Showing Blink History (2019/04/23 - 2019/04/22) for single phase meters matching:
 'Substation-Feeder' INCLUDES (Any) and 'Transformer' INCLUDES (Any) and 'Phase' INCLUDES (Any)
 Showing blinks per PQM period per meter in date range

Meter ID	Customer ID	Substation-Feeder	Transformer	Phase	Read Timestamp	Blink Counter	# Blinks in Period	Min Voltage	Max Voltage
268435463	4890633	B-1	TR221	A	2019/04/22 01:00:00	2674	5	232	248
268435463	4890633	B-1	TR221	A	2019/04/22 07:00:00	2680	6	232	248
268435463	4890633	B-1	TR221	A	2019/04/22 13:00:00	2687	7	232	248
268435464	9581719	A-2	TR250	C	2019/04/22 01:00:00	2674	6	116	124
268435464	9581719	A-2	TR250	C	2019/04/22 07:00:00	2680	6	116	124
268435464	9581719	A-2	TR250	C	2019/04/22 13:00:00	2685	5	116	124
268435465	9831738	C-2	TR274	A	2019/04/22 01:00:00	2675	7	232	248
268435465	9831738	C-2	TR274	A	2019/04/22 07:00:00	2680	5	232	248
268435465	9831738	C-2	TR274	A	2019/04/22 13:00:00	2687	7	232	248
268435466	9656457	B-1	TR177	A	2019/04/22 01:00:00	2675	7	232	248
268435466	9656457	B-1	TR177	A	2019/04/22 07:00:00	2680	5	232	248
268435466	9656457	B-1	TR177	A	2019/04/22 13:00:00	2686	6	232	248
268435467	9883545	B-1	TR175	C	2019/04/22 01:00:00	2674	8	116	124
268435467	9883545	B-1	TR175	C	2019/04/22 09:00:00	2681	7	116	124
268435468	9667275	A-2	TR390	B	2019/04/22 01:00:00	2675	24	116	124
268435469	6357682	C-1	TR179	C	2019/04/22 00:00:00	2673	1	116	124
268435469	6357682	C-1	TR179	C	2019/04/22 01:00:00	2675	2	116	124
268435469	6357682	C-1	TR179	C	2019/04/22 04:00:00	2677	2	116	124
268435469	6357682	C-1	TR179	C	2019/04/22 05:00:00	2679	2	116	124
268435469	6357682	C-1	TR179	C	2019/04/22 06:00:00	2680	1	116	124
268435469	6357682	C-1	TR179	C	2019/04/22 07:00:00	2681	1	116	124

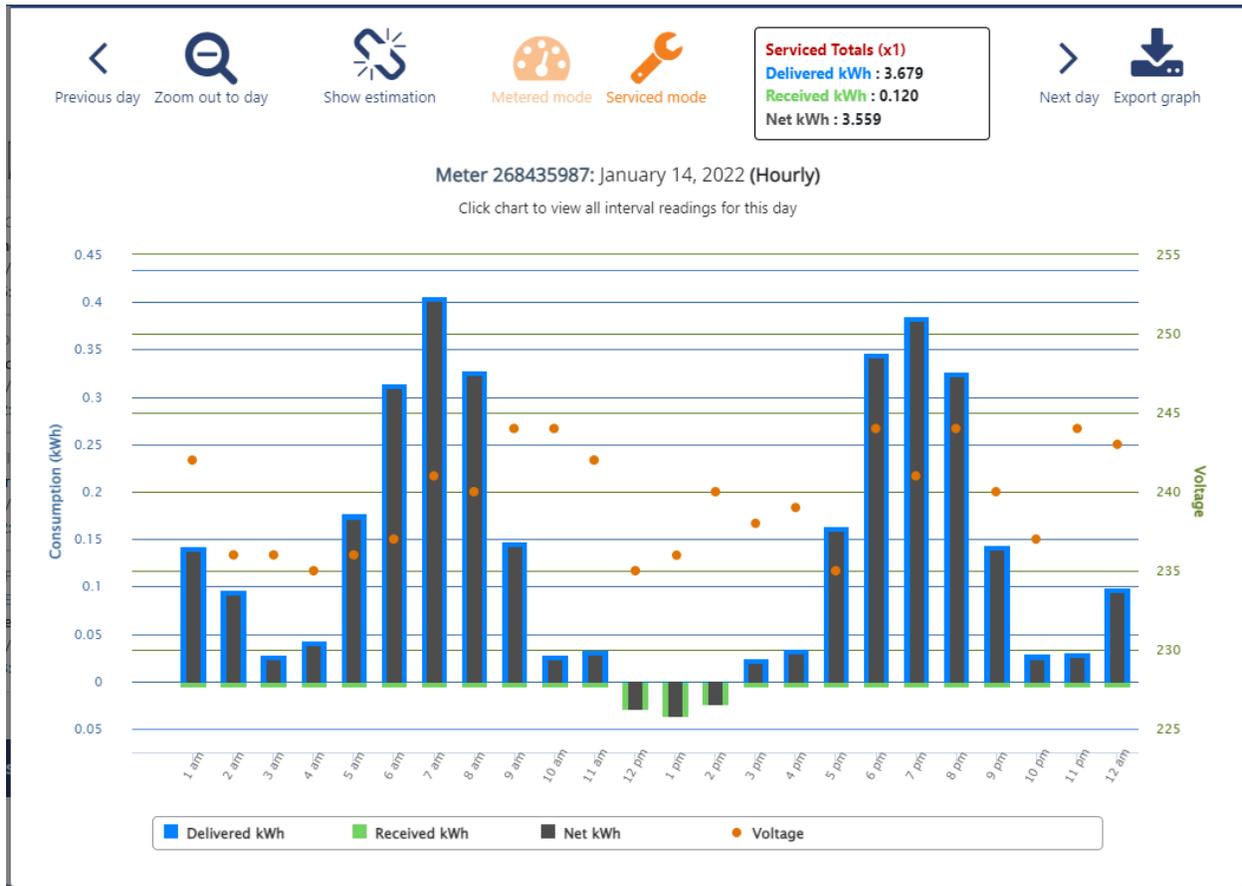
Consumption Readings Graph



The graph above shows the combined data for 114-meter accounts based on meter search results. This can be used to explore consumption anomalies by time and within a group of meters or to find the average load of groups of meters.

This allows the utility to look at loading meter metrics by accounts on distribution assets such as Substations, feeders, control zones, transformers, governmental accounts (school boards), etc.

Net Metering



With the growing number of commercial and residential customers electing to generate energy via co-generation capabilities and renewables (wind and solar), the market requires that utilities support net-metering to facilitate managing and forecasting available supply from distributed generation assets as well as support net-metering tariffs.

The figure above exemplifies how Insight captures delivered, received, and net-metering data and makes it available to third-party systems.

Billing Export

The screenshot shows the 'Billing Export' configuration page in the TUNet Insight application. The interface includes a top navigation bar with the TUNet Insight logo, a search bar, and several utility icons. The main content area is titled 'AMI' and contains two panels.

The left panel, 'Billing Export', has the following settings:

- Report Type: AMR Interval
- Report Format: CMEP
- Channels: KWH x
- Export Type: Multiple (selected)
- Devices: SP, PP
- Date: 2022/01/12 - 2022/01/18
- Timezone: Default (selected)
- File Name: @N
- Extension: CSV

The right panel, 'Billing Export Files', displays a table of exported files:

Exported Files	Exception Report	Export Date	File Size	Progress
UTCCSV10_PP.2021...	UTCCSV10_PP.202...	2022/01/18 17:24:28	22.8 KB	Done
LocalCSV10_PP.202...	LocalCSV10_PP.20...	2022/01/18 17:24:19	22.8 KB	Done
LocalCSV10_PP.202...	LocalCSV10_PP.20...	2022/01/18 17:23:47	22.8 KB	Done
DefaultCSV10_PP.2...	DefaultCSV10_PP.2...	2022/01/18 17:23:35	22.8 KB	Done
CSV10_PP.2021-11...	CSV10_PP.2021-11...	2022/01/18 17:20:44	22.8 KB	Done
20220118104419.csv	20220118104419.h...	2022/01/18 10:44:19	2.7 KB	Done
20220118104151.csv	20220118104151.h...	2022/01/18 10:41:51	2.7 KB	Done
SENDER.AGENT.73...	SENDER.AGENT.73...	2022/01/17 16:44:05	0.1 KB	Done
20220117164059.csv	20220117164059.h...	2022/01/17 16:40:59	2.7 KB	Done
20220117164015.csv	20220117164015.h...	2022/01/17 16:40:15	2.7 KB	Done
20220117163816.csv	20220117163816.h...	2022/01/17 16:38:16	2.7 KB	Done

Most billing exports are set to automatically export daily, and the files are sent to the CIS or MDM system. Insight supports ad-hoc billing exports to verify billing or analyze a .csv file.

Alarms

Select	Status	Meter ID	Alarm Type	Start Time	End Time	Acked	Acked By	Comment	Phase	Name	Premises	Transformer	Substation-Feeder	Measurement	Actions
<input type="checkbox"/>	▲	268435485	Under Consumption	2019/11/28 21:00:00					Undetermined	Jeremiah Thomas	5338 Tran Alley	TR-141	B-1	4,293	00-
<input type="checkbox"/>	▲	268435467	Under Consumption	2019/11/28 21:00:00					-	Alice Kellogg	71 Guinan Dr	TR-202	C-2	4,293	00-
<input type="checkbox"/>	▲	268435475	Under Consumption	2019/11/28 21:00:00					-	Sarah Connor	1470 Clements Bay	TR-161	C-1	4,293	00-
<input type="checkbox"/>	▲	268435480	Under Consumption	2019/11/28 21:00:00					-	Debbie Long	4638 Shouse Bay	TR-160	B-2	4,293	00-
<input type="checkbox"/>	▲	268435471	Under Consumption	2019/11/28 21:00:00					-	Joe Douglas	4712 Richardson Crescent	TR-126	C-1	4,293	00-
<input type="checkbox"/>	▲	268435479	Received Consumption	2019/11/28 21:00:00					-	Mike Crumbaker	11111 Harley Davidson Drive	TR-202	C-2	120	00-
<input type="checkbox"/>	▲	268435461	Over Consumption	2019/11/28 21:00:00					-	Kevin Ryant	8957 Hines Street	TR-144	C-1	4,293	00-
<input type="checkbox"/>	▲	268435468	Over Consumption	2019/11/28 21:00:00					-	Angie Griffin-White	737 Sutton Dr	TR-177	B-2	4,293	00-
<input type="checkbox"/>	▲	268435497	Received Consumption	2019/11/28 21:00:00					Undetermined	Kelli Hemmenway	658 Stinck Dr	TR-186	B-2	2,400	00-
<input type="checkbox"/>	▲	268437906	Received Consumption	2019/11/28 21:00:00					-	Virginia Blink	1853 Reyna Dr	TR-269	B-1	120	00-
<input type="checkbox"/>	▲	268436103	Received Consumption	2019/11/28 21:00:00					-	Jennifer Harwood	5794 Denise Boulevard	TR-105	A-1	120	00-
<input checked="" type="checkbox"/>	▲	268435476	Over Consumption	2019/11/28 21:00:00		2019/11/29 12:14:33	msemkow	Tree	-	Howard Jordan	2892 Yu Street	TR-102	B-2	4,293	00-
<input type="checkbox"/>	▲	26843307	Power Outage	2019/11/27 10:52:37					-	Marc Blackburn	3225 Bucco Ave	TR-146	B-2	4,259,016	00-
<input type="checkbox"/>	▲	268438953	Power Outage	2019/11/27 10:52:37					-	Brenda Rowland	680 Campus Alley	TR-146	C-1	4,258,961	00-
<input type="checkbox"/>	▲	268438926	Power Outage	2019/11/27 10:52:37					-	Michael Glover	3239 Marin Alley	TR-146	C-2	4,258,958	00-
<input type="checkbox"/>	▲	268438374	Power Outage	2019/11/27 10:52:37					-	Elizabeth Hossain	5421 Rhodes Boulevard	TR-146	C-2	4,259,006	00-
<input type="checkbox"/>	▲	268438376	Power Outage	2019/11/27 10:52:37					-	Frank Niero	5691 Dillard Bay	TR-146	C-1	4,259,009	00-
<input type="checkbox"/>	▲	268438329	Power Outage	2019/11/27 10:52:37					-	Rhonda Patricia	4635 Robins Alley	TR-146	A-2	4,258,993	00-
<input type="checkbox"/>	▲	268436440	Power Outage	2019/11/27 10:52:37					-	Albert Hoff	3538 Erdman Alley	TR-146	A-2	4,258,990	00-
<input type="checkbox"/>	▲	268436620	Power Outage	2019/11/27 10:52:37					-	Ned Campbell	1764 Huff Bay	TR-146	A-1	4,258,987	00-
<input type="checkbox"/>	▲	268436479	Power Outage	2019/11/27 10:52:37					-	Violet Schmidt	7295 Salvato St	TR-146	B-1	4,258,997	00-
<input type="checkbox"/>	▲	268439997	Power Outage	2019/11/27 10:52:37					-	Sharon Scott	7565 Bishop Ave	TR-146	C-1	4,258,963	00-
<input type="checkbox"/>	✓	268435485	Under Consumption	2019/11/19 21:00:00	2019/11/22 21:00:00				Undetermined	Jeremiah Thomas	5338 Tran Alley	TR-141	B-1	6,847	00-
<input type="checkbox"/>	✓	268435461	Voltage Sag	2019/11/15 10:34:31	2019/11/15 10:34:42				-	Kevin Ryant	8957 Hines Street	TR-144	C-1	220	00-
<input type="checkbox"/>	✓	268435467	Voltage Sag	2019/11/15 10:34:31	2019/11/15 10:34:42				-	Alice Kellogg	71 Guinan Dr	TR-202	C-2	203	00-

An alarm summary display will show the alarms and their state. The alarm summary displays when the alarm started and ended and who acknowledged it. In addition, a comment can be included to add more information about the alarm.

All 14 months of history can be searched and downloaded for historical analysis.

Eldridge Municipal Utilities

Van Wert Tantalus Proposal - Overlay Deployment - Reuse Most Electric All Water

	Full Deployment		
	Quantity	Unit Price	Ext. Price
TRUConnect Equipment and Services			
TRUConnect WAN/LAN Equipment			
RT-4250 TRUSense Cellular Gateway	16	\$ 668.00	\$ 10,688.00
VC-931 Versa Collector - Pole Mounted (Water Only Area)	1	\$ 2,307.72	\$ 2,307.72
VC-820 Cellular Modem - Inside VC (Water Only Area)	1	\$ 1,413.08	\$ 1,413.08
TR-1901 Repeater - Pole Mounted (Water Only Area)	15	\$ 349.04	\$ 5,235.60
DT-116 Centron Reset Key	1	\$ 39.68	\$ 39.68
DT-410-BUN Programming Kit	1	\$ 4,000.00	\$ 4,000.00
TRUConnect Infrastructure Sub Total			\$ 23,684.08
TRUEdge Endpoint			
TC-1216 Tantalus Single Phase Module - Itron	950	\$ 84.54	\$ 80,313.00
TC-1220RD Tantalus Single Phase Remote Disconnect Module - Itron	120	\$ 90.58	\$ 10,869.60
PP-1320 Tantalus Poly Phase Module - Itron CP3	0	\$ 241.55	\$ -
Endpoint and Meter Sub Total			\$ 91,182.60
TRUConnect Server & Software			
SV-4001 TRUConnect AMI Hosting - Year 1 Only	1	\$ 4,800.00	\$ 4,800.00
TCC-2001 TRUConnect Insight Head End Software	1	\$ 42,550.00	\$ 42,550.00
SV-8002 TRUConnect Cellular Data Plan (200MB) - Year 1 Only	17	\$ 108.00	\$ 1,836.00
TXG-SW01 TRUSense Head End Software License - per Endpoint	16	\$ 60.00	\$ 960.00
NSE-201 TRUConnect Software License - per Endpoint	1,070	\$ 3.90	\$ 4,173.00
PPA-100 Polyphase Software - per Endpoint (100 endpoint license)	-	\$ 1,300.00	\$ -
NSE-400 TRUScan - Itron Electric ERT Reading - One Time	1,882	\$ 2.00	\$ 3,764.00
NSE-420 TRUScan - Itron Water ERT Reading - One Time	2,982	\$ 2.00	\$ 5,964.00
NSE-430 TRUScan - Neptune Water/Gas R900 Reading - One Time	-	\$ 2.00	\$ -
NSE-410 TRUScan - Itron Gas ERT Reading - One Time	-	\$ 2.00	\$ -
TAL-601-1 TRUConnect Application License - Consumption Alarms	1	\$ 3,750.00	\$ 3,750.00
TAL-600-1 TRUConnect Application License - Database Extraction Tool	-	\$ -	\$ -
TAL-530-X TRUConnect Application License - Residential Peak Demand	-	\$ -	\$ -
TAL-520-X TRUConnect Application License - Service Limiting	-	\$ -	\$ -
NSI-306 TRUConnect TRUView GIS Admin License - ESRI Integration	-	\$ -	\$ -
NSI-307 TRUConnect Application License - LDAP Active Directory	-	\$ -	\$ -
Server and Software Total			\$ 67,797.00
TRUConnect System Services			
SV-1000 Deployment Services	1	\$ 79,530.00	\$ 79,530.00
-Project engineering, training, project mgt, system design, deployment prep			
-Database configuration, set up, and commissioning.			
-Billing integration.			
-Travel and Travel Expenses included.			
TRUConnect System Services Sub Total			\$ 79,530.00
TRUConnect Equipment and Services - Grand Total			\$ 262,193.68

	Quantity	Unit Price	Ext. Price
Itron Electric Meters			
Itron C2SXD 1S CL200 240V w/ Disconnect w/ Tantalus Installed	0	\$0.00	\$0.00
Itron C2SXD 2S CL200 240V w/ Disconnect w/ Tantalus Installed	120	\$110.00	\$13,200.00
Itron C2SXD 12S CL200 240V w/ Disconnect w/ Tantalus Installed	0	\$0.00	\$0.00
Itron C1SX 2S CL200 240V w/ Tantalus Installed	950	\$50.00	\$47,500.00
Itron C1SX 2S CL320 240V w/ Tantalus Installed	0	\$0.00	\$0.00
Itron C1SX 3S w/ Tantalus Installed	0	\$0.00	\$0.00
Itron C1SX 4S w/ Tantalus Installed	0	\$0.00	\$0.00
Itron Centron Poly 3 - 5S w/ Tantalus Installed	0	\$0.00	\$0.00
Itron Centron Poly 3 - 6S w/ Tantalus Installed	0	\$0.00	\$0.00
Itron Centron Poly 3 - 16S w/ Tantalus Installed	0	\$0.00	\$0.00
Itron Centron Poly 3 - 8/9S w/ Tantalus Installed	0	\$0.00	\$0.00
Itron Electric Meter - Grand Total			\$60,700.00

Turnkey Project - Electric Meter Installation			
Turnkey Deployment Expenses - Software Set Up and Mobilization	0	\$	- \$ -
Install - Electric Meters - Single Phase - 240V and Below	0	\$	- \$ -
Install - Electric Meters - Poly Phase - Self Contained, Transformer Rated, & Single-Phase Transformer Rated	0	\$	- \$ -
Turnkey Deployment Services - Electric Meters	0	\$	- \$ -
OPTIONAL - Transformer Rated Meter Site Analysis with CT & Wiring Check (added to installation price)	0	\$	- \$ -
Electric Meter Install - Grand Total			\$ -

TRUConnect Project Grand Total	\$ 322,893.68
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TRUConnect System Annual Fees - Starting Year 2 of Deployment			
SV-4001 TRUConnect Annual AMI Hosting	1	\$	4,800.00 \$ 4,800.00
SV-8002 TRUConnect Cellular Data Plan (200MB)	17	\$	108.00 \$ 1,836.00
TRUConnect Annual Maintenance	1	\$	13,023.60 \$ 13,023.60
SL-2001 TRUConnect Technical Support - Standard	1	\$	6,950.00 \$ 6,950.00
Additional products / features added to the system may increase support costs. Premium Level Support is available for an additional fee.			
GRAND TOTAL - TRUConnect System Annual Fees - Year 2 and Beyond			\$ 26,609.60

OPTIONS:

OPTION - Utility Hawk Customer Portal	
Customer Portal Set Up Fee - One Time	0 \$ - \$ -
SV-1000 Tantalus Services - One Time	0 \$ - \$ -
Customer Portal Annual Fee - Add to Annual Fees Above	0 \$ - \$ -
MDM Set Up Fee - One Time	0 \$ - \$ -
SV-1000 Tantalus Services - One Time	0 \$ - \$ -
MDM Annual Fee - Add to Annual Fees Above	0 \$ - \$ -
OPTION - Grand Total - Utility Hawk Customer Portal	\$ -

OPTION - TRUFlex DER + Load Management	
LC-2325B-C1 Tantalus Load Control Switch - 1HP, 2LP Relay	0 \$ - \$ -
LML-100 Load Champ License for Disconnect Meter as Load Mgt Device	0 \$ - \$ -
LMS-SSS Load Management System Set Up Fee - 1 Time	0 \$ - \$ -
LMS-SSB-L TRUFlex Load Management Annual Hosting, Support & Maint - 1st 1000 Devices deployed.	0 \$ - \$ -
OPTION GRAND TOTAL - DER + Load Management	\$ -

OPTION - TRUGrid Analytics	
GRA-SSS TGRA SAAS Standard Set Up	0 \$ 5,000.00 \$ -
GRA-SSB TGRA SAAS Standard Annual Subscription - Add to Annual Fees Above Includes 1st 10,000 electric meters, 2 users, 14 months of history	0 \$ 9,000.00 \$ -
GRA-SSD TGRA SAAS Standard Annual Subscription / additional elec meter Add to Annual Fees Above	0 \$ 0.75 \$ -
OPTION GRAND TOTAL - TRUGrid Analytics	\$ -

OPTION - TRUGrid Transformer	
Transformer Analytics - Set Up Fee	0 \$ 5,000.00 \$ -
GTA-SSB-X Transformer Analytics - Annual Fee Includes Support, Maintenance, and Hosting Add to Annual Fees Above if Selected	0 \$ - \$ -
OPTION GRAND TOTAL - TRUGrid Transformer	\$ -

Pricing Notes & Assumptions:

- The pricing provided is limited to the equipment, software and services as proposed in this offer. Changes to quantities, deal structure or third-party partners that are part of this proposal may change the prices contained in this offer.
- Prices quoted for Tantalus' Network Equipment and Services may contain allowances, discounts and/or promotional pricing which are available for a period of 90 days from the date of bid opening. Price does not include shipping. All products are shipped FOB Shipping Point.
- Final performance criteria and any associated guarantees will be included in the final contract and are contingent upon installation of equipment and deployment per the final AMI network design and in accordance with Tantalus' specifications. Regardless of the party performing the installation, it is the responsibility of the Utility to provide utility specific information that may have an impact on the final design and/or performance criteria
- The standard warranty terms and conditions set forth in Tantalus' Network Systems Agreement (NSA) apply unless otherwise expressly agreed to by Tantalus in the final contract.
- Acceptance terms shall be discussed, mutually agreed to and set forth in the final contract, including without limitation those terms associated with acceptance of delivery, transfer of title, invoicing, etc.
- Final commitments shall be exclusive of failures resulting from the acts, omissions or performance of systems, services or networks provided by third parties or not otherwise within the control of Tantalus; and contingent upon the Customer's taking commercially reasonable actions in connection with maintaining the system, including, without limitation, entering into and complying with the terms of End User License Agreement and Technical
- Meters are Third-Party Products. Unless otherwise specifically set forth in writing (and subject to applicable pass-through terms and conditions), Tantalus does not provide a guaranty or warranty of any type or manner with respect to Third-party Products (as defined in the NSA) and disclaims all responsibility and liability for these items. Associated price validity terms set forth herein have been provided by the third-party manufacturer, in
- Pricing includes all of work, if any component is split, Tantalus reserves the right to reprice. Additional or incremental functionalities are subject to additional fees.
- Tantalus service time will be billed at actual. If additional days are necessary, Customer will be billed at Tantalus' then-current daily rate.
- A minimum lead time of [TBD] days is required on all Purchase Orders.
- Notwithstanding anything to the contrary in the Customer's RFP or Tantalus' response thereto, Tantalus' Response, including the pricing provided, is based upon its Network Systems Agreement (as attached) and the absence of a specific response or annotation by Tantalus to any of the specifications, the Customer's requirements or terms and conditions in the RFP does not otherwise limit Tantalus' ability and right to negotiate such
- Integration to existing vendor supported interfaces are included in the Deployment Services – Custom services, including custom integration(s) with third party applications that are not existing vendor supported interfaces, are subject to additional fees and agreement between Tantalus, Customer and any applicable third party.
- Annual System Support is available in both Premium and Standard levels. Premium level support is subject to an additional cost of \$15,000.00 at the time of such election.
- Optional Equipment/Services may be subject to additional terms and conditions, including without limitation those related to use of the software.
- If Tantalus is a Prime Contractor, a markup has been applied to meters and installation services. The customer would realize cost savings by contracting directly with third party providers for installation and meter purchases.
- Tantalus does not guarantee pricing of Third-Party Products, which are quoted pursuant to and subject to the respective third-party manufacturer's terms and conditions (including warranty). Notwithstanding anything to the contrary and unless otherwise expressly and mutually agreed to in writing (including applicable pass-through terms and conditions) between the Customer, Tantalus and the third-party manufacturer, the third-party terms
- If applicable, water meters encoder registers, connectors, RF endpoint and thru the lid antenna pricing is estimated and not included in the total cost.
- Water meter pricing does not include expansion wheels. Pricing TBD if required.
- If elected, TRUGrid™ Reliability and TRUGrid™ Transformer and are subject to terms and conditions of Tantalus' Master Software Subscription Agreement.

Eldridge Municipal Utilities
Van Wert Tantalus Proposal - Full Deployment Electric - Reuse Water

	Full Deployment		
	Quantity	Unit Price	Ext. Price
TRUConnect Equipment and Services			
TRUConnect WAN/LAN Equipment			
RT-4250 TRUSense Cellular Gateway	26	\$ 668.00	\$ 17,368.00
VC-931 Versa Collector - Pole Mounted (Water Only Area)	1	\$ 2,307.72	\$ 2,307.72
VC-820 Cellular Modem - Inside VC (Water Only Area)	1	\$ 1,413.08	\$ 1,413.08
TR-1901 Repeater - Pole Mounted (Water Only Area)	15	\$ 349.04	\$ 5,235.60
DT-116 Centron Reset Key	1	\$ 39.68	\$ 39.68
DT-410-BUN Programming Kit	1	\$ 4,000.00	\$ 4,000.00
TRUConnect Infrastructure Sub Total			\$ 30,364.08
TRUEdge Endpoint			
TC-1216 Tantalus Single Phase Module - Itron	2542	\$ 84.54	\$ 214,900.68
TC-1220RD Tantalus Single Phase Remote Disconnect Module - Itron	120	\$ 90.58	\$ 10,869.60
PP-1320 Tantalus Poly Phase Module - Itron CP3	290	\$ 241.55	\$ 70,049.50
Endpoint and Meter Sub Total			\$ 295,819.78
TRUConnect Server & Software			
SV-4001 TRUConnect AMI Hosting - Year 1 Only	1	\$ 4,800.00	\$ 4,800.00
TCC-2001 TRUConnect Insight Head End Software	1	\$ 42,550.00	\$ 42,550.00
SV-8002 TRUConnect Cellular Data Plan (200MB) - Year 1 Only	27	\$ 108.00	\$ 2,916.00
TXG-SW01 TRUSense Head End Software License - per Endpoint	26	\$ 60.00	\$ 1,560.00
NSE-201 TRUConnect Software License - per Endpoint	2,952	\$ 3.90	\$ 11,512.80
PPA-100 Polyphase Software - per Endpoint (100 endpoint license)	3	\$ 1,300.00	\$ 3,900.00
NSE-400 TRUScan - Itron Electric ERT Reading - One Time	-	\$ 2.00	\$ -
NSE-420 TRUScan - Itron Water ERT Reading - One Time	2,982	\$ 2.00	\$ 5,964.00
NSE-430 TRUScan - Neptune Water/Gas R900 Reading - One Time	-	\$ 2.00	\$ -
NSE-410 TRUScan - Itron Gas ERT Reading - One Time	-	\$ 2.00	\$ -
TAL-601-1 TRUConnect Application License - Consumption Alarms	1	\$ 3,750.00	\$ 3,750.00
TAL-600-1 TRUConnect Application License - Database Extraction Tool	-	\$ -	\$ -
TAL-530-X TRUConnect Application License - Residential Peak Demand	-	\$ -	\$ -
TAL-520-X TRUConnect Application License - Service Limiting	-	\$ -	\$ -
NSI-306 TRUConnect TRUView GIS Admin License - ESRI Integration	-	\$ -	\$ -
NSI-307 TRUConnect Application License - LDAP Active Directory	-	\$ -	\$ -
Server and Software Total			\$ 76,952.80
TRUConnect System Services			
SV-1000 Deployment Services	1	\$ 79,530.00	\$ 79,530.00
-Project engineering, training, project mgt, system design, deployment prep			
-Datbase configuration, set up, and commissioning.			
-Billing integration.			
-Travel and Travel Expenses included.			
TRUConnect System Services Sub Total			\$ 79,530.00
TRUConnect Equipment and Services - Grand Total			\$ 482,666.66

	Quantity	Unit Price	Ext. Price
Itron Electric Meters			
Itron C2SXD 1S CL200 240V w/ Disconnect w/ Tantalus Installed	0	\$0.00	\$0.00
Itron C2SXD 2S CL200 240V w/ Disconnect w/ Tantalus Installed	120	\$110.00	\$13,200.00
Itron C2SXD 12S CL200 240V w/ Disconnect w/ Tantalus Installed	0	\$0.00	\$0.00
Itron C1SX 2S CL200 240V w/ Tantalus Installed	2542	\$50.00	\$127,100.00
Itron C1SX 2S CL320 240V w/ Tantalus Installed	0	\$0.00	\$0.00
Itron C1SX 3S w/ Tantalus Installed	0	\$0.00	\$0.00
Itron C1SX 4S w/ Tantalus Installed	0	\$0.00	\$0.00
Itron Centron Poly 3 - 5S w/ Tantalus Installed	0	\$0.00	\$0.00
Itron Centron Poly 3 - 6S w/ Tantalus Installed	0	\$0.00	\$0.00
Itron Centron Poly 3 - 16S w/ Tantalus Installed	0	\$0.00	\$0.00
Itron Centron Poly 3 - 8/9S w/ Tantalus Installed	290	\$300.00	\$87,000.00
Itron Electric Meter - Grand Total			\$227,300.00

Turnkey Project - Electric Meter Installation			
Turnkey Deployment Expenses - Software Set Up and Mobilization	0	\$	- \$ -
Install - Electric Meters - Single Phase - 240V and Below	0	\$	- \$ -
Install - Electric Meters - Poly Phase - Self Contained, Transformer Rated, & Single-Phase Transformer Rated	0	\$	- \$ -
Turnkey Deployment Services - Electric Meters	0	\$	- \$ -
OPTIONAL - Transformer Rated Meter Site Analysis with CT & Wiring Check (added to installation price)	0	\$	- \$ -
Electric Meter Install - Grand Total			\$ -

TRUConnect Project Grand Total	\$ 709,966.66
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TRUConnect System Annual Fees - Starting Year 2 of Deployment			
SV-4001 TRUConnect Annual AMI Hosting	1	\$	4,800.00 \$ 4,800.00
SV-8002 TRUConnect Cellular Data Plan (200MB)	27	\$	108.00 \$ 2,916.00
TRUConnect Annual Maintenance	1	\$	11,673.50 \$ 11,673.50
SL-2001 TRUConnect Technical Support - Standard	1	\$	6,950.00 \$ 6,950.00
Additional products / features added to the system may increase support costs. Premium Level Support is available for an additional fee.			
GRAND TOTAL - TRUConnect System Annual Fees - Year 2 and Beyond			\$ 26,339.50

OPTIONS:

OPTION - Utility Hawk Customer Portal	
Customer Portal Set Up Fee - One Time	0 \$ - \$ -
SV-1000 Tantalus Services - One Time	0 \$ - \$ -
Customer Portal Annual Fee - Add to Annual Fees Above	0 \$ - \$ -
MDM Set Up Fee - One Time	0 \$ - \$ -
SV-1000 Tantalus Services - One Time	0 \$ - \$ -
MDM Annual Fee - Add to Annual Fees Above	0 \$ - \$ -
OPTION - Grand Total - Utility Hawk Customer Portal	\$ -

OPTION - TRUFlex DER + Load Management	
LC-2325B-C1 Tantalus Load Control Switch - 1HP, 2LP Relay	0 \$ - \$ -
LML-100 Load Champ License for Disconnect Meter as Load Mgt Device	0 \$ - \$ -
LMS-SSS Load Management System Set Up Fee - 1 Time	0 \$ - \$ -
LMS-SSB-L TRUFlex Load Management Annual Hosting, Support & Maint - 1st 1000 Devices deployed.	0 \$ - \$ -
OPTION GRAND TOTAL - DER + Load Management	\$ -

OPTION - TRUGrid Analytics	
GRA-SSS TGRA SAAS Standard Set Up	0 \$ 5,000.00 \$ -
GRA-SSB TGRA SAAS Standard Annual Subscription - Add to Annual Fees Above Includes 1st 10,000 electric meters, 2 users, 14 months of history	0 \$ 9,000.00 \$ -
GRA-SSD TGRA SAAS Standard Annual Subscription / additional elec meter Add to Annual Fees Above	0 \$ 0.75 \$ -
OPTION GRAND TOTAL - TRUGrid Analytics	\$ -

OPTION - TRUGrid Transformer	
Transformer Analytics - Set Up Fee	0 \$ 5,000.00 \$ -
GTA-SSB-X Transformer Analytics - Annual Fee Includes Support, Maintenance, and Hosting Add to Annual Fees Above if Selected	0 \$ - \$ -
OPTION GRAND TOTAL - TRUGrid Transformer	\$ -

Pricing Notes & Assumptions:

- The pricing provided is limited to the equipment, software and services as proposed in this offer. Changes to quantities, deal structure or third-party partners that are part of this proposal may change the prices contained in this offer.
- Prices quoted for Tantalus' Network Equipment and Services may contain allowances, discounts and/or promotional pricing which are available for a period of 90 days from the date of bid opening. Price does not include shipping. All products are shipped FOB Shipping Point.
- Final performance criteria and any associated guarantees will be included in the final contract and are contingent upon installation of equipment and deployment per the final AMI network design and in accordance with Tantalus' specifications. Regardless of the party performing the installation, it is the responsibility of the Utility to provide utility specific information that may have an impact on the final design and/or performance criteria
- The standard warranty terms and conditions set forth in Tantalus' Network Systems Agreement (NSA) apply unless otherwise expressly agreed to by Tantalus in the final contract.
- Acceptance terms shall be discussed, mutually agreed to and set forth in the final contract, including without limitation those terms associated with acceptance of delivery, transfer of title, invoicing, etc.
- Final commitments shall be exclusive of failures resulting from the acts, omissions or performance of systems, services or networks provided by third parties or not otherwise within the control of Tantalus; and contingent upon the Customer's taking commercially reasonable actions in connection with maintaining the system, including, without limitation, entering into and complying with the terms of End User License Agreement and Technical
- Meters are Third-Party Products. Unless otherwise specifically set forth in writing (and subject to applicable pass-through terms and conditions), Tantalus does not provide a guaranty or warranty of any type or manner with respect to Third-party Products (as defined in the NSA) and disclaims all responsibility and liability for these items. Associated price validity terms set forth herein have been provided by the third-party manufacturer, in
- Pricing includes all of work, if any component is split, Tantalus reserves the right to reprice. Additional or incremental functionalities are subject to additional fees.
- Tantalus service time will be billed at actual. If additional days are necessary, Customer will be billed at Tantalus' then-current daily rate.
- A minimum lead time of [TBD] days is required on all Purchase Orders.
- Notwithstanding anything to the contrary in the Customer's RFP or Tantalus' response thereto, Tantalus' Response, including the pricing provided, is based upon its Network Systems Agreement (as attached) and the absence of a specific response or annotation by Tantalus to any of the specifications, the Customer's requirements or terms and conditions in the RFP does not otherwise limit Tantalus' ability and right to negotiate such
- Integration to existing vendor supported interfaces are included in the Deployment Services – Custom services, including custom integration(s) with third party applications that are not existing vendor supported interfaces, are subject to additional fees and agreement between Tantalus, Customer and any applicable third party.
- Annual System Support is available in both Premium and Standard levels. Premium level support is subject to an additional cost of \$15,000.00 at the time of such election.
- Optional Equipment/Services may be subject to additional terms and conditions, including without limitation those related to use of the software.
- If Tantalus is a Prime Contractor, a markup has been applied to meters and installation services. The customer would realize cost savings by contracting directly with third party providers for installation and meter purchases.
- Tantalus does not guarantee pricing of Third-Party Products, which are quoted pursuant to and subject to the respective third-party manufacturer's terms and conditions (including warranty). Notwithstanding anything to the contrary and unless otherwise expressly and mutually agreed to in writing (including applicable pass-through terms and conditions) between the Customer, Tantalus and the third-party manufacturer, the third-party terms
- If applicable, water meters encoder registers, connectors, RF endpoint and thru the lid antenna pricing is estimated and not included in the total cost.
- Water meter pricing does not include expansion wheels. Pricing TBD if required.
- If elected, TRUGrid™ Reliability and TRUGrid™ Transformer and are subject to terms and conditions of Tantalus' Master Software Subscription Agreement.

