

CITY OF HIGH POINT

AGENDA ITEM

TITLE: i-Hydrants - Kennedy Valve Inc.	
FROM: Robby Stone – Public Services Director Derrick Boone – Asst. Public Services Director	MEETING DATE: November 4, 2024
PUBLIC HEARING: N/A	ADVERTISED DATE/BY: N/A
ATTACHMENTS: i-Hydrant Brochure Quote Sole Source Letter Sole Source Justification Form	

PURPOSE: To purchase 25 i-Hydrants that will be installed in the water distribution system. This is a sole source item as McWane Inc. holds multiple patents on the underlying technology. I-Hydrant products are manufactured and sold solely by the i-Hydrant group and McWane Valve & Hydrant companies, Clow Valve, Kennedy Valve and M&H Valve.

BACKGROUND: The Public Services Department has identified 25 locations within the water distribution system for the installation of the i-Hydrants. The i-Hydrants will track pressure and temperature changes and send alerts through the i-Hydrant Software if major changes occur within the water distribution system. The i-Hydrant retrofit kit will work on 19 existing Clow, Kennedy, or M&H fire hydrants. Six additional new hydrants will have to be purchased as part of the project. City forces will install the i-Hydrants.

IMPACT: Funds for this project are available in the FY 2024-2025 budget.

RECOMMENDATION/ACTION REQUESTED: Public Services is recommending that Kennedy Valve be approved as a sole source vendor for the purchase of the i-Hydrants for \$109,033.46 and authorize the appropriate city staff to execute all necessary documents.



Example of a fire hydrant with an i-Hydrant Retrofit Kit

iHydrant™

by  KENNEDY VALVE



iHydrant®

Remote pressure and temperature monitoring for Guardian dry barrel hydrants.

iHydrant.com



For Generations

iHYDRANT REMOTE SENSORS FOR KENNEDY GUARDIAN HYDRANTS

Track pressure and temperature changes and get alerts at a moment's notice via smart hydrant sensors deployed across your water system.

Knowing the exact moment your water grid experiences a hydraulic event or is threatened by rapid pressure or temperature fluctuations is now possible via iHydrant remote sensors for Kennedy hydrants. iHydrant operates on a secure IoT network to transmit data to the cloud, which is then

accessible on your utility's hosted dashboard. iHydrant allows you to monitor precise fluctuations in your water system in real time that reveal money-saving data and help you recapture non-revenue water.

Device Features

The iHydrant unit is designed for easy installation, low maintenance and years of reliability.

Operates on an LTE cellular modem for instantaneous, long-distance data transmission.

Full-time pressure/temperature monitoring in the lower valve of your dry barrel hydrant.

Capture data as often as 256x per second.

Sensor picks up micro fluctuations in pressure and temp.

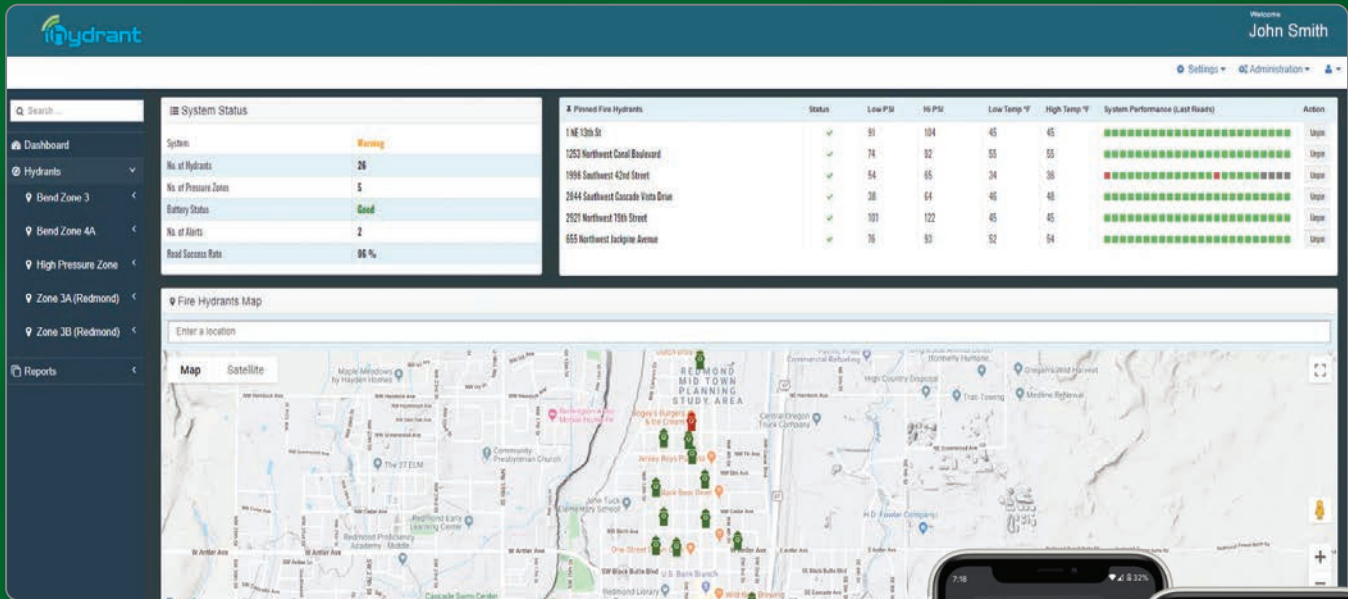
Available as a complete unit or retrofit for Kennedy Guardian hydrants.



