

Why Your Shipyard Pays More for Water Than It Should — and How to Fix It

Your shipyard runs on high-volume water demand — but your municipal meter is counting more than actually arrives. **System startups, multi-system simultaneous operation, and fire test flows create the conditions for air, gas, and turbulence to form in the line at your meter — and you're being billed for it.** The FCD (Flow Conditioning Device) corrects the measurement. Your operations don't change. Your water bill drops — and so does your sewer bill, because sewer charges are calculated from the same inflated meter reading. One device. Two bills fixed.

WHY SHIPYARD WATER METERS OVER-READ

The Core Problem: High-Intensity Demand Events Are Exactly What Drives Meter Over-Reading

Municipal water meters measure total volume — water, air, gas, and turbulence combined. Every high-velocity demand event at your shipyard — hydro-blast startup, simultaneous wash bays, fire test flows — creates air, gas, and turbulence in the line at the meter. Your meter registers it all as billable water. The FCD corrects that at the source, with no change to downstream pressure or operations.

THE THREE OVER-READING SOURCES UNIQUE TO SHIPYARDS



Hydro-Blasting Startups

High-pressure system startups create the most intense open-valve demand events at any shipyard — maximum air, gas, and turbulence at the supply meter on every activation.



Parts Wash & Paint Booth Systems

Wash stations and paint booth water systems cycling on and off throughout production create repeated variable demand events — compounding meter over-reading every shift.



Fire Suppression Test Flows

Fire system tests create sudden high-volume demand surges — the open-valve conditions that generate air, gas, and turbulence at the meter on every test event.



Your DFARS Environmental & ISO 14001 Water Data Is Better Than Your Meter Shows

If your defense contract environmental reporting, CDP water disclosure, or ISO 14001 data uses metered intake as the baseline, those figures are inflated by over-reading. After FCD installation, your reported water intensity per vessel becomes more accurate — documented from utility bills; confirm with your sustainability team how to report it for DFARS and investor ESG disclosure.

BEFORE & AFTER THE FCD

WITHOUT FCD

- ✗ Air, gas & turbulence billed as water volume
- ✗ Hydro-blast startups inflate meter reading
- ✗ Multi-system operation compounds over-reading
- ✗ NPDES water balance shows unexplained gaps
- ✗ Sewer charge tied to inflated meter

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WITH FCD INSTALLED

- ✓ Metered volume reflects water actually delivered
- ✓ Hydro-blast startups read accurately
- ✓ Multi-system operation measured correctly
- ✓ NPDES water balance closes accurately
- ✓ Sewer charge based on real usage

5–30%

Average water & sewer bill reduction

46%

Highest documented single-site reduction

~1 Hour

Install time — water off about 1 hour

6-Mo

Money-back, no questions asked · install non-refundable

How the FCD Works — Four Steps

1

Installs between two pipe joints right after your water meter — water off about one hour

2

Creates a slight back-pressure that extends back through the meter, reducing air, gas, and turbulence

3

Delivers a laminar-like flow profile through the meter — the condition it was calibrated to read

4

Meter reads accurately. Bill drops. Every hydro-blast system, wash station, and fire suppression supply is effectively unchanged.