TRUConnect™

AMI

TRUConnect AMI is a multi-commodity, purpose-built industrial IoT network comprised of advanced smart meters and a wide range of intelligent connected devices to improve a utility's resiliency, reliability and efficiency in a secure and affordable manner.

Description

TRUConnect AMI delivers the necessary visibility and corresponding command and control of assets managed by utilities across the distribution grid – from the substation to distributed energy resources (DERs) located behind the meter – by harnessing the power of data.

By deploying TRUConnect AMI, utilities are empowered to coordinate their operations, control costs and enhance customer satisfaction while preparing for the adoption and integration of DERs.

TRUConnect AMI Solution components include:

TRUConnect Edge, an intelligent device integrated into meters manufactured by Itron, Landis+Gyr and Aclara with a powerful system-on-chip to support edge applications.

TRUConnect Network, a network of communications infrastructure devices that delivers unmatched reliability through a combination of “right-sized” field devices that includes:

The TRUSense Gateway™, a next-generation meter socket-based computing device

The VersaComms Gateway™ (VC), pole-mounted gateways that support multiple communications technologies (fiber, cellular, RF)

Insight, a common user interface designed by utilities to manage all aspects of an AMI deployment and Tantalus' suite of software applications and data analytics.

TRUConnect AMI offers a differentiated approach:

- Multi-commodity support through our TRUScan™ technology that is capable of reading and integrating data from a wide range of existing ERTs and MIUs to transform legacy one-way AMR systems into next-generation, robust AMI systems.
- Extending the life of existing assets by delivering reverse-compatibility through our system-on-chip to ensure utilities avoid the expense of stranded assets while future-proofing their investments.
- Flexibility in our networking capabilities that provides utilities the unique ability to migrate between communication technologies as advancements in those technologies are delivered and adopted.
- Unparalleled Data Management, through our TRUSync™ Grid Data Management system that offers utilities a truly interoperable solution that is capable of integrating data captured by any device, any system and any vendor into other mission-critical systems.

Benefits

- Supports the safety, prosperity and autonomy of the local communities served by IOUs, public power and electric cooperative utilities
- Helps these communities thrive by helping our utility customers power their economic prosperity, environmental sustainability and social progress
- Ensures these communities are empowered to shape the future of their smart grids as the adoption of Distributed Energy Resources such as solar panels, distributed storage and electric vehicles transform distribution grids
- Provides our customers with the flexibility and expandability they need to serve their communities today and well into the future



TRUConnect™ Edge

Intelligent endpoint and AMI communication module for the
Itron CENTRON® C1S Meter

Description

TRUConnect Edge provides Itron CENTRON C1S meters with two-way wireless communications through the TRUConnect Network - the Tantalus utility network that connects the entire distribution system so a utility can gather better information and achieve a new level of operational, business and customer service control and efficiency.

TRUConnect Edge equipped meters provide utilities with accurate billing data as well as grid edge analytics such as peak demand tracking and voltage analytics.

For utilities looking to upgrade their Itron, Neptune or Badger AMR system to a fixed network, TRUConnect Edge equipped meters will actively collect and relay Itron ERT™ electricity, water and gas data; and Neptune R900® and Badger ORION® CE water and gas readings back to the head office, prolonging the useful life of those assets.

Features/ Benefits

- All consumption and voltage data is pushed to the head end every interval; this is vital for grid edge optimization
- TRUPush™ technology for instant, field-initiated event notifications such as outage alerts and load shed confirmations
- Two-way, 24/7 wireless communications to Itron C1S meters
- Highly granular interval data for flexible rate designs
- On-request reads allow customer service to respond to inquiries and to closely monitor endpoints remotely
- Over-the-air meter configuration and firmware updates for future enhancements
- Peak Demand
- Net Metering
- TRUScan reading capability for Itron ERT, Neptune R900 and Badger ORION CE MIUs

TRUConnect™ Edge

Product Specifications

Data Reported	
	<ul style="list-style-type: none">• kWh• Net Metering (delivered, received, sum, net)• Voltage on configurable intervals (Min, Max, Instantaneous, 85 - 130V, 170 - 260V, $\pm 1\%$)• Optional 15/5 Rolling kW Demand• User defined interval data: 5, 10, 15, 30, 60 minutes• Blink Counts, Sag & Swells Alerts
Meter Forms Supported	
C1S (120V)	<ul style="list-style-type: none">• 1S (Class 100)• 3S (Class 20)• 12S / 25S (Class 200)
C1S (240V)	<ul style="list-style-type: none">• 1S (Class 200)• 2S (Class 200, 320)• 3S (Class 20)• 4S (Class 20)

Environmental	
	<ul style="list-style-type: none">• Operating temperature range: -40° to $+158^{\circ}$ F (-40° to $+70^{\circ}$ C)• Humidity: 5% to 95% non-condensing
Approvals/ Standards	
	<ul style="list-style-type: none">• ANSI C12.1 & C12.20• FCC for CFR Title 47 Part 15b
Radio	
	<ul style="list-style-type: none">• Frequency range: 902 - 928 MHz Unlicensed• TRUConnect Network TRUPush Technology• Vectored Channels: 64,000• Transmit power: 1.0 watt
Ordering Information	
TC-1116	<ul style="list-style-type: none">• TRUConnect Edge for Itron C1S 120V Meter
TC-1216	<ul style="list-style-type: none">• TRUConnect Edge for Itron C1S 240V Meter

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TRUConnect™ Edge

Intelligent endpoint and AMI communication module for the
Itron CENTRON® C2S Meter

Description

TRUConnect Edge provides Itron CENTRON C2S meters with two-way wireless communications through the TRUConnect Network - the Tantalus utility network that connects the entire distribution system so a utility can gather better information and achieve a new level of operational, business and customer service control and efficiency.

TRUConnect Edge equipped meters provide utilities with accurate billing data, innovative disconnect, prepay, load management and load limiting features as well as grid edge analytics such as peak demand tracking and voltage analytics. The unique service limiting feature can cycle electricity service off and on every 30 minutes, providing an alternative to full disconnection when a disconnect moratorium is in effect.

For utilities looking to upgrade their Itron, Neptune or Badger AMR system to a fixed network, TRUConnect Edge equipped meters will actively collect and relay Itron ERT™ electricity, water and gas data; and Neptune R900® and Badger ORION® CE water and gas readings back to the head end, prolonging the useful life of those assets.

Features/ Benefits

- All consumption, voltage data is pushed to the head end every interval; this is vital for grid edge optimization
- TRUPush™ technology for instant, field-initiated event notifications such as outage alerts and load shed confirmations
- Two-way, 24/7 wireless communications to Itron C2S meters
- Highly granular interval data for flexible rate designs
- On-request reads allow customer service to respond to inquiries and to closely monitor endpoints remotely
- Over-the-air meter configuration and firmware updates for future enhancements
- Optional remote disconnect with arming button for safe reconnection
- Peak Demand
- Net Metering
- Service Limiting
- Theft detection, tampers
- TRUScan reading capability for Itron ERT, Neptune R900/R900i and Badger ORION CE MIUs

TRUConnect™ Edge

Product Specifications

Data Reported	
	<ul style="list-style-type: none"> kWh, Instantaneous kW Net Metering (delivered, received, sum, net) Voltage on configurable intervals (Min, Max, Instantaneous, 85 - 130V, 170 - 260V, ± 1%) Optional 15/5 Rolling kW Demand User defined interval data: 5, 10, 15, 30, 60 minutes Blink Counts, Sag & Swell Alerts
Meter Forms Supported	
C2S	<ul style="list-style-type: none"> 1S (Class 200) 2S (Class 200, 320) 12S/25S (Class 200)
C2S-RD with Remote Disconnect	<ul style="list-style-type: none"> 1S (Class 200) 2S (Class 200) 12S/25S (Class 200)
Environmental	
	<ul style="list-style-type: none"> Operating temperature range: -40° to +158° F (-40° to +70° C) Humidity: 5% to 95% non-condensing

Approvals/ Standards	
	<ul style="list-style-type: none"> ANSI C12.1 & C12.20 FCC for CFR Title 47 Part 15b
Radio	
	<ul style="list-style-type: none"> Frequency range: 902 - 928 MHz Unlicensed TRUConnect Network TRUPush Technology Vectored Channels: 64,000 Transmit power: 1.0 watt
Ordering Information	
TC-1120	<ul style="list-style-type: none"> TRUConnect Edge for Itron C2S 120V Meter
TC-1220	<ul style="list-style-type: none"> TRUConnect Edge for Itron C2S 240V Meter
TC-1120-RD	<ul style="list-style-type: none"> TRUConnect Edge for Itron C2S-RD 120V Meter with Disconnect
TC-1220-RD	<ul style="list-style-type: none"> TRUConnect Edge for Itron C2S-RD 240V Meter with Disconnect

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TRUConnect™ Edge

Intelligent endpoint and AMI communication module for the
Itron CENTRON® Polyphase III Advanced OEM-Ready Meter

Description

TRUConnect Edge provides Itron CENTRON Polyphase III Advanced OEM-Ready meters with two-way wireless communications through the TRUConnect Network - the Tantalus utility network that connects the entire distribution system so a utility can gather better information and achieve a new level of operational, business and customer service control and efficiency.

TRUConnect Edge factory integrated meters provide utilities with data from high consumption C&I meters, for accurate billing, power quality monitoring, forecasting, load profiling and flexible rates such as TOU, CPP and dynamic pricing, as well as grid edge analytics such as peak demand tracking and voltage analytics.

Features/ Benefits

- All consumption, voltage and current data is pushed to the head end every interval; this is vital for grid edge optimization
- TRUPush™ technology for instant, field-initiated event notifications such as outage alerts and load shed confirmations
- Two-way, 24/7 wireless communications with Itron CENTRON Polyphase III Advanced OEM-Ready meters
- Highly granular interval data for flexible rate designs
- On-request reads allow customer service to respond to inquiries and to closely monitor endpoints remotely
- Over-the-air configuration and TRUConnect Edge firmware updates for future enhancements
- Peak Demand
- Net Metering
- Theft detection, tampers
- TRUScan reading capability for Itron ERT™, Neptune R900®/R900i® and Badger ORION® CE MIUs

TRUConnect™ Edge

Product Specifications

Data Reported	
	<ul style="list-style-type: none"> kWh, kVAh and kVARh Peak kW and coincident kVAR Peak kVA and coincident kW Peak kVAR and coincident kW Voltage, Current: Phases A, B & C User defined interval data: 5, 10, 15, 30, 60 minutes Power factor, frequency Sags, Swells (PPA license required) Net Metering (delivered and received)
Power	
	<ul style="list-style-type: none"> 120-480VAC, 50/60Hz
Meter Forms Supported	
Self-contained	<ul style="list-style-type: none"> 1S (CL100) 2S (CL200, CL320) 12S (CL200, CL320), 16S (CL200,CL320)
Transformer-rated	<ul style="list-style-type: none"> 3S 4S 9S 9/36S 45S (CL20)

Environmental	
	<ul style="list-style-type: none"> Operating temperature range: -40° to +158° F (-40° to +70° C) Humidity: 5% to 95% non-condensing
Standards	
	<ul style="list-style-type: none"> ANSI C12.1 & C12.20, Class 0.2 accuracy FCC for CFR Title 47 P art 15b Measurement Canada AE-2576
Radio	
	<ul style="list-style-type: none"> Frequency range: 902 - 928 MHz Unlicensed TRUConnect Network TRUPush Technology Vectored Channels: 64,000 Transmit power: 1.0 watt
Ordering Information	
PP-1320	<ul style="list-style-type: none"> TRUConnect Edge for Itron CENTRON Polyphase III Advanced OEM-Ready Meter
PP-1320C	<ul style="list-style-type: none"> Measurement Canada approved TRUConnect Edge for Itron CENTRON Polyphase III Advanced OEM-Ready Meter

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TRUSense Gateway™

To modernize and digitize the grid, you have to harness the power of data not only from the substation to the meter, but also access devices located behind the meter. TRUSense Gateway™ is a multi-purpose device that creates a secure utility communication path into the premise to extend the edge of the grid to include behind-the-meter DERs.

Description

The TRUSense Gateway is one of the most valuable solutions in the Tantalus Grid Modernization Platform (TGMP™). The edge of the grid has moved to behind the meter, and without the TRUSense Gateway, utilities are flying blind without mission-critical data.

The TRUSense Gateway accelerates grid modernization for utilities of all kinds by delivering broadband data connectivity all the way to edge of the grid, including behind-the-meter. It's installed in a standard meter socket, between the socket and the meter, and delivers:

- Streaming substation-quality grid-edge power measurements
- Power quality issue detection, waveform capture, diagnosis and mitigation
- Vendor-agnostic approach to DER integration
- AMI infrastructure for electric, water and gas metering
- Connectivity available via Fiber, Ethernet or Cellular

More and more utilities are turning to TRUSense Gateway to achieve a cost-effective way to harness the power of data and enhance the reliability and resilience of their distribution grids.

Applications

The TRUSense Gateway represents a first-to-market offering that supports the convergence of four major initiatives across the utility industry:

-  **Delivering next-generation AMI** by accessing the benefits of AMI 2.0 without having to replace existing metering infrastructure
-  **Providing grid optimization** by capturing and analyzing granular power quality data to improve the distribution grid and prioritize infrastructure that needs to be upgraded
-  **Integrating DERs located behind-the-meter**, such as electric vehicle chargers, solar and storage inverters and smart appliances
-  **Enhancing broadband initiatives** by leveraging fiber investments to connect meters for communications and powering optical network terminals delivering broadband services to the home

In short, the Tantalus TRUSense Gateway makes it easier for utilities to become more reliable, resilient, and innovative.



TRUSense Fiber Gateway:
Connects directly to fiber by use of a Small Form-factor Pluggable (SFP) Optical Network Terminal (ONT)

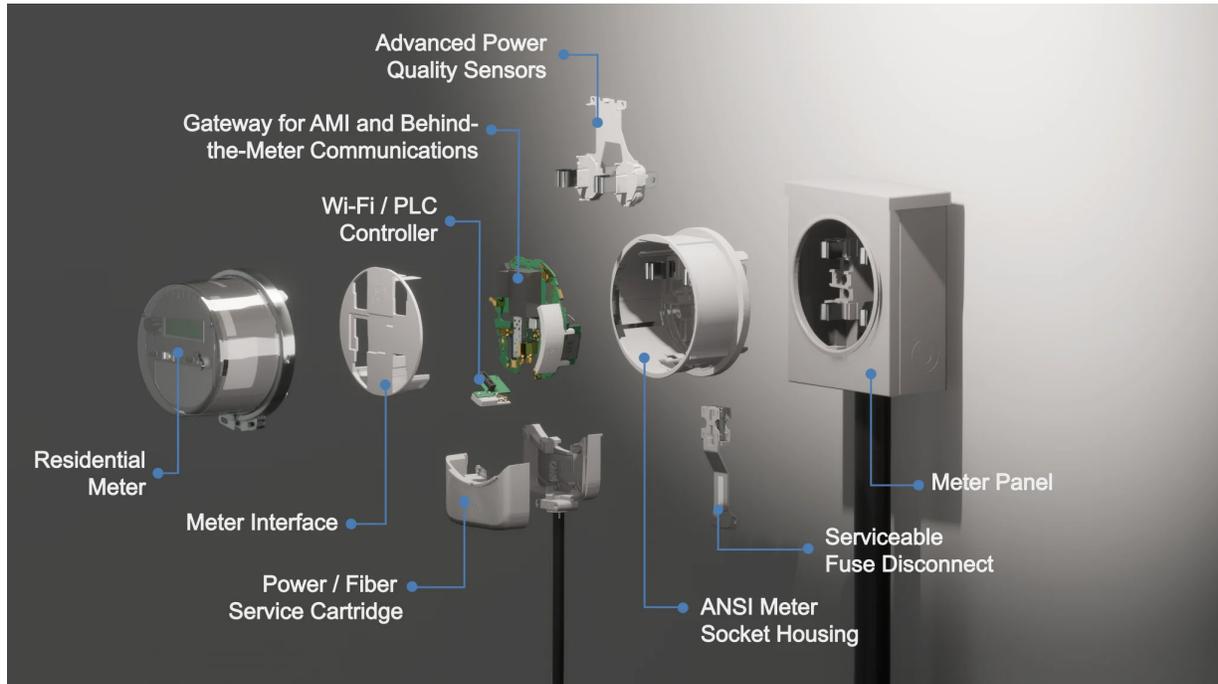


TRUSense Ethernet Gateway:
Supports an outdoor ONT deployment (providing power to the ONT and connecting via an ethernet cable)



TRUSense Cellular Gateway:
Leverages an embedded LTE modem for those utilities not deploying fiber to the home (FTTH) to leverage public or private LTE for AMI and/or DER integration

TRUSense Gateway™



Benefits

- Deploy a next-generation AMI system without needlessly ripping and replacing existing meters. Specifically, we help utilities extend and augment existing AMI and AMR investments—including electric, water and gas—to provide a foundation for future innovation and insights at lower costs.
- Create a secure utility communications path into the premises using the same standards-based technologies that control consumer-centric DERs and appliances to build demand-side programs to offset peak demand.
- Monitor power quality at the socket, providing substation-level power quality sensing and measurement to track transient power events and local conditions such as sags, swells, outages and even phase information.
- Provide real-time communications over fiber and cellular networks, allowing utilities to avoid truck-rolls while gaining a granular view of the distribution network.

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VersaComms Gateway™

VC-93x Broadband IP Gateway

Description

The VC-93x VersaComms Gateway ensures fast and flexible data communications via Ethernet. It is designed as a flexible, high capacity network communications device for utilities to support network coverage where required.

The VersaComms Gateway product line serves as a backbone for the Tantalus Grid Modernization Platform™ including TRUConnect™ AMI, TRUFlex™ Load+DER Management, TRUGrid™ Automation and TRUSync™ Grid Data Management. Its mix-and-match modular design allows utilities to customize each device with the optimal mix of WAN/FAN/LAN communications.

The VersaComms Gateway's rapid, reliable communications with TRUConnect-enabled endpoints enables TRUPush™, the push-based delivery of metering data to the utility headend in near real-time. This improves operational response time and customer satisfaction through features such as 5-minute interval data, on-request reads, outage and restoration alerts/notifications and remote disconnect/reconnect. The VersaComms Gateway also relays Itron ERT®, Neptune® and Badger Orion® metering data, collected by TRUConnect endpoints, and delivers it to the utility's headend.

The VersaComms Gateway product series is the most versatile gateway available in the TRUConnect portfolio. It provides lightning-fast connectivity and virtually limitless Smart Grid scalability. The VersaComms Gateway includes a low voltage power delivery system used for power provisioning and backup for externally-mounted telecommunications equipment such as ONTs (Optical Network Terminals), Ethernet routers, WiMAX, cable routers, and UPS modules.

Features/ Benefits

- Provides high-capacity communications in challenging rural and urban environments
- Supports advanced TRUConnect applications such as Demand Response, DA-Grid Optimization, and Streetlight Control
- Compact, rugged weather-proof construction; secure, lockable enclosure
- Supports multiple protocols TRUConnect, Itron ERT®, Neptune® and Badger Orion®
- Can be used for power provisioning to externally-mounted telecommunications equipment such as ONTs, Ethernet and cable routers, and UPS modules
- TRUConnect WAN options (wireless RF, Fiber, LTE/cellular, Ethernet, WiFi, WiMAX, satellite) can be combined to meet economic, coverage and redundancy needs

VersaComms Gateway™

Product Specifications

LAN Radio	
	<ul style="list-style-type: none">• Frequency range: 902 - 928 MHz; unlicensed• Transmitter power: 1 .0 watts (EIRP +33 dBm)• Antenna: Up to 4 chassis-mounted, 1 internal
Power Input	
	<ul style="list-style-type: none">• Supply: 90 to 305 VAC at 50/60 Hz• Quiescent consumption: 6 - 18 watts steady state• Battery backed up for receiving extended outage reports
Physical	
	<ul style="list-style-type: none">• Dimensions: 18”H x 12”W x 8”D• (46cm H x 31cm W x 20cm D)• NEMA 4X construction
Auxiliary Load Supported	
	<ul style="list-style-type: none">• 20 - 30 W at 11 - 15 VDC

Environmental	
	<ul style="list-style-type: none">• Operating temperature range: -40° to +149° F (-40° to +65° C) when installed with optional extended temp range battery• Humidity: 5% to 95%
Alarms/Indicator Options	
	<ul style="list-style-type: none">• Power Outage• Discreet External Power Indicator• Low Battery (future)• Tamper/Cover Open (future)
Battery Uptime without Auxiliary Load	
	<ul style="list-style-type: none">• 6 - 16 hours
Battery Uptime at Max Auxiliary Load	
	<ul style="list-style-type: none">• 3 hours

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LAN Repeater

TR-1901 Omni-directional 900 MHz network repeater

Description

The TR-1901 LAN Repeater extends the reach of the TRUConnect™ LAN communications into hard-to-reach locations and over challenging terrain. It provides superior omni-directional radio coverage enabling connectivity to larger clusters of LAN endpoint devices at greater distances. This enables a utility to add range and functionality without re-engineering the network.

The LAN Repeater improves radio broadcast range and penetration to ensure that distant sites or those located in challenging urban and rural environments receive reliable communications. It facilitates two-way, near real-time communications between the utility and TRUConnect-enabled endpoints as well as with Itron ERT®, Neptune® and Badger Orion® modules.

With its sensitive receiver capabilities and easy to mount design, the TRUConnect LAN Router is a valuable component in an AMI system.

Features/ Benefits

- Provides long-range communications coverage in both challenging rural and urban environments
- Enables a utility to surgically deploy endpoints anywhere without substation constraints
- Multiple installation options
- Small size, rugged weather-proof construction; secure, lockable enclosure
- Features Tantalus TRUPush™ technology for instant, field initiated event notifications such as outage alerts or load shed success; no device polling required
- Communicates directly with Itron ERT® and Badger Orion® modules

LAN Repeater

Product Specifications

LAN Radio	
	<ul style="list-style-type: none">• Frequency range: 902 – 928 MHz; unlicensed• Transmitter power: 0.9 watts (+29.5 dBm)• Antenna: 5 dBi external omni-directi
Power Input	
	<ul style="list-style-type: none">• Supply: 100 to 240 V at 50/60 Hz• Quiescent consumption: 4 watts
Physical	
	<ul style="list-style-type: none">• Dimensions: 11"W x 13.25"H x 5"D (28cm W x 33cm H x 12.5cm D)(excludes external antenna)• Weight: 4.1 lbs (1.9 kg)

Environmental	
	<ul style="list-style-type: none">• Operating temperature range: -40° to +149° F (-40° to +65° C)• Humidity: 5% to 95%
Approvals/Standards	
	<ul style="list-style-type: none">• FCC for CFR Title 47 Part 15b• NEMA 3R enclosure

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TRUGrid™ Reliability

Improve system reliability by spotting latent problems.

Description

TRUConnect™ Network is a highly efficient Smart Grid platform that enables you to monitor, control and respond to events anywhere and at any time across your distribution network. It serves as the communications backbone that makes Smart Metering, Power Quality Monitoring, Outage Reporting, Load Control, and Distribution Automation practical and cost-effective. The result is more efficient operations, more accurate billing, and the ability to deliver a high level of customer service.

TRUGrid Reliability leverages the interval data from TRUConnect to perform deep analytics and identify issues on the distribution system that may have been overlooked. By continually analyzing power-quality data behind the scenes it alerts you to failing transformers, corroded meter sockets and splices, cracked insulators, and other latent equipment problems.

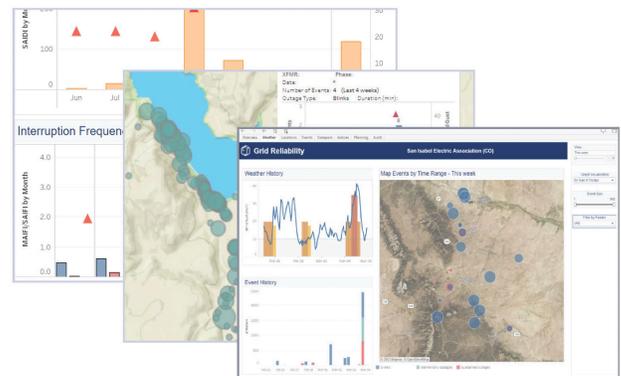
With wildfire risks at an all-time high, many utilities are searching for proactive solutions. TRUGrid Reliability lets you know whenever vegetation comes into contact with power lines. With built in weather statistics, the tool can prioritize tree and limb removal in preparation for fire season.

TRUGrid Reliability enables proactive planning and decision-making. It provides a new perspective of your distribution network that is inherently forward-looking. Historical-data visualizations demonstrate the before-and-after effects of capital projects.

Features/ Benefits

- Increase customer satisfaction
- Save on equipment and operating costs
- Gain true operational awareness
- Reduce regulatory and hazard risks
- Fortify the distribution system against extreme weather events
- Reduce overtime by fixing emerging problems during business hours
- Prioritize work by tracking MAIFI and CEMI scores for individual feeders
- Set it and forget it with automated alerts for emerging blinks and flickers
- Perform quick investigations through seamless integration with Insight
- Collaborate efficiently by assigning reports for investigation or resolution
- Quickly find problems in the field with geospatial mobile support
- Avoid “phantom” truck rolls by easily validating meter groupings

Simplifying the acquisition, transport and integration of data over energy networks, Tantalus gives utilities and renewable energy producers the technology they need to manage and control power distribution at every point on the grid. Our suite of advanced software applications acquires, transports and presents complex energy data for analysis, action, and automated control – so you can keep energy flowing to customers effectively, efficiently, and safely.



TRUGrid™ Transformer

Addressing transformer issues before they happen.

Description

With increasingly extreme weather events, accelerating growth in EVs, aging infrastructure and supply chain issues, transformers everywhere are at risk. And when transformers go down, utilities face catastrophic outages, safety issues, costs and supply chain delays. It's a question of when, not if, these costly disruptions hit.

A single power interruption caused by transformer issues can cost a community hundreds of thousands of dollars in lost economic revenue. In order for utilities to enable their customers' success amidst these challenges, the time to invest in real-time insights is now.



With Tantalus' TRUGrid Transformer solution, for the first time ever utilities can monitor, anticipate and prioritize transformer issues in near-real time, before they happen. This means they can avoid the costs, disruptions in service and safety issues that transformer failures bring. What's more, they can proactively plan ahead on how best to manage and upgrade their assets to stay one step ahead of trouble.

Real-Time Transformer Data Across the Grid

- Track how many hours a transformer has been under- or over-loaded
- See when it is time to replace or repair a transformer and prevent the next catastrophic outage
- Map visualization lets utilities select and view individual transformers, identifying the most at-risk units that are likely to cause a problem
- The solution's deep diagnostic tools allow utilities to see exactly how hard they're pushing their transformers, and when they absolutely have to swap out for a new one

Benefits

- Reduce expenses from damaged or broken units
- Prevent outages that could cost your community revenue or lives
- Plan ahead for sags or swells in demand
- Allows for quicker decision making
- Decide where best to position your transformers to ensure uninterrupted, reliable service to your customers
- Gain revenue awareness to capture lost revenue from large customers
- Eliminate guesswork

TRUSync™ Grid Data Management

Automate the integration of data across any device, any system or any vendor with TRUSync

Description

Grid data management is mission critical for grid modernization. That is why Tantalus is offering TRUSync Grid Data Management (TRUSync), a revolutionary grid data management system that automates the integration of *all* utility data across any device, any system or even any vendor. TRUSync provides visibility, command and control across all devices and systems, including devices located behind-the-meter such as electric vehicle chargers and solar inverters.

TRUSync acts as a middleware by interconnecting systems to connected devices and managing the flow of data across the entire utility. TRUSync was purpose-built to harness the power of data and help utilities accelerate grid modernization. Today, TRUSync is included as part of all solutions offered by Tantalus and can also be purchased as a standalone solution.

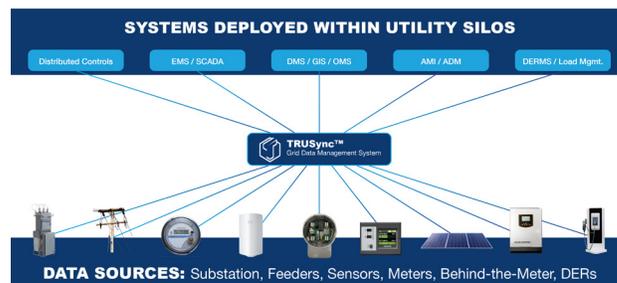
Connectivity types include one-to-one, one-to-many, many-to-one and many-to-many. Across devices and applications, TRUSync enables communications from:

- Device to Application
- Application to Application
- Application to Device (control/parameters)

TRUSync provides an advanced grid data fabric that holds all the utility's grid data, whether acquired from devices or produced by applications. TRUSync is implemented as a data federation. A data federation is a software process that allows multiple, distributed databases to function as one. The TRUSync database is distributed across a series of data nodes. There is a central node that contains the present value and state of all data points known to the system. In addition, there are outlying nodes at data collection and data serving locations that contain partial copies of the data needed and cached at each location. This virtual database takes data from a range of sources and converts it to a common model. This provides a single source of data for utility applications. TRUSync uses high performance memory-resident database technology for performance. This eliminates the latency introduced by writing to and reading from a disk-based database. The distributed memory-resident databases, plus an event-driven architecture results in high-speed operation with no wasted CPU cycles.

Benefits

- Automating the integration of all grid data for visibility, command, and control across the entire grid, including devices located behind-the-meter
- Eliminating costly and complex integration projects
- Avoiding needless rip-and-replace costs and mitigating the impact of stranded assets through unparalleled reverse-compatibility across generations of edge-devices
- Providing total flexibility through true data interoperability across any device, protocol and data model
- Generating a single version of the truth that bridges the gap between Operational Technologies (OT) and Information Technologies (IT)
- Delivering unparalleled scalability in terms of memory, processing power, and servers



TRUSync™ Edge Gateway

Intelligent, flexible management of field communications to maximize throughput and speed decision making for data acquisition and real-time control.

Description

TRUSync Edge Gateway can be configured via a drag-and-drop graphic editor or plug-and-play, to communicate via any standard protocol, while providing protocol and data model translation that allow applications direct access to the data they need. Whether integrating DERs, distribution equipment, or anything else, the TRUSync Edge Gateway is designed for seamless integration.

Our Edge Gateway's advanced protocol support and data handling, combined with robust communications management tools provide you unparalleled ability to connect with all your field devices over any network – even your AMI system.

TRUSync Edge Gateway uses multi-acquisition data polling methods and optimized TCP/IP parameters to stream line the flow of operational data through your field area and AMI networks. In addition, TRUSync Edge Gateway supports channel grouping for advanced throughput management on any IP network.

Combine all your data from many devices into one gateway-enabled node, reducing integration costs. TRUSync Edge Gateway supports advanced interfaces for integration into other systems, increasing the business value of your data.

Data Acquisition & Communications Management

- Supports simultaneous, multi-channel polling
- Support for standard protocols (e.g. DNP3, Modbus, MultiSpeak, ICCP etc.) and advanced protocols (e.g. IEEE 2030.5, IEC-61850, Tesla Energy API)
- Multi-Protocol Support on a single communications channel
- Multi-acquisition method support over a single channel (i.e. static polling and report by exception)
- Manage throughput of multiple IP enabled end devices through a single access point (for mesh or point to multi-point RF systems)

Cyber Security & Reliability

- Support for SSL and TLS (levels 1.0-1.3)
- Supports NERC CIP compliant data acquisition and transport
- Full redundancy for disaster recovery; high availability options available

Data Concentration, Transposition and Service

- Supports time tagging down to millisecond resolution, add time tags when necessary
- Perform full protocol and data model translation
- Pub/sub architecture for efficient data serving
- Supports the capability combine many devices into a single slave device or multiple slave devices for master systems

Interface Standards & System Management

- REST / Web Services
- California Independent System Operator (CAISO) – ADS and AGC
- Full Remote Management
- Fully integrated RF system monitoring and protocol analyzer

Simplifying the acquisition, transport and integration of data over energy networks, Tantalus gives utilities and renewable energy producers the technology they need to manage and control power distribution at every point on the grid. Our suite of advanced software applications acquires, transports and presents complex energy data for analysis, action, and automated control – so you can keep energy flowing to customers effectively, efficiently, and safely.



