echOsonix™

Application Tech Sheet

Cooling Water

Industry: Power Plant, Food and Beverage, Manufacturing

Any plant where water is used as a cooling media (i.e. steam-powered power plant)

Application: All Phases

This is a continually used part of the plant.

Critical Factors: Critical Input to 24/7 Process

Plants use the echOsonix for continuous monitoring of their cooling water; if it not correct, it could cause expensive shut downs and/or repairs. Most plants do not have enough staff to monitor manually, so instruments must be reliable for the same reasons. Must be able to handle high temperatures because the cooling water is usually above 100°F.

What to watch for: Steam, Foam, Condensate

Installation: Placement vs. infeed

Use SOR®:

Advantages

- Lower frequency powers through steam and foam
- Adaptive gain automatically compensates for changing conditions

Benefits

- More complete gain control
- High power
- Low frequency
- Adaptive gain

Key Questions:

1. Possible location of unit in relation to fill stream?
2. What is the distance/amount of remote cable needed?

Ultrasonic Paradigms:

Ultrasonic transmitters can't read through steam, condensate and foam. *echOsonix disproves by providing a signal that is high power and low frequency to penetrate even through steam and foam without losing reliability.*

Other Technology Options:

– Radar, Microwave, Mechanical float, Pressure transmitter, Capacitance/RF

Similar Applications:

– Any liquid level application

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Contact the factory for more information or alternate product options.
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