



Case Study — Security Company protect area water system with video alarm monitoring using the OPTEX Bridge and CHEKT Visual Alarm platform.

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

INTRODUCTION

Local water towers had a fenced but did not have electronic security protection. Upon water tower inspections, the water authority found the sites were being trespassed and graffiti and vandalism to the sites was occurring. In one case the water authority found one of the water towers had been breached and they had to immediately divert that tower from the main water grid, drain the entire tower and take it through a sterilization process that requires them to sterilize the entire inside of the tower and flush water through the tower multiple times. This process can take weeks and was a cost the water authority wanted to avoid in the future. In addition, the pump houses have an on-site backup diesel generator and large amounts of fuel were being stolen.

JOB SITE

Each tower has a control station that includes internet connection and power. The challenge was creating a perimeter protection system and installing cameras to watch over that protection. The Pump Station are small brick buildings with power and internet connection. There was no existing security system at the pump stations.

Vicker's Technology proposed to install a full perimeter PE Beam system inside the fence and surrounding the entire water tower. Beam distance was between 50' – 200' and each set of beams included a video camera to see the length of the detection area. Connecting the PE Beams to the Optex Bridge (Part CKB-312) and pairing that line of detection to a video camera gives the Central Monitoring Station the ability to determine through an alarm activation, live video and alarm looping video if the site has human activity or not. In the case of human detection, the Police can now respond to the site as "a crime in progress".

RESULT / CONCLUSION



The water authority now has a comprehensive security solution allowing them to arm the sites, remotely view the sites, and have priority police response on their water towers and pump stations.

1. With the OPTEX Bridge adding video alarm monitoring can easily be set up saving everyone time & money.
2. The OPTEX BRIDGE is an open platform, meaning it works with any trigger device, any alarm panel, & any ONVIF protocol, analog, or high-def camera over coax.

THE PROBLEM

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

SOLUTION

The Pump station was a simple solution. Using the Optex Bridge (CKB-304) they protected the diesel generator with an Optex Fit Link, outdoor motion detector (FTN-RRHW) linked to a camera overlooking the generator through the Bridge. For interior protection of the pump house the camera is working as an interior motion detector set to line crossing and creating an ONVIF alarm action to the Bridge to give the Central Monitoring Station a live view of the alarm camera and an alarm looping video of the actual activation.

In both cases the Optex Bridge is acting as the Alarm Control Panel and is armed and disarmed by the user through the app and generates an auto-log of arming and disarming by user.