TECHNICAL SUPPORT PLAN SUMMARY

This document is Addendum B-1 to Exhibit B - Technical Support of Tantalus' Network Systems & Services Agreement (the "Agreement"). Unless otherwise defined in this Addendum or elsewhere in Exhibit B, defined terms will have the respective meaning set out in the Agreement.

The Technical Support Plans available are as follows:

STANDARD ¹	PREMIUM ²
Standard Support Includes: Technical Support 7:00 AM – 7:00 PM, 5 days per week excluding U.S.A. and Canadian holidays (as applicable) Response to queries within 4 hours of initial contact.	Premium Support Includes: Technical Support 7:00 AM – 9:00 PM, 7 days per week excluding U.S.A. and Canadian holidays (as applicable) Response to queries within 4 hours of initial contact. 7 x 24 Extended Customer Support based on exception-based monitoring* *Exception Based Monitoring is defined as alarms related to head end server and/or NC issues
Consolidated Invoices (TSA/Annual Support) - Licensed Software Annual Maintenance - Endpoint Annual Maintenance	Consolidated Invoices (TSA/Annual Support) - Licensed Software Annual Maintenance - Endpoint Annual Maintenance
Quarterly Training Sessions - Remote [non-certification]	Quarterly Training Sessions - Remote [non-certification]
Customer Community access	Customer Community access
	Annual Users Conference - Admission for 2
	Priority email premiumsupport@tantalus.com - Response in 4 hours
	Priority Support Line
	Online Technical Support Chat
	Annual Certification Training - Tantalus University - Admission for 2
	Custom Billing Exports - Includes annual support
	48-hour Part Replacement - M-F (excluding U.S.A. and Canadian holidays), cutoff by 3:00 PM
	Advance RMA replacements - Shipment within 48 hours after reported issue
	Remote System Health Check - Annual investigation with reported customer action plan - WAN Assessment - LAN Assessment - Dashboard Health Check
	Assigned Project Manager (PM)

¹ Standard level technical support is required for all Customers.

² Premium level technical support is available for an additional fee.

Individual features of each plan are as described below:

CUSTOMER SUPPORT

Standard Level – Technical Support 7:00 AM – 7:00 PM, 5 days per week excluding U.S.A. and Canadian holidays (as applicable).

Premium Level - Technical Support 7:00 AM – 9:00 PM, 7 days per week excluding U.S.A. and Canadian holidays (as applicable).

- Response to queries within 4 hours of initial contact.
- 7 x 24 Extended Customer Support based on exception-based monitoring*
- *Exception Based Monitoring is defined as alarms related to the head end server and/or base station issues.

CONSOLIDATED INVOICES

Consolidated invoices for Licensed Software Maintenance and Technical Support, and hosting fees (as applicable).

QUARTERLY TRAINING SESSIONS

Remote Training

The training sessions are flexible and can be broken up into multiple sessions, depending on the required participants. Training sessions are designed as 60 - 90-minute web-based discussion groups, held once per quarter based upon the subject matter generated at Tantalus' Annual Users Conference. Recorded non-certification training sessions and webinars are made available in Customer Community.

COMMUNITY ACCESS

Community Access includes the following:

- Tools to track the status of current and previous equipment orders and enter and track Return Material Authorization ("RMA") orders for Tantalus equipment.

NOTE: THE REMAINING TECHNICAL SUPPORT FEATURES BELOW ARE ONLY AVAILABLE WITH THE PURCHASE OF PREMIUM SUPPORT PACKAGE.

ANNUAL TANTALUS USERS CONFERENCE

With the purchase of a Premium package, the Customer receives admission for two (2) representatives to the Annual Tantalus Users Conference ("TUC").

The annual TUC provides an excellent opportunity for the Tantalus community to gather for education, sharing, networking, and social events. The TUC is a knowledge-driven event with heavy focus on the customer experience, technical training, and collaboration with Tantalus, utility peers, and our extensive network of partners.

*Admission includes the cost of registration for two (2) representatives only. Travel and living expenses are not included and are the responsibility of Customer. Customers with Standard packages will be responsible for costs associated with attendance, separate and apart from this Agreement.

DESIGNATED PRIORITY SUPPORT EMAIL

With purchase of a Premium package, Customer will receive a priority email address which directs email messages to the Field Operations

- A library provides technical product documentation and installation guides.
- A project information section including tracking of project related meetings and action items.
- A knowledge-based forum for open discussion of current issues in the deployment and concerns of the project team.
- An issue creator allows the Customer to create feature requests and other issues for the Tantalus project team in the event that the issue is not already covered in the standard system documentation. Once created, issues are evaluated, resourced, and reported based on resource availability.

Time sensitive and urgent issues should be raised by Customer via Tantalus' Technical Support Line at +1- 877-886-3848.

Routine Documentation Updates

Routine updates to operational material will be provided to all Customers. Examples of these documents include network server operations manuals, endpoint product manuals, Insight operations manuals and other manuals, as applicable. Updated versions of all Customer documentation will be available in Customer Community.

STANDARD TECHNICAL SUPPORT CONTACT INFORMATION

If you have an URGENT issue, call: +1-877-886-3848

For non-urgent issues, please email:

Standard Support Email Address - tantalustechsupport@tantalus.com

team during non-core business hours, thereby allowing the issue being reported to receive attention prior to the start of the next business day.

Priority Support Email Address: premiumsupport@tantalus.com

PRIORITY SUPPORT LINE

With purchase of a Premium package, once available, Customer will have direct access to Tantalus' Field Operations team for placing high priority calls during non-core business hours. Upon receipt of such calls, Tantalus staff will take action, either by solving the problem directly, or by contacting other expert individuals to assist depending on the nature of the call.

Tantalus will apply commercially reasonable efforts to promptly deliver the described services in a professional and workman-like manner and in accordance with generally recognized commercial practices and standards. The promptness and utility of our response may vary from time-to-time, depending upon the accuracy and completeness of the information provided, our ability to reproduce the problem, the scope of work required to address an issue, and the volume of support service traffic at the time.

ONLINE TECHNICAL SUPPORT CHAT

Premium Support Customers will be able to access Tantalus' Online Technical Support Chat ("**Live Chat**") to have a personalized one-on-one, real time, text-based interactive conversation with a Tantalus Field Service representative.

- Live Chat is available through Customer Community and will be queued on a first come- first-serve basis.
- Hours of operation - 8:00 am to 5:00 pm, Monday – Friday, excluding U.S.A. and Canadian holidays.

ANNUAL CERTIFICATION TRAINING

With purchase of a Premium package, Customer receives admission for two (2) Tantalus Users to attend Tantalus University™. This comprehensive training and certification series is designed to provide a full range of advanced training opportunities to Tantalus Users across all departments and roles.

Please see <https://tantalus.com/training/> for more detail.

*Admission includes the cost of registration for two (2) representatives only. Travel and living expenses are not included and are the responsibility of Customer. Customers with Standard packages will be responsible for costs associated with attendance, separate and apart from this Agreement.

CUSTOM BILLING EXPORTS

With purchase of a Premium package, Customer has access to a billing function that summarizes meter data and presents it directly to Customer's billing or CIS system from Insight.

Insight can be used to bill utility customers based on end of day readings, interval readings, for both single-phase and polyphase meters.

Includes customized extraction scripts of Customer data from the Insight database and maintenance.

48 HOUR PART REPLACEMENT

Applicable to non-warranty parts, excluding base station / head end servers, during the times listed below.

Only includes the cost associated with outgoing expedited shipping of component. Does not include the cost of material or shipping charges incurred by Customer.

Monday – Friday (excluding U.S.A. and Canadian holidays), cutoff by 3:00 pm. Shipment within 48 hours after reported issue.

ADVANCE RMA REPLACEMENTS

Most endpoint devices have a unique Network ID (NID) in a bar code on each unit. You can use the Customer Community to request an RMA for any of these devices (TCs, RTs, LMs, XRs, etc.). The Customer Community will help you through the process of submitting your request.

Inquiries about equipment that does not have a NID should be directed to your Project Manager.

With the purchase of a Premium package and subject to a written Customer request, equipment repairs conducted under the applicable equipment warranty may include advance replacement of the failed components, if such components are available in Tantalus inventory, to afford greater responsiveness to the Customer. Otherwise, Tantalus will require the failed component be received prior to shipping a replacement under warranty. Where advance replacement is provided for failed components under warranty, Customer must return the failed component, within 30 days of shipment of advance replacement, freight prepaid by Customer to Tantalus at its designated depot, together with Tantalus' return material authorization number ("**RMA**") and completed on-line problem sheet. Where advance replaced failed components are not returned by Customer within 30 days, Tantalus will invoice Customer for the price of the advance replaced component supplied and Customer hereby agrees to make payment to Tantalus within 30 days of the invoice date.

REMOTE SYSTEM HEALTH CHECK

With purchase of a Premium package, Customer receives:

- Annual investigation with reported customer action plan
- WAN Assessment
- LAN Assessment
- Dashboard Health Check

A remote system health check provides a summarized report identifying Customer actions that need to be performed in order to improve system performance.

ASSIGNED PROJECT MANAGER

With purchase of a Premium package, Tantalus will assign a specific Project Manager to the Customer's project.

TANTALUS TECHNICAL SUPPORT CONTACT INFORMATION

If you have an URGENT issue, call: +1-877-886-3848

For non-urgent issues, please email:

Standard TSA - tantalustechsupport@tantalus.com

Premium TSA - premiumsupport@tantalus.com

CONFIDENTIALITY STATEMENT

Copyright © 2025 Tantalus Systems Inc. All rights reserved.

This proposal, including all copies, exhibits, attachments, related materials and subsequent amendments (collectively, the “**Materials**”), contains information that is confidential and proprietary to Tantalus Systems Inc. (“**Tantalus**”). The Materials are provided in confidence for use solely by the recipient to whom it is addressed and only for the purpose for which the Materials are supplied.

The unauthorized use, access or disclosure of the Materials would cause injury to Tantalus and the loss of competitive advantage and is strictly prohibited. The recipient shall safeguard the Materials from unauthorized use, access or disclosure using at least the degree of care it uses to protect its most sensitive information and no less than a reasonable degree of care.

To the extent allowed by law, the recipient, by its receipt of this document, acknowledges that it is the Materials are confidential information and contain proprietary information belonging to Tantalus.

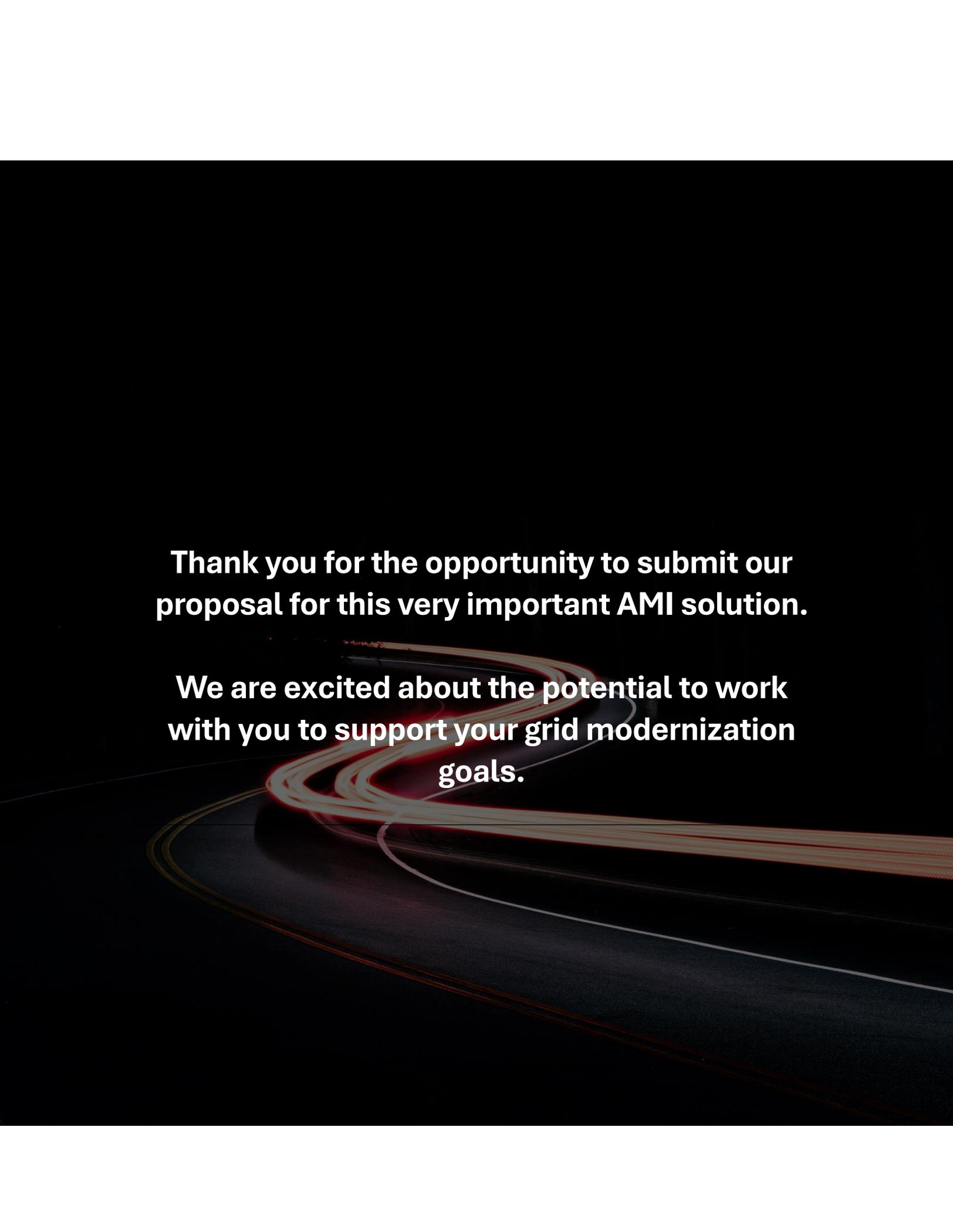
In accordance with applicable rules and regulations, Tantalus shall be entitled to notification from the recipient of any request for disclosure of all or any portion of the Materials and reserves the right to take any and all action necessary and appropriate to protect the information from release and maintain its confidentiality.

The recipient shall immediately provide Tantalus with written notification of any request for release of information contained in the Materials immediately upon receipt of the request via electronic mail and USPS at the following physical and electronic mail addresses:

Tantalus Systems Inc.
Attn: Erin T. Gould, Manager, Contracts
1130 Situs Court, Suite 230
Raleigh, NC 27606
Email to: egould@tantalus.com

The Materials may include forward looking statements that reflect Tantalus’ current roadmap; however, it is subject to change based on market conditions and customer feedback. Except as expressly set forth in the Materials, Tantalus provides the Materials without any representation or warranty, express or implied, as to the accuracy or completeness thereof and Tantalus shall have no liability to recipient or any other person relating to recipient’s use of the Materials or any errors therein or omissions therefrom.

While Tantalus’ proposal will address customer-provided requirements in the RFP, customer requirements often change between release of an RFP and final contract negotiations. For this reason, the RFP and this proposal response are not intended for incorporation into contract documents in their entirety, but instead should be used as a basis for guiding negotiations in order to establish and finalize contract commitments and obligations.



Thank you for the opportunity to submit our proposal for this very important AMI solution.

We are excited about the potential to work with you to support your grid modernization goals.

**TANTALUS SYSTEMS INC.
TERMS AND CONDITIONS OF SALE
(04012025)**

Purpose/Goal. These Terms and Conditions of Sale (“Terms”) set forth the terms and conditions under which Customer agrees to purchase from Tantalus, and Tantalus agrees to sell to Customer, Network Equipment, Initial Deployment Services and Maintenance and Support Services, as the case may be. Notwithstanding any other provision to the contrary, these Terms become a binding agreement between Tantalus Systems Inc. (“Tantalus”) and the Customer when (a) Customer delivers a signed copy of this quotation to Tantalus, which shall be deemed a duly authorized Purchase Order (“PO”) for the Network Equipment, Initial Deployment Services and Maintenance and Support Services quoted therein; (b) Customer delivers a signed Purchase Order for all or any portion of the Network Equipment, Initial Deployment Services or Maintenance and Support Services or (c) Tantalus ships or provides all or any portion of the Network Equipment, Initial Deployment Services or Maintenance and Support Services covered by this quotation. Except as provided above, any provision in any acceptance or acknowledgment hereof, inconsistent with or in addition to these Terms, are expressly rejected and shall have no force or effect, unless otherwise agreed in writing between the parties. Notwithstanding the foregoing, acceptance of these Terms indicates Customer’s agreement to execute such additional documents, as required, including, without limitation, the terms, conditions and responsibilities of each party relating to the license and use of the Licensed Software prior to shipment of any Network Equipment to Customer, the provision of Technical Support, and deployment of Network Equipment. Notwithstanding anything to the contrary herein, Tantalus shall not be responsible for nor have any liability to Customer for any delay or failure to perform its obligations under these Terms to the extent such delay or failure is caused by or results from an Excusing Event. These Terms, including and together with any related quotations, exhibits, schedules, attachments, and appendices, together with the Purchase Orders, constitute the sole and entire agreement of the parties with respect to the subject matter contained herein and therein, and supersedes all prior and contemporaneous understandings, agreements, representations, and warranties, both written and oral, regarding such subject matter.

Purchase Orders. Customer may purchase Network Equipment and Initial Deployment Services by issuing properly authorized Purchase Orders to Tantalus. Each type of Network Equipment may have an economic order quantity or minimum order quantity, meaning that no Purchase Order may be placed for a quantity of those units of Network Equipment which is less than the minimum number of units specified on the then current Tantalus price list and designated as the “economic order quantity” or “minimum order quantity”. Each Purchase Order issued by Customer shall have a lead-time of at least 90 days. Lead-time means the time extending from the date the Purchase Order is received by Tantalus to the specified delivery date. Each Purchase Order shall reference these Terms and shall state product description, quantity of Network Equipment and Initial Deployment Services ordered, part number, desired delivery date and Destination, method of shipment, unit price for each unit ordered and total purchase price. In the event of any inconsistency or conflict between any terms of a Purchase Order, order confirmation, invoice or any other commercial form used by the parties and these Terms, these Terms shall govern. No oral, electronic, or written additional or different provisions proposed by either party in any acceptance, confirmation, or acknowledgment shall apply. Purchase Orders, once accepted, may not be cancelled, except as outlined below.

Acceptance, Rejection or Changes to Purchase Orders. Tantalus will notify Customer of its acceptance or rejection of each Purchase Order as soon as practicable and notice of acceptance shall include confirmation of requested quantities and prices consistent with these Terms. Once a Purchase Order is accepted by Tantalus, the quantities and prices within that acceptance, unless otherwise noted on such acceptance, are committed to and cannot be changed without the consent of both Tantalus and Customer. If the parties agree to changes to a Purchase Order, those changes will be incorporated in a replacement Purchase Order, which will follow the same process outlined above referencing the Purchase Order to be replaced.

Pricing. The prices provided to Customer under the quotation attached to these Terms may contain promotional or one-time pricing. Future prices shall be as set forth on Tantalus’ then-current price list and do not include taxes. In addition, Tantalus shall bear the costs and charges to ensure that all Network Equipment purchased by Customer is cleared for importation into the United States, if applicable, and delivered to the Shipping Point. Customer will be responsible for and pay all applicable federal, state, municipal or other governmental sales use, excise, value-added taxes, occupational or other taxes, tariffs, duties and surcharges (including those imposed on Tantalus) now in force or enacted in the future which are associated with the provision of Network Equipment and Initial Deployment Services by Tantalus, excluding taxes on Tantalus’ income generally.

Price Changes. Tantalus reserves the right, in its sole discretion, to revise the prices on thirty (30) days prior written notice to Customer by whichever of the following is greater: (i) the immediately preceding year’s percentage increase in the Consumer Price Index For All Urban Customers, All Cities Average, All Items (“CPI-U”), as published by the Bureau of Labor Statistics, U.S. Department of Labor in the “Summary Data from the Consumer Price Index New Release” for the 12-month period ending at December 31st of the calendar year immediately preceding the adjustment date; or (ii) or 3.5% per year. Notwithstanding the foregoing, the original price of any Network Equipment and Initial Deployment Services covered by Purchase Orders issued by the Customer, and which Purchase Orders are confirmed and accepted by Tantalus prior to the Effective Date of such price revision, will not be changed for such Purchase Orders issued and accepted as of the Effective Date.

Payment Terms. Tantalus shall invoice Customer for Network Equipment purchased upon delivery of such Network Equipment to Customer at the Shipping Point. At its discretion, Tantalus may require Customer to pay an advance payment as a deposit upon terms determined by Tantalus and any such deposit amounts paid will be reflected as a

credit to the total purchase price due and owing upon delivery completion of the total Purchase Order. Payment terms are net thirty (30) days from date of Tantalus’ invoice. All payments shall be in U.S. dollars, unless otherwise agreed to between Tantalus and Customer. In addition to any other remedies Tantalus may have for late payments, Customer will be charged interest at 1½% per month (equivalent to an annual rate of interest of 18%), payable monthly on all overdue amounts. Customer shall also be responsible for collection costs associated with the late payment, if any, including reasonable attorney’s fees. Payments will be applied first to interest payable and then principal owing. Tantalus may modify the preceding payment terms if, in its reasonable opinion, the payment record or financial condition of Customer so justifies. Tantalus shall issue periodic invoices to Customer for all Maintenance and Support Services and Third-Party Products, as applicable, in accordance with the terms set forth in the Maintenance and Support Agreement as fees for such goods and services are incurred.

Delivery and Risk of Loss. Tantalus shall deliver the Network Equipment to Customer at the Shipping Point (cleared for export, if applicable) and title (other than title to Licensed Software which shall remain with Tantalus) and risk of loss of Network Equipment shall pass from Tantalus to Customer at the Shipping Point. If any loss of or damage to the Network Equipment occurs prior to delivery to Customer, regardless of passage of title prior to such delivery, Tantalus shall without cost to the Customer, promptly make all repairs or replacements necessary to place the Network Equipment in the condition required by these Terms. Customer will notify Tantalus within five (5) days of delivery of any damage to Network Equipment and/or within 10 days of shipping should an order not be received. If the Shipping Point and Destination are not the same, Customer shall be responsible for and shall pay all transportation and insurance costs for Network Equipment from the Shipping Point to the Destination, provided however that upon request by Customer, Tantalus shall make the arrangements for such transportation and insurance and will invoice Customer for reimbursement at cost. The payment terms described herein shall apply to such invoices, *mutatis mutandis*. Delivery dates are approximate only. Tantalus shall notify Customer in writing, if Tantalus has knowledge of any event that is reasonably likely to materially delay any specified delivery date or change any specified delivery date.

Third-Party Products. Unless otherwise specifically set forth in writing (and subject to applicable pass-through terms and conditions) upon mutual agreement of all involved Parties, Tantalus does not warrant Third-Party Products and disclaims all responsibility and liability for these items, their access to the Network Equipment, including their modification, deletion, disclosure or collection of Customer information.

Insurance. During all times in which Customer has possession of Network Equipment for which Tantalus has not received payment in full, Customer shall ensure that comprehensive general liability insurance with limits at least equal to the total value of all such Network Equipment is obtained and, upon request, provide Tantalus with a certificate evidencing such coverage.

Changes to Network Equipment. Tantalus reserves the right from time to time in its sole discretion to modify, change, discontinue or to limit its production of any Network Equipment at any time to allocate, terminate or limit deliveries of any Network Equipment in time of shortage and to alter the design or construction of any Network Equipment.

No Resell. Customer acknowledges and agrees that it has no rights to market and resell the Network Equipment. The purchase and sale of Network Equipment hereunder is solely for Customer and its Affiliates’ requirements.

Confidentiality. The parties have entered into a Mutual Non-Disclosure and Confidentiality Agreement prior to or simultaneously with execution of these Terms (“MNDA”). The parties agree that the MNDA governs the obligations of each party with respect to Confidential Information of the other party, which obligations shall survive termination of these Terms.

Warranty. With respect to new Network Equipment, for a period of one (1) year from the date of shipment of each unit of Network Equipment to Customer from Shipping Point, Tantalus warrants that: (i) each unit of Network Equipment will be free from defects in material, workmanship and manufacture under normal use and service, (ii) title to each unit of Network Equipment shall be free and clear of all liens, financial encumbrances and security interests, (iii) all materials, parts, components and other items initially incorporated in the Network Equipment will be new; and (iv) each unit of Network Equipment shall be compliant with, and perform in accordance with its Specifications. The warranty for replaced or repaired Network Equipment originally warranted under this paragraph shall be thirty (30) days from date of return to Customer or the balance of the original warranty period, whichever is greater. With respect to refurbished Network Equipment, for a period of 30 days from the date of shipment of refurbished Network Equipment to Customer from Shipping Point, Tantalus warrants that: (i) each unit of refurbished Network Equipment will be free from defects in material, workmanship and manufacture under normal use and service, (ii) title to each unit of refurbished Network Equipment shall be free and clear of all liens, financial encumbrances and security interests; and (iii) each unit of refurbished Network Equipment shall be compliant with, and perform in accordance with its Specifications. The aforementioned warranties apply only when all three of the following conditions prevail: (i) the unit of Network Equipment is owned by the original Customer and not by an assignee; (ii) the Customer is not the subject of bankruptcy or comparable proceedings; and (iii) while there is not an Excusing Event in effect or Tantalus has not invoked a subsisting remedy in respect of Force Majeure. The aforementioned warranties will not apply to Licensed Software which is sold “as is” with no warranty, in accordance with the applicable EULA, will not cover any Third-Party Products provided by Tantalus or Third-Party Products or services provided to Customer by third-party suppliers. Any

warranty for such products will be between Customer and the third-party manufacturer or supplier. To the fullest extent allowed, Tantalus will assign all third-party warranties to Customer.

Warranty Returns. For any breach of warranty, Tantalus' sole obligation shall be to, at its sole option and expense, repair or replace defective Network Equipment or refund the purchase price thereof, within 60 days of receipt of such defective Network Equipment at its designated depot, provided that the Customer has returned the defective Network Equipment to Tantalus no later than four weeks after the expiry of the applicable warranty period set forth herein. Customer will be responsible for removing defective Network Equipment from the installation point and returning the defective Network Equipment, transportation charges prepaid by Customer, to Tantalus at its designated depot, together with Tantalus' return material authorization ("RMA") number and completed problem sheet. Tantalus will be responsible for paying all shipping and other costs incidental to the return of repaired or replacement Network Equipment to Customer. Customer will be responsible for re-installing such repaired or replacement Network Equipment. To the extent Tantalus determines that the Network Equipment returned under warranty is not defective (that is, no fault found), Customer will pay for the return of the Network Equipment and will pay Tantalus the fee of US\$150 per no fault found Network Equipment. Tantalus will make available out-of-warranty repairs in accordance with its programs in effect at the relevant time. Services for out-of-warranty repairs will be provided at Tantalus' then current time and materials fees and rates.

No Warranty. The warranties described herein shall not apply to any units of Network Equipment which have been mistreated including without limitation the following: (i) units whose original bar code, copyright notices and proprietary legends, if any, have been altered; (ii) units that were not installed in accordance with the Specifications and Standards or serviced by Tantalus or a person authorized by Tantalus to do so; (iii) units that were the subject of repair, modification or alteration without Tantalus' approval; (iv) units damaged or defective because of reasonable wear and tear; (v) units that were not maintained and operated in accordance with the Specifications and Standards, including, without limitation, units damaged or defective because of problems with electrical power; (vi) units that in Tantalus' reasonable opinion have been misused, altered, abused or subject to abnormal conditions of operation or handling; or (ix) units damaged or defective due to an Excusing Event.

DISCLAIMER. TANTALUS DISCLAIMS ALL OTHER REPRESENTATIONS, WARRANTIES AND CONDITIONS, EXPRESS OR IMPLIED OR STATUTORY, INCLUDING ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT OF OTHER'S INTELLECTUAL PROPERTY RIGHTS AND DURABILITY.

Relief for patent and copyright matters. Tantalus, at its expense, shall defend any court suit brought against Customer by a third party alleging that units of Network Equipment purchased by Customer infringe US or Canadian patent or copyright. Tantalus' obligation to defend is effective only if Customer is not in breach of any of these Terms and of any other agreement between the parties, and if Tantalus is notified promptly and given complete information, assistance and authority by Customer to conduct the defense. If any unit of Network Equipment is adjudicated by a court of competent jurisdiction after appeals therefrom are exhausted, as infringing any US or Canadian patent or copyright or has its use enjoined by such court, Tantalus will, at its election: (i) procure for the Customer the right to continue using said unit; (ii) replace it with non-infringing and functional equivalent; (iii) modify it to become non-infringing; or (iv) if none of the aforementioned options are reasonably available, refund to Customer all amounts paid for the infringing Network Equipment, depreciated on a straight line basis over a ten (10) year period. Tantalus' obligation to defend includes the sole right to settle. Tantalus' obligation to defend does not apply to the following: (A) Network Equipment based on a design, specifications or instructions supplied or requested by Customer; (B) use of Network Equipment in combination with any other hardware or software not provided by Tantalus, if infringement would not have occurred but for such combination; (C) use of any release of Licensed Software or any firmware other than the most current release made available to Customer; (D) use of Network Equipment other than as permitted under these Terms, or as intended by Tantalus, if the infringement would not have occurred but for such use; or (E) modifications made to Network Equipment not made by Tantalus or approved by Tantalus. The foregoing states Tantalus' entire liability with respect to intellectual property infringement by any unit of Network Equipment. For the avoidance of doubt, Tantalus shall not have any liability hereunder relating to or arising from Third-Party Products.

General Indemnity. Tantalus shall defend, indemnify and hold Customer harmless from all loss, expense or damages (including without limitation, reasonable attorney's fees) which may be incurred by Customer as a result of any claims or actions resulting from: (a) damage to tangible personal property owned by Customer and caused by the gross negligence of Tantalus; and (b) death of or bodily injury to a Customer employee or third party to the extent caused by Tantalus' gross negligence. Customer will provide Tantalus with prompt, written notice of any claim covered by this indemnification. Unless Tantalus fails to defend Customer, Customer shall not undertake the defense of any such claim. Tantalus, at its sole expense, shall defend all such claims and actions against Customer, whether brought informally or through court or administrative procedures. For the avoidance of doubt, Tantalus shall not have any liability hereunder relating to or arising from Third-Party Products.

Customer Indemnity. The relationship of Tantalus and Customer established by these Terms are that of independent contractors and neither party is an employee, agent or joint venture of the other. All financial obligations associated with Customer's business are the sole responsibility of Customer. Except for warranty claims under these Terms, Customer shall indemnify, defend and hold harmless Tantalus from and against any and all claims, liabilities, damages, debts, settlements, costs, attorneys' fees, expenses and liabilities of any type whatsoever that may arise on account of Customer's activities, or those of its employees or agents, including, without limitation, (i) all sales and use taxes and similar charges arising in connection with the purchase of Network Equipment and Initial

Deployment Services hereunder and all other federal, state and municipal taxes, interest, fines and penalties arising in connection with Customer's business activities and (ii) those relating to Customer's use of the Network Equipment or Customer's breach of any term, representation or warranty of these Terms.

Limitations. NOTWITHSTANDING ANY OTHER PROVISION TO THE CONTRARY, OTHER THAN FOR GROSS NEGLIGENCE, WILLFUL MISCONDUCT OR FRAUD, NEITHER PARTY WILL BE LIABLE TO THE OTHER FOR ANY (I) SPECIAL, INDIRECT, CONSEQUENTIAL OR INCIDENTAL DAMAGES OR LOSSES INCLUDING, WITHOUT LIMITATION, LOSS OR CORRUPTION OF DATA, LOSS OF REVENUE, SAVINGS OR PROFITS, CLAIMS BY USERS AND THIRD PARTIES, LOSS OF GOODWILL, BUSINESS INTERRUPTION OR OTHER PECUNIARY LOSS WHETHER ARISING FROM BREACH OF WARRANTY OR CONDITION, BASED ON CONTRACT, TORT, RELIANCE, FUNDAMENTAL BREACH, STATUTE, OR ANY OTHER THEORY, AND EVEN IF SUCH PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES; OR (II) COST OF PROCUREMENT OF SUBSTITUTE GOODS, TECHNOLOGY OR SERVICES. NOTWITHSTANDING ANYTHING ELSE IN THESE TERMS AND WITHOUT LIMITING THE FOREGOING, TANTALUS WILL NOT BE LIABLE WITH RESPECT TO ANY SUBJECT MATTER OF THESE TERMS UNDER ANY CONTRACT, NEGLIGENCE, CIVIL LIABILITY, TORT, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR: (A) ANY AMOUNTS IN EXCESS OF THE AGGREGATE AMOUNTS PAID TO TANTALUS FOR NETWORK EQUIPMENT AND INITIAL DEPLOYMENT SERVICES GIVING RISE TO SUCH LIABILITY IN THE TWELVE (12) MONTH PERIOD IMMEDIATELY PRECEDING THE CLAIM; (B) ANY FAILURE OR DELAY DUE TO AN EXCUSING EVENT; OR (C) ANY ALLOCATION OF NETWORK EQUIPMENT AND INITIAL DEPLOYMENT SERVICES AMONG ITS CUSTOMERS IN THE EVENT OF A SHORTAGE. LIMITATIONS OF LIABILITY WILL NOT BE ASSERTED TO THE EXTENT PROHIBITED BY RELEVANT LAWS AND POLICIES. TANTALUS' PRICING REFLECTS THIS ALLOCATION OF RISKS AND THE LIMITATION OF LIABILITY.

Ownership of Intellectual Property. Except for licenses otherwise expressly granted under these Terms, the sale of Network Equipment hereunder does not convey to Customer any Proprietary Rights in the Network Equipment and Customer acknowledges Tantalus' exclusive rights thereto. Neither the sale of Network Equipment nor any provision of these Terms will be construed to grant to Customer, either expressly, by implication or by way of estoppel, any license under any other Proprietary Rights of Tantalus covering or relating to any other product or invention of Tantalus, or any combination of the Network Equipment with any other product of Tantalus.

