



Village of Industry

Board of Trustees Special Meeting Minutes

March 11, 2025

Kiwanis Building

The Board of Trustees, Village of Industry, McDonough County, State of Illinois met on March 11, 2025. President Staci Danner called the meeting to order. Those answering roll call were Trustees Jones, Rittenhouse, Stuckwisch, Thompson, and Murray. Also present were Superintendent Gorsuch and Doug from Benton & Associates

- I. Public Comments-None
- II. Presentation of proposals by meter companies for water meter replacement in the Village
 - a. Mueller
 - i. Mueller presented two primary systems for water metering:
 - 1. Automated Meter Reading (AMR) - A drive-by system that requires a utility worker to collect meter readings via a handheld or mobile device. AMR can be upgraded to AMI in the future and has a read range of approximately 2 miles in optimal conditions. This system has a \$79,000 initial cost; \$4,500 annual fee and delivery in 49 days post-study.
 - 2. Advanced Metering Infrastructure (AMI) - A cellular-based system using AT&T and/or Verizon networks, allowing remote readings via cloud-based data collection. Benefits include hourly readings accessible from the office, daily data transmission to a central collector (around 3 AM to minimize data usage), leak detection and pressure monitoring through software, GPS mapping to display meter locations and water usage data via Sentryx software (free for the first year; recurring fee thereafter), remote water shutoff capability (SSM meters only). This system has a \$177,000 initial cost; \$2,750 annual fee plus \$8 per endpoint fee per year and delivery in 91 days post-study.
 - ii. Meter Options:
 - 1. Positive Displacement (PD) MD8: Heavy-duty mechanical meter with a 20-year warranty. However, over time (about 15 years), the mechanical components tend to slow down.
 - 2. Solid State Meter (SSM): Uses mirror technology with no moving parts, reducing mechanical failures. It includes a non-replaceable battery with a 20-year warranty and can measure water temperature.
 - 3. Both meters have full replacement warranties for the first 10 years. The next 10 years is a prorated replacement warranty. The AMR system has an initial cost of \$79,000 and a \$4,500 annual fee. AMI System's initial cost is \$177,000 and a \$2,750 annual fee plus \$8 per endpoint charge.

- b. Midwest Meter (Distributor of Badger Meters)
 - i. Systems for water metering included
 - 1. AMR a drive-by-system that requires a laptop or handheld device for readings every six seconds, allowing full village readings in under 30 minutes. The cost is estimated to be \$91,990 for initial setup and \$185 monthly for software fee (\$0.14 per meter per month). This system cannot detect leaks in real time.
 - 2. AMI a cellular based system by which data is transmitted remotely via cell towers. The cost of this system would be \$99,365 for initial setup which includes meter lids and \$285 for a monthly software fee (\$1 per meter per month). This system can detect leaks in real-time and notify users.
 - ii. Meters are battery operated with non-replaceable batteries with a 20-year warranty. They feature an epoxy-coated construction that prevents moisture ingress, reducing fogging and frost damage. If using the AMI system, residents can view water usage data from anywhere and meters can be set to report data up to three times per day. Special meters can be installed in problem areas to provide detailed pressure and temperature readings.
- c. Core & Main (Distributor of Sensus Meters)
 - i. Systems for water metering
 - 1. AMR is a drive-system that uses handheld devices with a read range of approximately two blocks. More detailed data can be downloaded by physically approaching the meter. AMR can be upgraded to AMI by adding a tower and adjusting the software. The cost for this system would be \$102,000 initially with a \$4,000 annual software fee.
 - 2. AMI is a fixed network system that uses a dedicated tower (FlexNet SmartPoint) instead of cellular networks. A secure FCC primary license frequency allows continuous communication with meters. The cost for this system would be an additional \$57,925.
 - ii. Meters are a composite plastic or brass and plastic. Brass is the more costly material. They are an electromagnetic meter with digital displays and no moving parts. The meters have a full 20-year accuracy guarantee. There is a remote shut-off capability available through the Ally meter, which can also enable reduced flow mode.

Trustee Jones made a MOTION to adjourn. Trustee Murray SECONDED the motion and the meeting was adjourned.

Respectfully submitted,
Shelley Larson, Interim Village Clerk