

WILLIS THOMPSON
MAYOR

THOMAS "T.J." MAYFIELD
WARD 1 ALDERMAN



VICKIE BAILEY
WARD 2 ALDERWOMAN

City of Vicksburg

1401 WALNUT STREET | VICKSBURG, MS 39181 | (601)636-3411

The City of Vicksburg is formally requesting a BABA Non-Availability Waiver for the EPA Clean Drinking Water Project.

This request is submitted due to the meters and transmitters that will be listed are not covered under the De Minimist List.

Product Category Classification: The products included in this waiver request fall under the following BABA category.

- Manufactured products:
 - Sensus iPERL ¾" S Water Meter
 - Type: Smart electromagnetic water meter (nonmoving parts)
 - Material: Polymer
 - Size: ¾" short length
 - Technology: Uses electromagnetic flow measurement with embedded electrodes to detect water velocity.
 - Accuracy: Maintains high accuracy even at very low flows
 - Power: Battery-powered (20+yr life expectancy)
 - Features:
 - Detects leaks, reverse flow, and tampering.
 - Stores consumption and event data for utility monitoring
 - Compatible with AMI/AMR systems for remote reading
 - No moving parts → less wear and longer service life
 - Applications: Residential and light commercial water metering
 - Sensus iPERL 1" Water Meter
 - Type: Smart electromagnetic water meter (nonmoving parts)
 - Material: Polymer
 - Size: ¾" short length
 - Technology: Uses electromagnetic flow measurement with embedded electrodes to detect water velocity.
 - Accuracy: Maintains high accuracy even at very low flows
 - Power: Batter-powered (20+yr life expectancy)

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- Features:
 - Detects leaks, reverse flow, and tampering.
 - Stores consumption and event data for utility monitoring
 - Compatible with AMI/AMR systems for remote reading
 - No moving parts → less wear and longer service life
 - Applications: Residential and light commercial water metering
- Sensus SmartPoint 520 Pit Set Module (Transmitter)
 - Data Storage: 35 days of hourly historical data in non-volatile memory
 - Pit set installation: meter interfaces with the FlexNet communication network
 - Environment: 100% condensing, water-submersible
 - Frequency range: 900-950 MHz
 - Power: Battery powered with lithium thionyl batteries with hybrid layer capacitor
 - Operating temperature: -22°F to +185°F

Supplier and Pricing Information: The City of Vicksburg has identified Core & Main LP as the regional distributor within Mississippi for Sensus iPERL water meters manufactured by Xylem.

- 3,000 Units - iPERL ¾" S TRPL 6' 2w 1g SM 7WHL i2s1gbxx
 - Unit Cost: \$131.22
 - Total Cost: \$393,660.00
- 500 Units - iPERL 1" TRPL 6' 2W 1G SM 7WHL 14S1GBXX
 - Unit Cost: \$216.34
 - Total Cost: \$108,170.00
- 292 Units - (V896549) 520M S/Point M2 TC SP HR & LD Transmitters (Model 5396353772201MI)
 - Unit Cost: \$152.18
 - Total Cost: \$44,436.56

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Product Purchasing Details: The following purchase order and payment details are provided for the materials included in this waiver request:

- 1,344 Units - iPERL ¾" S TRPL 6' 2w 1g SM 7WHL i2s1gbxx
 - Purchase Order Issue Date: September 24, 2024
 - Check Date: October 25, 2024
- 1,656 Units - iPERL ¾" S TRPL 6' 2w 1g SM 7WHL i2s1gbxx
 - Purchase Order Issue Date: October 24, 2024
 - Check Date: December 10, 2024
- 500 Units – iPERL 1" TRPL 6' 2W 1G SM 7WHL 14S1GBXX
 - Purchase Order Issue Date: October 24, 2024
 - Check Date: December 10, 2024
- 292 Units - (V896549) 520M S/Point M2 TC SP HR & LD Transmitters
 - Purchase Order Issue Date: October 24, 2024
 - Check Date: December 10, 2024

Product Purchasing Details: This project consists of the furnishing, delivery, and installation of specified water meters, software, hardware, and radio communication components that are fully compatible with the City's existing Sensus FlexNet water and gas meter reading system.

The primary objective of this project is to replace the City's existing water meters with an Advanced Metering Infrastructure (AMI) system that integrates seamlessly with the current meter reading network as well as the City's existing billing and financial management software systems. Maintaining compatibility with the current infrastructure is critical to ensure continuity of operations, avoid system redundancy, and prevent addition costs associated with replacing or overhauling existing technology platforms

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Meter transmitters will be replaced only as necessary to bring the system up to acceptable operational and performance standards, thereby maximizing the use of existing infrastructure while ensuring reliability, accuracy, and efficiency in water usage monitoring and data collection.

This project will improve system-wide performance by enhancing data accuracy, enabling real-time monitoring capabilities, improving leak detection, and increasing overall operational efficiency for both the utility and its customers.

Project Schedule: The City of Vicksburg anticipates beginning installation of residential meters ($\frac{3}{4}$ " and 1") on or about May 1, 2026. The current contract duration for the residential meter portion of the project is twelve months, with an anticipated completion date of April 30, 2027.

The timeline for completion of commercial meter installation has not yet been formally established; however, the City anticipates a total project duration of approximately twenty months, resulting in an estimated overall project completion date of November 2027.

Efforts to Identify Domestic Sources: The City of Vicksburg has conducted and succeeded in identify American made and produced products that meet the required technical specification and performance standards for this project.

These efforts included:

- Advertisements for bids in local media outlets
- Coordination with regional distributors and suppliers
- Evaluation of comparable products for compliance and pricing with project requirements

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Project Requirements Documentation: Relevant excerpts from project plans, specifications, and permitting documents outlining the required quantity, technical specifications, and performance standards for the meters and transmitters are included.

Justification for Non-Availability Waiver: The City of Vicksburg is requesting a non-availability waiver for the previously mentioned BABA-compliant materials that fall outside of the De Minimis waiver provisions.

The City of Vicksburg appreciates your consideration of a Non-Availability Waiver for the materials noted above. Please feel free to reach out should you have any questions.

Sincerely,

Willis T. Thompson
Mayor
City of Vicksburg
mayorwillisthompson@vicksburg.org
601-631-3718

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