Term. Unless terminated earlier as provided herein, these Terms shall have an initial term of one (1) year commencing on the execution date of these Terms ("Initial Term") and shall automatically renew for successive one (1) year periods thereafter, until terminated in accordance with these Terms (each, together with the Initial Term, the "Term").

Termination. Either party may terminate these Terms effective upon the delivery of written notice of such termination to the other party, if the other party: (i) becomes insolvent, is generally not paying its debts as such debts become due, makes an assignment for the benefit of creditors, is the subject of any voluntary or involuntary case commenced under the federal bankruptcy laws, as now constituted or hereafter amended (which, in the case of involuntary bankruptcy, is not dismissed within 30 days), or of any other proceeding under other applicable laws of any jurisdiction regarding bankruptcy, insolvency, reorganization, adjustment of debt or other forms of relief for debtors, has a receiver, trustee, liquidator, assignee, custodian or similar official appointed for it or for any substantial part of its property, or is the subject of any dissolution or liquidation proceeding; (ii) breaches its obligations related to confidentiality; or (iii) is in default in any material respect in the performance of any its obligations under of these Terms, provided that the party not at fault has given the other party forty five (45) days prior written notice of such default and such other party has not remedied the default during such 45-day cure period, provided however if the defaulting party is Customer and such default is attributable to or includes Customer's failure to pay any amount when due, then the aforementioned 45-day cure period will be reduced to five (5) days. Either party may terminate these Terms, at any time and for any reason, on ninety (90) days' prior written notice to the other party, provided however that if terminated by Customer, Tantalus shall take commercially reasonable efforts to cancel any deliveries to Customer which are scheduled to be made after the termination date. Customer shall be responsible for all amounts due to Tantalus arising prior to the termination date, including the cost of Network Equipment received by Customer, or that has been shipped within 45 days, following the date of the notice. Prior to the effective termination of these Terms, all of the terms and conditions of, and the respective rights and obligations of the parties to, these Terms will remain completely valid and enforceable; provided however that, in the event Tantalus terminates these Terms for cause, then any deliveries of Network Equipment and Initial Deployment Services to Customer which are scheduled to be made subsequent to the effective date of termination shall be cancelled and any product warranties or guarantees hereunder shall be terminated and of no further force and effect. Termination is not the sole remedy available under these Terms and, whether or not termination is effected; all other legal remedies will remain available. Notwithstanding anything to the contrary in these Terms, no expiration or termination of these Terms by either party shall affect (A) any rights or obligations of either party which are vested pursuant to these as of the effective date of such expiration or termination, and (B) any other provisions intended by the parties to survive such expiration or termination including, but not limited to, Purchase Orders accepted pursuant to these Terms.

Dispute Resolution. Except for Disputes related to nonpayment or as otherwise provided in this Section, neither Party shall resort to formal litigation proceedings until the Parties have attempted to resolve the Dispute through non-binding mediation. The Party raising a Dispute shall submit to the other Party a written notice and supporting material describing all issues and circumstances related to the Dispute (a "Dispute Notice"). A designated senior management representative of each Party shall attempt to resolve the Dispute. If the Parties' Representatives fail to resolve the Dispute within thirty (30) days from receipt

of a Dispute Notice, the Dispute shall be referred to a mediator in the jurisdiction provided for in these Terms as mutually agreed between the Parties. The Parties covenant that they will use commercially reasonable efforts in participating in the mediation. The Parties agree that the mediator's fees and expenses and the costs incidental to the mediation will be shared equally between the parties. The Parties further agree that all offers, promises, conduct, and statements, whether oral or written, made in the course of the mediation by any of the Parties, their agents, employees, experts, and attorneys, and by the mediator and any employees of the mediation service, are confidential, privileged, and inadmissible for any purpose, including impeachment, in any litigation, arbitration or other proceeding involving the parties, provided that evidence that is otherwise admissible or discoverable shall not be rendered inadmissible or non-discoverable as a result of its use in the mediation. If the Parties cannot resolve any Dispute for any reason, including, but not limited to, the failure of either party to agree to enter into mediation or agree to any settlement proposed by the mediator, within thirty (30) days after the later of the referral to a mediator or the mediation proceeding, either Party may file suit in a court of competent jurisdiction in accordance with these Terms. These Terms shall not be construed to prevent a Party from instituting litigation proceedings earlier than as indicated in these Terms to: (a) avoid the expiration of any applicable limitations period, (b) preserve a superior creditor position or (c) seek injunctive relief to prevent irreparable harm, including without limitation, harm caused by a breach of confidentiality obligations.

Notices. All notices under these Terms must be made in writing and shall be deemed properly delivered when: (i) delivered personally, (ii) sent by e-mail to the address below, delivery confirmation required, or (iii) mailed by certified mail, postage prepaid or overnight delivery service to the address of the other Party set forth below or sent by facsimile (provided confirmation of delivery is obtained at the time of transmission). Communications must be addressed to Tantalus as follows: Peter A. Londa, President & CEO Tantalus Systems Inc., 1130 Situs Court, Suite 230, Raleigh, NC 27606; Facsimile: (919) 900-8978; E-mail: legal_dept@tantalus.com and to Customer at the address noted below. Unless expressly set out to the contrary herein, consent or approval that is explicitly required herein of a Party hereto will not be unreasonably delayed, withheld or withdrawn by it. Either Party may change the address for service by giving 15 days' advance written notice to the other Party.

Severability. If any term or other provision of these Terms is invalid, illegal or incapable of being enforced by any rule or Law, all other conditions and provisions of these Terms shall nevertheless remain in full force and effect so long as the economic or legal substance of the transactions contemplated hereby is not affected in any manner materially adverse to any Party. Upon such determination that any term or other provision is invalid, illegal or incapable of being enforced, the Parties hereto shall negotiate in good faith to modify these Terms so as to effect the original intent of the Parties as closely as possible in an acceptable manner to the end that transactions contemplated hereby are fulfilled to the extent possible.

Amendment and Waiver. No amendment or waiver of any provision of these Terms shall be effective unless it is in writing and signed by the party against which it is sought to be enforced. No waiver by any party or any breach or series of breaches in performance by the other party, and no failure, refusal or neglect to exercise any right, power or option given to either party to insist upon strict compliance with or performance of the obligations hereunder, will constitute a waiver of the provisions hereof with respect to any subsequent breach thereof or a waiver by such party of its right at any time thereafter to require strict compliance with the provisions hereof.

Governing Law. These Terms shall be governed and construed in accordance with the laws of the State of Delaware (without giving effect to its conflict of law's provisions which would lead to the application of the laws of another jurisdiction). If either Party employs attorneys to enforce any rights arising out of or relating to these Terms, the prevailing Party shall be entitled to recover actual, reasonable attorneys' fees. Except to the extent necessary to obtain jurisdiction over a third party, any legal action, suit or proceeding arising out of these Terms shall be brought solely and exclusively in Wake County, North Carolina, and each Party irrevocably accepts and submits to the sole and exclusive jurisdiction of tribunals in Wake County, North Carolina. Tantalus and Customer waive a trial by jury in any such suit, action or proceeding.

Force Majeure. No default, delay or failure to perform on the part of either Party shall be considered a breach of these Terms where such default, delay or failure is due to a Force Majeure. Lack of funds or credit will not constitute a Force Majeure. In the event of a Force Majeure, the Impacted Party shall promptly give notice of the Force Majeure Event to the other party, stating the period of time the occurrence is expected to continue. The Impacted Party shall use diligent efforts to end the failure or delay and ensure the effects of such Force Majeure Event are minimized. The Impacted Party shall resume the performance of its obligations as soon as reasonably practicable after the removal of the cause.

Compliance with Laws. Each Party shall, at its own cost and expense, comply with all applicable Laws relating to the subject matter of these Terms.

Successors and Assigns. These Terms bind, and inures to the benefit of, the parties and their respective successors. These Terms shall not be assigned by either party without the prior written consent of the other party, except that Customer agrees that Tantalus may assign, without notice to Customer, any account receivable arising under these Terms in connection with a factoring arrangement.

Further Assurance. Each Party undertakes with the other Party that it will execute such documents (including, without limitation, any applicable attachments to these Terms) and do such acts and things as that other Party may reasonably require for the purpose of giving to that other Party the full benefit of the provisions of these Terms.

Relationship of the Parties. The relationship of Tantalus and Customer established by

these Terms is that of independent contractors and neither party is an employee, agent or joint venture of the other. No rights or obligations other than those expressly recited herein are to be implied from these Terms. Specifically, nothing in these Terms shall create a fiduciary relationship between the disclosing party and the receiving party. No license or other right is hereby granted directly or indirectly to use in any way, any patent, copyright or other proprietary right now held by, or which may be obtained by, or which is or may be licensed by, either Party.

Definitions and Interpretation. "Acceptance" or "System Acceptance" means that the system acceptance tests set forth in the System Acceptance Test Plan as set forth in the attachments hereto have been completed and all requirements of Acceptance as set forth in attachments hereto were met. "Affiliate" means, with respect to any Party, any legal entity that such Party owns, is owned by, or is under common control with such Party. For purposes of the foregoing definition of "Affiliate", the terms "control" and "own" mean possessing a 50% or greater interest in an entity or the right to direct the management of the entity. "Business Day" means any day that is not a Saturday, Sunday or a Tantalus authorized "holiday". "Confidential Information" has the meaning set forth in the MNDCA. "Destination" means Customer's designated destination point for the delivery of Network Equipment. "Dispute" means any dispute, controversy, difference or claim, arising under or in connection with these Terms, including its formation, validity, binding effect, interpretation, performance, breach or termination, as well as non-contractual claims. "Excusing Event" means any (i) Force Majeure; (ii) failure, act or omission of Customer or its agents, employees, suppliers, subcontractors or consultants, including without limitation improper performance of Customer's responsibilities under these Terms, or unreasonable delay or failure of Customer to approve changes that are relevant to an applicable failure; (iv) failure, act or omission of any third party (including any third-party supplier) or its agents, employees, suppliers, subcontractors or consultants; or (v) failure of any components (hardware, software, network, maintenance) provided and/or maintained by Customer. "EULA" means Tantalus' then current end-user software license agreement setting forth the terms and conditions of Customer's permitted use of the Licensed Software. "Force Majeure" means any failure or delay in fulfilling or performing any of these Terms (except for any obligations to make payments to the other party hereunder), when and to the extent such failure or delay is caused by or results from the following force majeure events ("Force Majeure Event(s)"): (a) acts of God; (b) flood, fire, earthquake, epidemics, pandemics or explosion; (c) war, invasion, hostilities (whether war is declared or not), sabotage, terrorist threats or acts, riot or other civil unrest; (d) government order or law; (e) actions, embargoes or blockades in effect on or after the date of these Terms; (f) judicial restraint or other action by any governmental authority (including, without limitation, an inability to procure permits, licenses or authorizations from any local, state, or federal agency for any of the supplies, materials, accesses or services required to be provided by either Customer or Tantalus under these Terms); (g) national or regional emergency; (h) strikes, labor stoppages or slowdowns or other industrial disturbances; (i) shortage of adequate power or transportation facilities; and (j) other similar events beyond the reasonable control of the party impacted by the Force Majeure Event (the "Impacted Party"). "Initial Deployment Services" means (i) Tantalus' standard services for initial deployment, installation and configuration of Tantalus products purchased by Customer under these Terms as described in a Statement of Work, as mutually agreed between the Parties; (ii) Tantalus' standard initial training services for the Customer; and (iii) related project management for such initial deployment and training. For clarity, and notwithstanding anything to the contrary, the Initial Deployment Services do not include integration or installation of field equipment (i.e. meters, collectors, repeaters, etc.), Third-Party Products, or Maintenance and Support Services. Integration to existing vendor supported interfaces are included in the Initial Deployment Services. For the avoidance of doubt, custom services, including custom integration(s) between the Network Equipment and Third-Party Products that are not existing vendor supported interfaces, are not included in the Initial Deployment Services and are subject to additional fees and written agreement between Tantalus, Customer and any applicable third-party in the form of a written Change Order. "Law" means any statute, law, ordinance, regulation, rule, code, constitution, treaty, common law, governmental order, or other requirement or rule of law of any governmental authority. "Licensed Software" means all Tantalus software and firmware residing on, or provided in connection with, each unit of Network Equipment purchased under these Terms, together with all software documentation related thereto and any and all updates thereto. The terms and conditions of the EULA will apply to the Licensed Software provided to Customer. "Licensed Software Maintenance Services" shall have the meaning ascribed to them in Addendum A-1 of the EULA. "Maintenance and Support Services" means the recurring Licensed Software Maintenance Services and Technical Support provided by Tantalus to Customer pursuant to the Maintenance and Support Agreement entered by and between Tantalus and Customer. "Network Equipment" means the equipment manufactured by or for Tantalus for use as part of the Tantalus Grid Modernization Platform™ ("TGMP") and its associated Licensed Software that are or will be purchased from Tantalus hereunder as set forth on a Purchase Order (from time to time). For clarity, Network Equipment does not include the system backhaul, network operations center, meters or any Third-Party Products. "Proprietary Rights" means all patent rights, copyrights, trademarks, tradenames, know-how, trade secrets and other intellectual property and proprietary rights, including all rights, interests, and protections that are associated with, equivalent or similar to, or required for the exercise of, any of the foregoing, however arising, in each case whether registered or unregistered and including all registrations and applications for, and renewals or extensions of, these rights or forms of protection under the Laws of any jurisdiction throughout in any part of the world. "Purchase Orders" means purchase orders issued, from time to time, by Customer to Tantalus pursuant to which Customer will purchase Network Equipment and Initial Deployment Services in accordance with these Terms. Each Purchase Order will be deemed to include these Terms, even if not specifically stated on the Purchase Order. "Representative" means such Party's directors, officers, employees, agents, consultants, legal counsel, accountants and financial advisors of a Party to these Terms. "Shipping Point" means the designated depot or depots in North America selected by Tantalus as its shipping point for Network Equipment. "Specifications" means the design, performance and regulatory requirements for each Network Equipment, as such may be amended from time to time by Tantalus, which



Specifications will assume and require the installation, maintenance and operation of such Network Equipment in accordance with the Standards. "Standards" means the applicable industry standards necessary for the proper installation, maintenance and operation of Network Equipment, as may be amended from time to time by Tantalus, including, without limitation, the maintenance of a distribution system meeting industry standards with respect to grounding and power quality and the use of water pits for the installation of Network Equipment that properly drain and are not otherwise defective. "Statement of Work (SOW)" means a document that defines the scope of work to be completed, the timelines for the overall project, provides visibility into the interdependencies required, and will assist all parties in understanding and executing their respective roles, responsibilities and tasks to successfully deploy the Network Equipment. Upon commencement of the Initial Deployment Services, Tantalus and Customer will work cooperatively to develop and finalize a Statement of Work. "Technical Support" means the technical support services described in the Maintenance and Support Agreement. "Third-Party Product" means any products, software, materials, information or services that are manufactured, provided and/or licensed by, or otherwise proprietary to, a person or entity other than Tantalus. Interpretation Not Affected by Headings, etc. The division of these Terms into sections and other portions and the insertion of headings are for convenience of reference only and shall not affect the construction or interpretation hereof. Number, etc. Unless the context otherwise requires, words importing the singular shall include the plural and vice versa and words importing any gender shall include all genders. Date for Any Action. In the event that any date on which any action is required to be taken hereunder by any of the parties hereto is not a Business Day, such action shall be required to be taken on the next succeeding day which is a Business Day. Construction. In these Terms, unless otherwise indicated:(a) the terms "these Terms", "hereof", "herein", "hereunder" and

"hereby" and similar expressions refer to these Terms (including the schedules hereto), as amended or supplemented from time to time pursuant to the applicable provisions hereof, and not to any particular section or other portion hereof; (b) the words "include", "including" or "in particular", when following any general term or statement, shall not be construed as limiting the general term or statement to the specific items or matters set forth or to similar items or matters, but rather as permitting the general term or statement to refer to all other items or matters that could reasonably fall within the broadest possible scope of the general term or statement; (c) time is of the essence; and (d) references to a "party" or "parties" are references to a Party or Parties to these Terms. Authorship. Authorship of these Terms will have no bearing on the construction of any terms hereof or ambiguities thereof.

Execution. These Terms may be executed in one or more counterparts, all of which shall be considered one and the same agreement and shall become effective when one or more counterparts have been signed by each of the Parties and delivered to the other Parties. These Terms may be executed and delivered electronically or by facsimile and the Parties agree that such facsimile or electronic execution and delivery shall have the same force and effect as delivery of an original document with original signatures, and that each party may use such facsimile or electronic signatures as evidence of the execution and delivery of these Terms by all Parties to the same extent that an original signature could be used.

Quotation as Purchase Order. Signature below shall constitute submission by the Customer and acceptance by Tantalus of the foregoing quotation as an authorized Purchase Order for the equipment and services listed thereon, subject to the foregoing Terms. The Purchase Order may not be modified, added to or rescinded except through mutual agreement and acceptance in writing by both Parties.

AGREED AND ACCEPTED:

TANTALUS SYSTEMS INC.

BY: _____
Name: _____
Title: _____
Date: _____

Eldridge Municipal Utilities IA

BY: _____
Name: _____
Title: _____
Date: _____

Customer Address for Notices:

Eldridge Municipal Utilities IA

Facsimile: _____
E-mail: _____

The following attachments, as applicable, are incorporated into and form an integral part of these Terms and shall be executed, as applicable, concurrently with or prior to the execution of these Terms by the Parties:

- [Maintenance and Support Agreement](#)
- [End User License Agreement](#)
- [MND A](#)

	2022-23 ACTUAL	2023-24 ACTUAL	2024-25 ACTUAL	2025-26 BUDGET	2025-26 ESTIMATED	2026-27 REQUESTED	BUDGET NOTES
600-WATER							
BEGINNING BALANCE WATER FUND RESERVES			\$1,507,892	\$1,292,975		\$1,472,146	
LESS AMT NEEDED TO BALANCE BUDGET							
BALANCE WATER FUND RESERVES			\$1,292,975				

600-WATER REVENUES							
600-4-810-2-4300 INVESTMENT INTEREST	\$12,434	\$24,185	\$40,234	\$23,165	\$25,150	\$24,000	
600-4-810-1-4501 MANUAL SALES	\$11,227	\$12,469	\$9,371	\$12,000	\$11,600	\$11,000	
600-4-810-1-4502 FROM ELECTRIC DEPARTMENT	\$68	\$0	\$12	\$0	\$0	\$0	
600-4-810-1-4507 SALES	\$881,821	\$937,257	\$996,196	\$1,075,000	\$1,073,020	\$1,134,715	5.75% Water Rate Increase effect 8/1/26
600-4-810-1-4508 SALES TO CITY	\$4,481	\$5,696	\$8,168	\$5,500	\$5,500	\$5,500	
600-4-810-1-4540 CONNECTION FEES	\$12,328	\$18,710	\$14,881	\$13,443	\$35,000	\$17,000	
600-4-810-1-4541 SPECIAL FEES		\$0	\$0	\$0	\$0	\$0	
600-4-810-1-4550 SPRINKLER/FIRE PROTECTION	\$15,630	\$12,235	\$1,620	\$13,000	\$25,500	\$15,000	
600-4-810-1-4752 SALE OF SUPPLIES		\$0	\$1,375	\$0	\$300	\$0	
600-4-810-2-4710 REIMBURSEMENT	\$2,782	\$8,013	\$0	\$0	\$1,115	\$0	
600-4-810-2-4725 SALES/TAX REFD/REIMBURSEMTN		\$333	\$10,807	\$0	\$0	\$0	
600-4-810-4-4820 G.O. BOND PROCEEDS		\$0	\$49	\$0	\$0	\$0	
600-4-810-4-4830 TRANSFERS IN		\$0	\$0	\$0	\$0	\$0	
600-4-810-4832 NON OPERATNG TRANSFER		\$0	\$0	\$0	\$0	\$0	
600-4-810-4-4900 SALES TAX - MANUAL	\$300	\$57	\$0	\$0	\$0	\$0	
600-4-810-4-4901 SALES TAX	\$20	\$2	\$7	\$0	\$445	\$0	
600-4-810-4-4902 WATER EXCISE TAX	\$47,851	\$54,323	\$57,030	\$50,687	\$62,045	\$53,975	
600-4-810-4-4925 COLLECTIONS		\$0		\$0	\$0	\$0	
600-4-810-4-4999 TOWER RENTAL	\$24,861	\$36,302	\$26,414	\$23,000	\$30,475	\$29,500	
600-WATER REVENUES	\$1,013,803	\$1,109,582	\$1,166,162	\$1,215,795	\$1,270,150	\$1,290,690	

600-WATER EXPENDITURES								
600-5-810-6010 WAGES REGULAR	\$153,564	\$219,954	\$225,146	\$301,025	\$282,300	\$325,000	Super; Adm Mng; 2 WTP Op; 2 UB Clerk; 25% Mechanic (3% Increase)	
600-5-810-6020 WAGES PART TIME	\$13,607	\$13,010	\$9,568	\$7,000	\$3,478	\$3,000	Possible 1 PTE	
600-5-810-6040 WAGES OVERTIME	\$20,041	\$13,770	\$5,289	\$11,000	\$8,875	\$11,000		
600-5-810-6041 COMPENSATED ABSENCE ADJ			\$23,145	\$0	\$0	\$0		
600-5-810-6110 FICA	\$18,838	\$18,224	\$17,641	\$24,410	\$22,550	\$25,935	7.65% Wages	
600-5-810-6130 IPERS	\$70,250	\$13,301	\$7,191	\$30,120	\$27,500	\$31,720	9.44% Wages	
600-5-810-6150 GROUP INSURANCE	\$22,922	\$28,867	\$35,995	\$43,000	\$38,460	\$40,665	Add'l Staff	
600-5-810-6160 WORKMEN'S COMP INSURANCE	\$3,094	\$3,193	\$2,486	\$2,800	\$2,115	\$2,330	CWG (Water 25% of Utility W/C Bill) Budget 10% Increase	
600-5-810-6181 PPE & CLOTH ALLOW	\$830	\$1,699	\$3,106	\$4,000	\$3,500	\$2,500	PPE & Cloth Allow (Add'l Staff)	
600-5-810-6213 DUES AND LICENSES	\$11,270	\$11,602	\$10,785	\$12,000	\$8,900	\$12,000	SGEI \$7,000/YR	
600-5-810-6230 SCHOOLS & CONFERENCES	\$2,721	\$2,121	\$4,980	\$6,000	\$4,000	\$5,000	CDLs included	
600-5-810-6240 TRAVEL AND CONFERENCES	\$2,310	\$1,080	\$1,935	\$0	\$225	\$0		
600-5-810-6310 PLANT & SYSTEM MAINTENANCE	\$35,705	\$77,733	\$56,832	\$75,000	\$47,255	\$80,000	River Cities Generator transfer switch, LMI Well Soft Starts, Petersen Plumbing HVAC	
600-5-810-6311 WATER PLANT MAINTENANCE	\$14,717	\$17,414	\$37,962	\$40,000	\$64,175	\$40,000	Replacement cost for Chlorine Scales & Controllers \$7,638	
600-5-810-6331 VEHICLE O&M	\$7,447	\$5,903	\$4,630	\$10,000	\$5,700	\$10,000	GPS/Telematics (\$1,0077)	
600-5-810-6332 VEHICLE MAINTENANCE	\$2,009	\$4,604	\$1,365	\$0	\$2,144	\$0		
600-5-810-6350 EQUIPMENT REPAIR		\$0		\$0	\$0	\$0		
600-5-810-63501 SYSTEM REPAIR		\$0	\$10,239	\$0	\$0	\$0		
600-5-810-6360 TO EQUIP REPLACEMENT		\$0		\$0	\$0	\$0		
600-5-810-6371 INTERGOV/UTILITIES	\$62,988	\$60,905	\$61,340	\$65,000	\$62,302	\$70,000		
600-5-810-63711 OPERATING SUPPLIES & MATERIAL	\$44,149	\$50,335	\$49,596	\$0	\$0	\$0		
600-5-810-6373 PHONE & IT	\$6,189	\$11,808	\$11,573	\$12,000	\$17,700	\$22,000	CST; VERIZON; SHARED IT; TAS; Prec Concepts; CIVIC PLUS; Samsara; Itron, de Novo	
600-5-810-6401 AUDIT		\$1,612	\$2,706	\$5,000	\$2,000	\$5,000		
600-5-810-6404 BAD DEBTS	(\$12,863)	\$1,603	\$4,337	\$0	\$0	\$0		
600-5-810-6407 ENGINEERING & MAPPING	\$19,721	\$24,108	\$40,800	\$28,000	\$8,570	\$25,000	ROV Inspections	
600-5-810-6408 GENERAL INSURANCE	\$16,712	\$20,781	\$22,740	\$22,000	\$24,015	\$20,000		
600-5-810-6411 LEGAL SERVICES-GENERAL		\$1,120	\$17,197	\$7,000	\$5,615	\$8,000		
600-5-810-6412 EMP MEDICAL REIMBURSEMENT		\$0		\$0	\$0	\$0		
600-5-810-6414 PUBLISHING	\$167	\$900	\$0	\$500	\$0	\$500		
600-5-810-6418 WATER EXCISE TAX	\$45,289	\$57,332	\$56,089	\$50,687	\$62,045	\$55,000		
600-5-810-6420 MAPPING	\$1,160	\$1,015	\$1,115	\$0	\$0	\$0		
600-5-810-6440 RENTS & PERMITS	\$0	\$0	\$0	\$0	\$0	\$0		
600-5-810-6451 WATER TESTING	\$6,002	\$11,561	\$5,890	\$10,000	\$3,595	\$8,000	Wells 3&4 PFAS \$1,500 each; Bac-T's	
600-5-810-6452 TOWER PAINTING		\$0		\$0	\$0	\$0		
600-5-810-6453 TANK INTERIOR MAINTENANCE		\$3,400	\$0	\$0	\$0	\$0		
600-5-810-6501 TREATMENT/LAB EQUIP & MATERIALS	\$33,606	\$37,074	\$37,360	\$60,000	\$67,650	\$60,000		
600-5-810-6506 OFFICE SUPPLIES	\$522	\$1,438	\$3,833	\$2,000	\$1,280	\$2,000		
600-5-810-6508 POSTAGE	\$406	\$362	\$367	\$1,000	\$350	\$1,000		
600-5-810-6520 OTHER CONTRACTED SERVICE	\$26,044	\$18,981	\$766	\$0	\$5	\$0		
600-5-810-6560 METERS & INVENTORY	\$13,052	\$24,710	\$28,970	\$25,000	\$68,700	\$80,000	Meter, Meter Gaskets; & Radio Order	
600-5-810-6601 MISC ADMINISTRATION			\$0	\$4,000	\$1,350	\$5,000	DSI Pre-Employ/BSI/Random Testing; Admin Expenses, Y at Work	
600-5-810-6605 CONTINGENCIES		\$0	\$0	\$83,254	\$37,575	\$51,040	Wish List Items	
600-5-810-6705 TEST EQUIPMENT		\$1,428	\$6,489	\$0	\$0	\$0		
600-5-810-6723 OPERATIONS EQUIP & MATERIALS	\$24	\$0	\$7,071	\$80,000	\$42,700	\$75,000	Salamander Heater & 480V Plug	
600-5-810-6730 LAND/OTHER CAPITAL		\$0		\$0	\$0	\$0		
600-5-810-6752 MINOR PROJECTS	\$41,768	\$20,200	\$70,243	\$50,000	\$50,000	\$50,000	Minor Capital Projects	
600-5-810-6765 MINOR PROJECTS	\$20,192	\$19,242	\$0	\$0	\$0	\$0		
600-5-810-6780 MAJOR PROJECTS	\$95,282	\$44,337	\$49,791	\$130,499	\$105,700	\$110,000		
600-5-810-6912 TO INSURANCE SELF-FUNDING	\$5,000	\$10,000	\$10,000	\$0	\$0	\$0	821-4-690-4-4830 to insurance self funding	
600-5-810-6917 TRANSFERS TO OTHER FUNDS	\$300,000	\$300,000	\$400,000	\$0	\$0	\$40,000	604-4-810-4-4830 to water projects	
600-5-810-6920 TO CITY	\$13,500	\$14,830	\$13,500	\$13,500	\$13,500	\$14,000	001-4-810-2-4713 to general fund	
600-WATER EXPENDITURES	\$1,118,237	\$1,171,557	\$1,360,067	\$1,215,795	\$1,095,829	\$1,290,690		

603-WATER DEPRECIATION

BEGINNING BALANCE WATER DEPRECIATION FUND RESERVES			\$453,848	\$442,447		\$442,447	
LESS AMT NEEDED TO BALANCE BUDGET						\$50,000	
BALANCE WATER DEPRECIATION FUND RESERVES			\$442,447			\$392,447	

603-WATER DEPRECIATION REVENUES							
603-4-810-4-4810 SALE OF EQUIPMENT						\$15,000	Sell Unit #345
603-4-810-4-4830 TRANSFERS IN			\$0	\$0	\$0	\$0	600-5-810-6360 from water expenditures
603-WATER DEPRECIATION REVENUES	\$0	\$0	\$0	\$0	\$0	\$65,000	

603-WATER DEPRECIATION EXPENDITURES							
603-5-810-6360 DEPRECIATION EXPENSE						\$65,000	New Pickup Truck to Replace Unit #345
603-5-810-6705 TEST EQUIPMENT							
603-5-810-6710 AUTOMOTIVE ITEMS							
603-5-810-6727 OTHER EQUIPMENT		\$43,189	\$11,402	\$0	\$0	\$0	
603-WATER DEPRECIATION EXPENDITURES	\$0	\$43,189	\$11,402	\$0	\$0	\$65,000	

604-WATER PROJECTS

BEGINNING BALANCE WATER PROJECTS FUND RESERVES			\$709,007	\$1,093,323		\$500,619	
LESS AMT NEEDED TO BALANCE BUDGET				\$1,000,000	\$592,704	\$235,000	
BALANCE WATER PROJECTS FUND RESERVES			\$1,093,323	\$93,323		\$265,619	

604-WATER PROJECTS REVENUES							
604-4-810-3-4715 REFUNDS					\$85,000	\$0	
604-4-810-4-4830 TRANSFERS IN	\$300,000	\$300,000	\$400,000	\$0	\$0	\$40,000	600-5-810-6917 from water expenditures
604-WATER PROJECTS REVENUES	\$300,000	\$300,000	\$400,000	\$1,000,000	\$677,704	\$275,000	

604-WATER PROJECTS EXPENDITURES							
604-5-810-6407 ENGINEERING			\$60,788	\$100,000	\$54,550	\$25,000	
604-5-810-6730 LAND/OTHER CAPITAL							
604-5-810-6750 CAPITAL PROJECTS			\$9,500	\$900,000	\$623,154	\$250,000	Clearwell & Chlorine Room Project \$200,000
604-5-810-6780 CAPITAL - SYSTEM	\$397,294	\$0	\$0				**Aerator & Detention Tank Project \$400k-\$450k ~ Poss. SRF Const. Loan
604-WATER PROJECTS EXPENDITURES	\$397,294	\$0	\$70,288	\$1,000,000	\$677,704	\$275,000	

TOTAL WATER REVENUE	\$1,313,803	\$1,409,582	\$1,566,162	\$2,215,795	\$1,947,854	\$1,630,690	
TOTAL WATER EXPENSE	\$1,515,531	\$1,214,746	\$1,441,757	\$2,215,795	\$1,773,533	\$1,630,690	

	2022-23 ACTUAL	2023-24 ACTUAL	2024-25 ACTUAL	2025-26 BUDGET	2025-26 ESTIMATED	2026-27 REQUESTED	BUDGET NOTES
630-ELECTRIC							
BEGINNING BALANCE ELECTRIC FUND RESERVES			\$6,627,773	\$7,660,811		\$8,233,908	
LESS AMT NEEDED TO BALANCE BUDGET				\$0			
BALANCE SEWER ELECTRIC FUND RESERVES			\$7,660,811				
630-ELECTRIC REVENUES							
630-4-820-4-4200 LOAN PAYMENTS							
630-4-820-4-4201 LOAN REPAYMENTS							
630-4-820-2-4300 INVESTMENT INTEREST	\$111,903	\$217,668	\$369,346	\$200,000	\$316,980	\$400,000	
630-4-820-1-4501 MANUAL SALES			\$2,754	\$0		\$0	
630-4-820-1-4504 ELECTRIC SALES TO WATER		\$0	\$39,720	\$39,083	\$39,402	\$43,000	Intergovernmental
630-4-820-1-4506 TRANSMISSION SALES	\$110,204	\$111,961	\$113,097	\$113,580	\$113,592	\$113,681	Cedar Falls
630-4-820-1-4507 RETAIL SALES	\$3,146,257	\$3,263,759	\$3,367,487	\$3,229,098	\$3,736,092	\$3,500,000	
630-4-820-1-4502 MISO WS4 LOUISA SALES	\$1,898,507	\$889,125	\$1,129,051	\$1,214,854	\$1,684,735	\$1,200,000	
630-4-820-1-4503 SOLAR CUSTOMERS	\$2,457	\$2,067		\$2,234	\$2,640	\$2,500	Solar
630-4-820-1-4508 SALES TO CITY	\$65,824	\$58,329	\$22,659	\$22,519	\$23,300	\$24,000	Intergovernmental
630-4-820-1-4509 POWER COST ADJUSTMENT	\$1,172,635	\$375,567	\$396,273	\$264,531	\$718,000	\$500,000	next 3 months credit - potentially next 6 months
630-4-820-1-4510 POLE RENTAL	\$4,106	\$2,415	\$0	\$2,400	\$4,806	\$2,673	Mediacom in past - 1690.50 - Windstream - 57 poles at 12.50 = 712.50 - \$2403
630-4-820-1-4511 ELECTRIC SALES STREET LIGHT	\$43,037	\$41,709	\$36,365	\$45,000	\$44,412	\$47,607	
630-4-820-1-4540 CONNECTION FEES	\$7,000	\$10,750	\$12,250	\$7,500	\$22,715	\$20,000	NEW BUILD PERMITS/CONNECTION FEES
630-4-820-1-4542 RE-CONNECTION FEES	\$3,302	\$2,391	\$2,595	\$2,200	\$2,575	\$3,000	DIS- AND RE-CONNECT FEES (NONPAYMENT)
630-4-820-1-4752 SALE OF SUPPLIES		\$6,000	\$1,375	\$0	\$705	\$0	
630-4-820-2-4710 REIMBURSEMENT-GENERAL	\$31,104	\$91,209	\$39,912	\$10,000	\$9,260	\$15,000	Bill Back to Developers/Contractors
630-4-820-4-4820 G.O. BOND PROCEEDS				\$0	\$0	\$0	
630-4-820-4-4830 TRANSFERS IN				\$0	\$0	\$0	
630-4-820-4-4900 SALES TAX - MANUAL	\$1,125	\$2,589		\$0	\$0	\$0	
630-4-820-4-4901 SALES TAX	\$96,930	\$78,915	\$80,176	\$79,385	\$110,181	\$80,000	
630-4-820-4-4925 COLLECTIONS				\$0	\$0	\$0	
630-4-820-4-4999 MISCELLANEOUS	\$33,510	\$2,390	-\$2,779	\$0	\$0	\$0	
630-4-820-6-150 BENEFIT EXP	(\$3,561)			\$0	\$0	\$0	
630-ELECTRIC REVENUES	\$6,724,341	\$5,156,844	\$5,610,283	\$5,232,384	\$6,829,395	\$5,951,461	

