Avigilon Solutions for Water Systems

Support Compliance With the American Water Infrastructure Act

America's Water Infrastructure Act (AWIA) was signed into law on Oct. 23, 2018.

Under AWIA, community drinking water systems that serve more than 3,300 people are required to develop or update its risk assessments and emergency response plans.

Contents

Regulations Overview

Risk and Resilience Assessments

> Each community water system must assess the risks to, and the resilience of its system via six required assessments.

Of the six required assessments for risk and resilience, Avigilon can help address physical security vulnerabilities that may be uncovered from the following assessments:

- The risk to the system from malevolent acts and natural hazards
- The resilience of the pipes and constructed conveyances, physical barriers, source water, water collection and intake, pre-treatment, treatment, storage and distribution facilities, electronic, computer or other automated systems (including the security of such systems) which are utilized by the system
- The monitoring practices of the system

Under AWIA, the assessment may also include an evaluation of capital and operational needs for risk and resilience management for the system.

Emergency Response Plans (ERPs)

> After a community water system certifies completion of its risk and resilience assessments, each system must prepare or revise, where necessary, an emergency response plan that incorporates the assessment findings. The ERPs must cover four topics.

Within the four topics to cover for ERPs, Avigilon can support with:

- Physical security to improve the resilience of the system
- Identification of equipment that can be utilized, in the event of a malevolent act or natural hazard that threatens the ability of the community water system to deliver safe drinking water
- Equipment, which can lessen the impact of a malevolent act or natural hazard on the public health and the safety and supply of drinking water provided to communities and individuals
- Detection of malevolent acts or natural hazards that threaten the security or resilience of the system

Technology Considerations

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Superior Perimeter Protection 24/7

As an alternative to costly fence detection systems, Avigilon self-learning video analytics can provide proactive 24/7 monitoring by helping to detect people and vehicles in areas of interest, such as site perimeters, and notify you of events that may require further investigation

Exceptional Detail in Low-Light Settings

Avigilon IR technology provides water system infrastructures with broad coverage and exceptional image quality in a range of lighting conditions and environments.

Efficient Bandwidth Management

Remote water systems often have limited bandwidth.

Avigilon High Definition Stream Management (HDSM) and HDSM SmartCodec™ technology reduces bandwidth and storage needs while maintaining image quality, helping to keep internet connectivity costs down.

Easy Integration and Cost Savings

Avigilon solutions are built on an open platform, allowing you to integrate previous third-party security cameras and video management software that is ONVIF® compliant.

Be Covered Across Multiple Locations

A water system with multiple reservoirs can be difficult to monitor with only human interaction.

The Focus of Attention user interface in Avigilon Control Center (ACC) video management software uses AI to detect and flag events that may require your attention. Avigilon self-learning video analytics can learn scenes over time and prioritize important events based on user feedback, helping to reduce false alarms to keep the focus on what matters most and reduce operator fatigue.

Made to Trust with SAFETY Act Designations

Avigilon is proud to be a company that manufactures high quality products on which our global customers can rely.

Avigilon video security systems and Access Control Manager (ACM) software has received SAFETY Act Designations from the U.S. Department of Homeland Security (DHS).
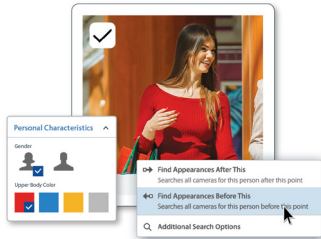
Avigilon Solutions

Video Management Software

ACC™ Video Management Software: ACC software allows you to quickly review live or recorded video with a simplified screen layout and intuitive controls. It features an optional Dark Mode that is specifically designed for low-light security monitoring environments and helps reduce eye strain.

Analytics

Avigilon Appearance Search™ Technology: When a suspicious person has breached the water system, Avigilon Appearance Search technology can quickly help identify the person and track their route in near real-time, reducing investigation times from hours to minutes.

Unusual Motion Detection Technology: Continuously learns what typical activity in a water system scene looks like and then detects and flags unusual motion, such as intrusions at a reservoir — revealing events that may have otherwise been missed.

Video Security

H5A Camera Line: Backed by a five-year warranty, the H5A camera line features our next-generation video analytics that can detect more objects with greater accuracy, whether they are moving or stationary. This helps provide detailed information of what is happening at the water system so you can take action.

H4 Thermal Camera: Protect the water system perimeters with the H4 Thermal camera's heat-sensing capabilities for areas with poor visibility, absolute darkness or extreme environments such as weather, dust, debris, smoke or foliage.

Access Control Manager (ACM)

Our **ACM™ system** works together with ACC software to produce action-based alarms and notifications so you can respond quickly. In the event of an incident or security breach, the ACM system can be deployed for an immediate lockdown across the entire water system.

Avigilon AI Appliance

Evolve your current camera systems into powerful AI solutions. Add self-learning video analytics and Avigilon Appearance Search technology to nearly any IP camera with the Avigilon AI Appliance.

Avigilon, a Motorola Solutions company, designs, develops and manufactures solutions in video analytics, cloud, security cameras, video management software and hardware, and access control. Avigilon is an industry leader and, together with Motorola Solutions, provides integrated solutions for video security, access control and critical communications. Avigilon is proud to offer 24/7 technical support and complimentary software training.

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