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JUL 08 2015

PUBLIC SERVICE
COMMISSION

July 7, 2015

FEDEX

Mr. Jeff DeRouen
Executive Director
Public Service Commission of Kentucky
211 Sower Boulevard
Frankfort, Kentucky 40601

Re: Henderson County Water District
Application for Certificate of Public
Convenience and Necessity and
Approval of Financing
Case No. 2014-402

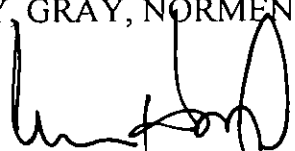
Dear Mr. DeRouen

Enclosed you will find the original and 10 copies of responses to
Informal Request for Information.

Very truly yours,

DORSEY, GRAY, NORMENT & HOPGOOD

By


J. Christopher Hopgood

JCH/cds

COPY/w/encls.: Mr. Pete Conrad

RECEIVED

JUL 08 2015

PUBLIC SERVICE
COMMISSION

COMMONWEALTH OF KENTUCKY

Before the Public Service Commission

In the Matter of:

THE APPLICATION OF HENDERSON COUNTY)
WATER DISTRICT FOR CERTIFICATE OF) CASE NO. 2014-00402
PUBLIC CONVENIENCE AND NECESSITY)
AND APPROVAL OF FINANCING)

RESPONSES TO INFORMAL REQUEST

FOR INFORMATION

The HENDERSON COUNTY WATER DISTRICT ("HCWD), by counsel submits the following in response to Commission Staff's informal requests for information:

RESPONSE: Attached hereto is a specification sheet for the R900i meter which is the new model of radio frequency meter. Also, attached hereto is a letter from NECO, the meter manufacturer, explaining the differences in the newly enhanced meter and the older meter that was the subject of this case when initially filed.

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Attorneys for Henderson County Water District

By



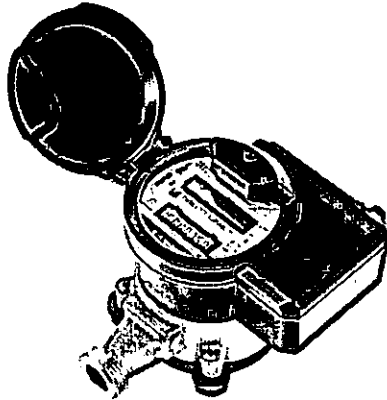
J. Christopher Hopgood

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ARB[®] UTILITY MANAGEMENT SYSTEMS™



ENHANCED E-CODER®)R900i™
INSIDE AND PIT VERSIONS



PROTECT AND EXPAND YOUR TECHNOLOGY INVESTMENTS

Neptune designed the R900[®] System to make it easy for your utility – installation, everyday use, and expansion for the future without stranded assets. The E-Coder®)R900i™ combination absolute encoder register/radio frequency meter interface unit (RF MIU) is a perfect example of all of the above. Not only does it work with past generations of meters and meter reading systems, but seamless integration is built into this single-unit endpoint itself, providing two-way communications of advanced metering data. The E-Coder)R900i's interleaved mobile and high power fixed network messages allow for simple migration from walk-by to mobile to fixed network reading without site visits or reprogramming.

STREAMLINE OPERATIONS AND MANAGE RESOURCES

In addition to eliminating the need for programming, the E-Coder)R900i has no external wires, making installation easier, faster, and less costly; plus it reduces potential vandalism or tamper. As with the rest of the R900 System, the design of the unit is intuitive and user-friendly so that minimal training is required for operation. It's designed to help manage time, labor, and other resources. The radio frequency transmission of the E-Coder)R900i can save your utility significant amounts of time in terms of both meter reading and billing, and provide flexibility to reallocate personnel to different tasks or departments depending on your changing workforce needs.

DO MORE WITH DETAILED, ACTIONABLE DATA

The types of data your utility can generate through the E-Coder)R900i can take you far beyond a simple meter reading for a monthly bill. Hourly consumption profile information over an account's last 96 days, along with alerts for leak or backflow, help to proactively identify and resolve customer issues – heading off high bill complaints, reducing delinquent payments, and eliminating write-offs. Using N_SIGHT™ PLUS host software, your utility can leverage detailed data from the E-Coder)R900i to balance water produced versus water consumed, group accounts for District Metered Area analysis, and track and manage Non-Revenue Water. From increasing efficiencies to pinpointing possible tamper or water theft to aiding customer service, the data supplied by the E-Coder)R900i can help your utility make better, more confident decisions.

