Jiangsu YongGang Group Decreases Energy and Utility Costs with Rosemount Vortex Flowmeters

RESULTS

- Visibility of steam usage
- Accurate internal steam custody transfer measurement
- Reduced maintenance costs

"With the Rosemount 8600 Vortex installation, I have more confidence in my steam measurement."

Peng Li

Utility Engineer at YongGang

APPLICATION

Saturated Steam, max temp 250 °C, pressure 1.6 Mpa, working pressure 0.2 - 0.8 Mpa

CUSTOMER

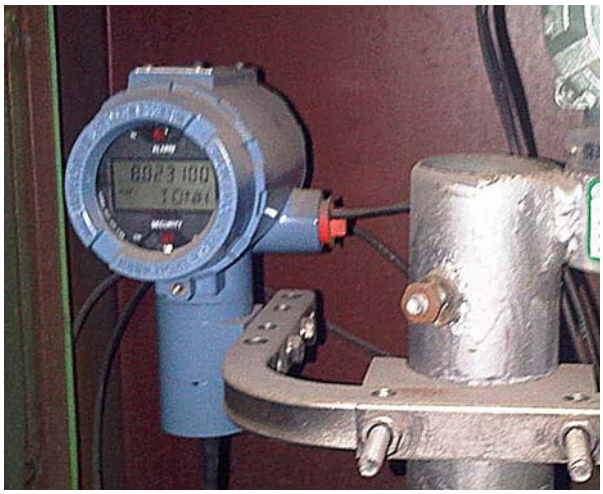
Jiangsu YongGang Group Co., Ltd., a large-scale integrated iron and steel enterprise, with a whole system of iron-making, steel-making and steel-rolling, located in Zhangjiagang City, Jiangsu Province

CHALLENGE

Jiangsu YongGang lacked good visibility of their steam usage and an accurate internal steam custody transfer measurement. This measurement was needed to help them monitor the efficiency of energy usage, an imperative KPI, in their respective workshops. They wanted a more precise understanding of the amount of steam they were purchasing and how efficiently they were using it.

At the time, they were using a vortex meter from a different manufacturer which was not accurate or stable enough to make this measurement. Noise from vibrations would throw off the instrumentation. In addition, the flow in the line varied at times, making it difficult to get a repeatable, consistent measurement. This resulted in lack of confidence in the readings. In addition, the original device failed after only three months.

An accuracy of 1-2 percent was needed and a repeatable measurement was needed from the replacement instrumentation. Without an accurate and stable measurement, energy and utility costs increased.



Installed Rosemount 8600 Vortex Transmitter

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SOLUTION

The customer employed the Rosemount 8600 Vortex Flowmeter. The Rosemount 8600 is designed for utilities applications and can provide a more stable and accurate measurement. Its ADSP and mass balance provide superior vibration immunity. Meter verification enables the customer to check meter health very conveniently, resulting in more confidence in the reading. The 8600D Flowmeter has shown optimum reliability (no failure has been reported in 1 year of installation).

Installed Rosemount 8600 Vortex Flowmeter

RESOURCES

Emerson Process Management Metals and Mining Industries

http://www2.emersonprocess.com/en-US/industries/metals-mining/nonferrous/Pages/index.aspx

Rosemount Vortex Flowmeters

http://www2.emersonprocess.com/en-US/brands/rosemount/Flow/Vortex-Flowmeters/Pages/index.aspx

Steam Pipe

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