630-ELECTRIC EXPENDITURES							
630-5-820-6010 WAGES REGULAR	\$434,258	\$387,287	\$390,436	\$519,986	\$508,536	\$585,586	Includes 2nd Journeyman - Devin will step up -3% - Collin Increase; Add contr. To Dep Clerk
630-5-820-6015 UTILITY BOARD SALARY	\$3,300	\$3,240	\$3,390	\$3,600	\$3,240	\$3,600	
630-5-820-6020 WAGES-PARTTIME	\$274	\$1,514	-\$1,283	\$0	\$0	\$0	
630-5-820-6040 WAGES-OVERTIME	\$9,462	\$7,092	\$2,081	\$8,000	\$5,245	\$8,000	
630-5-820-6041 COMPENSATED ABSENCE ADJ			\$45,602				
630-5-820-6110 FICA	\$35,111	\$32,711	\$28,870	\$40,391	\$39,555	\$41,860	
630-5-820-6130 IPERS	\$42,007	\$37,686	\$36,586	\$49,842	\$48,501	\$51,315	
630-5-820-6150 GROUP INSURANCE	\$58,856	\$57,489	\$27,142	\$59,890	\$31,240	\$33,575	
630-5-820-6160 WORKMEN'S COMP INSURANCE	\$8,944	\$9,578	\$7,067	\$8,500	\$6,570	\$7,250	
630-5-820-6181 CLOTHING ALLOWANCE	\$3,184	\$3,186	\$2,740	\$6,000	\$5,675	\$1,650	
630-5-820-6182 PPE						\$5,000	New Line for PPE
630-5-820-6230 TRAINING	\$4,915	\$1,844	\$8,373	\$20,000	\$11,220	\$30,000	IAMU; SCHOOLS/CONFERENCES; SGEI - \$12,114/YR
630-5-820-6240 TRAVEL AND CONFERENCES	\$4,869	\$2,479	\$6,207	\$0	\$2,645	\$0	
630-5-820-6310 B & G MATERIAL	\$7,359	\$7,266	\$11,701	\$10,000	\$7,170	\$10,000	
630-5-820-6319 COMPUTER MAINTENANCE	\$18,379	\$26,559	\$28,695	\$55,000	\$3,175	\$30,000	Civic Plus, Shared IT, DeNovo
630-5-820-6331 VEHICLE OPERATION	\$14,769	\$7,764	\$5,025	\$11,000	\$5,330	\$8,000	Fuel - Agvantage & Wex; GPS/Telematics (\$718)
630-5-820-6332 VEHICLE MAINTENANCE	\$11,539	\$9,626	\$6,657	\$10,000	\$4,215	\$10,000	
630-5-820-6340 OFFICE EQUIPMENT MAINTENANCE	-\$960	\$3,426	\$3,776	\$4,000	\$2,685	\$3,547	Access - Copier lease New lease amounts 188.01 & 107.57
630-5-820-6360 TO EQUIP REPLACEMENT	\$85,000	\$0	\$83	\$50,000	\$50,000	\$50,000	635-4-820-4-4830 to equipment replacement
630-5-820-6371 UTILITIES	\$2,857	\$1,512	\$1,725	\$3,000	\$1,240	\$2,000	winter months 24/25 - intergovernmental transfer \$16.65
630-5-820-6373 TELEPHONE & INTERNET	\$10,577	\$10,259	\$10,303	\$14,000	\$10,750	\$11,000	Precision Concepts, Central Scott, Verizon -
630-5-820-6401 AUDIT	\$23,103	\$21,759	\$17,913	\$25,000	\$22,109	\$25,000	
630-5-820-6402 BANK FEES	\$37,658	\$38,261	\$45,220	\$42,000	\$39,855	\$60,000	tyler/payment tech trans fees & First Central online payment fees
630-5-820-6404 BAD DEBTS	-\$36,188	\$6,615	\$2,120	\$0	\$0	\$0	
630-5-820-6407 GENERAL ENGINEERING		\$3,600	\$20,367	\$30,000	\$15,000	\$30,000	Stanley
630-5-820-6408 GENERAL INSURANCE	\$48,163	\$60,646	\$66,452	\$63,750	\$72,045	\$79,250	CWG (Electric 75% of Utility Portion) Budget 10% Increase
630-5-820-6409 LAUNDRY		\$0		\$0	\$0	\$0	
630-5-820-6411 LEGAL SERVICES-GENERAL		\$6,858	\$9,523	\$15,000	\$24,350	\$15,000	
630-5-820-6412 EMPLOYEE MEDICAL REIMB		\$0		\$0	\$0	\$0	
630-5-820-6413 PROJECT SHARE REMITTANCE	\$768	\$520	\$841	\$1,000	\$455	\$500	
630-5-820-64132 TO CITY	\$90,000	\$90,000	\$90,000	\$0	\$0	\$0	
630-5-820-6414 PUBLISHING	\$3,087	\$2,620	\$6,153	\$7,000	\$3,825	\$7,000	
630-5-820-6416 DUES & ASSESSMENTS	\$3,985	\$5,555	\$5,877	\$21,500	\$7,050	\$10,000	NERC, IUC, IAMU
630-5-820-6418 SALES TAX	\$97,055	\$86,824	\$79,640	\$81,960	\$110,181	\$80,000	
630-5-820-6419 PROPERTY TAXES	\$48,419	\$44,003	\$47,273	\$50,000	\$44,945	\$50,000	CIPCO, Harlan, Waverly - Coded to computer services wrong gl number in book
630-5-820-6419 COMPUTER SERVICES	\$4,910	\$0	\$398	\$0	\$0	\$500	Adobe, Grammarly
630-5-820-6420 MAPPING	\$1,160	\$1,015	\$1,115	\$1,500	\$980	\$1,500	SAM-GIS
630-5-820-6440 RENTS & PERMITS		\$0		\$0	\$0	\$0	
630-5-820-644011.A.M.U	\$13,765	\$12,898	\$14,117	\$0	\$3,115	\$0	Transfer to Training - 6230
630-5-820-64402UTIL BOARD (ICC) ASSESSMENT	-\$911	\$1,607	\$0	\$0	\$0	\$0	
630-5-820-6450 OTHER CONTRACTED SERVICES	\$32,214	\$27,530	\$29,596	\$75,000	\$67,080	\$95,680	TREE TRIMMING - truck inspections, Iowa One Call, QC TAS. (Advantage Quote 46,482) Bortec, Daupler \$30,000
630-5-820-6456 TREE TRIMMING	\$8,301	\$28,793	\$0	\$0	\$0	\$0	
630-5-820-6457 SAFETY TESTING	\$6,090	\$6,530	\$9,476	\$15,000	\$11,930	\$20,000	P.C.B
630-5-820-6458 P.C.B.		\$0	\$0	\$0	\$0	\$0	
630-5-820-6470 INT ON DEP				\$0	\$0	\$0	
630-5-820-6491 PUBLIC RELATIONS	\$3,432	\$2,280	\$2,675	\$5,000	\$1,540	\$3,000	rebates
630-5-820-6501 LGS - LOUISA	\$883,000	\$528,000	\$537,000	\$538,000	\$730,290	\$650,000	
630-5-820-5071 WS4	\$520,000	\$650,000	\$757,130	\$495,000	\$557,145	\$750,000	
630-5-820-5072 CMPAS	\$2,706,019	\$1,603,512	\$1,846,837	\$1,624,798	\$2,893,740	\$2,100,000	MISO Cash Deposit = \$240,000 CMPAS cash deposit \$360,193
630-5-820-6504 SHOP EQUIPMENT	\$212	\$644	\$226	\$1,000	\$250	\$1,000	
630-5-820-6506 OFFICE& COMPUTER SUPPLIES	\$4,192	\$1,228	\$10,398	\$3,000	\$6,396	\$5,000	combined with 65061 (Computer Supplies)
630-5-820-65061COMPUTER SUPPLIES	\$5,563	\$85	\$636	\$0	\$0	\$0	
630-5-820-6507 OPERATING SUPPLIES & MATERIAL	\$16,404	\$31,421	\$5,583	\$30,000	\$35,270	\$30,000	
630-5-820-6508 POSTAGE	\$18,220	\$16,545	\$16,970	\$20,000	\$28,710	\$20,000	
630-5-820-6511 RENTAL EQUIPMENT		\$0		\$0	\$0	\$0	
630-5-820-6512 TOOLS	\$9,822	\$1,834	\$392	\$5,000	\$4,785	\$5,000	
630-5-820-6560 INTO INVENTORY	\$159,924	\$40,976	\$41,746	\$100,000	\$72,165	\$115,000	PLANNED/FUTURE Developments
630-5-820-6561 INVENTORY ADJUSTMENTS	-\$146,401	\$23,191	-\$34,806	\$0	\$0	\$0	
630-5-820-6600 REFUNDS				\$0	\$0	\$0	
630-5-820-6601 MISC. ADMINISTRATION	-\$4,280	\$3,821	-\$435	\$5,000	\$0	\$1,000	MRA & ADP
630-5-820-6605 CONTINGENCIES		\$2,150	\$47,158	\$471,317	\$263,000	\$144,648	\$360,193 CMPAS Cash Deposit; IPPA Addtl project funding (\$20K)
630-5-820-6710 AUTOMOTIVE ITEMS		\$0		\$0	\$0	\$0	
630-5-820-6725 OFFICE EQUIPMENT		\$0		\$0	\$0	\$0	

630-5-820-6727 METER READER EQUIP	\$191	\$0	\$2,294	\$27,350	\$25,155	\$15,000	(Estimated - AMR Software \$7,797.50) - Requested Annual VanWert Temetra - \$6603.36
630-5-820-6728 OTHER EQUIPMENT		\$0		\$0	\$0	\$0	
630-5-820-6730 LAND/OTHER CAPITAL		\$0		\$0	\$0	\$0	
630-5-820-6750 EQUIPMENT RESERVE		\$0		\$0	\$0	\$0	
630-5-820-6752 MINOR PROJECTS		\$0		\$0	\$0	\$0	
630-5-820-6781 CAPITAL PROJECT/CC		\$0		\$0	\$0	\$0	
630-5-820-6781 CAPITAL PROJECTS	\$66,331	\$192,258		\$200,000	\$62,940	\$390,000	AMI Tantalus
630-5-820-6799 OTHER CAPITAL		\$0		\$0	\$0	\$0	
630-5-820-6801 BOND PRINCIPAL		\$0		\$0	\$0	\$0	
630-5-820-68251 COMPUTER PURCHASE		\$0		\$0	\$0	\$0	
630-5-820-6853 INTEREST		\$0		\$0	\$0	\$0	
630-5-810-7000 DEPRECIATION EXP	\$2,252	\$0	\$19	\$0	\$0	\$0	
630-5-815-6130 PENSION EXP	\$92,396	-\$47,394	-\$36,183	\$0	\$0	\$0	
630-5-820-6912 TO INSURANCE SELF-FUNDING	\$15,000	\$30,000	\$30,000	\$15,000	\$15,000	\$15,000	821-4-690-4-4830 to insurance self fund
630-5-820-6917 TRANSFERS OUT		\$0		\$90,000	\$90,000	\$90,000	001-4-820-2-4502 to general fund
630-5-820-6920 TO OTHER FUNDS		\$300,000	\$300,000	\$300,000	\$300,000	\$250,000	636-4-820-4-4830 to electric projects
630-ELECTRIC EXPENDITURES	\$5,488,555	\$4,436,703	\$4,598,896	\$5,232,384	\$6,256,298	\$5,951,461	

635-ELECTRIC DEPRECIATION

BEGINNING BALANCE ELECTRIC DEPRECIATION FUND RESERVES			\$758,772	\$703,802		\$713,802	
LESS AMT NEEDED TO BALANCE BUDGET				\$0			
BALANCE SEWER ELECTRIC DEPRECIATION FUND RESERVES			\$703,802	\$703,802			

635-ELECTRIC DEPRECIATION REVENUES							
635-4-820-4-4810 SALE OF EQUIPMENT							
635-4-820-4-4830 TRANSFERS IN	\$85,000	\$0	\$0	\$50,000	\$50,000	\$50,000	630-5-820-6360 from electric expense
635-ELECTRIC DEPRECIATION REVENUES	\$85,000	\$0	\$0	\$50,000	\$50,000	\$50,000	

635-ELECTRIC DEPRECIATION EXPENDITURES							
635-5-820-6360 TO EQUIP REPLACEMENT							
635-5-820-6710 AUTOMOTIVE ITEMS			\$54,920	\$50,000	\$40,000	\$50,000	
635-5-820-6727 OTHER EQUIPMENT	\$30,950			\$0			
635-5-820-68251 COMPUTER PURCHASE							
635-5-820-6920 TO OTHER FUNDS							
635-ELECTRIC DEPRECIATION EXPENDITURES	\$30,950	\$0	\$54,920	\$50,000	\$40,000	\$50,000	

636-ELECTRIC PROJECTS

BEGINNING BALANCE			\$909,717	\$1,209,717		\$1,509,717	
CASH RESERVES			\$0	\$0			
AMOUNT TO BE ALLOCATED IN FISCAL YEAR		\$909,717	\$1,209,717	\$1,509,717		\$1,759,717	

636-ELECTRIC PROJECTS REVENUES							
636-4-820-4-4820 G.O. BOND PROCEEDS							
636-4-820-4-4830 TRANSFERS IN		\$300,000	\$300,000	\$300,000	\$300,000	\$250,000	630-5-820-6920 from electric expense
636-ELECTRIC PROJECTS REVENUES	\$0	\$300,000	\$300,000	\$300,000	\$300,000	\$250,000	

636-ELECTRIC PROJECTS EXPENDITURES							
636-5-820-6781 CAPITAL PROJECT/CC							
636-5-820-6782 CAPITAL LOUISA							
636-5-820-6783 CAPITAL - CB4							
636-5-820-6799 OTHER CAPITAL		\$0	\$0	\$300,000	\$0	\$250,000	
636-5-820-6920 TO OTHER FUNDS							
636-ELECTRIC PROJECTS EXPENDITURES	\$0	\$0	\$0	\$300,000	\$0	\$250,000	

637-RENEWABLE ENERGY FUND

BEGINNING BALANCE RENEWABLE ENERGY FUND RESERVES			\$1,832	\$1,832		\$1,832	
LESS AMT NEEDED TO BALANCE BUDGET			\$0	\$0		\$0	
BALANCE RENEWABLE ENERGY FUND RESERVES		\$1,832	\$1,832	\$1,832		\$1,832	

637-RENEWABLE ENERGY FUND REVENUES							
637-4-820-2-4705 DONATIONS	\$35	\$0	\$0	\$0	\$0	\$0	
637-RENEWABLE ENERGY FUND REVENUES	\$35	\$0	\$0	\$0	\$0	\$0	

637-RENEWABLE ENERGY FUND EXPENDITURES							
637-5-820-6799 OTHER CAPITAL	\$0		\$0	\$0	\$0	\$0	
637-RENEWABLE ENERGY FUND EXPENDITURES	\$0	\$0	\$0	\$0	\$0	\$0	

TOTAL ELECTRIC REVENUE	\$6,809,376	\$5,456,844	\$5,910,283	\$5,582,384	\$7,179,395	\$6,251,461	
TOTAL ELECTRIC EXPENSE	\$5,519,505	\$4,436,703	\$4,653,816	\$5,582,384	\$6,296,298	\$6,251,461	

OUTAGE REPORT

Date: 2/24/26

Address: 711 N. 1st St. Bldg 6-104

Outage Time: 11:53 am - 12:35 am

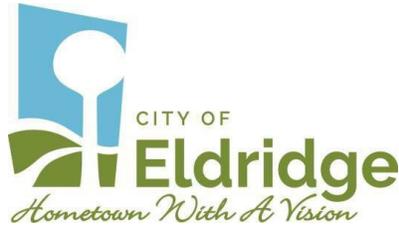
Cause: Broken Cutout at Source Feed

Cutout and Source Jumper Replaced

of Customers: 85 Total Meters Affected

Single Phase - 65 customers

Three Phase - 20 customers



Resolution 2026-02 E&W

A RESOLUTION ADOPTING ELECTRIC RELIABILITY PLAN

WHEREAS, pursuant to Iowa administrative rule 199-27.10, municipal electric utilities are required to adopt and have approved by their governing bodies an annual electric reliability plan; and

WHEREAS, the annual electric reliability plan must be filed with the Iowa Utilities Commission; and

WHEREAS, Eldridge Electric & Water Utility has reviewed and adopted its annual electric reliability plan;

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF THE ELDRIDGE ELECTRIC & WATER UTILITY, CITY OF ELDRIDGE, IOWA:

That the annual electric reliability plan of Eldridge Electric & Water Utility is hereby approved; and

That Eldridge Electric & Water Utility shall maintain an official copy of the annual electric reliability plan for public inspection and for filing with the Iowa Utilities Commission

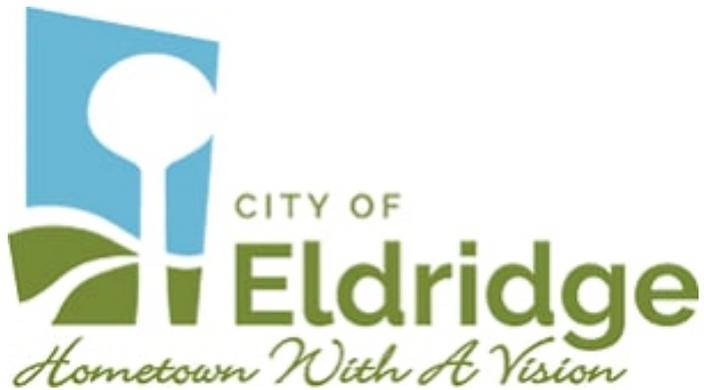
PASSED AND APPROVED this 3rd day of March 2026.

ATTEST:

Michael Bristley, Chairman

Abby Petersen, Vice Chair

_____ Ayes _____ Nays



February 12, 2026

Records and Information Center
Iowa Utilities Commission
1375 E. Court Ave.
Des Moines, Iowa 50319-0069

Filing Title: City of Eldridge Reliability Plan

Dear Chief Operating Officer:

Pursuant to Iowa Administrative Code 199-27.10(3)(g), City of Eldridge is filing its annual Reliability Plan. This plan is updated no less than annually, approved by utilities governing body, and filed with the Iowa Utilities Board by April 1, of each year for the purposes of complying with the informational reporting requirement of Iowa Administrative Code 199-27.10(3)(g).

City of Eldridge takes its responsibility to provide safe, reliable and affordable electricity to those we serve seriously. As a municipal utility, we are not profit driven but rather focus on providing superior service rather than maximizing returns. We are proud of our efforts in providing superior system reliability. Our record of reliable service illustrates our commitment to our community partners, but also our owner customers.

Please feel free to contact our Utility Administrative Manager, Sadie Wagner if you have questions at 563-285-0102. These concerns will be conveyed to City of Eldridge's governing authority so we can respond appropriately.

Sincerely,
/s/ Sadie Wagner

Utility Administrative Manager
City of Eldridge
563-285-0102

Reliability Plan

Eldridge Electric & Water Utility

Eldridge Electric & Water Utility strives to deliver safe, reliable and affordable power to our customers. While this reliability plan focuses on information pertinent to reliability, other considerations cannot be overlooked in balancing the needs of the customers with the business decisions of the system's managers.

The purpose of this reliability plan is to meet the requirements of Iowa Administrative Code 199-27.10(3)(g). This reliability plan does not replace, but merely supplements, information provided to the utility's governing authority throughout the year. This plan has been approved by the governing authority of **Eldridge Electric & Water Utility** along with reliability data for the purpose of detailing the utility's progress in achieving certain strategic objectives as outlined its strategic plan. This plan was prepared for the reporting period of January 1, 2026 through December 31, 2026.

During 2025 customers were able to contact the **Eldridge Electric & Water Utility** 24 hours a day, 7 days a week through an after-hours telephone number. Customers were able to timely report service interruptions and other problems they experienced with electric service through clearly defined communication channels.

Eldridge Electric & Water Utility reliability plan represents an integrated approach addressing the operation, maintenance and inspection of the electric system. Providing safe, reliable, and affordable electric service to meet the needs of customers requires an intricate balance and consideration of all of the above as well as the resources available to achieve results.

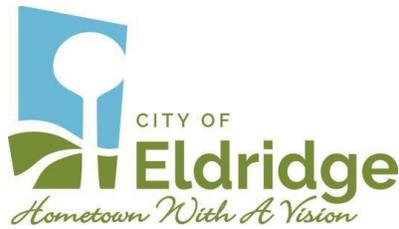
Eldridge Electric & Water Utility made reasonable efforts to avoid and prevent service interruptions during the last year. However, when interruptions occurred, service was reestablished within the shortest time practicable, consistent with safety.

Eldridge Electric & Water Utility has an effective preventive maintenance program and is capable of emergency repair work on an appropriate scale to its scope of operations and to the physical condition of its electric facilities. No changes were made to the program during the last year.

Eldridge Electric & Water Utility continues to follow a written program for inspecting and maintaining its electric supply lines and substations in order to determine the necessity for replacement, maintenance and repair, and for tree pruning or other vegetation management.

Eldridge Electric & Water Utility installs lightning arresters as appropriate on all distribution line equipment in an effort to reduce outages and protect equipment.

Eldridge Electric & Water Utility has a program of regular pole inspection, with the complete system scheduled to be completed on a 10 year cycle. The inspections are done on an area basis with all municipal utility owned poles, within a given area, being inspected each year. The program consists of a complete inspection of the poles, over 10 years of age, and a report on all rejected poles that are to be replaced. Poles are generally replaced within six months.



Resolution 2026-01 E&W

RESOLUTION APPROVING THE RESTATED AND AMENDED CMMPA/PARTICIPANT MARKET PARTICIPANT AGREEMENT BETWEEN THE CENTRAL MINNESOTA MUNICIPAL POWER AGENCY AND ELDRIDGE ELECTRIC UTILITY

WHEREAS, the Eldridge Electric Utility participates in the Midcontinent Independent System Operator (MISO) markets for the purchase, sale, scheduling, and settlement of electric energy, capacity, transmission, and related services; and

WHEREAS, Central Minnesota Municipal Power Agency (CMMPA) serves as a registered Market Participant with MISO and has historically performed designated market participant and scheduling agent functions on behalf of the Utility; and

WHEREAS, the Eldridge Electric Utility and CMMPA previously entered into a Market Participant Agreement; and

WHEREAS, the Eldridge Electric Utility and CMMPA desire to restate and amend those agreements into a single Restated and Amended CMMPA/Participant Market Participant Agreement to reflect current MISO tariff requirements, credit support provisions, market practices, and updated rates; and

WHEREAS, the CMMPA/Participant Market Participant Agreement establishes the terms under which CMMPA will continue to act as the Eldridge Electric Utility's Designated Market Agent, including performing MISO market functions, providing payment guarantees to MISO, administering credit support, and billing the Utility for applicable market participant costs; and

WHEREAS, the CMMPA/Participant Market Participant Agreement has an initial term beginning January 1, 2026 through December 31, 2028, with annual renewal provisions thereafter, and establishes base rates and escalation terms for MISO-related services; and

WHEREAS, the Board of Trustees of the Eldridge Electric & Water Utility has reviewed the CMMPA/Participant Market Participant Agreement and finds that entering into the CMMPA/Participant Market Participant Agreement is in the best interests of the Eldridge Electric Utility and its ratepayers, and is necessary for the Eldridge Electric Utility's continued participation in the MISO markets in a compliant and financially responsible manner.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF THE ELDRIDGE ELECTRIC & WATER UTILITY, CITY OF ELDRIDGE, IOWA:

Section 1. The CMMPA/Participant Market Participant Agreement, and the form thereof including all exhibits attached, shall be and is hereby approved substantially in the form now before this Board with an effective date of January 1, 2026.

Section 2. The Chairperson and Utility Administrative Manager are hereby authorized and directed to execute and deliver the CMMPA/Participant Market Participant Agreement with their signatures thereon being conclusive proof of their approval of the final form thereof.

Section 3. The Utility Board authorizes the Utility Administrative Manager and Electric Superintendent to take all actions required to comply with the terms of the Agreement, including but not limited to:

- Payment of all MISO-related charges and Monthly Market Participant Costs;
- Provision of required credit support or deposits as outlined in the Agreement;
- Coordination with CMMPA regarding MISO market participation, metering, forecasting, scheduling, and settlements.

Section 4. All prior actions, resolutions, and orders of this governing body inconsistent with the terms of the Restated and Amended CMMPA/Participant Market Participant Agreement or this Resolution shall be and are hereby superseded and no longer in force or effect to the extent of such inconsistency, and the terms of the Restated and Amended CMMPA/Participant Market Participant Agreement and this Resolution shall control in all respects over any prior actions, resolutions, and orders of this governing body to the extent such prior actions, resolutions, and orders are inconsistent with the terms of the Restated and Amended CMMPA/Participant Market Participant Agreement or this Resolution.

PASSED AND APPROVED this 17th day of February, 2026

ATTEST:

Michael Bristley, Chairman

Abby Petersen, Vice Chair

_____ Ayes _____ Nays

Abby Petersen Mark Goodding Jeff Hedrington Jeff Hamilton Michael Bristley

RESTATED AND AMENDED

CMPMPA/PARTICIPANT MARKET PARTICIPANT AGREEMENT

BETWEEN THE

CENTRAL MINNESOTA MUNICIPAL POWER AGENCY

AND

ELDRIDGE ELECTRIC UTILITY

January 1, 2026

RESTATED AND AMENDED MARKET PARTICIPANT AGREEMENT

RECITALS

THIS RESTATED AND AMENDED MARKET PARTICIPATION AGREEMENT (“Agreement”), is entered into between Central Minnesota Municipal Power Agency (“CMMPA”), a municipal corporation and the political subdivision of the State of Minnesota, organized and existing under the Minnesota Municipal Power Agency Act, Minnesota Statutes, Section 453.51 to 453.62, as amended (the “Act”) and Eldridge Electric Utility, hereinafter referred to as “Participant”, a municipal corporation organized and existing under the laws of Iowa.

WHEREAS, pursuant to the Midcontinent Independent System Operator Open Access Transmission and Energy Markets Tariff (“MISO TEMT”) and related business practices, a Market Participant (“MP”) must have a “contractual” relationship with the entities for which the MP performs MISO market functions, including those that own MISO registered generating resources and those that seek to have the MP submit demand bids to MISO to acquire energy and/or ancillary services through the MISO energy markets; and

WHEREAS, CMMPA currently performs various functions as the MISO MP on behalf of Participant under a “CMMPA/Participant Market Participant Agreement”, dated June 15, 2009 and a “Midwest Independent Transmission System Operator (MISO) Scheduling Agent Agreement”, dated June 15, 2009, which such agreements are in need of being restated and amended under the terms provided under this Agreement; and

WHEREAS, CMMPA agrees to continue providing a guarantee of prompt and complete payment of all amounts owed to MISO under the MISO TEMT and related business practices on behalf of Participant and to provide certain credit support in connection with such payments and obligations pursuant to the creditworthiness provisions of the MISO TEMT; and

WHEREAS, Participant agrees to enter into this Agreement to govern CMMPA’s continued performance as Participant’s Designated Market Agent (“DMA”) to conduct various MP functions, for Participants’ benefit, related to the MISO established markets, to establish related credit provisions and compensate CMMPA for DMA functions in connection with project agreements and other MISO-related activities required by Participant; and

WHEREAS, it is acknowledged that CMMPA may enter into one or more agreements from time to time with a bank or other lending institution to provide working capital for its activities under and related to this Agreement, and to pledge payments under this Agreement as security for advances from the bank or other lending institution.

NOW, THEREFORE, CMMPA and Participant mutually agree as follows:

RESTATED AND AMENDED MARKET PARTICIPANT AGREEMENT

ARTICLE 1

The recitals set forth above are hereby made a part of this Agreement.

ARTICLE 2

DEFINITIONS

For the purpose of this Agreement, the following terms, phrases, words and their derivations shall have the meaning given herein. When not inconsistent with the context, words used in the present tense include the future, words used in the plural number include the singular number, and words used in the singular number include the plural number. The terms “hereto”, “hereof” and “hereunder” without reference to any particular Article, Section or paragraph pertain to this Agreement as a whole. The words “shall” and “will” are mandatory and “may” is permissive. Words not defined shall be given their common and ordinary meaning, unless it can be reasonably inferred that a meaning particular to the electric utility industry should be utilized, in which case definitions shall be determined in accordance with electric utility industry meanings. All references to Attachments and tables unless otherwise specifically provided, refer to the Attachments and tables to this Agreement.

- A. **Agreement:** This Agreement pursuant to which CMMPA provides MISO Services to Participant.
- B. **Auction Revenue Right (ARR):** A financial hedging instrument established by MISO pursuant to the MISO TEMT which provides an MP with an entitlement to a share of the revenues generated in the annual Financial Transmission Right (FTR) auction conducted by MISO.
- C. **Central Minnesota Municipal Power Agency (CMMPA):** A Minnesota Municipal Power Agency created in accordance with Minnesota law, and any successor to or assignee of its rights and responsibilities hereunder. CMMPA does business as Central Municipal Power Agency/Services (or “CMPAS”).
- D. **CMMPA Board:** The Board of Directors of the Agency.
- E. **CMMPA MISO Guarantee:** The guarantee that CMMPA provides to MISO as the DMA to receive an Unsecured Credit Allowance from MISO as defined further in section 5.1, below, which requires the prompt and complete payment of all amounts owed CMMPA and the performance of all other obligations of CMMPA under the terms and conditions of the MPA, the MISO TEMT, and all other related agreements.
- F. **Contract Year:** The 12-month period commencing as of January 1 of each year during the term of this Agreement.

RESTATED AND AMENDED MARKET PARTICIPANT AGREEMENT

- G. **Financial Point of Delivery:** The point: (i) at which CMMPA shall take financial responsibility for congestion and losses associated with power and energy purchased from the MISO markets or third parties on behalf of Participants; or (ii) at which CMMPA ceases to have financial responsibility for congestion and losses associated with power and energy sold into the MISO markets or to third parties.
- H. **Financial Security:** A cash deposit, irrevocable letter of credit, or other form of security in an amount and form determined by and acceptable to MISO provided by CMMPA.
- I. **Financial Transmission Right (“FTR”):** A transmission right provided for pursuant to the MISO TEMT that provides a financial hedging mechanism for managing the risk of congestion charges reflected in MISO “Day-Ahead” Locational Marginal Prices (“LMP”). FTRs will not protect a MP from congestion charges related to MISO hourly “Real time” LMP.
- J. **Midcontinent Independent System Operator (“MISO”):** MISO or any successor organization that serves as the transmission provider under the MISO TEMT or any equivalent or successor tariff.
- K. **MISO Scheduling Agent Services:** The services that CMMPA provides to Participant as related to the MISO markets, including but not limited to submitting hourly schedules to MISO on behalf of Participant in connection with the markets established pursuant to the MISO TEMT.
- L. **MISO Services:** Those services requested by CMMPA on behalf of the Participant under this Agreement to be provided by MISO pursuant to the MISO TEMT. Such services may include, but are not limited to: (i) transmission service; (ii) participation in the MISO established energy markets through the submittal of load bids to purchase energy in these markets to serve Participant load; (iii) participation in the MISO established energy markets through the submittal of offers to sell energy into these markets; (iv) the scheduling of bilateral financial transactions which are subject to MISO charges for congestion and losses; (v) meter data and management services; (vi) participation in the FTR nomination process and in FTR auctions, including the ARR process implemented by MISO pursuant to the MISO TEMT; (vii) the scheduling of physical transactions that occur outside of the MISO markets; and (viii) participation in other markets established from time to time by MISO pursuant to the MISO TEMT, including MISO established ancillary services and capacity markets.
- M. **MISO TEMT:** The MISO Open Access Transmission and Energy Markets Tariff, including all schedules or attachments thereto and all business practices manuals related thereto that are in effect from time to time or any equivalent or successor tariff.

RESTATED AND AMENDED MARKET PARTICIPANT AGREEMENT

- N. **Monthly Market Participant Costs:** With respect to a Contract Year, all costs and expenses, net of credits and revenues received by CMMPA, paid by CMMPA on behalf of Participant during each month (or shorter time period as determined at the reasonable discretion of CMMPA) of such Contract Year allocable to CMMPA for MISO Services requested pursuant to this Agreement, which costs and expenses shall include, but are not limited to, those items of cost and expenses referred to in Attachment A.
- O. **Market Participant (MP):** An entity that: (i) has successfully completed the registration process with MISO and is qualified by MISO as a market participant; and (ii) is financially responsible to MISO for all of its market activities and obligations; and (iii) has demonstrated the capability to participate in relevant market activities.
- P. **Operating Day:** The daily 24-hour period beginning at midnight (Eastern Standard Time (EST)) for which transactions in the MISO energy markets are scheduled.
- Q. **Participant:** The entity that is a party to this Agreement.
- R. **Party or Parties:** CMMPA, Participant, or both, as the case may be.
- S. **Physical Point of Delivery:** The metered point(s) of interconnection designated as the ultimate delivered transmission point for power and energy associated with MISO Services under this Agreement, as specified in the applicable interconnection agreement; or the metered point(s) at which power and energy is sold into the MISO markets or to third parties.
- T. **Prudent Utility Practice:** Practices, methods and acts (including but not limited to the practices, methods and acts engaged in or approved by a significant portion of the electrical utility industry prior thereto) which, in the exercise of reasonable judgment in the light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at the lowest reasonable cost consistent with good business practices, reliability, safety and expedition. Prudent Utility Practice is not intended to be limited to the optimum practice, method or act, to the exclusion of all others, but rather to be a spectrum of possible practices, methods or acts.
- U. **Total Credit Limit:** The amount of Unsecured Credit approved by MISO for CMMPA plus the amount of any Financial Security approved by MISO and provided by CMMPA to MISO.
- V. **Transmission Owner ("TO")** A transmission owner as defined by MISO.
- W. **Uncontrollable Forces:** Any cause beyond the control of a party which by the exercise of due diligence the party is unable to prevent or overcome including, but

RESTATED AND AMENDED MARKET PARTICIPANT AGREEMENT

not limited to, failure or refusal of any other person or entity to comply with then-existing contracts with a party, an act of God, fire, flood, explosion, strike, sabotage, pestilence, and act of the public enemy, civil and military authority including court orders, injunctions, and orders of governmental agencies with proper jurisdiction, insurrection or riot, and act of the elements, failure of equipment, or inability of the party or any contractors engaged in work to support the MISO Services because of the effect of similar causes on suppliers or carriers.

