



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

Water Flow Innovations LLC

Flow Conditioning Device (FCD)
waterflowinnovations.com

Your housing units, kitchen, laundry, and HVAC all draw from the same supply — but your meter counts more than arrives. **Simultaneous housing unit peaks, commercial laundry cycling, and HVAC cooling tower makeup create the conditions for air, gas, and turbulence to form in the line at your meter — and you're billed for it.** The FCD (Flow Conditioning Device) corrects the measurement. Every inmate service and facility system stays the same. 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 CORRECTIONAL FACILITIES WATER METERS OVER-READ

The Core Problem: Correctional Facilities Have Fixed Budgets Where Every Utility Dollar Saved Goes Back to Operations

Correctional facilities operate under strict budget constraints where utility overages come directly from operational funds. Simultaneous housing unit peaks, commercial laundry, kitchen, and HVAC all compound at the same meter. The FCD corrects that measurement without changing any inmate service, security system, or facility operation — and requires only about one hour of water shutdown to install.

THE THREE OVER-READING SOURCES UNIQUE TO CORRECTIONAL FACILITIES & DETENTION CENTERS



Housing Unit Peak Demand

Simultaneous fixture use in housing units at shift changes and scheduled times creates high-intensity demand surges — generating air, gas, and turbulence at the supply meter on every peak event throughout every operating day.



Commercial Laundry Cycling

High-volume institutional laundry systems cycling through inmate linens and uniforms create repeated large-volume demand events — compounding housing unit over-reading throughout every operating day.



HVAC Cooling Tower Makeup

Facility HVAC cooling tower makeup cycling with building load creates continuous variable demand — adding a third compounding over-reading source on top of housing and laundry demand every billing cycle.



Every Dollar Saved on Water Is a Dollar Available for Facility Operations and Programming

State and county correctional budget cycles are fixed — water utility overages come directly from operational and programming funds. After FCD installation, savings appear on the next utility bill with no capital project, no bond measure, and no grant required. For DOC facility portfolios, each building with its own metered supply is a standalone installation and savings opportunity that aggregates across the system.

BEFORE & AFTER THE FCD

WITHOUT FCD

- ✗ Air, gas & turbulence billed as water volume
- ✗ Housing peaks inflate meter every shift change
- ✗ Laundry demand compounds over-reading
- ✗ Utility overage reduces operational budget
- ✗ Sewer charge tied to inflated meter



WITH FCD INSTALLED

- ✓ Metered volume reflects water actually delivered
- ✓ Housing unit demand reads accurately
- ✓ Laundry cycling measured correctly
- ✓ Utility budget reflects true consumption
- ✓ 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 inmate service, security system, kitchen operation, and facility protocol is effectively unchanged.

FREE SAVINGS ESTIMATE

Instant estimate — takes 30 seconds, no contact info required.

waterflowinnovations.com/water-bill-savings-calculator

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CERTIFICATIONS

IAPMO NSF/ANSI/CAN 61 KIWA GMP SQF

316L Stainless Steel · Made in USA
Under 0.8 psi pressure loss
Lifetime Transferable Warranty