Thermal Energy Measurement for District

Customer: New York University
Location: New York, NY

Application	Technology	Medium
Energy measurement	Ultrasonic (Wave Injector)	Water at Approx. 360 Degrees F.

Features

Media: HTHW
Pipe: 3”
Material: Carbon Steel
Temperature: 360 Degrees F

Real-World Usage:

Historically, there have been problems associated with metering of high temperature hot water lines at this university. The problem stems from the effect of elevated temperatures on the flow sensor elements. This causes high failure rates of both the liquid couplant and the flow transducer. The signal levels typically show a gradual decrease due to temperature break-down and run-out of the couplant. The meters currently deployed at this location have been prone to this failure mode, leading to data, and hence accountability, losses. Flexim utilizes their patented WaveInjector which removes the transducer from the hot pipe. The WaveInjector incorporates solid coupling materials thereby eliminating the thermal breakdown associated with the existing meters.

Advantages:

- Extreme temperatures as high as 750 degrees F
- No pipe work needed to install the measuring system
- Non-invasive measurement is insensitive to temperature changes
- Simple “no maintenance” solution
- Real time Energy calculations Internal Data Logging capabilities with easy data retrieval
- Solid Couplants (NO GREASE) – Never re-couple transducers
- Transducers never get hot on the WaveInjector

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