- X. **Unsecured Credit:** Any credit granted by MISO to CMMPA for the benefit of the Participants that is not secured by a form of Financial Security.

ARTICLE 3.

TERM AND TERMINATION

Section 3.1. Initial Term, Initial Rates and Term Extension.

The initial term of this Agreement shall commence as of January 1, 2026 (“Effective Date”) and end on December 31, 2028 (“Initial Term”). Rates for the Initial Term (along with current rates) are designated in the Table below and described further in section 6.1 and Attachment A. This is total fee that includes the administrative fees incurred by CMMPA for dispatch of the generation owned by Participant. No later than six months prior to the end of Contract Year 2028 or each succeeding Contract Year after the Initial Term, CMMPA shall provide notice of the new rates anticipated to be in effect during the succeeding Contract Year. Unless Participant provides written notice of its intent to terminate at least six (6) months prior to December 31, 2028 or at least six (6) months prior to December 31st of each succeeding Contract Year, the Agreement shall continue in effect at the new rate for succeeding one-year terms. Notwithstanding the previous sentence, it is understood and acknowledged that termination of this Agreement shall require Participant to designate a Market Participant prior to the end of the applicable term. Termination of this Agreement shall in no circumstance take effect until CMMPA is provided confirmation that the designated Market Participant is a registered MISO market participant. If Participant fails to designate a Market Participant prior to the end of the applicable term, CMMPA shall continue providing such services until a replacement is designated at a rate that is 2X the rate currently in effect.

City	Current Rate	Year 1	Year 2	Year 3
Eldridge	\$1.10	\$1.2320	\$1.3059	\$1.3843

RESTATED AND AMENDED MARKET PARTICIPANT AGREEMENT

Section 3.2. Continuing Obligations.

Termination of this Agreement shall not relieve Participant of its obligations to take and pay for MISO Services by CMMPA, even if not available to, delivered to or taken by Participant, for an Operating Day prior to the termination date in accordance with Section 4.1, including all true ups and all prior period adjustments of all MISO Services charges incurred as of the termination date, irrespective of the Execution Date upon which such true-up or prior period adjustments were calculated and transmitted to CMMPA by MISO. Participant agrees to indemnify and hold harmless CMMPA with respect to MP functions performed on Participant's behalf by CMMPA for time periods prior to the termination of this Agreement should the Participant terminate this Agreement in accordance with Section 3.1.

Section 3.3 Termination of Existing Market Participant and Scheduling Agent Agreements.

For the avoidance of doubt, the Parties agree and acknowledge that upon the Effective Date of this Agreement, the existing Market Participant and Scheduling Agent Agreements referenced in the Recitals above and under which CMMPA is currently providing Market Participant services to Participant shall be null and void and of no further effect.

ARTICLE 4

PAYMENT AND SUPPLY OF INFORMATION OBLIGATIONS

Section 4.1. Payment Obligations.

Participant agrees to take and pay for or pay for MISO Services requested by CMMPA on its behalf together with other allocable CMMPA costs as provided for in Article 6 and Attachment A, even if not available to, delivered to or taken by the Participant. Participant agrees to make all payments required pursuant to this Agreement regardless of whether MISO Services are being provided to the Participant. Participant shall be obligated to pay to CMMPA the Participant's allocable share of Monthly Market Participant Costs incurred for MISO Services requested by CMMPA on behalf of Participant pursuant to the terms of this Agreement. In the event MISO Services are not provided for any period, Participant shall be obligated to pay its share of all costs previously incurred by CMMPA.

Section 4.2. Supply of Information and Notification of Material Change.

- (a) Participant shall supply CMMPA with any and all information that is required to be provided to MISO pursuant to the MISO TEMT.
- (b) Participant shall notify CMMPA in writing as soon as practicable and no later than at least 72 hours prior to learning of or initiating any material change in circumstances

RESTATED AND AMENDED MARKET PARTICIPANT AGREEMENT

that may affect CMMPA's MP status under the MISO TEMT, its ability to perform MP functions under this Agreement, or Participant's ability to make payments or perform any of its other obligations hereunder. For clarity, this obligation includes any significant Participant staffing changes.

ARTICLE 5

CREDIT SUPPORT

Section 5.1. Credit Support Obligations.

- (a) The Parties anticipate that the CMMPA MISO Guarantee will facilitate the granting to CMMPA of an Unsecured Credit Allowance ("UCA") by MISO. If CMMPA is required to make payment to MISO pursuant to the CMMPA MISO Guarantee, the pro rata portion of said payment which pertains to Participant is payable from amounts charged to Participant under this Agreement.
- (b) Pursuant to the creditworthiness provisions provided in the MISO TEMT, including the ongoing MISO credit evaluation process for transmission customers and MPs, MISO may from time to time require that CMMPA provide additional Financial Security over and above any UCA granted by MISO to CMMPA. To the extent that CMMPA is required by MISO to provide additional Financial Security beyond the amount of the UCA pursuant to Section 5.1(a), then Participant, upon written request by CMMPA, shall provide its pro rata share of such secured credit support in the form of cash or such other form as may be mutually agreed upon by the Parties to CMMPA within 30 days of the written request by CMMPA. If Participant does not provide such requested additional amount of secured credit support within the 30 days, then CMMPA shall have the right to draw on working capital to provide for such additional Financial Security on an interim basis and bill Participant for any directly related costs.
- (c) The CMMPA Board of Directors may determine from time to time, but generally no more than once per Contract Year, unless circumstances dictate that a requested temporary increase in the amount of credit in the form of secured credit ("CMMPA Credit Support") is needed over and above the UCA granted by MISO to CMMPA and the additional Financial Security pursuant to Section 5.1(b) to support the MISO Services provided by CMMPA on Participant's behalf under the MISO TEMT. Participant shall provide such additional amount in the form of cash or such other form as may be mutually agreed upon by the Parties to CMMPA within 30 days of the written request by CMMPA. If Participant does not provide such requested additional amount of secured credit support within the 30 days, then CMMPA shall have the right to draw on working capital to provide for such secured credit on an interim basis and bill the Participant for any directly related costs.

RESTATED AND AMENDED MARKET PARTICIPANT AGREEMENT

- (1) The CMMPA Credit Support amount requested by CMMPA shall be established at the beginning of each Contract Year for that same Contract Year and shall not exceed the one month average of billing costs for MISO Services requested by CMMPA on Participant's behalf under the MISO TEMT for the most recent 36 months immediately preceding CMMPA's establishment of the amount of CMMPA Credit Support for that Contract Year.
- (2) In the first month of each Contract Year, CMMPA shall determine whether the amount of CMMPA Credit Support at that time exceeds the maximum amount of MISO Services requested by CMMPA on Participant's behalf under the MISO TEMT (as determined by the one month average of billing costs for such services over the most recent 36 months) and, if the CMMPA Credit Support exceeds said amount, the CMMPA Credit Support shall be reduced by the excess amount and CMMPA shall return the excess amount to participant within thirty (30) days.
- (3) For the avoidance of doubt, once the CMMPA Credit Support amount is established for the Contract Year pursuant to Sections 5.1(c)(1) and (2), CMMPA reserves the right to request a temporary increase to the CMMPA Credit Support amount established for the Contract Year when circumstances dictate the request for such a temporary increase is warranted. The circumstances that dictate when such a temporary increase in CMMPA Credit Support is warranted and may be requested by CMMPA are when the one month billing cost for MISO Services requested by CMMPA on Participant's behalf under the MISO TEMT is more than 60% greater than the amount of CMMPA Credit Support established for that Contract Year in accordance with Section 5.1(c)(1) of the Agreement. When the amount of the one month billing cost for MISO Services requested by CMMPA on Participant's behalf under the MISO TEMT exceeds that 60% threshold, starting with the following month CMMPA may request that Participant provide CMMPA an additional amount of CMMPA Credit Support not to exceed the percentage increase that is equal to the same percentage the one month billing cost at issue exceeds the amount of CMMPA Credit Support established for that Contract Year. (As an example, if the one-month billing cost for March 2027 is 65% greater than the CMMPA Credit Support amount established for the 2027 Contract Year, CMMPA may request that starting in April 2027 Participant provides CMMPA up to a 65% increase to the amount of CMMPA Credit Support for that Contract Year.) CMMPA may retain the additional amount of such CMMPA Credit Support for the remainder of that Contract Year, but CMMPA shall return to Participant any amounts that exceed the CMMPA Credit Support amount established for the next Contract Year in accordance

RESTATED AND AMENDED MARKET PARTICIPANT AGREEMENT

with Sections 5.1(c)(1) and (2) of the Agreement. If there are other instances where the one-month billing cost for MISO Services requested by CMMPA on Participant's behalf under the MISO TEMT exceeds the aforementioned 60% threshold within the same Contract Year, the total additional amount CMMPA may request Participant provide as a temporary increase in CMMPA Credit Support for that same Contract Year shall be calculated by utilizing the highest one month billing cost within that Contract Year. There shall be no pyramiding of any requested temporary increases in CMMPA Credit Support for the Contract Year.

- (d) The form of secured credit support, including any Financial Security, required to be provided by Participant under subsection (b) or (c) shall be provided in the form of cash payment or such other form of credit as may be mutually agreed upon by the Parties, or as may be required by MISO.
- (e) Credit Support shall be subject to the following requirements:
 - (1) **CMMPA Credit Support.** The CMMPA Credit Support provided by Participant to CMMPA shall at all times belong to Participant and may only be used by CMMPA as provided in this Agreement. To the extent Participant's CMMPA Credit Support is provided to CMMPA in the form of cash ("Working Cash Deposit"), CMMPA shall hold the Working Cash Deposit in a designated and segregated account in Participant's name on Participant's behalf at a financial institution selected by CMMPA at its sole and reasonable discretion. Deposits held by CMMPA under this Article shall be FDIC insured and fully collateralized, shall not be used for any purpose other than their intended purpose, and shall not be commingled with other funds held by CMMPA. CMMPA shall hold the Working Cash Deposit in an interest-bearing account and shall exercise the same degree of prudent business practice with respect to the Working Cash Deposit as it exercises with all other funds held by CMMPA. All interest resulting from Participant's Working Cash Deposit provided to CMMPA shall remain in the designated and segregated account in Participant's name until such interest is paid out to Participant, which shall be on a quarterly basis. The Working Cash Deposit shall at all times be FDIC insured or fully collateralized by CMMPA. CMMPA shall provide Participant with written confirmation that the Working Cash Deposit is FDIC insured or fully collateralized by CMMPA no later than ten (10) days following Participant's depositing of the Working Cash Deposit, or any increase thereto, with CMMPA. Participant's CMMPA Credit Support, including but not limited to Participant's Working Cash Deposit, shall be returned to Participant upon the occurrence of any of the following, whichever is earlier: the end of the term of the Agreement; the early termination of the Agreement; if CMMPA discontinues its operations; if CMMPA discontinues performing the contracted services for Participant; if CMMPA

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enters into or is involuntarily subject to a Chapter 7 bankruptcy; or a breach of contract by CMMPA.

- (2) **MISO Credit Support.** The MISO credit support Participant deposits with CMMPA under Section 5.1(b) (“MISO Collateral”) shall be deposited by CMMPA with MISO and administered in accordance with MISO rules and business practices. If the amount of the MISO Collateral is found to exceed the amount of credit support required by MISO, the excess amount shall be returned to Participant as soon as reasonably practicable. Participant’s MISO Collateral shall be returned to Participant upon the occurrence of any of the following, whichever is earlier: the end of the term of the Agreement; the early termination of the Agreement; if CMMPA discontinues its operations; if CMMPA discontinues performing the contracted services for Participant; if CMMPA enters into or is involuntarily subject to a Chapter 7 bankruptcy; or a breach of contract by CMMPA.
- (f) Subject to section 5.1(b), above, credit support required under this section shall be reviewed on an annual basis in accordance with this Agreement and the applicable provisions and business practices of the MISO TEMT as reflected on Schedule 1.
- (g) Notwithstanding anything to the contrary above, Participant agrees to provide CMMPA notice in the event that large new load additions are anticipated and agrees to work in good faith with CMMPA to ensure appropriate financial protections are in place consistent with the commercial intent of this Agreement.

ARTICLE 6

RATES, BILLING AND DISPUTES

Section 6.1. Rates

During the Initial Term of this Agreement, the base rate for MISO Services shall be as provided in Section 3.1, above. It is understood that this base rate includes MISO generation dispatch services. Additional MP Services under this Agreement and associated charges are listed on Attachment A, which may be amended at any time by mutual agreement of the Parties. It is understood and acknowledged that the base rate for MISO Services shall be escalated each year of the three-year Initial Term as follows: an increase of twelve (12) percent for year one of the Agreement and six (6) percent for year two and year three of the Agreement. Subsequent to the Initial Term and each successive term of the Agreement, CMMPA shall provide Participant notice of any increase to the costs of the above MISO Services as provided in section 3.1, above.

Section 6.2. Billing and Payments.

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- (a) On or before the 15th day of each month of each Contract Year, CMMPA shall prepare and deliver to Participant, via facsimile, e-mail or other electronic transmission, a billing statement showing the amounts payable to CMMPA for Monthly Market Participant Costs incurred by CMMPA for requested MISO Services. Such billing statement will be prepared based on the then-current settlement statements issued by MISO, including all weekly (or shorter time period if instituted by MISO) settlement statements, for requested MISO Services and true-ups for prior period adjustments provided pursuant to the MISO TEMT, and the appropriate amounts from the annual budget established herein. The amounts shown in the billing statement to be paid to CMMPA by the Participant shall be due and payable on the 30th day of the month, and any amounts due and not paid by the Participant on or before the close of business on the 30th day of the month, shall constitute a late payment. The late payment shall bear a service charge from the original due date until paid at the rate of the greater of (i) one and one-half percent (1½%) per month or (ii) the effective rate calculated by CMMPA associated with providing working capital from a bank or other lending institution as provided for in Article 7. Remittances received by mail will be accepted without assessment of said charges, provided that the postmark indicates that the payment was mailed on or before such day. If the 15th day of the month is a Saturday or Sunday or other non-business day of the Participant, the next following business day shall be the last day on which payment may be mailed without addition of any charges.
- (b) CMMPA may require Participant to make monthly payments to CMMPA based on the then current MISO settlement statements (e.g., S7 and S14) and the appropriate amounts from the annual budget established herein.

Section 6.3. Monthly Market Participant Costs.

The Monthly Market Participant Costs incurred by CMMPA, for requested MISO Services together with other assignable CMMPA costs to be paid by Participant for a particular month or other established billing period shall be recovered in the base rate designated in section 3.1 above and shall include all costs reflected in the MISO settlement statements for the then-current month or applicable billing period, including all weekly (or shorter time period if instituted by MISO) settlement statements issued during such month. Such costs shall also include CMMPA's administrative and general costs and all other related costs incurred by CMMPA in performing its MP functions for the MISO Services requested under this Agreement. These costs shall be billed to Participant based on the following principles:

- (a) Administrative and general costs and all other related costs incurred by CMMPA in performing MP functions and requesting MISO Services shall be billed based on the rates and charges set forth under this Agreement.

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- (b) Monthly Market Participant Costs for requested MISO Services billed or otherwise assessed to Participant under this Agreement shall, to the extent practicable, be based on the costs incurred at Participant's Physical Delivery Point.
- (c) Unless otherwise agreed to by the Parties, the Participant shall be responsible for the costs of congestion and marginal losses between the Financial Point of Delivery and Participant's Physical Point of Delivery.
- (d) The components of Monthly Market Participant Costs for requested MISO Services and credit-related obligations are set forth in Attachment A.
- (e) Load forecasts and elections with respect to ARRs and other congestion instruments associated with MP activities utilized by CMMPA on behalf of Participant shall be approved in advance by Participant and subject to the waiver of liability in Section 11.6(d), below

Section 6.4. Disputes.

- (a) Participant shall, for a period of twenty-four (24) months from the date of rendering, have the right to dispute any billing statement or other bill, invoice or statement rendered by CMMPA, invoke arbitration of the same or bring any legal or administrative action of any kind, questioning the propriety of the same. After the end of this twenty-four (24) month period, participant shall have no further right of dispute. In the case of a billing statement, other bill, invoice or statement containing estimates subject to subsequent true ups, Participant shall have no further right of dispute after a period of twenty-four (24) months from the date of its true up to reflect the actual final amounts due.
- (b) Even if disputed, Participant shall nevertheless pay the full amount of the disputed charges when due and shall give written notice of the dispute to CMMPA (other than any dispute based upon information not reasonably available to Participant at the time required to give notice under this paragraph (b)) not later than the due date of such payment. Such notice shall identify the amount in dispute and set forth a full statement of grounds upon which such dispute is based. No adjustment shall be considered or made by CMMPA for disputed charges unless such notice is given. CMMPA shall give consideration to such dispute and shall advise Participant with regard to its position relative thereto within one hundred and twenty (120) days following receipt of such written notice. Upon final determination (whether by agreement, arbitration, adjudication or otherwise) of the correct amount, any difference between such correct amount and the billed amount shall be properly reflected in the billing statement next submitted to Participant after such determination. The difference shall include interest payment to Participant at a rate established by the CMMPA Board from time to time.

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- (c) Paragraph (b) of this Section 6.3 shall specifically apply to any billing statement or other bill, invoice or statement rendered by CMMPA that includes costs for MISO Services paid or to be paid by CMMPA that Participant believes should not be paid or should not have been paid by CMMPA. Should CMMPA determine that Participant is correct with respect to such costs pertaining to MISO Services, CMMPA shall pursue whatever rights it may have for refund of or other redress with respect to such costs. Should CMMPA reasonably determine that Participant's position as to such costs pertaining to MISO Services is incorrect or that the potential benefit of pursuing any rights for refund or other redress with respect thereto is not worth the costs involved in pursuing such refund or other redress, then CMMPA shall not be required to take any action for such a refund or other redress unless and until Participant agrees to be fully responsible for all reasonable costs and expenses associated with such action for such refund or other redress, including CMMPA's attorney's fees and the fees of any accountants or other professionals whose services are reasonably deemed necessary by CMMPA for purposes of pursuing such refund or other redress. Notwithstanding the foregoing sentence, CMMPA shall not be required to take any action with respect to any costs pertaining to MISO Services challenged by Participant unless CMMPA determines, in its sole discretion, that reasonable grounds exist for challenging such costs.

ARTICLE 7

RECORDS AND ACCOUNTS; REPORTS

Section 7.1. Records and Accounts

- (a) CMMPA shall keep separate accurate records and accounts for the provision of MISO Services in a manner similar to the Federal Energy Regulatory Commission (FERC) Uniform System of Accounts and generally accepted accounting principles or such other system as may be reasonably approved by CMMPA. Such books and records shall be separate and distinct from CMMPA's other records and shall contain information supporting the allocation of CMMPA's indirect costs associated with the provision of MISO Services.
- (b) A firm of certified public accountants, experienced in electric utility accounting for similar organizations, to be employed by CMMPA, who may be CMMPA's regular firm of certified public accountants, shall audit such records and accounts annually. Such records and accounts and the annual report of audit, including all written comments, recommendations and reports of the accountants, shall be made available for inspection by Participant at any reasonable time at the principal office of CMMPA.

Section 7.2. Additional Information.

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The Participant agrees to supply CMMPA, upon request, with such information and documentation, including any opinions by an attorney or firm of attorneys, as CMMPA shall reasonably determine to be necessary with respect to the provision of MISO Services and the financing requirements related thereto, and other matters pertaining to the provision of MISO Services, including financial statements and other information reasonably available to allow CMMPA to respond to requests for such information from any federal, state or local regulatory body or as may be required in connection with the incurrence of indebtedness.

ARTICLE 8

CERTAIN OBLIGATIONS OF PARTICIPANT

Section 8.1. Metering.

Participant shall be under a continuing obligation to install and maintain metering sufficient to enable CMMPA to fulfill its responsibilities as an MP under the MISO TEMT. Such metering shall include real time generation-specific unit reporting

Section 8.2. Participant Rate and System Maintenance Covenant.

Participant shall establish, maintain, and collect rates and charges for the electric service of its electric system so as to provide revenues sufficient, together with available electric system reserves, to enable the Participant to pay CMMPA all amounts payable under this Agreement, all other amounts payable from and all lawful charges against or liens on the revenue of its electric system, and shall operate and maintain its electric system in a sound, businesslike manner in accordance with Prudent Utility Practice.

Section 8.3. Source of Payments.

Participant shall not be required to make payments to CMMPA under this Agreement except from the revenues and other moneys derived by Participant from its electric system. Participant hereby agrees that amounts payable by Participant under this Agreement shall be paid by the Participant as an operating expense of Participant's electric system.

Section 8.4. Participant Purchases for Resale

Participant shall not sell any of the requested MISO Services or products that were purchased by CMMPA on such Participant's behalf pursuant to this Agreement, to any customer of Participant for resale by that customer, unless the sale is specifically approved in writing by CMMPA.

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Section 8.5. Participant Cooperation.

Participant shall take no action, the effect of which would be to prevent, hinder or delay CMMPA from the timely fulfillment of its obligations under this Agreement or the MISO TEMT.

Section 8.6. Relationship to Other Instruments.

It is recognized by the Parties that CMMPA, in performing the MP functions provided for pursuant to this Agreement, must comply with the requirements of the MISO TEMT, Indebtedness Resolutions or indentures, and licenses, permits and regulatory approvals necessary for the provision of MISO Services hereinafter referred to as “Other Instruments”. It is, therefore, agreed that this Agreement is made subject to the terms and provisions of Other Instruments. It is further recognized that CMMPA may in the future be required to comply with additional Other Instruments relating to the provision of MISO Services, the term and conditions of which are not available at this time. The Participant acknowledges that in either case the terms and conditions of such Other Instruments are binding and (unless they can be amended or ameliorated) that CMMPA must comply with these Other Instruments.

Section 8.7 Participant Generation.

Participants owning generation shall be responsible for meeting applicable MISO resource adequacy, accreditation and response requirements and shall coordinate, as necessary, with CMMPA for purposes of market registration in accordance with MISO Rules and Business Practices. Such Participants shall indemnify and hold CMMPA harmless for any payments or penalties associated with failure to adhere to such requirements.

ARTICLE 9

DEFAULT

Section 9.1. Participant Failure to Pay.

- (a) Upon failure of Participant to make any payment in full when due under this Agreement or to perform any other obligation contained herein, CMMPA shall make demand upon the Participant, and if said failure is not cured within 48 hours from the date such demand is received by Participant, it shall, at the expiration of such period, constitute a default.
- (b) If Participant in good faith disputes the legal validity of said demand, it shall, nonetheless, make such payment or perform such obligation within said 48 hour period, under written protest, directed to CMMPA. Such protest shall specify the reasons upon which the protest is based.

Section 9.2. Other Participant Default.

In the event of any default by the Participant under any covenant, agreement or obligation of this Agreement, other than a failure to make a payment required to be made under this Agreement, CMMPA may bring any suit, action, or proceeding in law or in equity, including mandamus, injunction, specific performance, declaratory judgment, or any combination thereof, as may be necessary or appropriate to enforce any covenant, agreement or obligation under this Agreement against the defaulting Participant. Such remedies shall be in addition to all other remedies provided for herein.

Section 9.3. Termination of Defaulting Participant Agreement

If a default occurs pursuant to this Agreement that shall have continued for a period of thirty (30) days after written notice from CMMPA to Participant without the default having been remedied, then CMMPA may terminate this Agreement. Such termination shall not relieve the defaulting Participant of duty to compensate CMMPA for all damages or costs which CMMPA reasonably incurs due to Participant's default, including all reasonable costs associated with MISO Services provided by CMMPA to Participant as specified in this Agreement, which CMMPA cannot avoid at the time of such termination. If MISO provides notice to CMMPA of its intent to penalize CMMPA occasioned by a Participant default under this Agreement, then, upon written notice to the Participant, CMMPA may terminate this Agreement as specified above. No such termination shall absolve Participant of its obligation to make any payment due and unpaid as well as any amounts relating to services which were to be provided to such Participant under this Agreement which CMMPA cannot avoid at the time of such termination. In the event of a termination under this Section, the Participant shall be provided ninety (90) days following CMMPA's termination of this Agreement to designate a MP before the 2X rate specified in Section 3.1 shall begin to apply to the Participant.

ARTICLE 10

CMMPA OBLIGATIONS

Section 10.1. MP Activities and Requesting MISO Services.

CMMPA shall perform certain MP activities in connection with requesting MISO Services on behalf of the Participant consistent with: (i) CMMPA's then current registrations with MISO; (ii) the MISO TEMT. These MP activities shall include, but not be limited to, participation in the MISO established "Day-Ahead" and "Real time" energy markets and other MISO markets whether now established or that may be established at a future time and shall include those services and activities defined herein as MISO Services.

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Section 10.2. Continuity of Service.

- (a) In case of emergencies, CMMPA or its agent may temporarily interrupt, increase, or reduce deliveries of electric capacity and energy procured from or sold into the MISO markets, to the extent such products are offered through MISO markets, if CMMPA or its agent reasonably determines that such interruption, increase or reduction is necessary. CMMPA or its agent may also interrupt or reduce deliveries of electric capacity and energy from the MISO markets, to the extent such products are offered through MISO markets, in order to install equipment, make repairs, replacements, investigations, and inspections or to perform other maintenance work on generation or transmission facilities and apparatuses.
- (b) CMMPA shall not request, nor be liable for failure to request MISO Services under this Agreement when such failure or the cessation or curtailment or interference with the service is caused by Uncontrollable Forces.

ARTICLE 11

MISCELLANEOUS PROVISIONS

Section 11.1. Modification.

This Agreement shall not be modified, amended, or otherwise changed by agreement of the parties in any manner that will materially and adversely affect the security afforded by the provisions for the payment of the principal of and premium, if any, and interest on any of the Indebtedness, or any other obligations of CMMPA ranking pari passu therewith as to the security afforded by the provisions of this Agreement, as they respectively become payable, so long as any of the Indebtedness and such obligations are outstanding and unpaid or funds are not set aside for the payment or retirement thereof in accordance with the Indebtedness Resolution.

Section 11.2. Dispute Resolution Procedures.

- (a) To the extent that a formal written notice of a dispute is provided to CMMPA pursuant to section 6.4, above and such dispute must be resolved with MISO, then CMMPA will use its best efforts to resolve such dispute pursuant to the dispute resolution procedures provided for in MISO TEMT. CMMPA in conducting such a dispute will seek the input and guidance of Participant. Participant shall reimburse CMMPA for all of its reasonable costs associated with attempting to resolve the dispute, except in cases of negligence or willful misconduct by CMMPA.
- (b) Any dispute under this Agreement may be submitted to arbitration at the request of either CMMPA or Participant provided that the other party agrees. Within ten days

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after receipt of such a request, CMMPA and Participant shall confer and attempt to agree upon appointment of a single arbitrator. If such agreement is not accomplished, CMMPA or Participant may request the American Arbitration Association to appoint an arbitrator. The arbitrator shall conduct a hearing within thirty days thereafter, unless such time is extended by agreement of CMMPA and Participant. The arbitrator shall notify the parties of his or her decision, stating his or her reasons for such decision, in writing, and separately listing his or her findings of fact and conclusions of law. The arbitrator shall not have power to amend or add to this Agreement. Subject to such limitation, the decision of the arbitrator shall be final and binding on CMMPA and Participant except that either party may petition a court of competent jurisdiction for review of the arbitrator's decision. The pendency of arbitration shall affect neither the obligation of Participant to make any payment in full when due under this Agreement nor the obligations of this Agreement upon the failure of Participant to make any payment in full when due under this Agreement. The prevailing party of a disputed matter shall be entitled to recover from the other party its reasonable legal fees and other costs of arbitration and court proceedings.

Section 11.3. Assignment.

This Agreement shall inure to the benefit of, and shall be binding upon, the respective successors and assigns of the parties to this Agreement; provided, that neither this Agreement, or any interest or rights conferred herein, shall be assigned or transferred or sold by Participant, including in connection with any sale, transfer or other disposition of Participant's system (i) without the written consent of CMMPA which consent shall not be unreasonably withheld, nor (ii) if in the opinion of counsel to CMMPA such assignment or transfer or sale would adversely affect the exemption, if any, from Federal income taxation of the interest on the Indebtedness. In the event of a proposed assignment, transfer, sale, or other disposition of the Participant's system, the Participant shall provide timely notification to CMMPA, and CMMPA and the Participant will establish an agreeable schedule for CMMPA and its counsel to respectively address the requirements of clause (i) and (ii) of the preceding sentence. No such assignment, transfer, sale or other disposition shall relieve the Participant of any obligation hereunder. Notwithstanding the foregoing provisions in this section of the Agreement, any assignment, transfer, sale or other disposition shall be consistent with CMMPA's rights pursuant to agreements that CMMPA has entered into to acquire MISO Services. The parties shall seek to reasonably facilitate transfers among Participants, to entities related to Participant, to other municipal entities and municipal power agencies and like entities.

Section 11.4. Notice.

Any notice, demand, approval, proposal, protest, direction or request provided for in this Agreement may be delivered in writing by facsimile transmittal, e-mail, US mail, or in person, given or made to Participant and shall be deemed delivered, given, or made when

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delivered in writing by fax transmission, e-mail, in person, or mailed by registered or certified mail, postage prepaid, return receipt requested, addressed to the person and at the address designated in writing filed with CMMPA by Participant. Participant may change such designation, at any time and from time to time, by giving notice to CMMPA as below provided. Any such notice, demand or request to be delivered, given or made to CMMPA shall be deemed delivered, given or made if delivered in writing, in person, or sent by certified mail as above provided to the following address:

Chief Executive Officer
Central Minnesota Municipal Power Agency
7550 Corporate Way Suite 100
Eden Prairie, Minnesota 55344

With a copy to:
Richard A. Heinemann, General Counsel
Boardman & Clark, LLP
1 South Pinckney Street
Madison, WI 53701-0927

Section 11.5. Liability and Indemnification.

Each party hereto expressly agrees to indemnify, defend and save harmless the other party against all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, attorney fees and all other obligations by or to third parties, arising out of or resulting from MISO Services requested pursuant to this Agreement or MISO TEMA, except in cases of negligence or willful misconduct of the other party, its agents, servants, or employees; provided, however, that neither party shall be responsible for damage or injury to employees of the other party whenever the other party's employees are on the first party's premises. Further, this Agreement creates no contractual relationship with a customer of another party, nor does it create any third party beneficiaries.

Section 11.6. Waivers.

- (a) Any waiver at any time by either Party of its rights with respect to a default or any matter arising in connection with this Agreement shall not be deemed to be a waiver with respect to any subsequent default or matter.
- (b) Consequential Damages. Participant confirms that the express remedies and measures or damages provided for in this Agreement satisfy the essential purposes hereof. For breach of any provision for which an express remedy or measure of damages is provided, such express remedy or measure of damages shall be the sole and exclusive remedy, the party's liability shall be limited as set forth in such provision and all other remedies or damages at law or in equity are waived. If no

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remedy or measure of damages is expressly herein provided, the party's liability shall be limited to direct actual damages only, such direct actual damages shall be the sole and exclusive remedy and all other remedies or damages at law or in equity are waived. Unless expressly herein provided, neither Party shall be liable for any consequential, incidental, punitive, exemplary or indirect damages, lost profits or other business interruption damages, by statute, in tort or contract, under any indemnity provision or otherwise. It is the intent of the Parties that the limitations herein imposed on remedies and the measure of damages be without regard to the cause or causes related thereto, including the negligence of any Party, whether such negligence be sole, joint or concurrent, or active or passive. To the extent any damages required to be paid hereunder are liquidated, the Parties acknowledge that the damages are difficult or impossible to determine, otherwise obtaining an adequate remedy is inconvenient and the liquidated damages constitute a reasonable approximation of the estimated harm or loss.

- (c) The failure of either Party hereto to enforce at any time any provisions of this Agreement or to require at any time performance by the other Party hereto of any of the provisions hereof shall in no way be construed to be a waiver of such provisions nor in any way affect the validity of this Agreement or the right of such Party, thereafter, to enforce each and every provision hereof.
- (d) Participant agrees to hold harmless, indemnify, release, waive, discharge, covenant not to sue and release from all liability CMMPA, its members, employees, officials and agents for any and all costs, losses, damages, claims, settlements, charges, fees or demands (Losses) arising from, in connection with, caused by or resulting from CMMPA's performance of responsibilities under this Agreement, including responsibilities performed on CMMPA's behalf by its members, employees, officials and agents, and CMMPA's designated vendors for the procurement of FTRs and ARRs, except in cases of gross negligence or intentional wrongdoing by CMMPA, its members, employees, officials, agents, or designated vendors.

Section 11.7. Applicable Law

This Agreement is made under and shall be governed by and construed in accordance with the laws of the State of Minnesota, except with respect to matters for which Iowa municipal entities cannot waive the applicability of Iowa law or consent to the law of another jurisdiction including matters pertaining to the status of Participant as a municipal entity such as the Iowa Open Records law, all of which shall be governed by Iowa law.

Section 11.8. Severability.

If any section, paragraph, clause or provision of this Agreement shall be adjudicated by a court of competent jurisdiction to be invalid, the remainder of this Agreement shall be unaffected by such adjudication and all of the remaining provisions of this Agreement shall

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remain in full force and effect as though such section, paragraph, clause or provision or any part thereof so adjudicated to be invalid had not been included herein. However, the parties shall attempt to negotiate provisions that reasonably substitute for the invalid provision in order to place the parties in the position that they would have been had the stricken clause or provision not been found invalid.

Section 11.9. No Adverse Distinction

The terms, conditions and provisions of this Agreement shall apply to all Participants that execute a CMMPA/Participant Market Participant Agreement with CMMPA and CMMPA shall not make any unreasonable adverse distinction among Participants that are provided MISO Services through CMMPA.

Section 11.10. Duly Authorized Signatories; Binding Effect of Execution.

CMMPA as to its signatory and the Participant as to its signatory each hereby represents and warrants that the person executing this Agreement on its respective behalf is duly authorized to do so, and that, by such execution set forth on the following page of this Agreement, such party is hereby duly and lawfully bound by this Agreement.

