


# False Positive Reduction Case Study

Fewer false alarms. Lower costs. Restored confidence.

## At a glance

PipeSense deployed PipeGuard across multiple pipeline systems to reduce false positives and improve operator confidence. The result was a dramatic reduction in false alarms, significant cost savings, and more reliable leak detection performance.

## Key metrics

 **1**  
false positive in 18 months

 **>99%**  
hydrotest hold achieved

 **\$1.5M+**  
annual savings

 **30,000+**  
events analyzed monthly



 [info@pipesense.com](mailto:info@pipesense.com)

 [www.pipesense.com](http://www.pipesense.com)

 16420 Park Ten Pl # 455, Houston, TX 77084, United States

## CHALLENGES

Operators were dealing with frequent false alarms from legacy leak detection systems, triggering unnecessary shutdowns, field verification costs, and growing distrust in the system. In high-transient environments, thousands of potential events required manual review, creating operational inefficiencies and increasing risk.

## SOLUTIONS

PipeGuard was deployed using adaptive analytics and machine learning to distinguish between normal operational changes and true leak events. The system continuously analyzed pressure behavior in real time, filtering out noise and delivering only actionable alerts.



**Real-Time Monitoring**



**High-Resolution Data Analysis**



**Actionable Integrity Insight**

## BENEFITS

**1**

### Dramatic False Positive Reduction

Reduced false alarms by up to 99%, even in highly dynamic pipeline environments.

**2**

### Significant Cost Savings

Eliminated unnecessary shutdowns and field verification, saving up to \$1.5M annually.

**3**

### Restored Operator Confidence

Operators regained trust in the system, responding to alerts with clarity instead of hesitation.