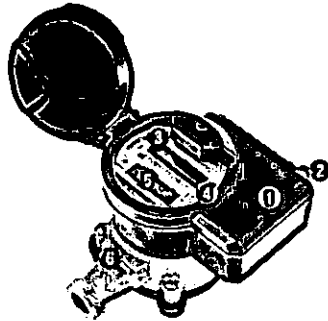
KEY BENEFITS

- Facilitates Migration to AMI
 - NEW 1 Watt fixed network message reduces infrastructure costs
 - Interleaved mobile and fixed network messages facilitate migration without changing the "modes" in the MIU
- Reduces Non-Revenue Water
 - Provides leak history/diagnostics
 - Enables proactive leak notification
 - Provides hourly consumption data
 - Improves meter reading accuracy
 - Eliminates estimated reads
- Identifies Potential Theft
 - Tamper detection
 - Reverse flow detection
 - Identifies significant periods of zero consumption
- Simplifies Installation Process
 - Easy to install/no programming required
 - No external wires
 - Reduces labor cost
 - Reduces potential wire vandalism and damage

TECHNICAL SPECIFICATIONS

- Electrical Specifications
 - MIU power: Lithium battery with capacitor
- Transmitter Specifications
 - Two-way MIU
 - Transmit period (interleaved mobile and fixed network messages):
 - Standard mobile message every 14 seconds at 100 mW
 - Standard fixed network message every 7½ minutes at 1 Watt
 - FCC verification: Part 15.247:
 - Transmitter channels: 50; frequency-hopping, spread-spectrum
 - Channel frequency: 910 to 920 MHz
 - Encoder register reading interval:
 - Every 15 minutes
 - Data logging interval:
 - 96 days of hourly data

- Internal Antenna ①
- Optional Antenna Port ②
- Solar Panel ③
- Date of Manufacture ④
- LCD Display ⑤
- T-10⁹ Meter ⑥



	<p>FLOW INDICATOR Shows the direction of flow through the meter:</p> <p>ON Water in use. OFF Water not in use. Flashing Water is running slowly. (-) Reverse flow. (+) Forward flow.</p>
	<p>LEAK INDICATOR Displays a possible leak:</p> <p>OFF No leak indicated. Flashing Intermittent leak indicates that water has been used for at least 50 of the 96 15-minute intervals during a 24-hour period. On Continuously Indicates water use for all 96 15-minute intervals during a 24-hour period.</p>
<p>RATE</p>	<p>RATE OF FLOW Average flow rate is displayed every twelve seconds on LCD display.</p>
	<p>LCD DISPLAY Nine-digit LCD displays the meter reading in billing units of measure: U.S. gallons, cubic feet, Imperial gallons, or cubic metres.</p> <ul style="list-style-type: none"> ① E-Coder basic reading/customary 6-digit remote reading ② Customary sweep hand digits ③ E-CoderPLUS reading (8-digit remote reading) ④ Testing units used for diagnostics ⑤ Extended reading units ⑥ Customary billing units

TECHNICAL SPECIFICATIONS

- Environmental Conditions
 - Operating temperature: -22°F to +149°F (-30°C to +65°C)
 - Storage temperature: -40°F to +158°F (-40°C to +70°C)
 - Operating humidity:
 - Inside set - 0 to 95%, condensing
 - Pit set - 100% submersible
- Materials
 - Register housing:
 - Inside set: plastic polycarbonate
 - Pit set: roll-sealed copper shell
 - Lens:
 - Inside set: plastic
 - Pit set: glass
- Antennas
 - Standard internal antenna
 - Optional through-the-lid antenna:
 - 18" Coax
 - 6' Coax
 - 20' Coax

OPTIONS

- Compatibility
 - Available for all sizes and makes of current Neptune meters
 - Handhelds with R900[®] Belt Clip Transceiver - walk-by RF
 - MRX920™ - mobile RF
 - R900[®] Gateways - fixed network RF
- Units of Measure: U.S. Gallons, Cubic Feet, Imperial Gallons, Cubic Metres

WARRANTY

- 20 years (10/10); refer to specific Warranty Statement

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Neptune engages in ongoing research and development to improve and enhance its products. Therefore, Neptune reserves the right to change product or system specifications without notice.



Pete,

You were wanting to know the difference between the 1st generation R900i registers that you have been using and the new "Enhanced" R900i versions that have replaced them.

There are several, some based on feedback from customers and others due to advances in technology and making the R900i more robust for migration to a hybrid or fixed network reading system.

Here are some of the highpoints:

- Solar powered LCD: This means a dead battery only impacts radio transmission, not the ability to read the register's LCD.
- Last Valid Read capability: In the event of an ERROR condition, the register LCD will alternate between an "ERROR" message and the last good reading stored before the fault occurred – facilitating out reads for utility customers.
- Larger, easy to read LCD: larger numbers, comma separators and longer display time are implemented to facilitate manual reading of the register's LCD.
- Remote Activated of Data Logging. Direct access to the meter and E-Coder)R900i is no longer required when used in conjunction with a BCR.
- NGO App. With the remote activated Data Logging and the BCR you can now use the NGO app for Android phones to do an RF test and download data on your Android phone. This will soon be available on iPhones.
- NEW high-power, 1-watt fixed network packet Transmitting at the highest output power allowed by FCC regulations for unlicensed networks the R900 System now requires fewer Gateways for a fixed network deployment.
- This new high-power fixed network reading packet is interleaved between the standard mobile packets that have always been there. This new fixed network packet does not require any programming of the MIU to become active.



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