Section 11.11. Additional Services,

Participant may be eligible to request additional services from CMMPA. Any such services shall be memorialized in a separate written agreement fully authorized and executed by the Parties. To the extent such additional services require an adjustment to the costs of MISO Services under this Agreement, such adjustment shall be memorialized in a rider to this Agreement.

RESTATED AND AMENDED MARKET PARTICIPANT AGREEMENT

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement as of the

_____ day of _____, 20__.

CENTRAL MINNESOTA MUNICIPAL POWER AGENCY

By: _____

Title: President

By: _____

Title: Secretary

ELDRIDGE ELECTRIC UTILITY

By: _____

Title:

By: _____

Title:

ATTACHMENT A
MONTHLY MARKET PARTICIPANT COSTS

“Monthly Market Participant Costs” shall mean all of CMMPA's costs net of revenue/credits associated with CMMPA performing the MP activities and requesting MISO Services on the Participant’s behalf. Such costs shall include, but are not limited to, the items of cost that are paid or incurred by CMMPA during each month of each Contract Year in connection with requesting MISO Services and are identified in this Attachment A.

- (a) Amounts paid by CMMPA to MISO for standard MISO Services, as defined in Article 2, above, including all amounts billed to CMMPA by MISO for such services;
- (b) Such other costs as may be reasonably determined by CMMPA, including costs that may be assigned to Participant for requested MISO Services (e.g. services for establishing new nodal points for data centers or other large customers, when such services are provided for under the Agreement);
- (c) Amounts to establish MISO deposits or security requirements or working capital requirements, including amounts to repay any borrowings for such requirements. A sample calculation of such deposit requirements is included as Schedule 1 to this Attachment.
- (d) Costs associated with the provision of the following Scheduling Services:
 - 1. MISO Registration and Commercial Model Registration;
 - 2. Acquisition of Real Time Load Data via SCADA;
 - 3. Load Forecasting;
 - 4. Day Ahead Load Bid Submittal;
 - 5. MISO Module E – capacity administration;
 - 6. Financial Scheduling of Bilateral Purchases;
 - 7. Tags for Physical Imports into and Exports out of MISO;
 - 8. Generation Offers and Self-Generation Schedules;
 - 9. MISO Settlement Reconciliation and Shadow Settlements;
 - 10. Detailed MISO Billing Summaries;
 - 11. Meter Data Management Agent (MDMA) Services;
 - 12. Local Security Administrator (LSA) Services;
 - 13. Transmission Reservations;
 - 14. Web Interface and MISO Alerts, as applicable;
 - 15. Archiving of Historical Data and Query Capability; and
 - 16. Designated transmission agent for securing transmission service.
- (e) Administration of FTRs and ARRs and pass through of any related thirty-party costs.

SCHEDULE 1

Schedule of credit support calculation and procedure

See Attached

Schedule 1 MISO collateral calculation

Initial MISO credit requirements will be calculated using the MISO provided 'Initial Credit Requirement Worksheet'.

Example:

Updated January 2025



Initial Credit Requirement Worksheet [Enter Company Name Here]

Directions: Enter Company Name, then choose "Yes" or "No" from the dropdown for each question and fill in the blanks based on expected volume. Once completed, send to MISO Credit as PDF. (Select "File" - "Share" - "Email" - "Send as PDF")

MVP	1) Is your Market Participant a Load Serving Entity that will withdraw energy in MISO North or Central?	PICK (Y/N)
	a) If Yes, what is your estimated net actual energy withdrawals (MWs) in MISO North or Central for the peak month over the next year, including GFAs and thru-schedules or exports.	4,844.0
	Multi-Value Projects (MVP/Schedule 26-A) collateral requirement:	\$14,693.47
<small>Formula: Peak Monthly MW x (50days/30days) x \$1.62 indicative MVP usage rate</small>		
TRANSMISSION	2) Will you be purchasing any transmission from MISO?	PICK (Y/N)
	a) If Yes, what is your monthly estimated peak load for Network Integrated Transmission Service (NITS)?	11.1
	b) If Yes, what is your monthly estimated amount of reserved Capacity for Point-To-Point (P2P) Transmission Service sinking within the MISO footprint?	0.0
	c) If Yes, what is your monthly estimated amount of reserved Capacity for Point-To-Point (P2P) Transmission Service sinking outside of the MISO footprint?	0.0
Transmission collateral requirement:		\$78,897.92
<small>Formula: MWs x 1.66 months x \$4,281.68 average NITS/P2P price per MW</small>		
DEMAND	3) Do you have any wholesale or retail load requirements or demand obligations?	PICK (Y/N)
	a) If Yes, what is the estimated peak load in megawatts?	11.1
	Demand collateral requirement:	\$183,016.80
<small>Formula: MW Load x 600 hrs per month x \$27.48 average DA price</small>		
RAA	7) Will you be active in the Resource Adequacy Auction (RAA)?	PICK (Y/N)
	a) If Yes, how many Zonal Resource Credits (in MWs) will you need to procure for Zone 5 (AMMO, CWLD)?	0.0
	b) If Yes, how many Zonal Resource Credits (in MWs) will you need to procure for all Zones other than 5?	3.5
RAA collateral requirement:		\$1,260.00
<small>Formula: ZRCs needed x auction clearing price per ZRC per day in the last annual auction (\$15.00, except for Zone 5, which is \$713.61) x 24 day exposure window</small>		
SUMMARY	Multi-Value Projects (MVP)	\$14,693
	Transmission	\$78,898
	Demand/Load	\$183,017
	Supply/Generation	\$0
	Virtuals	\$0
	FTR	\$0
	RAA (Resource Adequacy Auction)	\$1,260
	ARC (Aggregator of Retail Customers)	\$0
Total Collateral Requirement		\$277,868

Alternatively, MISO settlement based monthly billing data can be used by scaling to the appropriate credit exposure periods which are 25 days for Energy market costs and 1.66 months for transmission costs.

Example:

	Month Totals	MISO Credit Exposure Period	
Energy	\$380,525.55	25 days	\$306,875.44
Transmission	\$57,066.09	1.66 months	\$94,729.71
Admin	\$7,417.39	0	\$0.00
			\$401,605.15
		MISO Capacity Adjustment	(\$26,027.20)
			\$375,577.95

Calculation of CMMPA Credit Support Obligations

The amount of CMMPA Credit Support Obligations is to be determined in accordance with Article 5 of the Agreement using the one month average of the most recent 36 months of billing costs immediately preceding such calculation.

Example:

<u>Average Monthly Billing</u>	
	Eldridge
3-yr Total Billing	\$5,715,242.34
2023 Average	\$142,260.63
2024 Average	\$131,553.81
2025 Average	\$202,455.76
3-yr Average	\$158,756.73

Total Collateral Calculation/Requirement

In accordance with Article 5 of the Agreement, Total Collateral requirements are equal to the total of MISO Collateral plus CMMPA Credit Support Obligations (one month average of the most recent 36 months of billing costs immediately preceding such calculation)

MISO Collateral:	\$375,577.95
CMMPA Credit Support Obligation:	<u>\$158,756.76</u>
Total Collateral	\$534,334.68
Current Deposit	\$309,000.00
Amount Due to CMMPA	\$225,334.68

CMPAS reserves the right to adjust CMMPA Credit Support Obligations up or down in accordance with the terms specified in Article 5 and Schedule 1 of this Agreement based on changes to market prices which are ultimately driven by changes in weather conditions, gas prices, load additions or subtractions, and capacity auction prices among others. These changes will only occur when necessary, are not expected to be frequent, and will not occur more frequently than once per contract year unless circumstances dictate otherwise as detailed in Section 5.1(c) of the Agreement.

ATTACHMENT B

MONTHLY INVOICE TEMPLATE

See Attached

4903-5826-5229-4\10441-002

WATER MAIN BREAK REPORT

Date: 2/24/2026

Address: 613 N 8th St.

Duration: 10:30 AM – 7:15 PM

Estimated Water Loss: 20,000 Gallons

of Customers: 16 Homes affected on N 8th St.

Notes: Sadie Wagner called at 10:12 AM that there was a potential main break at 613 N 8th St. Officer Gale with Eldridge PD looked into the matter that was reported by a postal worker and he confirmed with water department staff that there was a break

Water department staff got onsite to assess the extent of the break and emergency locates were called at 10:33 AM. Water, Electric and Public works began to mobilize and gather required equipment and load trucks with backfill materials.

After emergency locates were completed, digging began around 1:00 PM. Vanguard was the company that was onsite locating the gas. Two panels of sidewalk and the corner of a driveway approach needed to be removed to perform the repair.

At 1:45 PM an unmarked gas main on the east side of the road was struck requiring all equipment to be shut down and the crew to remove themselves from the site. Mid American Energy emergency services were called at 1:47 PM and 911 was called at 2:21 PM.

When Mid American energy got to a point where Eldridge staff could fix the water main the break was found at 5:30 PM and repaired at 5:55 PM. Water was fully restored at 6:00 PM.

Clean up and equipment removal was completed by 7:15 PM. Thank you to the Electric department for being onsite and assisting with the repair. Thank you to the public works department for getting trucks prepared to remove spoils and loaded with backfill materials. Thank you to Eldridge Fire and Eldridge PD for their assistance with the gas leak and closing the road.

Mid American Energy stayed onsite later into the night to continue their repair on the gas main.

Cegan Long
Water Superintendent
clong@cityofeldridgeia.org
563-209-6573

Laboratory Report

Eldridge, City of
 Cegan Long
 305 North 3rd Street
 Eldridge, IA 52748

Date Received: 02/10/26 13:39
Date Reported: 02/20/26 14:20
Project: PWS ID # IA8230008 Eldridge
 Email reports and Invoice

Analyte	Result	Units	Analyzed	Analyst	Method	Notes
Sample ID: 1801 S, 5th Street Grab			Date Sampled: 02/09/26 14:17		Date Received: 02/10/26 13:39	
Lab No.: 26B1040-01			Sampled by: Cegan Long			
Classical Chemistry Parameters						
Total Coliforms	Negative	MPN/100 mL	02/10/26 13:40	ad	SM 9223B	
Field Chlorine	2.83	mg/L	02/09/26 14:17	Cegan Lc	SM 4500 Cl G	
N-1	Negative					
_A	Bacteria Absent					

Analysis Certified by:



Amy Dobbela For Randall Wanke, Laboratory Director

Randal Wanke, Laboratory Director



Iowa SDWA Form

Lab Sample ID # 26B1040

Facility Name:	PWS ID:
Eldridge	IA 8230008

Test analysis (Please Circle, Check or Write-in) (Check IA DNR Permit for Accuracy)

Total Coliform Water samples must be analyzed within 30 hours of collection.	Contact Person:	Mail Report:
	Contact Phone:	Email Report:

Sample Type: (Check one)	<input checked="" type="checkbox"/> Routine	
	<input type="checkbox"/> Triggered	SEP# _____
	<input type="checkbox"/> Repeat (circle one->)	upstream downstream original
	<input type="checkbox"/> Special	

Free Chlorine	Total Chlorine
- . -	2 . 83

Lab Tech Note:
Add Field Data Analysis
Total Chlorine at Log-in on
to **Res. Cl mg/L tab.**

Sample date: Month Day Year Time: Hour Minutes (AM - PM)

02 09 2026 14 17

Facility ID 950 Sampling Point ID (use facility ID, if not #assigned) 950

Sample Collection Location: 1801 S 5th St Sample Collector (last name, first name) Long, Cegan

Client Signature [Signature] Print name Cegan Long

Date 2/9/26 Time 14:18

Lab Signature [Signature] Print name _____

Date 2-10-26 Time 13:40

QCA Analytical Services participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied. Drinking Water Certifications: Iowa (113)

Laboratory Report

Eldridge, City of
 Cegan Long
 305 North 3rd Street
 Eldridge, IA 52748

Date Received: 02/10/26 13:36
Date Reported: 02/20/26 14:20
Project: PWS ID # IA8230008 Eldridge
 Email reports and Invoice

Analyte	Result	Units	Analyzed	Analyst	Method	Notes
Sample ID: 880 E. Sheridan Drive Grab			Date Sampled: 02/09/26 14:05		Date Received: 02/10/26 13:36	
Lab No.: 26B1038-01			Sampled by: Cegan Long			
Classical Chemistry Parameters						
Total Coliforms	Negative	MPN/100 mL	02/10/26 13:37	ad	SM 9223B	
Field Chlorine	2.57	mg/L	02/09/26 14:05	Cegan Lc	SM 4500 Cl G	
N-1	Negative					
_A	Bacteria Absent					

Analysis Certified by:



Amy Dobbela For Randall Wanke, Laboratory Director

Randal Wanke, Laboratory Director

21.6



Iowa SDWA Form

Lab Sample ID # 26B1038

Facility Name: Eldridge	PWS ID: IA 8230008
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Test analysis (Please Circle, Check or Write-in) (Check IA DNR Permit for Accuracy)

Total Coliform Water samples must be analyzed within 30 hours of collection.	Contact Person:	Mail Report:
	Contact Phone:	Email Report:

Sample Type: (Check one)

<input checked="" type="checkbox"/>	Routine	
<input type="checkbox"/>	Triggered	SEP# _____
<input type="checkbox"/>	Repeat (circle one->)	upstream downstream original
<input type="checkbox"/>	Special	

Free Chlorine	Total Chlorine
- . -	2 . 97

Lab Tech Note:
Add Field Data Analysis
Total Chlorine at Log-in on
to **Res. Cl mg/L tab.**

Sample date: Month Day Year Time: Hour Minutes (AM ~~PM~~)

02 09 2026 14 05 (AM ~~PM~~)

Facility ID: 950 Sampling Point ID (use facility ID, if not #assigned): 950

Sample Collection Location: 880 E Sheridan Dr. Sample Collector (last name, first name): Long, Cegan

Client Signature: [Signature] Print name: Cegan Long

Date: 2/9/26 Time: 14:05

Lab Signature: [Signature] Print name: _____

Date: 2-10-26 Time: 13:38

QC Analytical Services participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied. Drinking Water Certifications: Iowa (113)

Laboratory Report

Eldridge, City of
 Cegan Long
 305 North 3rd Street
 Eldridge, IA 52748

Date Received: 02/10/26 13:34
Date Reported: 02/20/26 14:20
Project: PWS ID # IA8230008 Eldridge
 Email reports and Invoice

Analyte	Result	Units	Analyzed	Analyst	Method	Notes
Sample ID: 914 W Hickory St - Routine Grab			Date Sampled: 02/09/26 13:52		Date Received: 02/10/26 13:34	
Lab No.: 26B1036-01			Sampled by: Cegan Long			
Classical Chemistry Parameters						
Total Coliforms	Negative	MPN/100 mL	02/10/26 13:35	ad	SM 9223B	
Field Chlorine	3.21	mg/L	02/09/26 13:52	Cegan Lc	SM 4500 Cl G	
N-1	Negative					
_A	Bacteria Absent					

Analysis Certified by:



Amy Dobbela For Randall Wanke, Laboratory Director

Randal Wanke, Laboratory Director

217



Iowa SDWA Form

Lab Sample ID # 26B1036

Facility Name: Eldridge	PWS ID: IA 8230008
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Test analysis (Please Circle, Check or Write-in) (Check IA DNR Permit for Accuracy)

Total Coliform Water samples must be analyzed within 30 hours of collection.	Contact Person:	Mail Report:
	Contact Phone:	

Sample Type: (Check one)	<input checked="" type="checkbox"/> Routine	
	<input type="checkbox"/> Triggered	SEP# _____
	<input type="checkbox"/> Repeat (circle one->)	upstream downstream original
	<input type="checkbox"/> Special	

Free Chlorine	Total Chlorine
<u>-</u> . <u>-</u>	<u>3</u> . <u>21</u>

Lab Tech Note:
Add Field Data Analysis
Total Chlorine at Log-in on
to Res. Cl mg/L tab.

Sample date: Month 02 Day 09 Year 2026 Time: Hour 13 Minutes 52 (AM - PM)

Facility ID 950

Sampling Point ID (use facility ID, if not #assigned) 950

Sample Collection Location: 914 W Hickory St.

Sample Collector (last name, first name) Long, Cegan

Client Signature [Signature] Print name Cegan Long

Date 2/9/26 Time 13:53

Lab Signature [Signature] Print name _____

Date 2-10-26 Time 13:36

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Laboratory Report

Eldridge, City of
 Cegan Long
 305 North 3rd Street
 Eldridge, IA 52748

Date Received: 02/10/26 13:32
Date Reported: 02/20/26 14:20
Project: PWS ID # IA8230008 Eldridge
 Email reports and Invoice

Analyte	Result	Units	Analyzed	Analyst	Method	Notes
Sample ID: 821 W Donahue St - Routine Grab			Date Sampled: 02/09/26 13:38		Date Received: 02/10/26 13:32	
Lab No.: 26B1032-01			Sampled by: Cegan Long			

Classical Chemistry Parameters

Total Coliforms	Negative	MPN/100 mL	02/10/26 13:32	ad	SM 9223B	
Field Chlorine	3.52	mg/L	02/09/26 13:38	Cegan Lc	SM 4500 Cl G	

N-1 Negative
 _A Bacteria Absent

Analysis Certified by:



Amy Dobbela For Randall Wanke, Laboratory Director

Randal Wanke, Laboratory Director

20.8



Iowa SDWA Form

Lab Sample ID # 26B1032

Facility Name: Eldridge	PWS ID: IA 8230008
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Test analysis (Please Circle, Check or Write-in) (Check IA DNR Permit for Accuracy)

Total Coliform Water samples must be analyzed within 30 hours of collection.	Contact Person:	Mail Report:
	Contact Phone:	Email Report:

Sample Type: (Check one)	<input checked="" type="checkbox"/> Routine	
	<input type="checkbox"/> Triggered	SEP# _____
	<input type="checkbox"/> Repeat (circle one->)	upstream downstream original
	<input type="checkbox"/> Special	

Free Chlorine	Total Chlorine
- . -	3 . 52

Lab Tech Note:
Add Field Data Analysis
Total Chlorine at Log-in on
to **Res. Cl mg/L tab.**

Sample date: Month Day Year Time: Hour Minutes (AM ~~PM~~)

0 2 0 9 2 0 2 6 1 3 3 8

Facility ID: 950 Sampling Point ID (use facility ID, if not #assigned): 950

Sample Collection Location: 821 W Donahue St Sample Collector (last name, first name): Long, Cegan

Client Signature [Signature] Print name Cegan Long

Date 2/9/26 Time 13:39

Lab Signature [Signature] Print name _____

Date 2-10-26 Time 13:32

QC Analytical Services participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied. Drinking Water Certifications: Iowa (113)

Laboratory Report

Eldridge, City of
 Cegan Long
 305 North 3rd Street
 Eldridge, IA 52748

Date Received: 02/10/26 13:30
Date Reported: 02/20/26 14:21
Project: PWS ID # IA8230008 Eldridge
 Email reports and Invoice

Analyte	Result	Units	Analyzed	Analyst	Method	Notes
Sample ID: 2199 E Lomar St - Routine Grab			Date Sampled: 02/10/26 11:09		Date Received: 02/10/26 13:30	
Lab No.: 26B1030-01			Sampled by: Cegan Long			
Classical Chemistry Parameters						
Total Coliforms	Negative	MPN/100 mL	02/10/26 13:31	ad	SM 9223B	
Field Chlorine	1.04	mg/L	02/10/26 11:09	Cegan Lc	SM 4500 Cl G	
N-1	Negative					
_A	Bacteria Absent					

Analysis Certified by:



Amy Dobbela For Randall Wanke, Laboratory Director

Randal Wanke, Laboratory Director

19.4



Iowa SDWA Form

Lab Sample ID # 26B1030

Facility Name:	PWS ID:
Eldridge	IA 8230008

Test analysis (Please Circle, Check or Write-in) (Check IA DNR Permit for Accuracy)

Total Coliform Water samples must be analyzed within 30 hours of collection.	Contact Person:	Mail Report:
	Contact Phone:	

Sample Type: (Check one)	<input checked="" type="checkbox"/>	Routine	
	<input type="checkbox"/>	Triggered	SEP# _____
	<input type="checkbox"/>	Repeat (circle one->)	upstream downstream original
	<input type="checkbox"/>	Special	

Free Chlorine	Total Chlorine
- . -	1 . 04

Lab Tech Note:
Add Field Data Analysis
Total Chlorine at Log-in on
to **Res. Cl mg/L tab.**

Sample date: Month 02 Day 10 Year 2026 Time: Hour 11 Minutes 09 (AM - PM)

Facility ID 950

Sampling Point ID (use facility ID, if not #assigned) 950

Sample Collection Location: 2199 E Lomar St

Sample Collector (last name, first name) Long, Cegan

Client Signature [Signature] Print name Cegan Long

Date 2/10/26 Time 11:10

Lab Signature [Signature] Print name _____

Date 2-10-26 Time 1:31

QC Analytical Services participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied. Drinking Water Certifications: Iowa (113)

Laboratory Report

Eldridge, City of
 Cegan Long
 305 North 3rd Street
 Eldridge, IA 52748

Date Received: 02/10/26 13:28
Date Reported: 02/20/26 14:21
Project: PWS ID # IA8230008 Eldridge
 Email reports and Invoice

Analyte	Result	Units	Analyzed	Analyst	Method	Notes
Sample ID: 120 N Scott Park Rd - Routine Grab			Date Sampled: 02/10/26 8:49		Date Received: 02/10/26 13:28	
Lab No.: 26B1028-01			Sampled by: Cegan Long			
Classical Chemistry Parameters						
Total Coliforms	Negative	MPN/100 mL	02/10/26 13:29	ad	SM 9223B	
Field Chlorine	2.09	mg/L	02/10/26 8:49	Cegan Lc	SM 4500 Cl G	
N-1	Negative					
_A	Bacteria Absent					

Analysis Certified by:



Amy Dobbela For Randall Wanke, Laboratory Director

Randal Wanke, Laboratory Director

19.8

Facility Name: Eldridge	PWS ID: IA 8230008
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Test analysis (Please Circle, Check or Write-in) (Check IA DNR Permit for Accuracy)

Total Coliform Water samples must be analyzed within 30 hours of collection.	Contact Person:	Mail Report:
	Contact Phone:	

Sample Type: (Check one)

<input checked="" type="checkbox"/>	Routine	
<input type="checkbox"/>	Triggered	SEP# _____
<input type="checkbox"/>	Repeat (circle one->)	upstream downstream original
<input type="checkbox"/>	Special	

Free Chlorine: - . -

Total Chlorine: 2 . 09

Lab Tech Note:
Add Field Data Analysis
Total Chlorine at Log-in on
to **Res. Cl mg/L tab.**

Sample date: Month 02 Day 10 Year 2026 Time: Hour 08 Minutes 49 (AM) - PM

Facility ID: 950

Sampling Point ID (use facility ID, if not #assigned): 950

Sample Collection Location: 120 N Scott Park Rd

Sample Collector (last name, first name): Long, Cegan

Client Signature: [Signature] Print name: Cegan Long

Date: 2/10/26 Time: 8:53

Lab Signature: [Signature] Print name: _____

Date: 2-10-26 Time: 3:30

Laboratory Report

Eldridge, City of
 Cegan Long
 305 North 3rd Street
 Eldridge, IA 52748

Date Received: 02/10/26 13:24
Date Reported: 02/20/26 14:21
Project: PWS ID # IA8230008 Eldridge
 Email reports and Invoice

Analyte	Result	Units	Analyzed	Analyst	Method	Notes
Sample ID: 105 E LeClaire Rd - Routine Grab			Date Sampled: 02/10/26 8:29		Date Received: 02/10/26 13:24	
Lab No.: 26B1025-01			Sampled by: Eldridge Personnel			

Classical Chemistry Parameters

Total Coliforms	Negative	MPN/100 mL	02/10/26 13:24	ad	SM 9223B	
Field Chlorine	1.52	mg/L	02/10/26 8:29	Eldridge I	SM 4500 Cl G	

N-1 Negative
 _A Bacteria Absent

Analysis Certified by:



Amy Dobbela For Randall Wanke, Laboratory Director

Randal Wanke, Laboratory Director

19.8

Iowa SDWA Form

Lab Sample ID # 26B1025

Facility Name: Eldridge	PWS ID: IA 8230008
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Test analysis (Please Circle, Check or Write-in) (Check IA DNR Permit for Accuracy)

Total Coliform Water samples must be analyzed within 30 hours of collection.	Contact Person:	Mail Report:
	Contact Phone:	

Sample Type: (Check one)

<input checked="" type="checkbox"/>	Routine	
<input type="checkbox"/>	Triggered	SEP# _____
<input type="checkbox"/>	Repeat (circle one->)	upstream downstream original
<input type="checkbox"/>	Special	

Free Chlorine: - . -

Total Chlorine: 1 . 52

Lab Tech Note:
 Add Field Data Analysis
 Total Chlorine at Log-in on
 to **Res. Cl mg/L tab.**

Sample date: Month 0 2 Day 1 0 Year 2 0 2 6 Time: Hour 0 8 Minutes (AM - PM) 2 9

Facility ID: 950

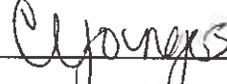
Sampling Point ID (use facility ID, if not #assigned): 950

Sample Collection Location: 105 E LeClaire Rd.

Sample Collector (last name, first name): Long, Cegan

Client Signature  Print name Cegan Long

Date 2/10/26 Time 8:36

Lab Signature  Print name _____

Date 2-10-26 Time 13:25

Laboratory Report

Eldridge, City of
 Cegan Long
 305 North 3rd Street
 Eldridge, IA 52748

Date Received: 02/10/26 13:21
Date Reported: 02/20/26 14:21
Project: PWS ID # IA8230008 Eldridge
 Email reports and Invoice

Analyte	Result	Units	Analyzed	Analyst	Method	Notes
Sample ID: 305 N 3rd St - Routine Grab			Date Sampled: 02/10/26 8:14		Date Received: 02/10/26 13:21	
Lab No.: 26B1023-01			Sampled by: Cegan Long			

Classical Chemistry Parameters

Total Coliforms	Negative	MPN/100 mL	02/10/26 13:22	ad	SM 9223B	
Field Chlorine	3.18	mg/L	02/10/26 8:14	Cegan Lc	SM 4500 Cl G	

N-1 Negative
 _A Bacteria Absent

Analysis Certified by:



Amy Dobbela For Randall Wanke, Laboratory Director

Randal Wanke, Laboratory Director

Iowa SDWA Form

Lab Sample ID # 26B1023

20.2

Facility Name: Eldridge	PWS ID: IA 8230008
----------------------------	-----------------------

Test analysis (Please Circle, Check or Write-in) (Check IA DNR Permit for Accuracy)

Total Coliform Water samples must be analyzed within 30 hours of collection.	Contact Person:	Mail Report:
	Contact Phone:	

Sample Type: (Check one)

<input checked="" type="checkbox"/>	Routine	
<input type="checkbox"/>	Triggered	SEP# _____
<input type="checkbox"/>	Repeat (circle one->)	upstream downstream original
<input type="checkbox"/>	Special	

Free Chlorine: — . —

Total Chlorine: 3 . 18

Lab Tech Note:
Add Field Data Analysis
Total Chlorine at Log-in on
to **Res. Cl mg/L tab.**

Sample date: Month 02 Day 10 Year 2026 Time: Hour 08 Minutes 14 (AM - PM)

Facility ID: 950

Sampling Point ID (use facility ID, if not #assigned): 950

Sample Collection Location: 305 N 3rd St.

Sample Collector (last name, first name): Long, Cegan

Client Signature: [Signature] Print name: Cegan Long

Date: 2/10/26 Time: 8:21

Lab Signature: [Signature] Print name: _____

Date: 2-10-26 Time: 13:23

Laboratory Report

Eldridge, City of
 Cegan Long
 305 North 3rd Street
 Eldridge, IA 52748

Date Received: 02/10/26 13:19
Date Reported: 02/20/26 14:16
Project: PWS ID # IA8230008 Eldridge
 Email reports and Invoice

Analyte	Result	Units	Analyzed	Analyst	Method	Notes
Sample ID: 505 W. Donahue Street Grab			Date Sampled: 02/10/26 11:37		Date Received: 02/10/26 13:19	
Lab No.: 26B1021-01			Sampled by: Cegan Long			
Classical Chemistry Parameters						
Fluoride	0.780	mg/L	02/10/26 15:44	EV	EPA 300.0	

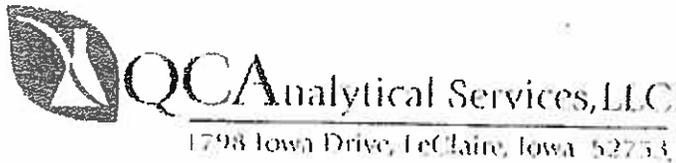
Analysis Certified by:

Randall Wanke, Ph.D.

Amy Dobbela For Randall Wanke, Laboratory Director

Randal Wanke, Laboratory Director

21.6



Iowa SDWA Form

Lab Sample ID # 26B1021

Facility Name: Eldridge	PWS ID: IA 8230008
----------------------------	-----------------------

Test analysis (Please Circle, Check or Write-in) (Check IA DNR Permit for Accuracy)

Fluoride	Contact Person:	Mail Report:
Hold time: 28 days	Contact Phone:	Email Report:

Total Fluoride (Field)

0 . 67

Lab Tech Note:
Add Field Data Analysis
Fluoride at Log-in

Sample date: Month Day Year Time: Hour Minutes (AM - PM)

0 2 1 0 2 0 2 6 1 1 3 7

Facility ID

Sampling Point ID (use facility ID, if not #assigned)

950

950

Sample Collection Location:

Sample Collector (last name, first name)

505 W Donahue St

Long, Cegan

Client Signature [Signature] Print name Cegan Long

Date _____ Time _____

Lab Signature [Signature] Print name _____

Date 2-10-26 Time 3:15p

AMENDMENT TO AGREEMENT
between SHIVE-HATTERY, INC. AND THE CLIENT

ATTN: Nevada Lemke
CLIENT: City of Eldridge, IA
305 N. Third Street
PO Box 375
Eldridge, IA 52748-0375

PROJECT: City of Eldridge Fellner's Addition Roadway Reconstruction

PROJECT LOCATION: Eldridge, IA

ORIGINAL AGREEMENT DATE: July 14, 2025

AMENDMENT NO.: 1

AMENDMENT DATE: February 25, 2026

City of Eldridge, IA and Shive-Hattery, Inc. (S-H) agree to amend the Original Agreement as follows:

PROJECT DESCRIPTION

The Project Description is revised as follows:

The project shall include the addition of approximately 875 linear feet of 8" watermain installed along E Lomar St; along with associated residential water services and roadway appurtenances.

SCOPE OF SERVICES

Tasks for the Scope of Services are revised as follows:

1. Prepare Water Main Plan and Profile Sheets (MWM Sheets) for E Lomar St. Plan sheets to include:
 1. Water main layout and profile.
 2. Water service curb stop locations and connection locations at residential homes.
 3. Fire hydrant and water valve locations.
2. Prepare specifications for water main and associated water services and appurtenances.
3. Prepare resident water service connection letter agreement in coordination with city staff.
4. Prepare updated engineer's opinion of probable construction cost for additional water main work.
5. Prepare and submit water main permit application to Iowa DNR for review and approval.

CLIENT RESPONSIBILITIES

Client Responsibilities are revised as follows:

NO CHANGES

SCHEDULE

The Schedule is revised as follows:

NO CHANGES



COMPENSATION

The previous Compensation was as follows:

Description	Fee Type	Fee	Estimated Expenses	Total
Original Contract Scope of Services	Fixed Fee	\$101,000	Included	\$101,000
TOTAL		\$101,000	Included	\$101,000

The Compensation is revised as follows:

Description	Fee Type	Fee	Estimated Expenses	Total
Original Contract Scope of Services	Fixed Fee	\$101,000	Included	\$101,000
Amendment 1	Fixed Fee	\$8,700	Included	\$8,700
TOTAL		\$109,700	Included	\$109,700

Fee Types:

- Fixed Fee - We will provide the Scope of Services for the fee amounts listed above.

Expenses:

- Included - For Fixed Fee Type, expenses have been included in the Fee amount. For Hourly Fee Types, expenses will be reimbursed in accordance with our Reimbursable Expense Fee Schedule in effect at the time that the expense is incurred.

ADDITIONAL SERVICES

The Additional Services are revised as follows:

NO CHANGES

EXHIBITS

AGREEMENT

When accepted by both parties, this Amendment will amend the Original Agreement and is subject to all other terms and conditions of the Original Agreement. Original, facsimile, electronic signatures or other electronic acceptance by the parties (and returned to Shive-Hattery) are deemed acceptable for binding the parties to the Amendment. The Client representative signing this Amendment warrants that he or she is authorized to enter into this Amendment on behalf of the Client.

Sincerely,
SHIVE-HATTERY, INC.



Zach Howell, Civil Engineer
zhowell@shive-hattery.com

AMENDMENT ACCEPTED AND SERVICES AUTHORIZED TO PROCEED

CLIENT: City of Eldridge, IA

BY: _____ **TITLE:** _____
(signature)

PRINTED NAME: _____ **DATE ACCEPTED:** _____



February 10, 2026

City of Eldridge
Water Works Department
305 N 3rd Street
Eldridge, IA 52748

Attn: Mr. Cegan Long, Water Treatment & Distribution Superintendent
Re: Well #4

Dear Cegan,

The following is regarding Well #4. The pumping equipment has been removed, the well was televised and we found the well to be 440 feet deep. Viewing the televising footage, it appears the sluffing formation is coming from the area below the casing at 218 to 248 feet. If the well is 480 feet, there is approximately 40 feet of shale at the bottom. The material appears to be very soft and liquified.

I am somewhat surprised that the shale doesn't become an issue in your treatment process when it softens up and sluffs off. I assume we should remove the material that has been released so it doesn't continue to build up.

The vertical turbine pumping equipment has been removed and inspected. The vertical turbine pump along with the vertical hollow shaft motor will need rebuilt. The column pipe is all in good shape and will not require replacement. The line shaft removed is carbon steel which will require replacement. I am providing a price for stainless steel to eliminate replacing it every time it is removed.

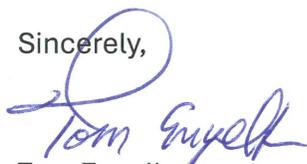
The following are the costs associated with repairing Well #4.

