Case Study

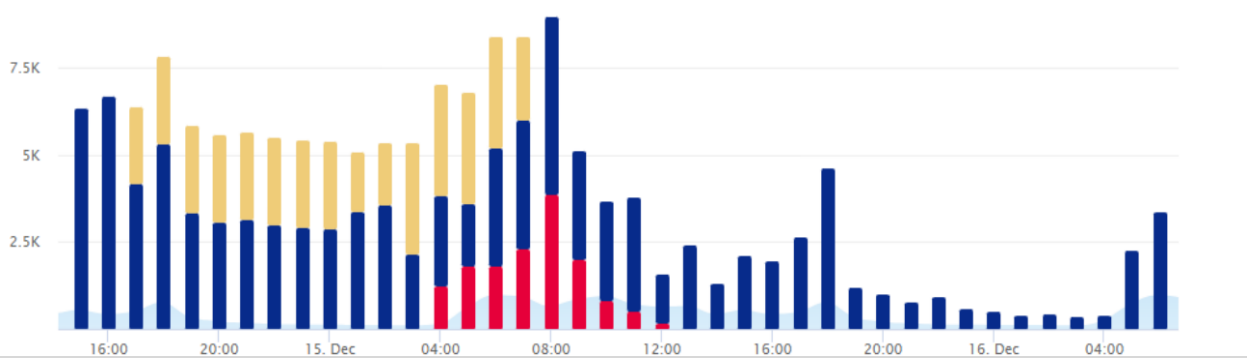
Flush Valve Left Running

BACKGROUND:

In March 2022, the WATERSHIELD system was implemented at a long-term care facility. This innovative monitoring system tracks cold drinking water and softened domestic hot water usage, providing real-time alerts for unusual consumption patterns. Additionally, it offers physical flood alert protection in mechanical rooms and monitors domestic hot water recirculation, storage, and supply temperatures.

PROBLEM IDENTIFICATION:

On December 15, 2022, at 4:19 AM, WATERSHIELD's FLOWIE-O sensor detected an abnormal spike in the softened domestic hot water system, showing an increase of 114 liters per minute, which was well beyond the normal water consumption patterns at that time of day. Such a significant rise in water usage suggested a potential leak in the system. If left undetected, the leak could have resulted in the loss of over 1.3 million liters of water, costing the facility approximately $1,200.



SOLUTION:

WATERSHIELD sent email and text message alerts to the facility's local managers who immediately began investigating and discovered the cause of the increased water flow—a flush valve in the mechanical room had been inadvertently left fully open, directing water to a floor drain.

CONCLUSION:

By detecting the issue in real-time and prompting swift action, the system helped prevent water loss, potential flooding, and costly repairs. This case highlights the importance of proactive water management solutions in sensitive environments like long-term care facilities, where operational continuity and resource conservation are critical.

WATERSHIELD

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