pulsar MEASUREMENT

A Safe and Reliable Solution for Wastewater Treatment

The City of Florence, New Jersey was in need of a more reliable system for their Municipal Wastewater Plant. The system that they had in place for their Primary Circular Clarifier was frequently out of commission and required unsafe and unsanitary methods to get the system up and running again. Clarifiers are a key component of the wastewater process as they are used to separate clarified fluid from various floatable and settling debris. This debris will then settle on the bottom of the clarifier and form a sludge that would be removed regularly for consistent performance.

As repair and commission costs continued to rise, The City of Florence needed a reliable and cost-effective solution that could provide proper sludge level readings in the clarifier for the health and safety of all those who work at the cities plant. Using a tool that provides accurate sludge level readings can ensure that settled debris is being evenly pushed out of the clarifier, to alleviate future commissioning issues.

Rob Davis, Northeast Territory Manger at Pulsar Measurement, and Ken Zawacki, Sales Engineer at Applied Analytics, our representative partner in New Jersey, demonstrated the workings of the Sludge Finder 2 Controller and the corresponding Viper Sensor Transducer to show how beneficial the combination of these two solutions would be for their system. After a product demonstration with the Plant Supervisor, Dave Lebak, The Florence Township of New Jersey decided to move forward with both solutions after just a one-day trial! Commenting on the project, he said, "I am very pleased with the operation of the Sludge Finder 2 and Viper for our Wastewater Treatment Plant."

The Sludge Finder 2 uses high frequency ultrasonic technology in combination with proven echo processing algorithms to reliably identify the sludge interface level. The echo graphs display on screen so that anyone inspecting the system can view how the sludge levels are changing in real time. The Viper Transducer's special design makes it self-cleaning, which reduces the need for regular inspection and maintenance; meaning that staff do not have to come in contact with the medium.

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Dave Lebak, Plant Supervisor, City of Florence

The trial results of the Sludge Finder 2 and Viper Transducer proved that Pulsar Measurement can provide the type of sludge level readings in the clarifier that the City of Florence was expecting to see. Pulsar Measurement was able to offer a safe, reliable, cost-effective solution that reduced the amount of time spent maintaining a wastewater treatment plant. Less time spent on frequent commissioning means a long-term cost-effective investment.

To learn more about what our Sludge Finder 2 and Viper Transducer can do for your application, click the link below.

More Information

Sludge Finder 2 and Viper Transducer:
https://pulsarmeasurement.com/sludge-finder-2

Township of Florence:
https://florence-nj.gov/water-sewer_main.html

Applied Analytics:
https://aai.solutions

Established in 1994, Applied Analytics™ [AAI] is a global manufacturer of industrial process analysis instruments.

Delivering the Measure of Possibility

Pulsar Measurement offers worldwide professional support for all of our products, and our network of global partners all offer full support and training. Our facilities in Malvern, UK and Largo, USA are home to technical support teams who are always available to answer your call or attend your site when required. Our global presence, with direct offices in the UK, USA, Canada, and Malaysia, allows us to create close relationships with our customers and provide service, support, training, and information throughout the lifetime of your product.

By taking a step forward in echo processing technology, Pulsar Measurement addresses applications previously thought to be beyond the scope of ultrasonic measurement. This technology improves signal processing at the transducer head which has made it possible to increase resistance to electrical noise, enabling the transducer to 'zone in' on the true echo.

For more information, please visit our website:

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