Eldridge Well #4 Repairs

- | | |
|---|--------------|
| 1. 18 – 1-1/4" x 10' stainless steel line shaft at \$565.11 each | \$ 10,171.98 |
| 2. 2 – 1-1/4" x 5' stainless steel line shaft at \$341.50 each | \$ 683.00 |
| 3. 20 – 1-1/4" stainless steel line shaft couplings at \$65.00 each | \$ 1,300.00 |

4. 20 – 1-1/4" x 1-3/8" stainless steel sleeves at \$112.80 each	\$ 2,256.00
5. 20 – 1-3/8" rubber line shaft bearings at \$44.55 each	\$ 891.00
6. 4 – 10H bronze wear rings at \$298.25 each	\$ 1,193.00
7. 7 – 10H bronze bowl bearings at \$106.65 each	\$ 746.55
8. 1 – 10H-4 stage stainless steel bowl shaft	\$ 984.80
9. 1 – 1-1/4" stainless steel intermediate shaft	\$ 707.30
10. One 10" x 10' epoxy coated tail pipe with cone strainer	\$ 1,851.00
11. One packing gland bearing and packing rings	\$ 170.00
12. 2 – 1" x 12" stainless steel nipples and breathers	\$ 420.00
13. Motor repair due to bearing failure, disassemble machine and sleeve bearing housings, clean and bake windings, PDMA/Baker testing, precision balance rotor and armature, install new bearing, machine and polish shaft bearing surface, reassemble and test	\$ 3,552.40
14. Altitude tubing	\$ 161.50
15. Miscellaneous material: 3M electrical splice kits, 2" pipe wrap, gland gasket, base gasket, etc.	\$ 450.00
16. Machine shop labor to disassemble 4-stage vertical turbine pump, remove and replace bowl bearings and wear rings, machine impeller skirts to accommodate new wear rings, remove and replace rubber line shaft bearing, install line shaft sleeves, reassemble turbine pump, sandblast and paint bowl assembly and discharge head, remove and replace stuffing box bearing and packing rings, 37 hours at \$115.00 per hour	\$ 4,255.00
17. Field labor to remove accumulated shale from the bottom of the well by use of suction bailer. The 40 feet of accumulated shale has sealed off the lower extension of the water bearing aquifer, estimate 16 hours at \$325.00 per hour	\$ 5,200.00
18. Field labor for three-man field crew with 25-ton service rig to install pumping equipment, 18 hours at \$365.00 per hour	\$ 6,570.00
19. Chlorinate well with 2,000-gallon solution and chlorine stabilizer, flush well and test	\$ 2,200.00
20. Estimated freight charges	\$ 650.00
Total cost for the above	\$ 44,413.53

Sincerely,



Tom Engelken

Sales Representative



Discharge base packing box area



Discharge base



Discharge base with breather ports



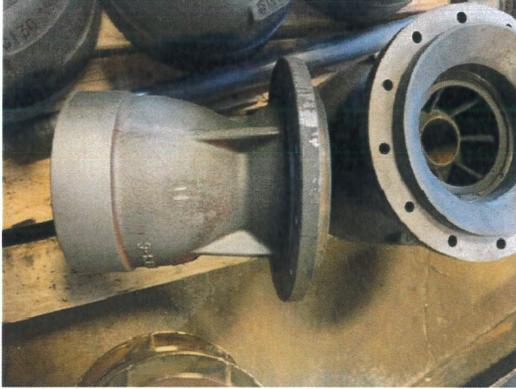
Bowl shaft fracture



Intermediate bowls and impellers



Bowl shaft with bearing surface wear



Suction case



Intermediate bowl and bowl bearing



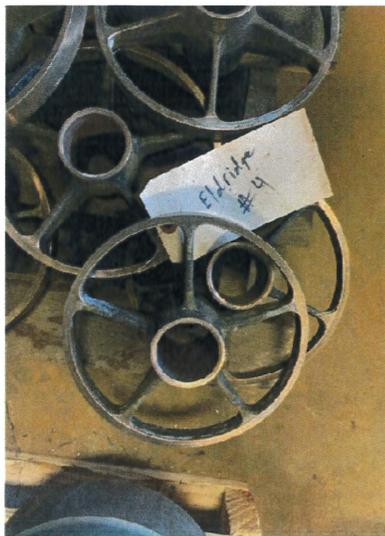
Bronze impeller



Discharge bowl with removed bowl bearing



Column spiders



Column spiders with bearing inserts removed

Re: Eldridge, IA Proposal

From Robert Jensen <rjensen@klmengineering.com>

Date Wed 2/18/2026 11:33 AM

To Cegan Long <clong@cityofeldridgeia.org>; Amy Stein <astein@klmengineering.com>

Cc Sadie Wagner <swagner@cityofeldridgeia.org>; Nevada Lemke <nlemke@cityofeldridgeia.org>

Hi Cegan,

Here are some answers I can give you and your team for the next meeting.

1)What is the life expectancy of the 81,000-gallon aerator detention tank if it is refurbished?

Answer: If Maintained the tank can last many decades. The tank and the coatings will be like new following reconditioning. The Coatings alone will last 20-25 years. We will make sure all the required structure modifications are completed.

2)Based on the report, the tank seems to be in substandard shape and if the refurbishment will only gain a few more years, would money be better spent towards a new tank that would last longer than the current tank when repaired?

Answer: No, Your tank will gain decades when maintained.

3)What is the average cost of a detention tank of the size that is currently installed?

Answer: It's hard to answer that question without knowing all the answers, like if we can use the same spot, if a new foundation is needed. The tank itself can be estimated at \$300,000 to \$500,000. That does not include the aerator on the tank.

4)Is a dry tank inspection needed to gather more information and get a more accurate estimate of life expectancy for the detention tank?

Answer: No, If the city decides to do the reconditioning of the tank the ROV report is enough for us to get started but we would suggest getting the Aerator looked at to make sure it's up to date, which we can set up. I suggest not to sign up for the service agreement on that tank if you are moving forward on the reconditioning.

5)What is the typical process that municipalities you've performed dry tank inspections on Clearwell's go through

Answer: Most municipalities follow a process similar to the steps below for a Dry Tank Cleanout:

Develop a Water Quality Protection Plan

This usually includes:

- Draining procedures.
- Isolation valving checks.
- Protection from contamination (e.g., physical security, backflow prevention).
- Maintaining positive pressure throughout the system.
- Locate all valves connected to the clearwell.
- Confirm valves fully close and are operable.
- Set up or test bypass piping if needed to maintain service.

- It's a good idea to contact Iowa Rural water; they can help come up with a plan to get the tank offline.
- Our team will be leaving the sediment on site you may need to find a place to dispose of it.

Feel free to reach out to me anytime.



Robert Jensen
Business Development Rep/Field Inspector

KLM Engineering, Inc.

☎ 651-773-5111

📞 651-219-2746

✉ rjensen@klmengineering.com

🌐 KLMEngineering.com



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From: Cegan Long <clong@cityofeldridgeia.org>

Sent: Wednesday, February 18, 2026 8:15 AM

To: Amy Stein <astein@klmengineering.com>; Robert Jensen <rjensen@klmengineering.com>

Cc: Sadie Wagner <swagner@cityofeldridgeia.org>; Nevada Lemke <nlemke@cityofeldridgeia.org>

Subject: Re: Eldridge, IA Proposal

Good morning Amy and Robert,

The utility board reviewed the inspection reports at last night's meeting and they have some questions before we move forward with the inspection agreement.

What is the life expectancy of the 81,000 gallon aerator detention tank if it is refurbished?

Based on the report the tank seems to be in substandard shape and if the refurbishment will only gain a few more years, would money be better spent towards a new tank that would last longer than the current tank when repaired?

What is the average cost of a detention tank of the size that is currently installed?

February 5, 2026

Sent via Email Only

Cegan Long
Superintendent Water Treatment & Distribution
City of Eldridge, Iowa
305 North 3rd Street
Eldridge, Iowa 52748

**RE: Clearwell "GSR"
81,000-Gallon Detention Tank "Standpipe"
Eldridge, Iowa**

Dear Mr. Long:

KLM is pleased to submit a service agreement for the above-referenced water storage tanks for a ten (10) year period. The first evaluation will be during the 2031 construction season. KLM proposes to perform the evaluations on a five (5)-year cycle.

KLM Engineering provides AMPP (NACE) and AWS trained inspectors, certificated in competent climbing, that have experience and comply with the Occupational Safety and Health Standards (OSHA), American Water Works Association (AWWA), American Concrete Industry (ACI) and State Regulations.

KLM Engineering provides evaluation reports that are reviewed by an engineer who has authored the report and/or were written under the engineer's direct supervision.

DOCUMENTATION

KLM will provide to the Owner an evaluation report after each inspection. These reports will provide the following beneficial information:

1. Clearly stating the actual condition of the coating and tank structure.
2. For coated reservoirs, provide a life expectancy estimate of the coatings and/or an estimated timeline for coating replacement.
3. Identify structure deficiencies and recommended repairs to bring the reservoir into compliance with ACI, AWWA, OSHA, DNR and State Regulations.
4. Provide a schedule for performing recommended maintenance work.
5. Provide a Cost Estimate for all structure repairs and coating replacement for budgetary purposes only.
6. Identify the quantity of sediment and recommend a timeline for cleanout, if warranted.
7. Include color photographs identifying current conditions and any required repairs.
8. Recommend a timeline for future evaluations.

The evaluation report will be provided to the Owner in digital format (PDF), unless indicated to KLM otherwise.

SCOPE OF WORK

ROV Evaluation

KLM plans to utilize a two-man crew and a Remote Operated Vehicle (ROV) to perform the evaluations. This evaluation method can be performed in one day.

KLM will provide AMPP (NACE) Coatings Inspectors, with proper training to perform this type of evaluation. To perform an ROV evaluation, the Owner is required to have the water at, or near, the high-water level (HWL) at the start of the evaluation. KLM inspectors will insert a disinfected ROV into the tank interior for the interior inspection of the roof, roof structure and all appurtenances such as vents, manways and ladders. Photographs will be taken with an underwater camera, which will show coating deficiencies. The camera will be disinfected in accordance with AWWA. The inlet pipe or wet riser is **excluded** from the inspection, unless otherwise provided in this Agreement.

Dry Tank Cleanout Evaluation

KLM will evaluate the floor, the reservoir walls and any interior structure accessible without rigging the tank. All accessible exterior surfaces, including the roof, will also be evaluated. KLM will measure and photograph all areas that need to be included in the evaluation report. KLM will also remove any sediment inside the tower and sediment will remain on site.

When the tanks are empty, KLM will perform a clean-out of the tower interior and riser. KLM will supply the chlorine and disinfect the tank in accordance with Method 2 or 3 of AWWA C652.

Exterior and Interior Inspection

The exterior and interior evaluation is critical to determine whether the coating is a candidate for repairs or reconditioning. KLM inspectors will also check for structure deficiencies and OSHA compliance.

Exterior and interior evaluation is critical for evaluating the coating conditions to determine whether the coating is a candidate for repairs or reconditioning. KLM inspectors will also check for structure deficiencies and OSHA compliance.

For each evaluation, KLM will provide a AMPP (NACE) coatings inspector that is properly trained and qualified to perform this type of evaluation. The exterior will be evaluated from all areas accessible without rigging, unless otherwise written into this Agreement. Conditions of both the interior and exterior will be examined using ultrasonic thickness readings (UT), dry film thickness (DFT) and standard ASTM tests.

10 YEAR SERVICE AGREEMENT

The purpose of a 10-year service agreement is to provide the Owner with known fees and a schedule for evaluating the assets on a rotating basis. KLM will perform an ROV or dry tank cleanout evaluation every five years for each water storage tank through 2036, as detailed below.

Clearwell "GSR"			
Year	Scope of Work	Documentation	Price
2031	ROV		\$4,600.00
2036	Dry Tank Cleanout		\$5,000.00
Total Price			\$9,600.00

81,000-Gallon Detention Tank "Standpipe"			
Year	Scope of Work	Documentation	Price
2031	Dry Tank Cleanout		\$4,200.00
2036	ROV		\$4,600.00
Total Price			\$8,800.00

The cost, per year, to perform the evaluations over a 10-year period is \$1,840.00 per tank.

The fee for lead and chromium collection and testing is an additional \$700.00, if requested.

The fee for gasket installation on state-required wet access manway is \$100.00.

It is the responsibility of the Owner to make sure that the tank is prepared for the evaluation per the schedule agreed to in advance by both parties. In the event KLM arrives on site and the tank is not ready, or a second day is required to remove the sediment, a second day will be charged as additional time and materials.

KLM can replace the existing manway gasket(s) on a time & materials basis, per gasket. If the tank is not drained and ready for cleanout and inspection, KLM will charge an hourly rate (based on, then current, KLM Fee Schedule) per each full hour of mobilization or *delay* time.

OWNER'S RESPONSIBILITIES

ROV Evaluation

The Owner shall be responsible for:

- ◆ Providing copies of background information on tanks, including maintenance records, construction drawings, previous inspection reports and previous painting or reconditioning specifications. It is especially helpful if this information is collected prior to KLM's personnel beginning its inspection.
- ◆ Providing keys for locks and access to the water storage tanks.

Dry Tank Cleanout Evaluation

The Owner's personnel shall be responsible for:

- ◆ Verifying the tanks are empty prior to arrival of KLM inspectors.
- ◆ Manning the shut off valve at all times.
- ◆ Opening and closing the inlet/outlet pipe.
- ◆ Operating any valves prior to, during, and after the evaluation.
- ◆ Assist to backflush and disinfect the reservoir.
- ◆ Provide a supply of water.
- ◆ Verify that cleanout and disinfection have been performed to Owner's satisfaction.
- ◆ Disposing of sediment and debris.
- ◆ Taking and testing water samples within 24 hours after cleanout of the tanks has been completed.
- ◆ Providing copies of background information on tank, including maintenance records, construction drawings, previous evaluation reports and previous painting or reconditioning specifications. It is especially helpful if this information is collected prior to KLM's personnel beginning its evaluation.

ADDITIONAL INFORMATION

Additional information can be found at KLM's website at: www.klmengineering.com

***KLM will not bill you in a lump sum. KLM will bill you once the owner receives the report for that individual year.**

***This Agreement can be extended, at any time, upon written request.**

If KLM were to find structure or coating maintenance that is needed, KLM will communicate with the Owner on these findings. This Agreement covers the evaluation, only. Any structure or coating maintenance required would be under a separate Agreement.

TERMS AND CONDITIONS

KLM has attached our standard Terms and Conditions. The Terms and Conditions are part of this Agreement between the City of Eldridge and KLM Engineering, Inc., unless otherwise agreed to in writing by both parties.

***Either party may terminate this Agreement at any time by providing a written notice. Any modification to this agreement must be in writing and signed by both parties.**

AGREEMENT

This Agreement is valid for sixty (60) days from the date of this Agreement. If the City of Eldridge finds this Agreement acceptable, please sign and return it by mail or email. When KLM receives the signed Agreement, we will contact the owner to coordinate an inspection time. Upon delivery of the evaluation report to the owner, an invoice will be submitted according to the terms of this Agreement.

This Agreement, between Eldridge, Iowa and KLM Engineering, Inc. is accepted by:

CITY OF ELDRIDGE
305 North 3rd Street
Eldridge, Iowa 52748

KLM ENGINEERING, INC.
1976 Wooddale Drive, Suite 4
Woodbury, MN 55125

Signature

Name

Title

Date



Signature

Robert Jensen
Name

Business Development
Title

February 5, 2026
Date

We look forward to working with you.

Sincerely,

KLM ENGINEERING, INC.
Robert Jensen
Business Development
1976 Wooddale Drive, Suite #4
Woodbury, MN 55125
Cell: 651-219-2746
Email: rjensen@klmengineering.com

Attachment: KLM Terms and Conditions

Rev 2026.01.08

**KLM ENGINEERING, INC. (KLM)
TERMS AND CONDITIONS**

1. **AGREEMENT.** The agreement between the parties when entered by the parties shall include the applicable referenced agreement documents (i.e., KLM proposal/Agreement) and shall include these KLM Terms and Conditions (the “Agreement”). The Agreement may not be modified except by mutual agreement in writing.
2. **ADDITIONAL SERVICES.** Additional work or services shall not be performed without a KLM executed change order or purchase order outlining the scope of additional work or services.
3. **KLM CLIENT RESPONSIBILITIES.** The KLM Client shall fully disclose to KLM its knowledge of the condition of the project structure(s), its past and present contents and shall provide KLM with full information regarding the requirements for the project; shall designate an individual to act on the KLM Client’s behalf regarding the project; and provide safe access to and at the project site. When reasonably requested by KLM, the KLM Client shall furnish the services of other consultants including, but not limited to engineers and insurance representatives. The KLM Client shall test for pollution and hazardous materials when required by law or as requested by KLM. The KLM Client shall provide KLM with all necessary permits and other authorizations.
4. **SAFETY.** KLM shall be responsible for the safety of KLM personnel at the project site. The KLM Client or other persons shall be responsible for the safety of all other persons at the project site. The KLM Client shall inform KLM of any known or suspected hazardous materials or unsafe conditions at the project site. If, during the course of the KLM services, such materials, or conditions are discovered at the project site, KLM reserves the right to take measures to protect KLM personnel and equipment or to immediately terminate KLM services. The KLM Client agrees to be responsible for, and agrees to pay, any such additional protection costs. Upon such discovery by KLM, KLM agrees to use commercially reasonable efforts to notify the KLM Client in writing, of hazardous materials or unsafe conditions regarding the project site.
5. **HAZARDOUS MATERIALS.** Unless otherwise agreed to in the scope of work with the KLM Client, KLM has no responsibility for the discovery, presence, handling, removal or disposal of or exposure of persons to hazardous materials at the project site. To the full extent permitted by the law, the KLM Client shall defend, indemnify, and hold harmless KLM, its employees and representatives from all claims, including costs and attorney fees, arising out of the presence of hazardous materials or exposure to the same on the job site.
6. **SITE ACCESS AND RESTORATION.** The KLM Client will provide KLM and its representatives with safe and legal project site access. It is understood by the KLM Client that in the normal course of KLM providing its services and work, some nominal damage to the project site may occur. KLM agrees to take reasonable commercial precautions to minimize such damage, if any. Restoration of the project site, if any, is the responsibility of the KLM Client, unless otherwise agreed to in writing in the scope of work.
7. **KLM LIMITED WARRANTY AND DISCLAIMER.** KLM will perform services consistent with the standard of care and skill normally performed by other like firms in the industry and profession at the time of this service and in the geographic area of the project. **EXCEPT AS EXPRESSLY STATED IN THIS SECTION, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, PERTAINING TO THE PRODUCTS AND SERVICES SOLD UNDER THIS AGREEMENT. KLM DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL KLM BE LIABLE TO THE KLM CLIENT, ITS AGENTS, REPRESENTATIVES, EMPLOYEES,**

CUSTOMERS OR ANY OTHER THIRD PARTY, FOR ANY INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION LOSS OF USE, LOSS OF REVENUE OR LOSS OF PROFIT, IN CONNECTION WITH OR ARISING OUT OF THIS AGREEMENT OR THE EXISTENCE, FURNISHING OR FUNCTIONING OF ANY ITEM OR SERVICES PROVIDED FOR IN THIS AGREEMENT OR FROM ANY OTHER CAUSE, INCLUDING WITHOUT LIMITATION CLAIMS BY THIRD PARTIES, EVEN IF KLM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

8. **SCHEDULING.** Prior to KLM scheduling its services related to the project, the KLM Client shall furnish KLM with a written Agreement, purchase order or other written request for KLM services and shall give as much notice as reasonably possible in advance of the time when the KLM services are desired to commence. The KLM service schedule shall be mutually agreed upon by the parties in writing. If a KLM inspection is canceled or delayed after KLM personnel and/or equipment are in transit to the project site, then the KLM Client shall be billed, and the KLM Client agrees to pay for KLM time and expenses according to the then current KLM Fee Schedule for KLM time spent and KLM costs incurred. If KLM is unable to redirect KLM representatives to other third-party project sites on the canceled or delayed scheduled service day, at a minimum, the KLM Client will be billed and the KLM Client agrees to pay KLM for one (1) full day of KLM labor.
9. **INSURANCE.** KLM will maintain worker's compensation insurance and comprehensive general liability insurance. KLM will provide KLM Client with a certificate of insurance upon KLM Client's request.
10. **PAYMENT.** KLM will submit periodic invoices for KLM services provided and work performed. Invoices are due upon receipt. The KLM Client agrees to inform KLM of invoice questions or disputes within 10 business days of the invoice date. The KLM Client agrees to pay all undisputed KLM invoiced amounts within 45 days of the invoice date. The KLM Client agrees to pay interest on all overdue amounts at a rate of 1.5% per annum or the rate allowed by law, whichever is less, plus costs of collection, court costs, and reasonable attorney fees on all such amounts. If any undisputed invoice remains unpaid for 60 days, then KLM may, at its sole discretion, suspend or terminate services to the KLM Client without liability.
11. **INDEMNIFICATION.** KLM shall indemnify and hold harmless the KLM Client and its shareholders, directors, officers, members, governors and employees from liability, claims, losses, and damages arising out of or relating to the applicable Project, provided that such claims, costs, losses, or damages are attributable to bodily injury, sickness, disease, or death, or injury to, or destruction of tangible property, including the loss of use resulting therefrom to the extent caused by KLM's negligent acts or omissions.

The KLM Client shall indemnify and hold harmless KLM and its shareholders, directors, officers, members, governors and employees from liability, claims, losses, and damages arising out of or relating to the applicable Project, provided that such claims, costs, losses, or damages are attributable to bodily injury, sickness, disease, or death, or injury to, or destruction of tangible property, including the loss of use resulting therefrom to the extent caused by the KLM Client's negligent acts or omissions. Further, the KLM Client shall indemnify and hold harmless KLM from all claims or losses arising out of the unauthorized use of KLM's Documents.

12. **LIMITATION OF LIABILITY. IN NO EVENT SHALL KLM OR THE KLM CLIENT BE LIABLE, ONE TO THE OTHER, FOR INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE FURNISHING, PERFORMANCE OR USE OF ANY PRODUCTS OR SERVICES PROVIDED PURSUANT TO THIS AGREEMENT.**

13. **DELAYS.** If KLM service or work delays are caused by the KLM Client, by third parties, strikes, natural causes, weather, or other circumstances beyond KLM's control, a reasonable time extension for performance of KLM services and work shall be granted, and KLM shall be entitled to and the KLM Client agrees to pay KLM an equitable fee adjustment.
14. **TERMINATION.** After seven (7) days written notice, either party may elect to terminate this Agreement. Notwithstanding the foregoing, the KLM Client agrees to pay for all KLM services provided and work performed through the date of termination. Notwithstanding the foregoing, the following sections shall survive the termination of this Agreement: Sections 5, 7, 10, 11, 12, 15, 16, 21 and 24.
15. **SEVERABILITY.** Any provisions of this Agreement later held to violate a law or regulation shall be deemed void, and all remaining provisions of the Agreement shall continue in full force and effect.
16. **KLM'S DOCUMENTS.** All reports, specifications, drawings and other documents furnished by KLM are part of KLM's services and work for the KLM Client and the same are for use only for the project (KLM Documents). KLM retains all ownership of said documents regardless of whether the project is completed. The KLM Client may retain copies of the KLM Documents for reference purposes. KLM does not represent or warrant that the KLM Documents are suitable for reuse on any extension of the project or on other projects. The KLM Client shall not use the KLM Documents without KLM's written consent.
17. **ASSIGNMENT.** KLM may not assign this Agreement to any other person unless written consent is obtained from the KLM Client.
18. **AMENDMENTS.** Any modification or amendment of to this Agreement shall require a written agreement signed by both Parties.
19. **NONDISCRIMINATION.** In the hiring of employees to perform work under this Agreement, KLM shall not discriminate against any person by reason of any characteristic or classification protected by state or federal law.
20. **GOVERNING LAW.** This Agreement shall be governed by and interpreted in accordance with the laws of the State of Minnesota without regard to or application of conflicts of law rules or principles. All proceedings related to this Agreement shall be venued in **Washington County, Minnesota.**
21. **AUDIT.** Pursuant to **Minnesota Statutes, § 16C.05, Subdivision 5, KLM agrees that the KLM Client, the State Auditor, or any of their duly authorized representatives** at any time during normal business hours and as often as they may reasonably deem necessary (but under all circumstances not more often than once per calendar year), shall have access to and the right to examine, audit, excerpt, and transcribe any books, documents, papers, or records which are pertinent to the accounting practices and procedures of KLM, and involve transactions relating to this Agreement.
22. **JOB SITE IMAGES, PHOTOGRAPHY AND VIDEO.** During the term of this Agreement and thereafter, KLM has the KLM Client's permission to take photographs or video of the project site for training, documentation, education or KLM promotional purposes. A signed Agreement that includes these KLM Terms and Conditions constitutes the KLM Client's written permission to KLM regarding the use of the items and information set forth in this section.
23. **WAIVER.** The waiver by either party of any breach or failure to comply with any provision of this Agreement by the other Party shall not be construed as or constitute a continuing waiver of such provision or a waiver of any other breach of or failure to comply with any other provision of this Agreement.

24. **HEADINGS.** Section headings used in this Agreement are for convenience only, have no legal significance, and in no way change the construction or meaning of the terms hereof.
25. **ENTIRE AGREEMENT.** This Agreement supersedes any prior or contemporaneous representations or agreements, whether written or oral, between the Parties and contains the entire agreement.

End of the KLM Terms and Conditions.

Rev 2022.11.23

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February 24, 2026

Quote#: 26-MK-24161-N

Customer # 611182

City of Eldridge

Attention: Cegan Long
305 N. 3rd Street
Eldridge, IA 52748

Reference:

A Three Year POW-R-GUARD Maintenance Agreement for Emergency Standby Generator(s).

17KW 4000446130

Thank you for allowing Altorfer Power Systems the opportunity to provide a scheduled maintenance plan for your power generation system. These services have been tailored to your company's requirements and specific needs, while following Caterpillar's published schedules. A complete description of the services offered is included in this proposal package. The following is a summary of the service levels included in this agreement:

NOTE: Any specific training required to perform these services will be billed at normal time and material rates.

Type	Description	Service Level Qty
Service Level 2	Full Service, plus Service Level 1	3

**Service Level intervals are based on 250 or less run hours per year.

SerialNum	Customer Equipment Num	Visit Qty	Per Visit Invoice Amount
4000446130	Dog Park	3	\$560

- Plus Applicable Tax.

Any labor or materials for corrective action on defects discovered during inspection and testing of equipment will be invoiced separately.

This maintenance plan will minimize the number of unexpected problems, allow you to budget your operating expenses, and maximize your facility's "up" status. All services will be performed by qualified CATERPILLAR trained technicians assuring that your generator system is maintained in accordance with all manufacturer's guidelines. Further, with the authorized CATERPILLAR dealer handling the maintenance, you can be assured of receiving any suggested or mandated product improvement updates that your equipment would require. The services provided will discover any possible discrepancies before they become a serious problem, which could lead to unnecessary down time of your system.

Altorfer Power Systems is capable of addressing all of your power generation needs from scheduled maintenance to failure diagnosis and repairs. To further your investment, we offer the following types of support:

- * 24 Hours, 7 days A Week, Emergency Service
- * Emergency Generator Rentals
- * 25+ CATERPILLAR Trained Generator Field Service Technicians Company Wide
- * In House Transfer Switch and Switchgear Repair
- * \$1.5 Million In Parts Inventory With Instant Access to CAT Worldwide Parts in Morton, IL.

All services performed will be covered by a 6-month warranty against materials and workmanship defects. All remedies under this warranty are expressly limited to replacing parts or making repairs in accordance with the warranty guidelines. Claims for loss arising out of any failure or the repaired equipment to operate for the warranty period or for loss arising from expenses incurred due to, or in connection with the failure of the repaired equipment, including any and all claims for consequential damages, are expressly excluded. Pricing is based on services performed during normal business hours.

In the event either party would decide to terminate this agreement, a 30 day written notice is required.(Cancellation charges may apply if the actual work completed exceeds the amount of total payments made prior to agreement termination.)

Pricing is valid for 60 days from quote date. To accept this proposal, please sign below. Please return the ACCEPTED copy to me. If you have any questions, or if I may be of additional service, please don't hesitate to contact me.

Sincerely,

Mike Knapp
PSSR
(309) 712-9179
E-mail: mike.knapp@altorfer.com

ACCEPTED: _____ DATE: _____

TITLE: _____ PO#: _____

Maintenance Schedule

Customer	City of Eldridge	Reference
Quote/Contract #	26-MK-24161-N	

Model	Serial Number	Location	Equip #	Service Level	Visit Note
February-2026					
17KW	4000446130	900 s. 16th Ave Dog Par	Dog Park	Service Level 2	
February-2027					
17KW	4000446130	900 s. 16th Ave Dog Par	Dog Park	Service Level 2	
February-2028					
17KW	4000446130	900 s. 16th Ave Dog Par	Dog Park	Service Level 2	

ACCO CHEMICAL SYSTEM USAGE AGREEMENT # 03032026

ACCO Unlimited Corporation (“ACCO”) and the City of Eldridge, IA (“Customer”) agree to as follows:

ACCO shall sell to Customer and Customer shall purchase from ACCO, Customer’s total requirements of ACCO HFS-L at \$ 5.08 per/gallon for a period of 36 Months commencing on 03/02/2026 . Thereafter, this agreement shall automatically continue for successive one-year terms unless it is terminated by either party, in writing, with a 60-day notice after Customer provides ACCO the opportunity to negotiate and discuss reasons for termination.

Chemical pricing listed above shall remain unchanged for one year following the effective date of this agreement. ACCO reserves the right to adjust (increase/decrease) pricing on an annual basis due to changes in the chemical industry supply, transportation, taxes, insurance, and government regulations.

The system/equipment will be located at Eldridge Water Plant 505 W Donahue St. Eldridge, IA 52748 and consists of the following:

Chemical resistant tank(s) with berm and cam-lock fill connections per customer needs and space requirements.

Add-On: Chemical Resistant Day Tank Option

The system/equipment shall remain, at all times, the sole and exclusive property of ACCO Unlimited Corporation.

The ACCO Advantage – ACCO provides the following courtesy services as applicable: Routine visits to check equipment and chemical inventory as necessary, water testing/analysis and recommendations for changes in water chemistry parameters and/or operations, in-person and phone availability for troubleshooting and assistance. Products will be delivered to Customer by ACCO in accordance with ACCO’s regular truck route schedule.

Installation, maintenance, and service to be provided to Customer for all elected system/equipment listed above at no charge for the first year. Routine maintenance parts (if any) are chargeable to Customer following the first year of usage. System related labor is at **no charge**. Equipment to be maintained and serviced by ACCO as needed and regularly scheduled. Customer responsible for daily maintenance of equipment provided. Labor rates apply for: Moving elected system/equipment to a different location from where originally installed and any tank cleaning by Customer request.

The system shall be operated only by Customer and its employees who are authorized to operate the system/equipment elected. Customer shall take the proper cautions that are necessary to protect the equipment from vandalism and other damages, and shall maintain liability insurance and insurance against loss, theft, damage, or destruction of the equipment. In no event shall ACCO be liable for loss of profits, loss of use, direct or indirect damages of any kind in connection with or arising out of the Customer’s personnel, performance, maintenance, or use of the equipment or product.

Customer may not contract with, assign, or transfer this agreement or its rights hereunder. In the event that a notice of termination is not honored, Customer agrees to pay a penalty of \$500 in addition to any labor/trip costs for equipment removal and chemical disposal fees.

This agreement shall be governed by and construed in accordance with the laws of the State of Iowa. This agreement supersedes any and all prior agreements.

The undersigned has full authority to sign this agreement:

ACCO Unlimited Corporation
5105 NW Johnston Dr.
Johnston, IA 50131
515-278-0487

Customer Information:
Eldridge Water Department
305 N 3rd Street
Eldridge, IA 52748

Additional Billing Information:
563-285-4841
invoices@cityofeldridgeia.org



Sierra Woods General Manager
February 27, 2026

ACCO CHEMICAL SYSTEM USAGE AGREEMENT # 03022026

ACCO Unlimited Corporation (“ACCO”) and the City of Eldridge, IA (“Customer”) agree to as follows:

ACCO shall sell to Customer and Customer shall purchase from ACCO, Customer’s total requirements of ACCO Hydrox-50L at \$ 5.28 per/gallon for a period of 36 Months commencing on 03/02/2026 . Thereafter, this agreement shall automatically continue for successive one-year terms unless it is terminated by either party, in writing, with a 60-day notice after Customer provides ACCO the opportunity to negotiate and discuss reasons for termination.

Chemical pricing listed above shall remain unchanged for one year following the effective date of this agreement. ACCO reserves the right to adjust (increase/decrease) pricing on an annual basis due to changes in the chemical industry supply, transportation, taxes, insurance, and government regulations.

The system/equipment will be located at Eldridge Water Plant 505 W Donahue St. Eldridge, IA 52748 and consists of the following:

Chemical resistant tank(s) with berm and cam-lock fill connections per customer needs and space requirements.

Add-On: Chemical Resistant Day Tank Option

The system/equipment shall remain, at all times, the sole and exclusive property of ACCO Unlimited Corporation.

The ACCO Advantage – ACCO provides the following courtesy services as applicable: Routine visits to check equipment and chemical inventory as necessary, water testing/analysis and recommendations for changes in water chemistry parameters and/or operations, in-person and phone availability for troubleshooting and assistance. Products will be delivered to Customer by ACCO in accordance with ACCO’s regular truck route schedule.

Installation, maintenance, and service to be provided to Customer for all elected system/equipment listed above at no charge for the first year. Routine maintenance parts (if any) are chargeable to Customer following the first year of usage. System related labor is at **no charge**. Equipment to be maintained and serviced by ACCO as needed and regularly scheduled. Customer responsible for daily maintenance of equipment provided. Labor rates apply for: Moving elected system/equipment to a different location from where originally installed and any tank cleaning by Customer request.

The system shall be operated only by Customer and its employees who are authorized to operate the system/equipment elected. Customer shall take the proper cautions that are necessary to protect the equipment from vandalism and other damages, and shall maintain liability insurance and insurance against loss, theft, damage, or destruction of the equipment. In no event shall ACCO be liable for loss of profits, loss of use, direct or indirect damages of any kind in connection with or arising out of the Customer’s personnel, performance, maintenance, or use of the equipment or product.

Customer may not contract with, assign, or transfer this agreement or its rights hereunder. In the event that a notice of termination is not honored, Customer agrees to pay a penalty of \$500 in addition to any labor/trip costs for equipment removal and chemical disposal fees.

This agreement shall be governed by and construed in accordance with the laws of the State of Iowa. This agreement supersedes any and all prior agreements.

The undersigned has full authority to sign this agreement:

ACCO Unlimited Corporation
5105 NW Johnston Dr.
Johnston, IA 50131
515-278-0487

Customer Information:
Eldridge Water Department
305 N 3rd Street
Eldridge, IA 52748

Additional Billing Information:
563-285-4841
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Sierra Woods General Manager
February 27, 2026