Easily install the Kennedy Guardian iHydrant in the field.

Your iHydrant Dashboard

Your dashboard is the portal to your entire iHydrant network. From here, you can see your data in real time for all devices, specific hydrant zones or one hydrant at a time.



iHydrant Dashboard Features:

- Hosted remotely for anytime access with no downtime risk.
- Accessible anywhere via desktop or mobile browser.
- Create custom logins for multiple users.
- Visual data collection for pressure and temperature, scalable down to the second.
- Export your data for additional manipulation or on-site storage.
- Set alerts for pre-defined events or to your own custom parameters.
- Battery life and reception monitoring and reporting let you know when to check a unit or replace a battery.



"iHydrant has been beneficial to the utility by identifying different hydraulic events that impact normal daily operations. This has resulted in lower response times for repairs and a reduction in lost revenue due to water losses. iHydrant has also helped us to identify hydraulic conditions that are occurring in the distribution system that we were previously unaware of."

Josh Wedding, City of Redmond Water Utilities Manager

Bringing your hydrants online with iHydrant means you get the ease and convenience of modern data-collection technology plus compatibility with the Kennedy Guardian hydrant in your arsenal. Suitable for mounting on top of any Kennedy Guardian dry barrel hydrant, iHydrant does not interfere with normal operation, allowing you to collect data without taking the hydrant out of operation, even in freezing conditions.



Reduce non-revenue water with up-to-the-second data from your hydrant.

iHydrant is a feature-rich monitoring tool designed to save money through grid analysis, problem prevention and rapid-response mitigation.



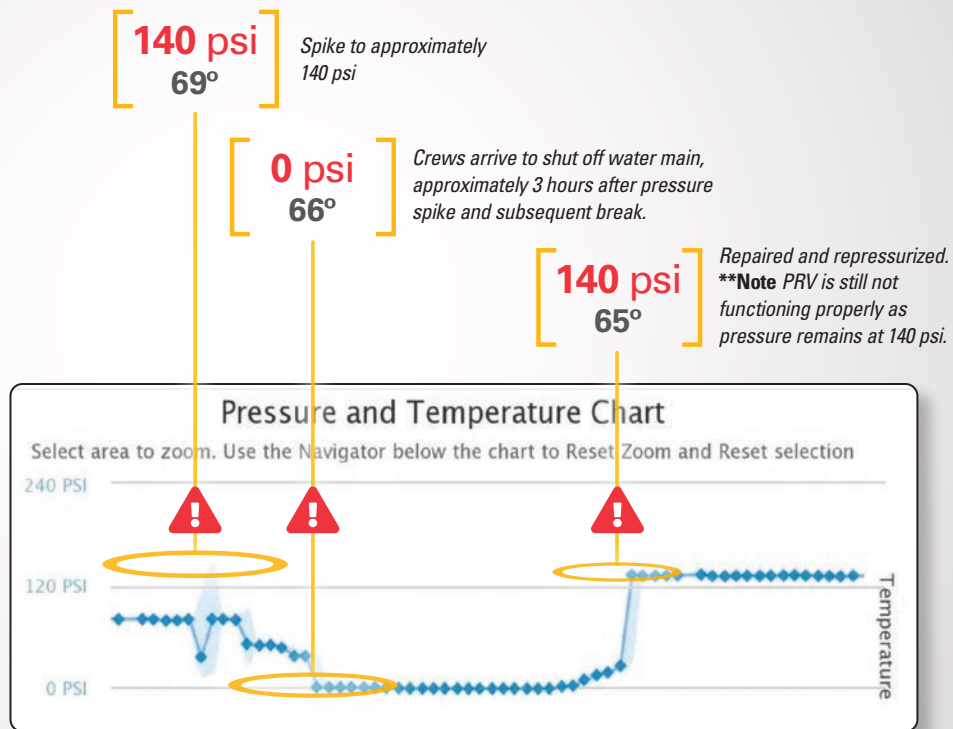
Real-time, whole-system feedback allows you to identify potential problem areas and proactively maintain the system to prevent main breaks before they occur.



