



**Vicker's Technology is a security Integrator specializing in outdoor protection with Video Verification in the greater Nashville area.**



INTRODUCTION

Local water towers, while fenced, lacked electronic security protection, leading to trespassing, graffiti, and vandalism. During inspections, the water authority discovered that one tower had been breached, requiring its immediate removal from the main water grid. This triggered a costly sterilization process involving draining, cleaning, and flushing the tower multiple times—a process taking weeks and incurring significant expense. Additionally, pump houses with backup diesel generators faced fuel theft, further increasing operational challenges. Determined to prevent these issues, the water authority sought a comprehensive security solution.

JOB SITE

Each water tower has a control station with internet and power, while pump stations are small brick buildings with similar connections but no security system. The challenge was creating a perimeter protection system with cameras to monitor these areas effectively. Vicker's Technology proposed installing a full perimeter PE Beam system inside the fences surrounding the water towers.

The beam distances ranged from 50' to 200', with each set of beams paired with a video camera to monitor the detection area. By connecting the PE Beams to the CHeKT Video Bridge (Part CKB-312) and pairing detection lines with video cameras, the Central Monitoring Station can verify alarm activations in real time. This setup provides live and looping video to confirm human activity, enabling police to respond as "a crime in progress." This solution ensures enhanced security and proactive response for both water towers and pump stations.

SOLUTION

Assessing the situation, DWS Security provided the neighborhood and HOA with peace of mind through a virtual pool guard solution. The CHeKT Video Bridge proved to be the best fit for this site.

- 1.) It is quick and easy to set up, saving time and money.
- 2.) The CHeKT Video Bridge is an 'open platform,' compatible with any triggering device, alarm panel, and ONVIF camera, whether IP or high-definition over coax.
- 3.) Finally, if needed, the system can easily be expanded.

THE PROBLEM

A local water authority asked for a solution to protect their water towers and pump stations.

RESULT / CONCLUSION

The pump station's security was a straightforward solution. Using the CHeKT Video Bridge (CKB-304), the diesel generator was secured with an Optex Fit Link outdoor motion detector (FTN-RRHW) paired with a camera monitoring the generator through the Bridge. Inside the pump house, a camera was configured with ONVIF line-crossing detection, serving as an interior motion detector.

This setup allowed the Bridge to provide the Central Monitoring Station with live alarm video and looping footage of activations. In both cases, the CHeKT Video Bridge functioned as the alarm control panel, allowing users to arm and disarm the system via the app. The system also generated an automatic log of user actions, ensuring accountability and ease of operation.