



# Reliance®

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## Topic: TWIP® Level Switch in a Hydroelectric Dam – Reliable Technology

### Location

A hydroelectric dam in the Southeast US, initially built to produce hydropower – now assists in the regulation of water flow and water temperature for other plants downstream.

### Problem

The plant had outdated switches being used to protect lake water cooling equipment. These switches were dial gages mounted on the wall. Plant personnel were having a hard time reading the switches, leading to reliability and accuracy issues.



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### Solution

The ideal water detection device must fulfill multiple objectives. Foremost, false alarms are unacceptable. Equally undesired are the cost and nuisance of routine testing to assure proper equipment performance. For these reasons, plant personnel decided to upgrade their old switch technology to a TWIP® (Turbine Water Induction Protection) Level Switch.

The TWIP System attacks these detection problems directly and effectively. TWIP combines industry's most successful sensing Probes with a choice of versatile, high technology equipment options. TWIP systems of proven reliability and accuracy are easily tailored for strategic location within any individual steam plant.

As an option, two trip probes can be installed vertically in the water detector at the same level (trip point), to assure that even with voting logic circuitry, the trip point is always at the same single level.

The utmost in performance is achieved in TWIP Systems using the optional "Voting Logic" trip circuit – employing a circuit logic in which any 2 of 3 designated probes will activate the trip circuit when water is present. Voting Logic virtually eliminates false trip Probes – or a single level control failure.

The hydroelectric dam now has the reliability, accuracy, ease of reading, and the modern technology they desired.



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