Rapid alert systems provide notification in response to system changes, reducing utility response times and water losses.



Remote monitoring allows for more efficient human resource allocation and job efficiency, further reducing costs associated with the system.



With **affordable one-time installation costs** and **low annual maintenance and support fees**, iHydrant can pay for itself by preventing or alerting you in real time of water loss events. Over time, iHydrant will help reduce costs associated with water loss, becoming an integral part of your system.

Contact your Kennedy sales representative for more information or to schedule a product demo.

COMMITTED TO ENVIRONMENTAL RESPONSIBILITY

Kennedy Valve Company is committed to protecting our natural resources through environmentally responsible manufacturing practices, including the use of 80+% recycled content in our hydrants and valves.



iHydrant.com



1021 E. Water St.
 Elmira, NY 14901
 Ph 607-734-7211
 Fx 607-378-1404



KENNEDY VALVE

Division of McWane, Inc.

1021 East Water Street

P.O. Box 931

Elmira, New York 14902-0931

Telephone (607) 734-2211

Fax (607) 734-1003

24-230 High Point I-Hydrant
Project

0027633 9/18/24 3

Expiration Date 10/11/24

Revised Date 9/18/24

Bid Due Date 9/11/24

THE FOLLOWING FEES ARE BILLED
DIRECT TO THE USER BY MCWANE
THESE FEES ARE NOT INCLUDED
IN THIS QUOTE (FOR INFO ONLY)
\$300 ANNUAL FEE PER UNIT
WAIVED \$400 INSTALLATION
PER RETRO KIT

** I-HYDRANT OPTIONS **

RETROFIT OF EXISTING

MCWANE HYDRANTS

14.0 19 IHYDRANT RETRO KIT - MCWANE 3200.0000 EA 60800.00

CLOW, KENNEDY, M&H (SPECIFY)

15.0 19 CPF MCWANE IHYDRANT S&H CHG 125.0000 2375.00

SUBTOTAL RETRO KITS 63175.00

NEW COMPLETE HYDRANT WITH
FACTORY INSTALLED IHYDRANT

24-230 High Point I-Hydrant
Project

0027633 9/18/24 3

Expiration Date 10/11/24

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Job Name

Quote No. Date Page

Unit Extended

Line Qty. Description Price UOM Price

21.0 2 K81 41/2 VO HYD 4'6"BURY OL 3W 3139.4000 EA 6278.80

RED/WHITE BONNET AND CAPS

22.0 2 4'6 BURY K-81 4.50 VO IHYD 3200.0000 EA 6400.00

RETRO KIT, OL, RED

SUBTOTAL 4' 6" NEW I-HYDRANT 12678.80



ISO 9001:2008 Certified

ISO 14001:2004 Certified

25.0 1 K81 41/2 VO HYD 5' 6" BURY OL 3255.2600 EA 3255.26
3 WAY RED/WHITE BONNET CAPS
26.0 1 5'6 BURY K-81 4.50 VO IHYD 3200.0000 EA 3200.00
RETRO KIT, OL, RED

