

The background of the advertisement is a photograph of a nuclear power plant. Four large, white, hyperboloid cooling towers are visible, each emitting a plume of white steam that rises into a clear blue sky. The towers are situated behind a line of green trees and bushes. In the foreground, a body of water reflects the towers and the sky. The overall scene is bright and clear, suggesting a sunny day.

**SIEMENS**

# Portability and versatility make SITRANS FUP1010 flow meter the right choice for nuclear power company

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A well-known nuclear power company located in the south-eastern United States needed to rent several portable clamp-on ultrasonic flow meters to supplement their existing flow technology in performing a required annual flow survey of secondary cooling water lines. Because the company had been satisfied with the Siemens rental program in the past and had previously purchased Siemens equipment, Siemens was the first flow instrumentation supplier they called for assistance.

## Rental inquiry turns into more

While discussing the possibility of renting SITRANS FUP1010 portable meters with a representative from the Siemens Flow Rental/Sales Group in Hauppauge, New York, the power company also mentioned that they were looking to replace some older clamp-on flow meters that were still used periodically in a low-level containment area for secondary cooling water. However, they did not want to invest in brand-new equipment due to the fact that this location was contaminated with radiation; any meter installed here could never be reused elsewhere.

**Answers for industry.**

## The case at a glance

Region: Southeastern USA

Industry: Power

Customer: Two branches of nuclear power company

**Challenge:** Replace older clamp-on flow meters without investing in new equipment due to radiation within the measurement area; purchase portable flow equipment capable of operation on multiple pipes with varying diameters

**Product:** SITRANS FUP1010

### Main benefits

- 7 hours of battery power for easy portability
- Rugged enclosure protects against harsh conditions
- Available in single- and dual-channel models and operates in either WideBeam or Doppler mode for maximum versatility



"That's easy," the representative responded. "We can sell you used equipment from our rental inventory under the Used Equipment Purchase Plan, at a discount from list price, and even provide you with a full 1-year warranty." Siemens also offered to supply an intrinsic calibration certification for accuracy at no additional charge. The customer felt that this was a great deal and asked to be sent a quote.

### More uses for a highly versatile meter

Within a few weeks, the power company issued a purchase order for three used dual-channel SITRANS FUP1010 clamp-on ultrasonic flow meters with six sets of sensors to provide redundant measurement on the three lines they wanted to monitor. The fully tested and certified equipment was on-site the following week.

But the success story doesn't end there. A couple of months later, a second plant that was part of the same company but in a different location was interested in purchasing some general maintenance, flow and test equipment. They contacted the first plant's maintenance group for recommendations and received an immediate and enthusiastic referral to Siemens in Hauppauge. The second plant requested a quotation for the purchase of three new SITRANS

FUP1010 flow meters with multiple universal sensors to cover pipe diameters ranging from 1 to 24 inches (DN 25 to DN 600), which was necessary since the meters would be used as general flow survey tools on multiple pipelines. The new customer found the quotation reasonable and issued a purchase order shortly thereafter. For both of these satisfied customers, the Siemens solution proved to be the right solution!

### About the SITRANS FUP1010

The SITRANS FUP1010 portable clamp-on ultrasonic flow meter offers maximum versatility and robustness in addition to 7 hours of battery power for portable field use, with AC or DC power for backup. It is ideal for general flow survey work or as a check meter for existing conventional meters, and can serve as a temporary replacement for inoperable flow devices. Its rugged IP67 weather-proof enclosure allows for outdoor use and protects against harsh environments, while its internal data logger stores extensive site data. The SITRANS FUP1010 comes in both single- and dual-channel models and can operate in either WideBeam transit-time or Doppler mode to accommodate a wide range of application conditions. It is also available as a check metering kit for water and wastewater or general liquid applications.

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