SUBTOTAL 5'6" NEW HYDRANT 6455.26

29.0 1 K81 41/2 VO HYD 6' BURY OL 3313.2000 EA 3313.20
3 WAY RED/WHITE BONNET CAPS
30.0 1 6' BURY K-81 4.50 VO IHYD 3200.0000 EA 3200.00
RETRO KIT, OL, RED

SUBTOTAL 6' NEW IHYDRANT 6513.20

33.0 1 K81 41/2 VO HYD 7' BURY OL 3WY 3429.0700 EA 3429.07
PURPLE/WHITE BONNET &CAPS
34.0 1 7'0 BURY K-81 4.50 VO IHYD 3200.0000 EA 3200.00
RETRO KIT, OL, RED

SUBTOTAL 7' NEW IHYDRANT 6629.07

37.0 1 K81 41/2 VO HYD 7'6" BURY OL 3487.7400 EA 3487.74
3WY RED/WHITE BONNET&CAPS
38.0 1 7'6" BURY K-81 4.50 VO IHYD 3200.0000 EA 3200.00
RETRO KIT, OL, RED

SUBTOTAL 7'6" NEW IHYDRANT 6687.74

ORDERS OF 5,000 POUNDS OR MORE
FROM THE SAME FACTORY
WILL SHIP FREE FREIGHT.
OTHERWISE, FREIGHT CHARGES
WILL BE ADDED.
COMPLETE HYDRANTS FROM THE
SAME FACTORY CAN BE COMBINED
WITH OUR ROUTINE STOCK
ORDERS TO REDUCE THE
FREIGHT EXPENSE IF TIME ALLOWS

Net Sales 102,139.07

Freight .00

Tax 6,894.39

Quotation Total 109,033.46



ISO 9001:2008 Certified
ISO 14001:2004 Certified



October 23, 2024

To: City of High Point NC

The iHydrant solution allows for full-time remote water pressure and temperature monitoring through a proprietary product design all enclosed within a dry barrel fire hydrant. This patented approach is in a class by itself, which allows for full operation of the hydrant, without modifications or alternations to flow, nozzles, caps or operating nut of the hydrant.

This was developed solely by the iHydrant group within Clow Valve Co., a subsidiary of McWane, Inc. McWane holds both multiple patents on the underlying technology and an exclusive registered trademark on the name "iHydrant."

iHydrant products are manufactured and sold solely by the iHydrant group and McWane Valve & Hydrant companies, Clow Valve, Kennedy Valve and M&H Valve.

Sincerely,

A handwritten signature in blue ink that reads "Brian Morrow". The signature is written in a cursive style and is positioned above a horizontal line.

Brian Morrow
Vice President of Administration
iHydrant
2304 Tarpley Rd., Suite 110B
Carrollton, TX 75006

Office: (469) 669-6683

SOLE SOURCE JUSTIFICATION FORM

(For Items Costing **\$10,000.00 or More**)

Statutory Reference N.C.G.S. 143-129(e)6

Requisition #

Vendor:

Item(s):

Justification:

McWane Inc. holds both multiple patents on the underlying technology. iHydrant products are manufactured and sold solely by the iHydrant group and McWane Valve & Hydrant companies, Clow Valve, Kennedy Valve and M&H Valve.

Estimated expenditure for the above item(s):

Accounting Unit and Account(s):

CHECK ALL ENTRIES BELOW THAT APPLY TO THE PROPOSED PURCHASE.
ATTACH A MEMO CONTAINING JUSTIFICATION AND SUPPORT
DOCUMENTATION.

1. Performance or price competition for a product are not available.
2. A needed product is available from only one source of supply.
3. Standardization or compatibility is the overriding consideration.
4. The parts/equipment are required from this source to permit standardization.
5. None of the above applies. A detailed explanation and justification for this sole source request is contained in attached memo and support documentation.

The undersigned requests that competitive procurement be waived and that the vendor identified as the supplier of the material or service described in this sole source justification be authorized as a sole source for the material or service.

Department Head/Authorized Personnel Digitally signed by Robby Stone
Date: 2024.10.23 15:51:58 -04'00'

Department/Division Date

APPROVAL PROCESS

Purchasing Manager Digitally signed by Candy E. Harmon
Date: 2024.10.24 12:59:42 -04'00'

Financial Services Director Digitally signed by Bobby Fitzjohn
Date: 2024.10.24 13:56:22 -04'00'

City Council (\$30,000 – Up)

